

```
Wind Speed (m/s) Theoretical_Power_Curve (KWh)
            LV ActivePower (kW)
Date/Time
      Wind Direction (°)
01 01 2018 00:00 380.0477905 5.31133604 416.3289078 259.9949036
01 01 2018 00:10 453.7691956 5.672166824 519.9175111 268.6411133
                 306.3765869 5.216036797 390.9000158 272.5647888
01 01 2018 00:20
01 01 2018 00:30 419.6459045 5.659674168 516.127569 271.2580872
                 380.6506958 5.577940941 491.702972 265.6742859
01 01 2018 00:40
01 01 2018 00:50 402.3919983 5.604052067 499.436385 264.5786133
01 01 2018 01:00 447.6057129 5.793007851 557.3723633 266.1636047
01 01 2018 01:10
                  387.2421875 5.306049824 414.8981788 257.9494934
01 01 2018 01:20 463.6512146 5.584629059 493.6776521 253.4806976
01 01 2018 01:30 439.725708 5.523228168 475.7067828 258.7237854
01 01 2018 01:40 498.1817017 5.724115849 535.841397 251.8509979
01 01 2018 01:50
                 526.8162231 5.934198856 603.0140765 265.5046997
01 01 2018 02:00 710.5872803 6.547413826 824.6625136 274.2329102
01 01 2018 02:10 655.1942749 6.199746132 693.4726411 266.7331848
01 01 2018 02:20
                 754.7625122 6.505383015 808.0981385 266.7604065
01 01 2018 02:30
                 790.1732788 6.634116173 859.4590208 270.4931946
01 01 2018 02:40
                 742.9852905 6.378912926 759.4345366 266.5932922
01 01 2018 02:50
                 748.2296143 6.446652889 785.2810099 265.5718079
01 01 2018 03:00
                 736.6478271 6.415082932 773.1728635 261.1586914
                  787.2462158 6.437530994 781.7712157 257.5602112
01 01 2018 03:10
01 01 2018 03:20
                  722.8640747 6.220024109 700.7646999 255.9264984
                 935.0333862 6.89802599 970.7366269 250.0128937
01 01 2018 03:30
01 01 2018 03:40 1220.609009 7.60971117 1315.048928 255.9857025
01 01 2018 03:50 1053.771973 7.288355827 1151.265744 255.4445953
01 01 2018 04:00 1493.807983 7.943101883 1497.583724 256.4074097
01 01 2018 04:10 1724.488037 8.376161575 1752.199662 252.4125977
01 01 2018 04:20 1636.935059 8.23695755 1668.470707 247.9794006
01 01 2018 04:30
                 1385.488037 7.879590988 1461.815791 238.6096039
01 01 2018 04:40
                 1098.932007 7.101376057 1062.285034 245.0955963
01 01 2018 04:50 1021.458008 6.955307007 995.9958546 245.410202
01 01 2018 05:00
                 1164.892944 7.098298073 1060.859712 235.2279053
01 01 2018 05:10 1073.332031 6.953630924 995.2509608 242.8726959
01 01 2018 05:20 1165.307983 7.249577999 1132.416861 244.8356934
                  1177.98999 7.294691086 1154.365305 242.4815979
01 01 2018 05:30
                  1170.536011 7.376369953 1194.843099 247.9772034
01 01 2018 05:40
01 01 2018 05:50
                  1145.536011 7.448554039 1231.430706 249.6829987
01 01 2018 06:00 1114.026978 7.23925209 1127.433206 248.401001
01 01 2018 06:10
                 1153.185059 7.329211235 1171.355044 244.6217041
01 01 2018 06:20
                 1125.331055 7.139705181 1080.139085 244.6318054
01 01 2018 06:30 1228.732056 7.474228859 1244.633534 245.7859955
01 01 2018 06:40
                 1021.79303 7.033174038 1030.992686 248.6522064
                 957.3781738 6.886455059 965.6833344 244.6116943
01 01 2018 06:50
01 01 2018 07:00
                 909.8878174 6.887821198 966.2791049 235.8482971
01 01 2018 07:10
                  1000.953979 7.216432095 1116.471899 232.8426971
01 01 2018 07:20
                  1024.478027 7.068597794 1047.170231 229.933197
01 01 2018 07:30
                 1009.533997 6.938295841 988.4519407 230.1367035
01 01 2018 07:40 899.492981 6.536687851 820.4166586 234.9338074
01 01 2018 07:50
                  725.1101074 6.180624962 686.6369422 232.8379059
01 01 2018 08:00
                  585.2593994 5.816825867 564.9276595 240.3287964
01 01 2018 08:10 443.9139099 5.450150967 454.7735871 238.126297
01 01 2018 08:20
                 565.2537842 5.81814909 565.3490932 235.800293
01 01 2018 08:30 644.0377808 6.130272865 668.8235693 224.9586945
01 01 2018 08:40
                 712.0588989 6.347077847 747.4606734 216.803894
01 01 2018 08:50
                 737.3947754 6.347436905 747.5951091 205.7852936
01 01 2018 09:00 725.868103 6.194368839 691.5463343 199.8484955 01 01 2018 09:10 408.997406 4.977198124 330.4176304 207.9978027
01 01 2018 09:20 628.4368286 5.959111214 611.2838365 210.954895
```

```
01 01 2018 09:30 716.1005859 6.21137619 697.6494744 215.6940002
                 711.4956055 6.111453056 662.235163 220.8426056
01 01 2018 09:40
01 01 2018 09:50
                 838.1519165 6.456322193 789.0114224 237.0653076
01 01 2018 10:00 881.0620728 6.666657925 872.7396259 235.6674957
                 663.703125 6.16287899 680.3278917 229.3296967
01 01 2018 10:10
01 01 2018 10:20
                 578.2615967 6.013167858 628.4425608 234.9006042
01 01 2018 10:30
                 465.6200867 5.561203003 486.7795676 230.4228058
                 311.0509033 4.960731983 326.4110254 229.5375061
01 01 2018 10:40
01 01 2018 10:50 230.0554962 4.60387516 244.3162442 231.7984924
01 01 2018 11:00
                 233.9906006 4.554533958 233.6327805 234.1056061
01 01 2018 11:10
                 175.5921936 4.26362896 173.5736631 228.7767029
01 01 2018 11:20 118.1331024 3.894139051 108.5712211 227.9389954
01 01 2018 11:30
                 142.2024994 4.038761139 130.2299896 224.4649963
01 01 2018 11:40 212.5661926 4.505650997 223.1967841 224.9505005
01 01 2018 11:50 222.6100006 4.543397903 231.2425073 229.127594
01 01 2018 12:00 194.1811981 4.323760986 185.5984796 227.0399933
01 01 2018 12:10 82.64074707 3.634437084 68.5028198 230.3146057
01 01 2018 12:20
                 75.8952179 3.705512047 78.39616535 233.9532928
01 01 2018 12:30
                 41.94723892 3.253968
                                         29.28695563 233.0659027
                 118.5345993 3.775136948 88.87136533 227.7534943
01 01 2018 12:40
01 01 2018 12:50
                 250.7559052 4.693500996 264.1192574 229.8966064
                 346.8644104 5.002939224 336.7219982 235.2794952
01 01 2018 13:00
                416.4179077 5.364749908 430.921089 235.5852966
01 01 2018 13:10
01 01 2018 13:20
                 331.9414978 5.016181946 339.9849402 229.9429016
01 01 2018 13:30 583.4799194 5.970407963 615.0556308 235.6952972
01 01 2018 13:40 776.5526733 6.655520916 868.1808449 241.4573975
01 01 2018 13:50 752.7263794 6.600903988 846.0294095 242.7821045
01 01 2018 14:00 589.0731201 5.981378078 618.7314427 234.9844055
01 01 2018 14:10 1109.128052 7.424593925 1219.199787 235.1472931
01 01 2018 14:20
                 1482.459961 8.186451912 1638.508909 238.4790955
01 01 2018 14:30 1523.430054 8.27493
                                       1691.147039 237.0332031
01 01 2018 14:40 1572.170044 8.449202538 1796.76309 238.3323975
01 01 2018 14:50
                 1698.939941 8.575974464 1875.047197 235.6414032
01 01 2018 15:00
                 1616.845947 8.282259941 1695.538777 236.4613953
                 1796.823975 8.734552383 1974.4758
01 01 2018 15:10
                                                     234.3547974
                 1885.860962 8.764103889 1993.170712 231.0016022
01 01 2018 15:20
                 2327.511963 9.669431686 2568.827129 227.6000977
01 01 2018 15:30
                 2499.162109 10.14109039 2876.753616 227.7315979
01 01 2018 15:40
01 01 2018 15:50 2820.512939 10.77241993 3186.029883 225.2763977
01 01 2018 16:00 2812.279053 10.64752007 3133.259224 224.680603
01 01 2018 16:10 2530.447021 9.982661247 2781.274041 225.5195007
01 01 2018 16:20 2399.121094 9.874385834 2711.492458 227.2738037
01 01 2018 16:30 2335.587891 9.785479546 2651.341009 229.2554932
01 01 2018 16:40 2341.133057 9.614232063 2527.945451 230.7368927
01 01 2018 16:50
                 2391.8479
                            9.618504524 2531.14794 229.490799
01 01 2018 17:00
                 2118.389893 9.098683357 2207.79282 223.960907
                 1866.845947 8.677425385 1938.478601 219.7937012
01 01 2018 17:10
                 1865.619019 8.774898529 2000.011716 219.0449066
01 01 2018 17:20
01 01 2018 17:30 1862.447998 8.689981461 1946.373955 215.3352051
01 01 2018 17:40
                 1884.119019 8.631073952 1909.416256 216.2799988
01 01 2018 17:50
                 1855.776978 8.614569664 1899.100734 214.5290985
01 01 2018 18:00
                 1958.133057 9.21884346 2285.917032 212.1799011
01 01 2018 18:10
                 2228.24292 10.04951954 2822.50949 210.3085938
01 01 2018 18:20 2529.291016 10.31871033 2974.866796 210.5881042
01 01 2018 18:30 2788.25708 10.76675987 3183.72246 207.4813995
01 01 2018 18:40 2692.929932 10.55825043 3093.110672 208.5518951
01 01 2018 18:50 2535.353027 10.25072002 2938.394607 208.0106964
01 01 2018 19:00 2584.665039 10.46477032 3048.823833 205.7528992
01 01 2018 19:10 2960.183105 11.39078045 3393.645541 200.6542969
```

```
01 01 2018 19:20 3062.978027 11.56554031 3437.597135 198.1242981
                 3024.39209 11.2802496 3362.668742 198.5381927
01 01 2018 19:30
01 01 2018 19:40
                 3187.9729
                             11.33677959 3378.826271 200.4904022
01 01 2018 19:50 3387.228027 11.80463982 3488.248491 199.2469025
01 01 2018 20:00 3209.018066 11.3635397 3386.244486 199.8054962
01 01 2018 20:10 3272.665039 11.63259029 3452.881108 198.2677002
01 01 2018 20:20 3209.698975 11.44476032 3407.867876 195.6320038
01 01 2018 20:30 3134.518066 11.27190018 3360.225775 196.6611023
01 01 2018 20:40 2977.824951 11.05900955 3292.880925 196.5158997
01 01 2018 20:50
                 3431.772949 12.10377979 3537.173706 198.2570038
01 01 2018 21:00 3604.209961 12.92813969 3597.469467 201.5825958
01 01 2018 21:10 3601.327881 13.31941986 3600 201.9421997
01 01 2018 21:20 3604.426025 13.12152004 3600 203.5077972
01 01 2018 21:30 3604.391113 13.23544979 3600 202.6929932
01 01 2018 21:40 3604.337891 13.23589993 3600 202.9362946
01 01 2018 21:50 3554.687988 13.02956009 3600 201.2539063
01 01 2018 22:00 3479.407959 12.96393967 3597.794635 201.3408966
01 01 2018 22:10 3472.333008 12.90295029 3597.13106 200.9795074
01 01 2018 22:20 3491.510986 12.76634026 3593.704942 200.9960022
01 01 2018 22:30 3536.989014 12.89834976 3597.059449 200.5142059
01 01 2018 22:40 3528.658936 12.74211025 3592.814313 202.8952942
01 01 2018 22:50 3581.540039 12.31826019 3562.990095 202.841095
01 01 2018 23:00 3570.079102 12.41880989 3572.556143 202.4118042
01 01 2018 23:10 3597.604004 12.54298973 3582.204643 201.6253052
01 01 2018 23:20 3441.025879 12.67599964 3589.945634 199.3220978
01 01 2018 23:30 3373.969971 13.00304985 3600 197.1307068
01 01 2018 23:40 3369.812988 13.29767036 3600 196.4936066
01 01 2018 23:50 3375.903076 12.84405994 3595.984792 195.3150024
02 01 2018 00:00 3377.649902 12.70538998 3591.300461 196.0422058
02 01 2018 00:10 3374.423096 12.1833601 3547.627655 197.7438965
02 01 2018 00:20 3401.081055 12.20514011 3550.307222 196.8088074
02 01 2018 00:30 3469.412109 12.60188007 3585.959181 193.8157043
02 01 2018 00:40 3511.809082 12.84455013 3595.996394 194.3466034
02 01 2018 00:50 3536.759033 12.49705982 3578.911555 196.009201
02 01 2018 01:00 3467.808105 12.09607029 3536.105139 197.9526978
02 01 2018 01:10 3460.677002 12.19612026 3549.206917 201.330307
02 01 2018 01:20 3589.443115 12.55035019 3582.702554 201.1882019
02 01 2018 01:30 3527.718994 12.6156702 3586.762967 202.6235962
02 01 2018 01:40 3561.26709 13.10278034 3600 201.7666016
02 01 2018 01:50 3604.068115 13.68774986 3600 199.0195007
02 01 2018 02:00 3604.176025 14.10241985 3600 196.2552032
02 01 2018 02:10 3593.200928 14.39330959 3600 195.8798981
02 01 2018 02:20 3493.821045 14.07954979 3600 197.6403046
02 01 2018 02:30 3470.701904 14.05440044 3600 197.2447968
02 01 2018 02:40 3436.610107 13.51247025 3600 195.9954071
02 01 2018 02:50 3401.455078 13.71004963 3600 192.4197998
02 01 2018 03:00 3395.23291 13.7423296 3600 191.0137024
02 01 2018 03:10 3417.503906 13.14186001 3600 192.2046967
02 01 2018 03:20 3465.108887 12.86771011 3596.50506 192.771698
02 01 2018 03:30
                 3467.417969 12.84727001 3596.060138 192.4705048
02 01 2018 03:40
                 3522.406982 12.73211002 3592.421666 192.5679016
02 01 2018 03:50
                 3510.10791 12.51620007 3580.322941 194.9992065
02 01 2018 04:00
                 3513.844971 12.59866047 3585.767414 196.0422974
02 01 2018 04:10 3564.008057 13.23031998 3600 196.4087982
02 01 2018 04:20 3475.278076 13.0946703 3600 198.5249939
02 01 2018 04:30 3561.990967 12.91687965 3597.329407 198.0101013
02 01 2018 04:40 3521.554932 12.63354969 3587.762741 197.6634979
02 01 2018 04:50 3493.60791 12.82567024 3595.524457 201.1040955
02 01 2018 05:00 3555.304932 12.54162025 3582.111096 200.3634033
```

```
02 01 2018 05:10 3377.12793 12.10496998 3537.337786 196.9826965
                 3479.626953 12.36250019 3567.394707 199.798996
02 01 2018 05:20
02 01 2018 05:30
                 3539.112061 12.60391045 3586.079315 201.2702942
02 01 2018 05:40 3430.436035 12.21222019 3551.161616 198.9846039
02 01 2018 05:50 3301.917969 11.98762035 3520.011831 202.5711975
02 01 2018 06:00 3235.543945 11.67932987 3463.031603 200.7035065
02 01 2018 06:10 3519.022949 12.46971989 3576.798254 197.8733978
02 01 2018 06:20 3469.537109 12.49489975 3578.748756 201.1011047
02 01 2018 06:30 3296.186035 11.78983021 3485.417643 200.3565979
02 01 2018 06:40 3045.51001 10.90355015 3237.314957 199.4629059
02 01 2018 06:50 3444.741943 12.18807983 3548.214895 202.7460022
02 01 2018 07:00 3417.746094 11.97813034 3518.508247 199.4022064
02 01 2018 07:10 2807.613037 10.67446995 3144.977295 197.2297058
02 01 2018 07:20 2493.393066 9.69664669 2588.59196 200.3191986
02 01 2018 07:30 3215.196045 11.41759014 3400.782508 200.488205
02 01 2018 07:40 3589.590088 12.68927002 3590.573175 199.5281067
02 01 2018 07:50 3599.149902 13.05860043 3600 200.6078033
02 01 2018 08:00 3375.177002 11.52081966 3426.922472 195.8547058
02 01 2018 08:10 3346.980957 11.51231003 3424.84719 197.7467041
02 01 2018 08:20 3567.967041 12.41629982 3572.336603 199.1638031
02 01 2018 08:30 3519.264893 12.16014957 3544.686608 198.3968964
02 01 2018 08:40 3485.191895 11.67107964 3461.269666 194.6569977
02 01 2018 08:50 3145.562988 11.14585972 3321.545696 195.8325043
02 01 2018 09:00 2978.310059 10.77289963 3186.225079 193.1703949
02 01 2018 09:10 3179.008057 10.92975998 3247.07462 195.0997009
02 01 2018 09:20 3461.581055 12.14006042 3542.069502 198.2947998
02 01 2018 09:30 3082.549072 11.19556046 3337.205225 200.7570038
02 01 2018 09:40 3493.657959 12.94869041 3597.678446 204.0805969
02 01 2018 09:50 3601.045898 14.87942982 3600 197.5942993
02 01 2018 10:00 3597.564941 15.12405968 3600 196.3455963
02 01 2018 10:10 3602.172119 16.29367065 3600 196.8367004
02 01 2018 10:20 3601.99292 16.12397957 3600 192.2306061
02 01 2018 10:30 3600.791016 15.27460003 3600 190.949295
02 01 2018 10:40 3590.75
                             13.56672001 3600 192.9456024
                 3601.845947 15.36779976 3600 194.7528076
02 01 2018 10:50
                 3601.870117 15.86174965 3600 195.0402985
02 01 2018 11:00
02 01 2018 11:10
                 3591.655029 14.92051029 3600 197.9895935
02 01 2018 11:20 3579.024902 13.60853004 3600 201.4945068
02 01 2018 11:30 3598.131104 14.46385956 3600 200.4884033
02 01 2018 11:40 3525.333008 12.68828964 3590.527705 202.2259979
02 01 2018 11:50 3560.699951 13.55690002 3600 202.153595
02 01 2018 12:00 3537.676025 13.32281017 3600 203.2893982
02 01 2018 12:10 3491.291016 12.60700989 3586.261512 201.0937042
02 01 2018 12:20 3530.766113 12.31476021 3562.628404 197.5440979
02 01 2018 12:30 2915.839111 10.3801899 3006.71767 200.9197998
02 01 2018 12:40 2178.658936 9.11702919 2219.691985 201.0245056
02 01 2018 12:50 2244.412109 9.253190994 2308.322526 198.9759979
02 01 2018 13:00 1278.89502 9.072306633 2190.704763 198.2364044
02 01 2018 13:10 2832.934082 10.34463024 2988.424599 196.6472015
02 01 2018 13:20 3205.9729
                           11.10330963 3307.71074 200.1464996
02 01 2018 13:30
                 3149.284912 11.06910992 3296.300642 198.8968048
02 01 2018 13:40 3273.656006 11.32581043 3375.742901 201.1446075
02 01 2018 13:50
                 3114.099121 11.01513958 3277.761152 204.9272003
02 01 2018 14:00 3111.060059 10.90725994 3238.706158 204.813797
02 01 2018 14:10 3361.011963 11.76941013 3481.44923 209.778595
02 01 2018 14:20 3421.419922 11.87483025 3501.130346 209.6006012
02 01 2018 14:30 3520.148926 12.16926003 3545.851555 208.3181
02 01 2018 14:40 3589.427002 12.82061958 3595.389466 211.1817932
02 01 2018 14:50 3495.115967 12.57161999 3584.095307 209.4647064
```

```
02 01 2018 15:00 3298.761963 11.39929962 3395.929165 205.625
02 01 2018 15:10 2894.440918 10.54543018 3087.174334 200.6107025
02 01 2018 15:20 3486.628906 12.30932999 3562.063389 202.0561981
02 01 2018 15:30 3455.24707 12.1683197 3545.731948 203.7207031
02 01 2018 15:40 3556.785889 12.28707981 3559.699203 204.6085968
02 01 2018 15:50 3375.582031 12.01319027 3523.986209 201.7415009
02 01 2018 16:00 3493.979004 12.21352959 3551.318734 201.7156067
02 01 2018 16:10 3549.147949 12.93774033 3597.57459 199.9685059
02 01 2018 16:20 3483.315918 13.66942024 3600 203.870697
02 01 2018 16:30
                 3589.858887 13.69785976 3600 204.8023071
02 01 2018 16:40 3584.235107 12.75835991 3593.421089 202.6508026
02 01 2018 16:50 3599.008057 12.76517963 3593.664238 201.2570953
02 01 2018 17:00 3602.637939 13.07721996 3600 203.4407043
02 01 2018 17:10 3550.563965 12.59340954 3585.451317 205.1535034
02 01 2018 17:20 3552.782959 12.51366997 3580.139581 205.008194
02 01 2018 17:30 3585.010986 12.53439999 3581.613183 204.1203003
02 01 2018 17:40 3421.176025 11.96442986 3516.3102
                                                     201.9989014
02 01 2018 17:50 3406.040039 11.94577026 3513.264349 194.3786926
02 01 2018 18:00 3515.610107 12.20707989 3550.542117 189.5238037
02 01 2018 18:10 3515.965088 12.2751503 3558.399068 190.5794983
02 01 2018 18:20 3475.418945 12.72264004 3592.036307 187.6125031
02 01 2018 18:30 3471.156982 12.26537037 3557.31619 189.4371948
02 01 2018 18:40 3281.754883 11.70368958 3468.159913 192.2619019
02 01 2018 18:50
                 2955.11499 10.96352959 3259.412905 190.4571991
02 01 2018 19:00 3061.735107 11.29796982 3367.805139 192.8582001
02 01 2018 19:10 2679.110107 10.66594982 3141.292611 194.0843964
02 01 2018 19:20 2721.081055 10.8332901 3210.350601 195.2017975
02 01 2018 19:30 2649.136963 10.57837009 3102.339998 195.3432007
02 01 2018 19:40 2707.74292 10.38854027 3010.962279 201.797699
02 01 2018 19:50 2508.832031 10.08041954 2841.099422 204.2073975
02 01 2018 20:00 2316.647949 9.838738441 2687.688082 199.747406
02 01 2018 20:10 3081.542969 11.43999958 3406.637064 200.2402954
02 01 2018 20:20 3397.638916 11.94402981 3512.977172 201.1663971
02 01 2018 20:30 3391.716064 11.85929012 3498.353994 201.7106018
02 01 2018 20:40 3587.510986 12.81147957 3595.135782 201.3484955
                 3603.112061 12.91353989 3597.284381 201.6768951
02 01 2018 20:50
                 3591.093018 12.72832012 3592.269026 202.4132996
02 01 2018 21:00
02 01 2018 21:10 3221.044922 11.66357994 3459.656972 202.6618958
02 01 2018 21:20 2887.733887 11.0952301 3305.038612 204.061203
02 01 2018 21:30 2364.534912 10.16094971 2888.183469 203.3379059
02 01 2018 21:40 1935.847046 9.202415466 2275.211448 197.8013
02 01 2018 21:50 1549.480957 8.539284706 1852.273851 195.5061035
02 01 2018 22:00 1625.755981 8.809141159 2021.754239 187.4846039
02 01 2018 22:10 1994.222046 9.608460426 2523.60898 188.0238953
02 01 2018 22:20 2362 9.844923973 2691.848533 190.6604004
02 01 2018 22:30 2097.771973 9.338670731 2364.198743 196.7335968
                 1564.590942 8.424916267 1781.899877 197.0158997
02 01 2018 22:40
02 01 2018 22:50
                 1107.474976 7.656233788 1339.713949 188.6903992
02 01 2018 23:00 1303.116943 8.144581795 1613.847713 181.6596069
02 01 2018 23:10
                 1561.182007 8.54713726 1857.140175 173.5366974
02 01 2018 23:20
                 1544.999023 8.381804466 1755.627598 171.3834076
02 01 2018 23:30
                 1456.738037 7.850449085 1445.553534 179.8197937
02 01 2018 23:40
                 1795.644043 8.656551361 1925.374082 188.2382965
02 01 2018 23:50 2773.291016 10.92311954 3244.617174 179.039093
03 01 2018 00:00 2782.568115 10.4051199 3019.332696 176.9255981
03 01 2018 00:10 2446.424072 9.498130798 2468.761378 174.677002
03 01 2018 00:20 3412.39209 11.93025017 3510.684928 180.6725006
03 01 2018 00:30 3255.337891 11.07629013 3298.717792 183.8755035
03 01 2018 00:40 2796.876953 10.45788002 3045.466801 192.1911011
```

```
03 01 2018 00:50 2467.954102 9.791149139 2655.255241 197.104599
                 1278.886963 7.626486778 1323.911052 202.940506
03 01 2018 01:00
03 01 2018 01:10
                 1042.537964 7.287635803 1150.913828 207.3871002
03 01 2018 01:20 609.0761719 6.228209019 703.7205269 216.9989014
03 01 2018 01:30 175.4407043 4.47162199 216.0170723 222.5090942
03 01 2018 01:40 112.1109009 4.127829075 147.1041396 215.4514008
03 01 2018 01:50 271.9171143 5.032844067 344.1094784 202.5102997
03 01 2018 02:00 737.4487915 6.267045021 717.8434981 211.2003021
03 01 2018 02:10 1375.579956 7.763337135 1397.52319 193.6107025
03 01 2018 02:20
                 1520.890015 8.21955204 1658.119112 172.135498
03 01 2018 02:30
                 1349.112061 7.974888802 1515.649475 168.3569031
03 01 2018 02:40 889.1298218 6.794364929 926.0444806 171.1295013
03 01 2018 02:50 412.115509 5.536108017 479.4472407 162.7037964
03 01 2018 03:00 444.6036072 5.491714954 466.6197137 150.2816925
03 01 2018 03:10 655.7307129 6.076754093 650.187023 149.6408997
03 01 2018 03:20 882.5654297 6.69093895 882.7282325 152.2225037
03 01 2018 03:30 998.3845825 6.848011971 949.0116113 157.1643066
03 01 2018 03:40 1193.395996 7.759384155 1395.364787 152.699707
03 01 2018 03:50 1122.712036 7.417626858 1215.659509 152.076004
03 01 2018 04:00 1214.125977 7.472226143 1243.600054 154.7837982
03 01 2018 04:10
                 1086.307007 7.080772877 1052.768027 160.2183075
                 1060.603027 7.053721905 1040.356847 165.8153992
03 01 2018 04:20
03 01 2018 04:30
                 1451.713989 7.766314983 1399.150382 170.8444977
03 01 2018 04:40
                 1361.459961 7.833246231 1435.998878 173.0240936
03 01 2018 04:50 1490.569946 7.959300995 1506.776853 173.9763947
03 01 2018 05:00 1153.139038 7.283742905 1149.012424 176.7931976
03 01 2018 05:10 953.9760132 7.001252174 1016.552582 178.0930023
03 01 2018 05:20 799.0856934 6.758135796 910.7282546 174.0330048
03 01 2018 05:30 616.2548218 6.179992199 686.4114027 167.9960022
03 01 2018 05:40 646.9244995 6.301719189 730.5901706 168.8119965
03 01 2018 05:50
                 1323.682007 7.517776966 1267.134969 184.7017975
03 01 2018 06:00 1568.885986 8.094202995 1584.395551 194.0092926
03 01 2018 06:10 1580.902954 7.854953766 1448.061049 197.8014984
03 01 2018 06:20 1495.180054 7.719468117 1373.675076 191.2086945
03 01 2018 06:30 2063.868896 8.847901344 2046.438946 195.0639038
                 2368.76001 9.631019592 2540.491731 198.074707
03 01 2018 06:40
03 01 2018 06:50
                 2516.419922 9.767664909 2638.971731 191.838501
03 01 2018 07:00
                 2108.770996 9.185004234 2263.873095 190.0070038
03 01 2018 07:10 2568.111084 9.927650452 2746.29034 179.3226929
03 01 2018 07:20 3445.219971 12.03275967 3526.952507 175.9355011
03 01 2018 07:30 2994.106934 10.87308979 3225.769174 180.7583008
03 01 2018 07:40 2594.937012 10.38061047 3006.931915 177.4212036
03 01 2018 07:50 2326.825928 10.34302044 2987.588083 164.6313934
03 01 2018 08:00
                 1941.463989 9.283791542 2328.307526 157.3659973
03 01 2018 08:10
                 1581.487061 8.263951302 1684.577838 151.1777039
03 01 2018 08:20
                 1013.286987 7.161077023 1090.179344 144.4230042
03 01 2018 08:30
                 375.6176147 5.502151966 469.6191644 145.3318024
                 198.1511993 4.645584106 253.4672425 155.7653046
03 01 2018 08:40
03 01 2018 08:50 87.44045258 3.847867012 100.642022 162.271698
03 01 2018 09:00
                 189.1378021 4.553710938 233.4558636 148.0536041
03 01 2018 09:10
                 434.4317932 5.735952854 539.5070619 136.6712036
03 01 2018 09:20
                 336.5007935 5.057969093 350.3694191 139.4640045
03 01 2018 09:30
                 296.6101074 4.922440052 317.1718028 141.7938995
03 01 2018 09:40 92.9240036 3.821350098 96.25248176 148.5747986
03 01 2018 09:50 85.70230103 3.580841064 61.57702143 165.8957062
03 01 2018 10:00 309.5114136 4.716145039 269.2057367 187.6051941
03 01 2018 10:10 381.1726074 5.080855846 356.114453 188.4362946
03 01 2018 10:20 417.2662964 5.343267918 425.0226087 202.2389984
03 01 2018 10:30 446.343811 5.452712059 455.4989836 201.0330963
```

```
03 01 2018 10:40 206.6020966 4.29698801 180.2207304 191.4851074
03 01 2018 10:50 251.3757019 4.736260891 273.7530825 183.4333954
03 01 2018 11:00 275.0136108 4.780562878 283.8646662 187.9405975
03 01 2018 11:10 314.2744141 4.894141197 310.4131199 180.8480072
03 01 2018 11:20 238.7823029 4.487487793 219.355975 185.8578033
03 01 2018 11:30
                409.0264893 5.314783096 417.2631565 180.8168945
                 506.4703064 5.711400986 531.9193571 186.1788025
03 01 2018 11:40
03 01 2018 11:50 427.9566956 5.374886036 433.7182755 196.3742065
03 01 2018 12:00 952.2675781 6.895505905 969.6346499 193.9367065
03 01 2018 12:10
                 1019.905029 7.240921021 1128.237686 187.7236023
03 01 2018 12:20
                 1015.357971 6.709988117 890.6123118 185.273407
03 01 2018 12:30 979.7229004 6.851963043 950.7168123 183.7971039
03 01 2018 12:40 379.4078979 5.078312874 355.4740901 185.1383972
03 01 2018 12:50 841.5977783 6.521288872 814.34348
                                                     189.263504
03 01 2018 13:00 672.6187744 6.171179771 683.2747912 189.2765045
03 01 2018 13:10 452.0786133 5.449243069 454.5165791 190.636795
03 01 2018 13:20 558.9979248 5.851128101 575.9105762 196.9326935
03 01 2018 13:30 331.7192993 5.094088078 359.454764 193.4658051
03 01 2018 13:40 212.1006927 4.598594189 243.1654974 197.9337006
03 01 2018 13:50 79.72102356 3.629702091 67.87244481 199.7156067
03 01 2018 14:00 183.0128021 4.472650051 216.232972 205.3706055
03 01 2018 14:10 279.1960144 4.918616772 316.2552558 204.3323059
03 01 2018 14:20 460.2166138 5.625835896 505.9378767 209.3771057
03 01 2018 14:30 647.7111206 6.316774845 736.1652234 211.6537018
03 01 2018 14:40 685.0780029 6.237164974 706.9630418 212.0509033
03 01 2018 14:50 709.8339844 6.449378014 786.3313199 211.607605
03 01 2018 15:00 493.3555908 5.782717228 554.1258994 212.3511047
03 01 2018 15:10 366.0793152 5.346119881 425.803377 216.8318024
03 01 2018 15:20
                 183.0379028 4.379333019 196.8860292 220.0410004
03 01 2018 15:30
                 7.347679138 3.011370897 16.3742125 238.6905975
03 01 2018 15:40 0
                       3.743307114 83.98626485 245.0682068
03 01 2018 15:50
                 12.34420013 3.24625206 28.73127208 238.0765076
03 01 2018 16:00
                 -0.393067598
                                  2.185888052 0
                                                     238.4102936
03 01 2018 16:10 0
                       2.142015934 0
                                         234.7624054
03 01 2018 16:20 0
                       2.501405954 0
                                         223.3088074
03 01 2018 16:30 0
                       2.668577909 0
                                         226.0516968
03 01 2018 16:40 0
                       3.034003019 17.18059304 221.0865021
03 01 2018 16:50 0
                       3.197354078 25.43122108 232.6795959
03 01 2018 17:00 0
                       3.907810926 110.9796039 241.9730988
03 01 2018 17:10 65.98790741 3.801294088 93.00718811 221.5258942
03 01 2018 17:20 157.8495026 4.43715477 208.8146524 225.1553955
03 01 2018 17:30 50.42205048 3.677906036 74.4575207 220.4692993
03 01 2018 17:40 88.1881485 4.115369797 144.7212631 222.5281067
03 01 2018 17:50
                 242.3132935 4.987364769 332.9015993 220.7682037
03 01 2018 18:00
                 262.8019104 4.871101856 304.9535561 222.9488983
03 01 2018 18:10 584.6671143 5.921298981 598.7577677 212.7292938
                 298.586792 5.030583858 343.5487361 216.0464935
03 01 2018 18:20
03 01 2018 18:30 279.7724915 4.997858047 335.4735677 206.8820038
03 01 2018 18:40 823.4796143 6.434377193 780.5598676 208.842804
03 01 2018 18:50
                 883.265625 6.996636868 1014.475559 212.2098999
03 01 2018 19:00
                 1155.17395 7.625429153 1323.35127 205.5773926
03 01 2018 19:10
                 1400.389038 8.103025436 1589.535548 198.4824066
03 01 2018 19:20
                 1205.10498 7.518618107 1267.568261 207.7772064
03 01 2018 19:30
                 1292.051025 7.688251019 1356.847422 199.1479034
03 01 2018 19:40 1856.177002 8.459005356 1802.775046 192.9795074
03 01 2018 19:50 1928.175049 9.077300072 2193.93789 194.6878967
03 01 2018 20:00 1604.427002 8.439414978 1790.767706 196.0083008
03 01 2018 20:10 1599.995972 7.987431049 1522.807198 203.3475037
03 01 2018 20:20 1456.094971 7.939982891 1495.816905 209.9878998
```

```
03 01 2018 20:30
                 1386.623047 7.719861984 1373.888155 213.6096039
                 1460.360962 7.774147034 1403.435097 214.1114044
03 01 2018 20:40
03 01 2018 20:50
                 1894.795044 8.582259178 1878.957276 210.4824066
03 01 2018 21:00
                 1760.422974 8.339191437 1729.804577 212.0424042
03 01 2018 21:10
                 2010.977051 9.083572388 2198.000295 214.585495
03 01 2018 21:20
                 1828.81604 8.675281525 1937.131478 211.3721008
03 01 2018 21:30
                 1960.692993 9.150783539 2241.613462 208.8197937
                 1900.447998 9.191649437 2268.199522 204.3585052
03 01 2018 21:40
03 01 2018 21:50
                 1549.958008 8.260289192 1682.388913 201.8890991
                 1692.688965 8.48968792 1821.638384 194.9138947
03 01 2018 22:00
03 01 2018 22:10
                 1931.083984 8.78850174 2008.641646 194.1036072
03 01 2018 22:20
                 2060.147949 8.9564991
                                         2115.986258 193.3457947
03 01 2018 22:30
                 2069.625
                             9.095618248 2205.805875 195.2973938
03 01 2018 22:40
                 2037.266968 8.725904465 1969.014282 199.5845032
03 01 2018 22:50
                 1594.845947 8.112092018 1594.82568 197.5211029
03 01 2018 23:00 994.5827026 6.856678963 952.7545786 200.4409943
03 01 2018 23:10
                 1137.285034 7.279873848 1147.124788 200.8896942
03 01 2018 23:20
                 1267.858032 7.534298897 1275.663238 199.7960968
03 01 2018 23:30 1002.463013 6.945837021 991.791762 196.680603
                 1172.348022 7.085527897 1054.959522 199.6690063
03 01 2018 23:40
03 01 2018 23:50
                 1252.139038 7.406904221 1210.225036 197.4501953
                 1121.166992 6.934106827 986.5997761 196.3952026
04 01 2018 00:00
04 01 2018 00:10
                 1183.020996 7.151297092 1085.577233 194.0278931
04 01 2018 00:20
                 932.3084106 6.571721077 834.3322217 191.2942047
04 01 2018 00:30
                 989.5076904 6.759712219 911.3914755 190.1013947
04 01 2018 00:40
                 750.5510254 6.414824963 773.0743738 185.5180969
04 01 2018 00:50 825.7661743 6.523455143 815.1962332 187.6056976
                 1116.487061 7.062949181 1044.579697 192.7353973
04 01 2018 01:00
                 986.7598877 6.692947865 883.5576994 196.0746002
04 01 2018 01:10
04 01 2018 01:20
                 1018.14502 6.809185982 932.3551445 194.8430023
04 01 2018 01:30
                 659.1777954 6.096306801 656.9602747 192.4667969
04 01 2018 01:40
                 729.4874268 6.142684937 673.1894828 190.7617035
04 01 2018 01:50
                 864.5026245 6.430369854 779.022258 194.5778046
04 01 2018 02:00
                 1342.239014 7.538290977 1277.729355 197.9828033
                 1279.098022 7.363255978 1188.27897 197.254303
04 01 2018 02:10
                 1351.391968 7.46066618 1237.646646 201.2154999
04 01 2018 02:20
04 01 2018 02:30
                 1039.727051 7.031758785 1030.349722 199.337204
                 876.0166016 6.874794006 960.6072518 194.1508026
04 01 2018 02:40
04 01 2018 02:50
                 754.0079956 6.345135212 746.7335706 196.0812073
04 01 2018 03:00
                 1122.334961 7.185342789 1101.653759 198.135498
04 01 2018 03:10 907.7965698 6.635414124 859.9864071 199.4308014
                             6.927267075 983.5802763 194.1383057
04 01 2018 03:20
                 1009.737
04 01 2018 03:30
                 1806.98999 8.333586693 1726.419178 193.2097015
04 01 2018 03:40
                 2374.843994 9.532950401 2465.780065 191.9416962
04 01 2018 03:50
                 1779.208984 8.42602253 1782.575933 189.827301
04 01 2018 04:00
                 1334.980957 7.494080067 1254.910872 192.1376038
04 01 2018 04:10
                 1562.947021 8.009915352 1535.679929 192.0973053
                 1562.116943 7.944521904 1498.388472 194.2440033
04 01 2018 04:20
                 1464.977051 7.72806406 1378.329691 200.2335968
04 01 2018 04:30
04 01 2018 04:40
                 1312.358032 7.462277889 1238.475456 205.0283966
04 01 2018 04:50
                 767.0369873 6.420166969 775.1153796 200.6712952
04 01 2018 05:00
                 283.2593079 4.7484622
                                         276.5245875 201.9185028
04 01 2018 05:10
                 687.1071777 6.264211178 716.8074668 208.1761017
04 01 2018 05:20
                 465.7536011 5.50088501 469.2545248 200.7915955
04 01 2018 05:30
                 355.6220093 5.27207613 405.760119 208.0086975
04 01 2018 05:40 467.8251953 5.701906204 529.0010043 217.7465057
04 01 2018 05:50 865.3469849 6.579235077 837.3348199 212.3013
04 01 2018 06:00 1512.972046 7.678398132 1351.561187 208.9172974
04 01 2018 06:10 1491.698975 7.89579916 1470.901705 217.2373962
```

```
04 01 2018 06:20 2004.44104 8.964849472 2121.355873 221.3515015
                 1581.483032 8.083142281 1577.962305 219.8023987
04 01 2018 06:30
04 01 2018 06:40
                  1431.620972 7.799798965 1417.519324 214.5469971
04 01 2018 06:50
                 1523.792969 7.978303909 1517.596799 216.9134064
04 01 2018 07:00
                  1693.270996 8.155491829 1620.257833 215.3661041
                  1775.037964 8.248645782 1675.437185 211.0007935
04 01 2018 07:10
                  1875.410034 8.495847702 1825.433662 210.1282959
04 01 2018 07:20
                  1558.057983 7.96182394 1508.211169 208.8327026
04 01 2018 07:30
                  1811.088989 8.35203743 1737.573598 204.2586975
04 01 2018 07:40
04 01 2018 07:50
                  1686.125977 8.135239601 1608.367728 198.5278015
04 01 2018 08:00
                  2362.262939 9.599003792 2516.478296 198.7720032
04 01 2018 08:10
                 2000.86499 8.982050896 2132.426304 197.4006958
04 01 2018 08:20
                  1169.964966 7.2846632
                                        1149.461729 189.5783997
04 01 2018 08:30
                 1309.223999 7.521474838 1269.040544 182.8565979
04 01 2018 08:40
                 759.0145264 6.215313911 699.0669586 186.8215027
04 01 2018 08:50
                 498.1903076 5.501014233 469.2917094 195.8029938
04 01 2018 09:00
                  332.4820862 5.106607914 362.6279759 195.1764069
04 01 2018 09:10
                 253.5845032 4.649808884 254.4003993 191.6334991
04 01 2018 09:20
                  180.4122925 4.374350071 195.8669199 206.2425995
                  258.3656921 4.833168983 296.0476529 196.2194977
04 01 2018 09:30
04 01 2018 09:40
                  133.0052948 4.907478809 313.5912843 187.0084991
04 01 2018 12:40
                  0
                        2.888112068 0
                                          0
04 01 2018 12:50
                  0
                        2.386636019 0
                                          139.2751007
04 01 2018 13:00
                  0
                        2.476815939 0
                                          153.8556061
04 01 2018 13:10
                  0
                        1.77384305 0
                                          144.0395966
04 01 2018 13:20
                        2.48486495 0
                                          142.8634033
04 01 2018 13:30
                        2.764512062 0
                                          133.9111023
                  0
04 01 2018 13:40
                        2.5070889
                                          103.2738037
                  0
                                    0
04 01 2018 13:50
                        3.441704035 45.74272546 79.09410858
                  0
04 01 2018 14:00
                  0
                        2.484878063 0
                                          106.4503021
04 01 2018 14:10
                  0
                        2.436743021 0
                                          102.7186966
04 01 2018 14:20
                  0
                        2.359375954 0
                                          107.3701019
04 01 2018 14:30
                                    16.71339969 94.58883667
                        3.021173
04 01 2018 14:40
                        3.395319939 41.15246635 97.73842621
                  0
                        3.413508892 42.91145285 101.6998978
04 01 2018 14:50
                  0
04 01 2018 15:00
                  0
                        5.160031796 376.3091657 81.87310028
04 01 2018 15:10
                  0
                        5.161472797 376.6813732 62.48146057
04 01 2018 15:20
                  0
                        5.414981842 444.8721366 61.62747955
04 01 2018 15:30
                        6.778621197 919.3695705 67.9675827
04 01 2018 15:40
                        4.436894894 208.7606108 0
04 01 2018 15:50
                  210.7194977 5.013915062 339.4254412 50.42341995
                 338.6500854 5.274309158 406.3577312 47.2641716
04 01 2018 16:00
04 01 2018 16:10
                 518.5518188 5.915596962 596.8819872 43.18653107
04 01 2018 16:20
                 504.067688 5.858211994 578.1937936 42.6594696
04 01 2018 16:30
                  446.7330017 5.650877953 513.468126 52.86571121
                  705.7045288 6.349774837 748.4708008 53.7215004
04 01 2018 16:40
                  795.3168945 6.636434078 860.4009723 53.08805084
04 01 2018 16:50
                  1012.676025 7.010248184 1020.608833 52.78892899
04 01 2018 17:00
                  1240.823975 7.559226036 1288.599129 55.33359909
04 01 2018 17:10
04 01 2018 17:20
                  1282.074951 7.404004097 1208.758132 51.70399094
04 01 2018 17:30
                  941.5869141 6.80051899 928.6616421 53.39633179
04 01 2018 17:40
                  590.8366699 5.82537508 567.653659 45.68770981
04 01 2018 17:50
                  650.5629272 6.080101967 651.3438616 45.51879883
04 01 2018 18:00
                 871.5112305 6.582440853 838.6177863 40.36516953
04 01 2018 18:10
                 914.1212158 6.643204212 863.1557364 46.86555862
04 01 2018 18:20 835.84198 6.345364094 746.8192169 38.58917999
04 01 2018 18:30 624.9906006 6.042553902 638.4379438 48.70145035
04 01 2018 18:40 591.9558716 5.757640839 546.2595924 41.20378113
04 01 2018 18:50 509.3490906 5.694249153 526.6539705 46.98265076
```

```
04 01 2018 19:00 1190.81604 7.068666935 1047.201966 33.49834061
04 01 2018 19:10
                 963.7324829 6.641551018 862.482569 33.8251915
04 01 2018 19:20
                 980,9760742 6,690164089 882,4084228 27,36738968
04 01 2018 19:30
                 777.8479004 6.36333704 753.5623423 29.67544937
                 980.223877 6.827414036 940.1524784 40.88489151
04 01 2018 19:40
04 01 2018 19:50
                 962.4301758 6.71631813 893.2415095 41.12696838
04 01 2018 20:00
                 462.7698975 5.415152073 444.919796 41.6153717
                 1139.240967 6.953413963 995.1545635 35.44075012
04 01 2018 20:10
                 1418.631958 7.42373991 1218.765432 36.21514893
04 01 2018 20:20
04 01 2018 20:30
                 1716.139038 8.381437302 1755.404476 39.72340012
04 01 2018 20:40
                 1312.791016 7.493074894 1254.389015 46.13137817
04 01 2018 20:50
                 1222.020996 7.380391121 1196.860929 45.09289932
04 01 2018 21:00
                 703.7221069 6.244694233 709.6956846 42.08800888
04 01 2018 21:10
                 470.8012085 5.493409157 467.1059234 33.02647018
                 387.34021 5.124141216 367.0928112 30.50971031
04 01 2018 21:20
04 01 2018 21:30
                 402.4747925 5.285066128 409.242485 27.65151978
04 01 2018 21:40
                 460.2911987 5.539794922 480.5208029 28.00427055
04 01 2018 21:50
                 619.8723755 6.015673161 629.2911153 25.7741394
04 01 2018 22:00
                 470.2001038 5.59703207 497.3508864 23.50094986
                 691.0140991 6.277314186 721.6050696 23.72624969
04 01 2018 22:10
04 01 2018 22:20
                 826.9951782 6.49335289 803.3932558 20.42690086
04 01 2018 22:30
                 892.4243774 6.786591053 922.7448934 25.21842003
04 01 2018 22:40
                 907.1884155 6.764401913 913.3662189 30.23693085
04 01 2018 22:50
                 545.2653198 5.724936962 536.095229 29.67219925
04 01 2018 23:00
                 688.8358154 6.238166809 707.326293 30.00231934
04 01 2018 23:10
                 591.9088745 5.945401192 606.7245764 29.64308929
04 01 2018 23:20
                 660.6942749 6.17223978 683.651641 30.39785957
04 01 2018 23:30
                 747.4074707 6.351617813 749.1615205 30.28310966
                 1174.243042 7.168983936 1093.909493 18.97281075
04 01 2018 23:40
04 01 2018 23:50
                 873.4810181 6.629221916 857.4721041 17.22633934
05 01 2018 00:00 845.2050171 6.55459404 827.511985 12.58047009
05 01 2018 00:10
                 837.0637207 6.395040989 765.5427556 9.429060936
05 01 2018 00:20
                 949.4943237 6.797101021 927.2075123 4.961769104
05 01 2018 00:30
                 1045.36499 6.920464993 980.5831564 358.1897888
                 791.0836182 6.278329849 721.977722 351.8651123
05 01 2018 00:40
05 01 2018 00:50
                 994.7495728 6.682812214 879.3775226 2.56614089
05 01 2018 01:00
                 933.4232178 6.721062183 895.2150304 7.876725197
                 1049.432983 7.131796837 1076.439327 14.10332012
05 01 2018 01:10
05 01 2018 01:20
                 671.7241211 6.148598194 675.2752484 20.33539009
05 01 2018 01:30
                 966.8311768 6.896099091 969.8939666 21.0418396
05 01 2018 01:40
                 982.2590942 6.926294804 983.1515252 22.93596077
05 01 2018 01:50
                825.6619263 6.567954063 832.8293134 33.37145996
05 01 2018 02:00
                 723.1392212 6.398931026 767.0202867 32.30049896
05 01 2018 02:10
                 418.6412048 5.446605206 453.7702746 30.16810989
05 01 2018 02:20
                 327.2762146 5.108693123 363.1576895 27.08235931
05 01 2018 02:30
                 388.316803 5.232514858 395.2422704 22.60456085
                 167.2218018 4.243929863 169.6759343 30.59626007
05 01 2018 02:40
                 137.2467957 4.137093067 148.8807431 32.78860855
05 01 2018 02:50
                 130.7671051 4.160939217 153.4730055 30.18254089
05 01 2018 03:00
05 01 2018 03:10
                 117.8118973 4.124106884 146.3914796 31.8532505
05 01 2018 03:20
                 111.3429031 4.126059055 146.7651643 26.32125092
05 01 2018 03:30
                 114.2955017 4.204703808 161.9741682 25.67859077
05 01 2018 03:40
                 143.7870941 4.355268002 191.9770866 27.08256912
05 01 2018 03:50
                 88.93582916 3.952167034 118.99911
                                                      36.21786118
05 01 2018 04:00
                 183.6699982 4.434104919 208.1806792 29.74682045
05 01 2018 04:10
                 82.14437866 3.678040981 74.47647719 25.84374046
05 01 2018 04:20
                 139.9472046 4.063600063 134.8987308 21.24472046
05 01 2018 04:30 434.5010986 5.488460064 465.6863498 17.45406914
05 01 2018 04:40 474.0610962 5.625834942 505.9375911 12.99639034
```

```
05 01 2018 04:50 415.1499939 5.394489765 439.1538423 12.51430988
05 01 2018 05:00
                 435.0263977 5.4572649 456.7899831 12.40832996
05 01 2018 05:10
                  402.3875122 5.450904846 454.9870522 15.87475014
05 01 2018 05:20
                  257.2170105 4.76416111 280.1054557 9.024561882
05 01 2018 05:30
                  137.417099 4.101181984 142.0168107 7.712677002
05 01 2018 05:40
                  102.3587036 3.941123009 116.9729377 7.581837177
05 01 2018 05:50
                  92.7376709 3.87789607 105.7487951 11.42055988
                  78.11549377 3.836927891 98.81755605 29.3313694
05 01 2018 06:00
05 01 2018 06:10
                  110.3116989 4.130588055 147.6328107 25.04413033
                  102.552803 4.081981182 138.371917 24.68565941
05 01 2018 06:20
05 01 2018 06:30
                  77.85061646 3.839956999 99.32084475 24.07126999
05 01 2018 06:40
                  81.45278168 3.975877047 123.4149463 23.42119026
05 01 2018 06:50
                  66.64151001 3.820688963 96.14447672 39.26622009
05 01 2018 07:00
                  90.01490784 3.98053503 124.2930366 52.09212112
                  112.0342026 4.142834187 149.9838297 52.06705093
05 01 2018 07:10
05 01 2018 07:20
                  82.11415863 3.929188967 114.8054178 52.53002167
05 01 2018 07:30
                  13.93430996 3.227394104 27.41325761 62.52310944
05 01 2018 07:40
                  0
                        2,693974972 0
                                          63.97663116
05 01 2018 07:50
                  0
                        3.76078701 86.64893432 72.28019714
                  55.44535065 3.734816074 82.71048743 69.53996277
05 01 2018 08:00
05 01 2018 08:10
                  22.78053093 3.310203075 33.62457425 74.86411285
05 01 2018 08:20
                  4.355070114 2.853812933 0
                                                 85.75393677
05 01 2018 08:30
                  0
                        2.664561987 0
                                          84.46118164
05 01 2018 08:40
                  0
                        3.140161991 22.05681442 92.12463379
05 01 2018 08:50
                  0
                        2.632610083 0
                                          101.8510971
05 01 2018 09:00
                        1.738193035 0
                                          99.7596817
05 01 2018 09:10
                        1.935835004 0
                                          75.03088379
                  0
05 01 2018 09:20
                                          73.65454865
                        1.757176995 0
                  0
05 01 2018 09:30
                  0
                        1.542072058 0
                                          65.50054169
05 01 2018 09:40
                  0
                        1.623093009 0
                                          53.91765976
05 01 2018 09:50
                  0
                        2.062084913 0
                                          44.93912125
05 01 2018 10:00
                  0
                        2.059083939 0
                                          40.33227158
05 01 2018 10:10
                                          36.03804016
                  0
                        2.153846025 0
05 01 2018 10:20
                        2.047363997 0
                                          56.5520401
                  0
05 01 2018 10:30
                        1.635233045 0
                                          65.39498138
                  0
05 01 2018 10:40
                  0
                        0.838681579 0
                                          64.3360672
05 01 2018 10:50
                  0
                        1.287089944 0
                                           30.20119095
05 01 2018 11:00
                  0
                        1.370728016 0
                                          24.33827972
05 01 2018 11:10
                        2,464360952 0
                                           307.5815125
05 01 2018 11:20
                        3.067440033 18.5219337 308.2029114
05 01 2018 11:30
                        2.977355957 0
                                          307.5805969
                  0
05 01 2018 11:40
                  0
                        2.896075964 0
                                           313.1120911
05 01 2018 11:50
                        2.201855898 0
                                           338.1872864
                  0
05 01 2018 12:00
                  0
                        3.418040991 43.35797331 308.2749023
05 01 2018 12:10
                  0
                        3.209656954 26.22550558 296.4602051
                        3.092607975 19.64955416 302.644989
05 01 2018 12:20
05 01 2018 12:30
                  0
                        2.95758605 0
                                           306.2347107
05 01 2018 12:40
                  0
                        3.802710056 93.23419656 302.2344971
05 01 2018 12:50
                  0
                        2.681519032 0
                                           300.1575012
05 01 2018 13:00
                  0
                        2.174657106 0
                                           308.3120117
05 01 2018 13:10
                  0
                        2.12748909 0
                                           285.7166138
05 01 2018 13:20
                        1.911278009 0
                                           263.1394043
05 01 2018 13:30
                        1.717532039 0
                                           250.1069031
05 01 2018 13:40
                        1.953783989 0
                                          235.3231049
                  0
05 01 2018 13:50
                        2.104336023 0
                                          231.5205994
                  0
05 01 2018 14:00
                  0
                        2.173634052 0
                                          261.1196899
05 01 2018 14:10
                  0
                        1.786031008 0
                                          250.3791046
05 01 2018 14:20
                  0
                        1.511755943 0
                                          283.2633972
05 01 2018 14:30
                  0
                        1.59967804 0
                                          323.84729
```

```
05 01 2018 14:40
                   0
                         1.383831024 0
                                            311.7663879
05 01 2018 14:50
                   0
                         1.28223002
                                      0
                                            289,660614
  01 2018 15:00
                         1.768030047 0
                                            253.3930969
05
                   0
05 01 2018 15:10
                   0
                         1.630704045 0
                                            238.4373932
05 01 2018 15:20
                   0
                         1.433897018 0
                                            234.3511963
05 01 2018 15:30
                   0
                         1.669222951 0
                                            247.1123962
05 01 2018 15:40
                   0
                         1.545390964 0
                                            236.2960968
05 01 2018 15:50
                   0
                         1.981886983 0
                                            235.3430939
05 01 2018 16:00
                   0
                         2.633574963 0
                                            236.8869019
05 01 2018 16:10
                   0
                         2.414356947 0
                                            229,2657928
05 01 2018 16:20
                   0
                         2.152529955 0
                                            242.2501984
05 01 2018 16:30
                   0
                         2.120126009 0
                                            234.2127991
05 01 2018 16:40
                         2.23940897
                                            236.4194946
05 01 2018 16:50
                   0
                         2.801307917 0
                                            243.9626007
05 01 2018 17:00
                         3.201854944 25.7189917 241.4969025
                   0
05 01 2018 17:10
                   0
                         2.875705957 0
                                            236.6499023
05 01 2018 17:20
                   0
                         2.854813099 0
                                            231.9618073
05 01 2018 17:30
                   0
                                            214.8110046
                         2.863102913 0
                   0
05 01 2018 17:40
                         2.499380112 0
                                            203.1401978
05 01 2018 17:50
                   0
                         2.928209066 0
                                            208.8934021
05 01 2018 18:00
                         2.825680017 0
                                            222.7451019
                   0
05 01 2018 18:10
                   0
                         2.271142006 0
                                            225.7310944
05 01 2018 18:20
                   0
                         2.446209908 0
                                            231.9817047
05 01 2018 18:30
                   0
                         2.877877951 0
                                            224.1681976
05 01 2018 18:40
                   0
                         2.957370043 0
                                            208.3934021
05 01 2018 18:50
                         3.568568945 60.05585785 208.1672058
05 01 2018 19:00
                         2.449913979 0
                                            224.892395
                   0
05 01 2018 19:10
                   0
                         1.791203976 0
                                            243.6520996
05 01 2018 19:20
                   0
                         1.930189967 0
                                            252.5655975
05 01 2018 19:30
                   0
                         1.660967946 0
                                            233.1425934
05 01 2018 19:40
                   0
                         2.148116112 0
                                            257.0335999
05 01 2018 19:50
                   0
                         2.624979019 0
                                            258.8557129
05 01 2018 20:00
                   0
                         2.289019108 0
                                            253.5534973
05 01 2018 20:10
                         2.671096087 0
                                            253.2687988
                   0
05 01 2018 20:20
                                            245.9183044
                   0
                         2.723583937 0
05 01 2018 20:30
                   0
                         2.813057899 0
                                            244.0549927
05 01 2018 20:40
                   0
                         2.679502964 0
                                            251.0276031
                         2.554055929 0
05 01 2018 20:50
                   0
                                            241.9400024
05 01 2018 21:00
                         2.330497026 0
                                            238.5106049
05 01 2018 21:10
                         1.548683047 0
                                            209.9880066
05 01 2018 21:20
                         1.566717982 0
                                            188.5220947
                   0
05 01 2018 21:30
                   0
                         2.107630014 0
                                            197.4953003
05 01 2018 21:40
                                            185.6945038
                   0
                         1.79004705
                                      0
05 01 2018 21:50
                   0
                         1.783530951 0
                                            205.5852966
05 01 2018 22:00
                   0
                         1.452373028 0
                                            231.9136047
05 01 2018 22:10
                   0
                         2.141073942 0
                                            221.9756012
05 01 2018 22:20
                   0
                         2.596193075 0
                                            227.854599
05 01 2018 22:30
                   0
                         2.092180014 0
                                            212.6759033
05 01 2018 22:40
                   0
                         1.928406954 0
                                            186.9420013
05 01 2018 22:50
                   0
                         1.896306992 0
                                            207.5079041
05 01 2018 23:00
                   0
                         1.386492014 0
                                            227.8764954
05 01 2018 23:10
                         1.383507013 0
                                            243.2460938
05 01 2018 23:20
                         1.208117008 0
                                            226.5276031
05 01 2018 23:30
                         1.212676048 0
                                            232.8432007
                   0
05 01 2018 23:40
                   0
                         1.216743946 0
                                            275.9594116
05 01 2018 23:50
                   0
                         0.858171403 0
                                            258.8037109
06 01 2018 00:00
                   0
                         0.528895795 0
                                            215.6981049
06 01 2018 00:10
                   0
                         0.724772871 0
                                            216.8983002
06 01 2018 00:20
                         1.208716989 0
                                            269.7489014
```

```
06 01 2018 00:30
                         0.680991471 0
                                            249.2165985
                   0
06 01 2018 00:40
                   0
                         1.802721024 0
                                            183.5424957
06 01 2018 00:50
                         1.805271029 0
                                            170.5200958
                   0
06 01 2018 01:00
                  0
                         0.772655725 0
                                            140.0912933
06 01 2018 01:10
                   0
                         0.677660882 0
                                            313.6976013
06 01 2018 01:20
                   0
                         0.850723088 0
                                            259.1706848
06 01 2018 01:30
                   0
                         0.778628528 0
                                            265.1947937
06 01 2018 01:40
                   0
                         0.66154331
                                            239.1564026
06 01 2018 01:50
                   0
                         0.662026227 0
                                            246.4013062
06 01 2018 02:00
                   0
                         0.736934721 0
                                            215.3847961
06 01 2018 02:10
                   0
                         0.370373189 0
                                            238.1040955
06 01 2018 02:20
                         0.665686607 0
                                            257.1151123
06 01 2018 02:30
                         0.460825413 0
                                            73.79194641
                                            34.12083817
06 01 2018 02:40
                   0
                         0.943695188 0
06 01 2018 02:50
                   0
                         0.963562727 0
                                            333.9639893
06 01 2018 03:00
                   0
                         1.55261898
                                     0
                                            277.8475952
06 01 2018 03:10
                   0
                         2.17685008
                                            267.066803
                                     0
06 01 2018 03:20
                   0
                         1.629364967 0
                                            238.489502
06 01 2018 03:30
                   0
                         0.813819528 0
                                            90.45394897
06 01 2018 03:40
                   0
                         0.5694592
                                      0
                                            63.36355972
06 01 2018 03:50
                         0.97145462
                   0
                                     0
                                            218.2781982
06 01 2018 04:00
                   0
                         0.521273315 0
                                            129.1246948
06 01 2018 04:10
                   0
                         0.338039011 0
                                            107.9205017
06 01 2018 04:20
                   0
                         0.53250438 0
                                            127.8466034
06 01 2018 04:30
                   0
                         0.552247524 0
                                            128.9541931
06 01 2018 04:40
                         1.139093041 0
                                            143.7068939
06 01 2018 04:50
                         2.34425211
                                            134.9770966
                   0
06 01 2018 05:00
                         3.646318913 70.10045613 134.4564972
                   0
06 01 2018 05:10
                   47.90932846 4.016671181 126.1014106 133.6049042
                   12.95296001 3.279254913 31.17482176 125.3523026
06 01 2018 05:20
06 01 2018 05:30
                   0
                         2.305548906 0
                                            94.77848816
06 01 2018 05:40
                   0
                         1.726174951 0
                                            51.57822037
06 01 2018 05:50
                         1.396111012 0
                                            320.4632874
06 01 2018 06:00
                         1.413828969 0
                                            354,765686
                   0
06 01 2018 06:10
                   0
                         0.808616281 0
                                            33.77170944
06 01 2018 06:20
                   0
                         0.29050979
                                            118.9788971
06 01 2018 06:30
                   0
                         0.638341486 0
                                            147.8424988
                         0.984448314 0
06 01 2018 06:40
                   0
                                            152.720993
06 01 2018 06:50
                         0.657420874 0
                                            185.0466003
06 01 2018 07:00
                         0.865311384 0
                                            182,5706024
06 01 2018 07:10
                         0.809088707 0
                                            169.2873993
                   0
06 01 2018 07:20
                   0
                         1.034098029 0
                                            163.4824066
06 01 2018 07:30
                   0
                         0.641550899 0
                                            285.8124084
06 01 2018 07:40
                   0
                         0.314508796 0
                                            281.0539856
06 01 2018 07:50
                   0
                         0.873369873 0
                                            201.6215057
06 01 2018 08:00
                   0
                         0.974539876 0
                                            171.9019928
06 01 2018 08:10
                   0
                         1.88746202
                                            217.5924072
                                            177.1208954
06 01 2018 08:20
                   0
                         1.255934954 0
06 01 2018 08:30
                   0
                         0.957294524 0
                                            143.9730988
06 01 2018 08:40
                   0
                         0.485388905 0
                                            31.72039986
06 01 2018 08:50
                   0
                         0.601248026 0
                                            175.8845062
06 01 2018 09:00
                         0.963453293 0
                                            150.7736969
06 01 2018 09:10
                         0.806071997 0
                                            135.6419983
06 01 2018 09:20
                         0.74094522
                   0
                                            240.0531006
06 01 2018 09:30
                   0
                         1.083771944 0
                                            159.2798004
06 01 2018 09:40
                   0
                         1.890300035 0
                                            155.6240997
06 01 2018 09:50
                   0
                         2.490178108 0
                                            154.5337982
06 01 2018 10:00
                   0
                         2.476114035 0
                                            160.6259003
06 01 2018 10:10
                         2.532900095 0
                                            150.0433044
```

```
06 01 2018 10:20 0
                        1.890108943 0
                                         161.0682983
06 01 2018 10:30
                 0
                        1.419512987 0
                                         152.5379944
06 01 2018 10:40
                        2.389832973 0
                 0
                                         162.8356018
06 01 2018 11:30 0
                        3.577557087 61.16760188 0
06 01 2018 11:40
                 0
                        2.365161896 0
                                         183.9550018
06 01 2018 11:50
                        2.718158007 0
                                         163.5693054
06 01 2018 12:00
                 0
                       2.991008997 0
                                         164.8551025
06 01 2018 12:10
                 0
                       2.708965063 0
                                         151.5995026
06 01 2018 12:20
                 0
                       2.902618885 0
                                         149.5975952
06 01 2018 12:30
                 0
                       2,552275896 0
                                         155.1351013
06 01 2018 12:40
                 0
                       1.633525968 0
                                         180.2098999
06 01 2018 12:50
                       2.866808891 0
                                         197.8553009
06 01 2018 13:00
                        3.762989044 86.98783194 200.7142029
06 01 2018 13:10
                       3.556952
                                   58.63810638 179.8724976
06 01 2018 13:20
                        3.254215002 29.30490145 167.5404968
                 0
06 01 2018 13:30
                 0
                       3.488528967 50.72577106 162.9709015
06 01 2018 13:40 0
                       3.740334034 83.53824763 170.1101074
06 01 2018 13:50 0
                       3.56308198 59.38352863 179.2691956
06 01 2018 14:00 0
                       3.497584105 51.72988663 184.5984039
                       3.836231947 98.70213183 190.2328949
06 01 2018 14:10
                 0
06 01 2018 14:20
                       4.424263
                                   206.1385051 204.7044983
                 0
                       4.620684147 247.9907755 208.401001
06 01 2018 14:30
                 0
06 01 2018 14:40
                 0
                        4.918453217 316.2160711 210.591095
06 01 2018 14:50
                 35.41701889 4.851792812 300.407353 206.6618042
06 01 2018 15:00
                 140.9503021 4.500104904 222.021905 205.4633942
06 01 2018 15:10
                 94.85032654 4.208559036 162.7276378 204.4723053
06 01 2018 15:20
                 63.05392838 3.656229973 71.45038131 201.0424957
                 56.7136116 3.522366047 54.54501646 203.9230042
06 01 2018 15:30
06 01 2018 15:40
                 28.12931061 3.467375994 48.43125736 201.9060974
                 -0.456532687
                                  2.949517965 0
06 01 2018 15:50
                                                     204.9010925
06 01 2018 16:00
                       3.386360884 40.30552688 206.5899963
                 0
06 01 2018 16:10
                 0
                        3.338223934 35.97480027 198.7406006
06 01 2018 16:20
                       3.96685791 121.7245906 191.4416962
06 01 2018 16:30 0
                       4.383850098 197.8110634 194.6184998
06 01 2018 16:40 0
                       3.818460941 95.78101512 191.8796997
06 01 2018 16:50
                 0
                       4.460434914 213.6717407 199.0765076
06 01 2018 17:00 0
                       4.318597794 184.5583621 201.6802979
06 01 2018 17:10 0
                       4.51971817 226.1850754 195.0646973
06 01 2018 17:20 0
                       4.845714092 298.9816628 193.9501953
06 01 2018 17:30 0
                        4.704411983 266.5659076 0
06 01 2018 17:40 110.1772995 4.892066002 309.9197933 173.6015015
06 01 2018 17:50 268.4454041 5.036252022 344.9557133 170.7774963
06 01 2018 18:00
                 345.5763855 5.277178764 407.1263277 174.2639008
06 01 2018 18:10 440.3240967 5.591422081 495.6876422 179.6499023
06 01 2018 18:20
                 582.0706787 6.026912212 633.10608
                                                     181.6007996
06 01 2018 18:30
                 685.7241821 6.399488926 767.232326 183.0281067
                 687.3024292 6.350472927 748.732391 187.5308075
06 01 2018 18:40
                 655.8494263 6.255465984 713.6157393 187.9414978
06 01 2018 18:50
06 01 2018 19:00 579.4661865 6.073575974 649.0899498 189.644104
06 01 2018 19:10
                 535.5651855 6.024237156 632.1968386 190.6399994
06 01 2018 19:20
                 633.1019287 6.309328079 733.4046526 189.9288025
06 01 2018 19:30
                 818.1245117 6.941885948 990.0410363 188.1958008
06 01 2018 19:40
                 1011.14502 7.42167902 1217.717709 187.0711975
06 01 2018 19:50
                 1323.166992 8.038404465 1552.0655
                                                     187,6884003
06 01 2018 20:00
                 1519.583984 8.351256371 1737.100842 190.7700043
06 01 2018 20:10 1859.737061 9.141762733 2235.751488 193.214798
06 01 2018 20:20 2232.939941 9.692931175 2585.908674 194.1360016
06 01 2018 20:30 2404.821045 10.01758957 2802.990296 193.3276062
06 01 2018 20:40 2601.983887 10.40732002 3020.43775 192.6865997
```

```
06 01 2018 20:50
                 2888.194092 10.87117004 3225.034139 192.256897
06 01 2018 21:00
                 3100.968994 11.15795994 3325.40757 194.0751953
06 01 2018 21:10
                 3401.719971 11.89391994 3504.482409 197.6696014
06 01 2018 21:20
                 3545.325928 12.38113022 3569.157274 196.4075928
06 01 2018 21:30
                 3581.248047 12.31688023 3562.847721 196.4564056
06 01 2018 21:40
                 3602.824951 12.87397957 3596.629473 196.5699005
06 01 2018 21:50
                 3603.495117 12.75267029 3593.21303 196.2120056
                 3601.655029 12.57956982 3584.598327 197.7637024
06 01 2018 22:00
06 01 2018 22:10
                 3474.897949 11.90297985 3506.050825 196.9638062
                 3453.720947 11.87644958 3501.417192 196.8356934
06 01 2018 22:20
06 01 2018 22:30
                 3373.285889 11.65425968 3457.638101 198.322403
06 01 2018 22:40
                 3349.333008 11.58714008 3442.614579 198.6728058
06 01 2018 22:50
                 3350.865967 11.45172024 3409.659107 199.1620026
06 01 2018 23:00
                 3381.177979 11.57882977 3440.694769 197.2982941
06 01 2018 23:10 3129.446045 11.39033985 3393.527036 195.0653076
06 01 2018 23:20 3167.541992 11.58806992 3442.828562 193.6430054
06 01 2018 23:30
                 3057.580078 11.15161037 3323.385041 196.1094055
06 01 2018 23:40 2973.504883 11.12141037 3313.644778 197.4761963
06 01 2018 23:50 3086.539063 11.3796196 3390.631514 196.5755005
07 01 2018 00:00 3147.275879 11.40546036 3397.571442 196.294693
                 2947.684082 11.03763962 3285.570092 195.225296
07 01 2018 00:10
                 3163.635986 11.78131008 3483.77105 193.1056976
07 01 2018 00:20
07 01 2018 00:30
                 3443.136963 12.52855968 3581.20464 193.5850067
07 01 2018 00:40
                 3330.927002 12.11839962 3539.172851 194.0950928
07 01 2018 00:50
                 3083.243896 11.39758015 3395.469432 194.1479034
07 01 2018 01:00 2770.948975 10.6016798 3112.900611 195.4958038
07 01 2018 01:10
                 2660.316895 10.42835045 3030.933495 196.0688019
                 2693.02002 10.47854042 3055.494327 195.7966003
07 01 2018 01:20
                 2655.571045 10.46059036 3046.788845 196.8497009
07 01 2018 01:30
                 2745.897949 10.51840019 3074.516008 199.2350006
07 01 2018 01:40
07 01 2018 01:50
                 3073.591064 11.27348042 3360.689262 201.9682007
07 01 2018 02:00
                 3117.308105 11.33773994 3379.095038 201.4149933
07 01 2018 02:10
                 3298.27002 11.77371979 3482.293067 201.8713989
07 01 2018 02:20
                 3182.297119 11.43675041 3405.794444 201.5735016
07 01 2018 02:30 3299.024902 11.88426971 3502.795909 201.634903
07 01 2018 02:40
                 3478.102051 12.29325008 3560.362738 204.5334015
07 01 2018 02:50
                 3583.790039 12.32279968 3563.456311 206.1033936
07 01 2018 03:00
                 3578.458984 12.30677986 3561.796429 204.3106995
07 01 2018 03:10
                 3585.979004 12.29030991 3560.047318 205.7606049
07 01 2018 03:20
                 3603.324951 12.68144035 3590.206071 207.2655029
07 01 2018 03:30
                 3603.593018 12.71502972 3591.717069 206.6499939
07 01 2018 03:40 3602.949951 12.8583498 3596.308785 205.0074005
07 01 2018 03:50
                 3602.795898 12.81527042 3595.242468 206.7066956
07 01 2018 04:00
                 3597.191895 12.60834026 3586.339275 205.1891022
07 01 2018 04:10
                 3584.740967 12.78845978 3594.443141 204.6663971
07 01 2018 04:20
                 3554.150879 13.15159035 3600 203.108902
07 01 2018 04:30
                 3517.225098 13.13239002 3600 204.063797
                 3476.658936 13.2908802 3600
07 01 2018 04:40
                                               204.2586975
07 01 2018 04:50
                 3455.769043 13.48886967 3600
                                               202.6260071
07 01 2018 05:00
                 3445.298096 13.68113041 3600
                                               202.7075043
07 01 2018 05:10
                 3425.479004 13.66726017 3600
                                               204.0874939
07 01 2018 05:20
                 3430.003906 13.83246994 3600
                                               208.6163025
07 01 2018 05:30
                 3401.62207 13.80698967 3600
                                               209.1269989
07 01 2018 05:40
                 3396.74707 14.27313042 3600
                                               208.6495972
07 01 2018 05:50
                 3418.856934 14.64898968 3600
                                               207.5762939
07 01 2018 06:00
                 3443.596924 15.15060997 3600
                                               210.0099945
07 01 2018 06:10 3443.709961 15.43694019 3600 213.1204071
07 01 2018 06:20 3432.080078 16.01281929 3600 212.6345978
07 01 2018 06:30 3497.419922 15.96730042 3600 210.2700958
```

```
07 01 2018 06:40 3433.666016 15.65081024 3600
                                               208.5041046
                             15.98645973 3600 208.5411072
07 01 2018 06:50
                 3551.625
                 3604.094971 15.96218014 3600 208.3260956
07 01 2018 07:00
07 01 2018 07:10 3604.241943 16.05054092 3600 207.5993958
07 01 2018 07:20
                 3604.22998 15.89052963 3600 207.4673004
07 01 2018 07:30
                 3604.329102 15.16790962 3600 207.7377014
07 01 2018 07:40
                 3603.945068 14.34165955 3600
                                              208.7770996
                 3603.947021 13.9471302 3600 209.8932953
07 01 2018 07:50
07 01 2018 08:00
                 3600.100098 12.96321011 3597.78983 207.7077942
07 01 2018 08:10
                 3112.611084 11.10846996 3309.409845 204.4862061
07 01 2018 08:20 1956.968018 8.65490818 1924.343647 199.9850006
07 01 2018 08:30 2000.222046 8.710100174 1959.044369 199.6067963
07 01 2018 08:40 2430.956055 9.349188805 2371.084237 196.9257965
07 01 2018 08:50 2407.562988 9.340181351 2365.187524 196.5220032
07 01 2018 09:00 2915.782959 10.49806023 3064.862613 200.5782928
07 01 2018 09:10 2278.343994 9.220996857 2287.320856 203.9600983
07 01 2018 09:20 2668.512939 10.04870033 2822.012645 206.7328033
07 01 2018 09:30 2564.800049 9.797412872 2659.56715 210.1121063
07 01 2018 09:40 2782.284912 10.41259956 3023.084058 207.9824066
07 01 2018 09:50 3146.324951 11.17858982 3331.918338 204.6477051
07 01 2018 10:00 2980.375
                             10.58065987 3103.383658 206.1891937
                 2557.783936 9.989833832 2785.764744 203.6390991
07 01 2018 10:10
07 01 2018 10:20
                 2047.16394 8.753529549 1986.475545 202.914505
07 01 2018 10:30
                 2196.951904 9.244591713 2302.710329 207.5834045
07 01 2018 10:40 2200.612061 9.26753521 2317.687968 210.3280945
07 01 2018 10:50 2276.938965 9.469543457 2449.993122 206.7920074
07 01 2018 11:00 2637.587891 10.10667992 2856.668583 207.1560059
07 01 2018 11:10 1743.103027 8.237431526 1668.752973 202.6983948
07 01 2018 11:20 2817.933105 10.51101017 3071.021451 210.3283997
07 01 2018 11:30 3442.739014 12.17531013 3546.617644 212.4703979
07 01 2018 11:40 3493.36499 12.25207043 3555.818898 209.5175934
07 01 2018 11:50 3547.762939 12.29467964 3560.515601 209.8907013
07 01 2018 12:00 3366.832031 11.99621964 3521.360929 208.3283997
07 01 2018 12:10 3396.950928 11.75424004 3478.45199 208.4864044
07 01 2018 12:20 3177.454102 11.33123016 3377.269462 206.4714966
                 3021.465088 10.97334957 3262.951206 205.327301
07 01 2018 12:30
                 2818.601074 10.6595602 3138.517216 205.2162933
07 01 2018 12:40
07 01 2018 12:50
                 3381.593018 11.69865036 3467.108082 207.0005035
07 01 2018 13:00 3211.552979 11.3392601 3379.520086 206.0554047
07 01 2018 13:10 3489.73291 12.25203037 3555.814346 207.7866058
07 01 2018 13:20 3465.790039 12.06601048 3531.843665 208.919693
07 01 2018 13:30 3533.800049 13.00734997 3600 211.1631927
07 01 2018 13:40 3549.374023 12.64500999 3588.378476 215.4586945
07 01 2018 13:50
                 3524.898926 12.17317963 3546.348556 215.5787048
07 01 2018 14:00 3567.977051 12.45785046 3575.845019 218.5720978
07 01 2018 14:10
                 3497.770996 12.05683041 3530.511959 217.8126068
                 3399.969971 11.72047043 3471.628677 216.835495
07 01 2018 14:20
                 3456.762939 11.8707304 3500.402035 218.6026001
07 01 2018 14:30
07 01 2018 14:40 3412.958008 11.83458996 3493.852798 220.4344025
07 01 2018 14:50
                 3450.408936 12.01070023 3523.604092 219.7926025
07 01 2018 15:00
                 3572.710938 12.41294956 3572.042051 221.2859955
07 01 2018 15:10
                 3537.447998 12.66919994 3589.61398 222.3986969
07 01 2018 15:20
                 3568.716064 12.28357983 3559.320119 221.1963959
07 01 2018 15:30
                 3564.731934 12.24199009 3554.665082 222.1188965
07 01 2018 15:40
                 3439.712891 11.80698967 3488.694027 223.9958954
07 01 2018 15:50 3512.095947 12.1055603 3537.419082 225.5379028
07 01 2018 16:00 3585.023926 12.40443039 3571.285181 222.9788055
07 01 2018 16:10 3582.326904 12.54580975 3582.396378 222.0897064
07 01 2018 16:20 3445.820068 12.07637978 3533.33082 224.3708954
```

```
07 01 2018 16:30 3274.910889 11.37143993 3388.406474 224.0166931
                 3483.323975 12.11690998 3538.970783 222.4669037
07 01 2018 16:40
07 01 2018 16:50 3596.420898 12.26519966 3557.297152 220.2127075
07 01 2018 17:00 3557.915039 12.04300022 3528.478816 218.0959015
07 01 2018 17:10 3453.739014 11.93799973 3511.978133 215.7758026
07 01 2018 17:20 3303.159912 11.59502029 3444.42281 213.0220947
07 01 2018 17:30 3371.386963 11.67391014 3461.875587 213.2140045
07 01 2018 17:40 3377.572021 11.7270298 3472.97043 212.6230011
07 01 2018 17:50
                 3281.274902 11.56886959 3438.376345 213.0518951
                 3394.591064 11.80978012 3489.221808 214.2485046
07 01 2018 18:00
07 01 2018 18:10 3258.51001 11.54374027 3432.441999 214.555603
07 01 2018 18:20 3276.947998 11.44038963 3406.738076 215.4340057
07 01 2018 18:30 3315.775879 11.48136044 3417.179608 215.0227051
07 01 2018 18:40 3552.310059 12.03386974 3527.118819 215.8804016
07 01 2018 18:50 3546.322998 12.00636959 3522.937
                                                     215.7205963
07 01 2018 19:00 3123.148926 11.04271984 3287.317399 213.5605011
07 01 2018 19:10 3069.166992 11.05500031 3291.517157 214.0285034
07 01 2018 19:20 3315.912109 11.45320034 3410.038788 212.2767944
07 01 2018 19:30 3573.510986 12.27173996 3558.023203 210.5513
07 01 2018 19:40 3527.712891 12.58621979 3585.011785 210.2165985
07 01 2018 19:50 3590.524902 12.7270298 3592.216576 212.9331055
07 01 2018 20:00 3503.594971 12.98091984 3597.885121 211.9216003
07 01 2018 20:10
                 3382.559082 14.10836983 3600 212.487793
07 01 2018 20:20
                 3370.074951 14.60122013 3600 211.3876038
07 01 2018 20:30 3394.958008 15.18266964 3600 212.2635956
07 01 2018 20:40 3604.214111 15.35641003 3600 214.7958984
07 01 2018 20:50 3604.240967 15.15824032 3600 215.7489929
07 01 2018 21:00 3604.332031 14.96697998 3600 218.2682037
07 01 2018 21:10 3604.508057 14.40670967 3600 218.7922974
07 01 2018 21:20 3604.561035 14.21187973 3600 218.1710052
07 01 2018 21:30 3604.547119 13.98472023 3600 220.7299042
07 01 2018 21:40 3604.383057 13.48628044 3600 221.9219971
07 01 2018 21:50 3604.128906 13.07981968 3600
                                              222.4703979
07 01 2018 22:00 3604.287109 13.19340992 3600 223.3361969
07 01 2018 22:10 3603.205078 12.81509018 3595.237443 224.1179962
07 01 2018 22:20
                 3602.812988 12.63634968 3587.914985 223.2433014
                 3558.370117 12.38829041 3569.820216 221.9382019
07 01 2018 22:30
07 01 2018 22:40
                 3476.102051 12.10087967 3536.772903 223.113205
07 01 2018 22:50 3372.683105 11.93393993 3511.301961 226.7391968
07 01 2018 23:00 3068.2229
                            11.2258997 3346.502659 226.8110046
07 01 2018 23:10 3015.029053 11.06149006 3293.722877 224.7324982
07 01 2018 23:20 3047.173096 11.16413021 3327.364584 225.6907043
07 01 2018 23:30 2962.648926 10.85531044 3218.928204 224.6080017
07 01 2018 23:40 2790.314941 10.4786396 3055.542187 224.0007019
07 01 2018 23:50 2295.48291 9.444117546 2433.307207 224.0350037
08 01 2018 00:00 2455.433105 9.764937401 2637.068502 225.2108002
08 01 2018 00:10 2295.831055 9.52643013 2460.690256 228.2747955
                 2044.208008 8.953310966 2113.936949 227.7667999
08 01 2018 00:20
08 01 2018 00:30 2331.074951 9.615391731 2528.815336 226.0715942
08 01 2018 00:40
                 2197.303955 9.343628883 2367.444273 225.6795959
08 01 2018 00:50
                 1840.800049 8.621238708 1903.26692 224.6591034
08 01 2018 01:00
                 1699.48999 8.442951202 1792.93299 222.8491974
08 01 2018 01:10
                 1823.838989 8.822072029 2029.980822 222.1018066
08 01 2018 01:20
                 1623.546997 8.236761093 1668.353717 224.6696014
08 01 2018 01:30
                 1590.369019 8.10205555 1588.970115 226.072403
08 01 2018 01:40 1146.207031 7.313792229 1163.745217 227.0516052
08 01 2018 01:50 1054.239014 7.203228951 1110.162706 226.5923004
08 01 2018 02:00 1164.526978 7.486260891 1250.855497 226.2008057
08 01 2018 02:10 1335.339966 7.819468975 1428.371294 226.7178955
```

```
08 01 2018 02:20 1375.119995 7.868308067 1455.508163 227.0075073
                 1271.406982 7.61955595 1320.245292 227.5827942
08 01 2018 02:30
08 01 2018 02:40
                 1082.958984 7.126551151 1073.989838 229.0856934
08 01 2018 02:50 908.0120239 6.819835186 936.9056722 232.6692963
08 01 2018 03:00 835.4611816 6.592948914 842.8312933 232.3036957
08 01 2018 03:10 880.546875 6.64773798 865.003454 230.6380005
08 01 2018 03:20
                 997.5792847 7.083144188 1053.860548 227.7922974
                                         1108.872557 227.9252014
08 01 2018 03:30
                 1049.578003 7.2005229
                 980.8162231 7.068719864 1047.22626 227.864502
08 01 2018 03:40
08 01 2018 03:50
                 1182.594971 7.402225971 1207.859362 231.9062958
08 01 2018 04:00
                 1280.964966 7.672173977 1348.228054 229.2303009
08 01 2018 04:10 1484.291992 8.088177681 1580.889554 228.4046936
08 01 2018 04:20
                 1377.219971 7.756439209 1393.758002 228.7427979
08 01 2018 04:30
                 1241.482056 7.693374157 1359.600829 222.0014954
08 01 2018 04:40
                 1192.243042 7.672489166 1348.396727 218.8347931
08 01 2018 04:50
                 1151.322998 7.453350067 1233.889358 223.3424988
08 01 2018 05:00
                 1114.974976 7.330749989 1172.116349 228.2407074
08 01 2018 05:10 1033.328003 7.102694988 1062.896174 230.6490021
08 01 2018 05:20 936.5161743 6.839543819 945.3632859 230.5670929
08 01 2018 05:30 895.6375732 6.887023926 965.9313884 227.1399994
08 01 2018 05:40
                 806.932312 6.405262947 769.4288398 231.4656067
                 512.8892212 5.744005203 542.0086693 232.3739929
08 01 2018 05:50
08 01 2018 06:00
                 544.7133789 5.88451004 586.7154514 232.1598969
08 01 2018 06:10 515.7891235 5.817268848 565.068725 230.0868073
08 01 2018 06:20 642.6522827 6.251658916 712.2288463 226.6231995
08 01 2018 06:30 693.7650146 6.354609013 750.2833623 221.7216949
08 01 2018 06:40 537.7199707 5.963194847 612.6457192 213.6278076
08 01 2018 06:50 836.3096924 6.888867855 966.7357048 221.8280945
08 01 2018 07:00 1078.052002 7.527998924 1272.407002 218.5473938
08 01 2018 07:10 802.5380859 6.675147057 876.2241132 213.6045074
08 01 2018 07:20
                 743.9127197 6.485438824 800.3068817 216.9779968
08 01 2018 07:30 816.6115723 6.690217018 882.4302661 203.3760071
08 01 2018 07:40 623.0045166 5.947310925 607.3584578 187.865799
08 01 2018 07:50 611.0388184 6.127420902 667.8227255 183.3990936
                 361.3192139 5.20006609 386.7129439 182.6378021
08 01 2018 08:00
08 01 2018 08:10
                 226.3937073 4.571615219 237.3140445 186.2346039
08 01 2018 08:20
                 146.218399 3.943535089 117.4138001 191.2651978
08 01 2018 08:30
                 137.7993927 4.141524792 149.7321047 200.3117981
08 01 2018 08:40 107.5957031 3.786334038 90.62838673 205.3704987
08 01 2018 08:50
                 148.7830048 4.165298939 154.3156047 201.9125061
08 01 2018 09:00 183.4562988 4.179171085 157.0029066 200.9082947
08 01 2018 09:10 288.2466125 4.845465183 298.9233402 189.7422028
08 01 2018 09:20
                 390.3236084 5.184568882 382.6701042 183.8610992
08 01 2018 09:30
                 320.6368103 4.806880951 289.9354852 186.3890076
08 01 2018 09:40
                 244.8775024 4.479813099 217.738997 174.302597
08 01 2018 09:50
                 133.5527954 3.715156078 79.80085182 177.8092041
08 01 2018 10:00
                 8.48479557 2.791785955 0
                                               176.252594
                 77.44355011 3.674292088 73.95093235 184.071701
08 01 2018 10:10
                 112.1079025 3.95833993 120.1401114 178.4891052
08 01 2018 10:20
08 01 2018 10:30
                 26.92427063 2.927467108 0
                                               185.0424042
08 01 2018 10:40
                 86.62489319 3.946842909 118.0198926 198.2447968
08 01 2018 10:50
                 162.0511017 4.363177776 193.5870157 188.3773956
08 01 2018 11:00
                 12.82001019 2.89745903 0
                                               198.2969971
08 01 2018 11:10
                 17.84958076 2.732266903 0
                                               209.0112
08 01 2018 11:20
                 30.36087036 3.254823923 29.34918408 204.0836945
08 01 2018 11:30
                 14.21788025 2.822695971 0
                                               195.3233032
08 01 2018 11:40
                 193.0794983 4.30862093 182.552627 195.1956024
08 01 2018 11:50 92.28330231 3.491285086 51.03000557 210.6403961
08 01 2018 12:00 130.7256927 4.136732101 148.8114413 218.1190033
```

```
08 01 2018 12:10 127.6705017 4.059885979 134.1988349 217.6712036
                 89.93031311 3.790518045 91.29007987 202.4143066
08 01 2018 12:20
08 01 2018 12:30
                  66.07553864 3.733128071 82.45823973 187.8348999
08 01 2018 12:40
                 19.80158997 3.023945093 16.81211238 189.2415924
08 01 2018 12:50
                 39.00555038 3.446001053 46.18538882 184.6981049
08 01 2018 13:00
                  2.426461935 2.689878941 0
                                                201.684906
08 01 2018 13:10
                 98.45671844 3.870109081 104.4106757 192.1271973
                  15.6660099 2.735780954 0
08 01 2018 13:20
                                               187.3040009
08 01 2018 13:30
                  0
                        2.236932993 0
                                         199.2996063
08 01 2018 13:40
                  0
                        2.118818998 0
                                          199.8484955
08 01 2018 13:50
                 0
                        1.673400044 0
                                          221.8755951
08 01 2018 14:00
                 0
                        2.418706894 0
                                          229.6304932
08 01 2018 14:10
                 1.771667957 2.904170036 0
                                                218.6188965
08 01 2018 14:20
                 0
                        2.145584106 0
                                          206.2749023
08 01 2018 14:30
                        2.201905012 0
                                          213.9199066
                 0
08 01 2018 14:40
                 0
                        3.066056013 18.46286417 229.6331024
08 01 2018 14:50
                 0
                        3.325711966 34.90984566 231.9868011
08 01 2018 15:00 0
                        3.619611025 66.54097857 241.0858002
08 01 2018 15:10 0
                        2.971257925 0
                                         242.982605
08 01 2018 15:20
                 0
                        2.954154015 0
                                          242.1898041
08 01 2018 15:30
                        3.221544027 27.01594936 221.537796
                 0
08 01 2018 15:40
                        3.012871027 16.42512593 215.6768036
                 0
08 01 2018 15:50
                 0
                        3.734921932 82.72632155 220.328598
08 01 2018 16:00
                 0
                       4.216407776 164.2639327 220.9300995
08 01 2018 16:10
                 0
                        4.711212158 268.0947648 216.9752045
08 01 2018 16:20
                        4.469265938 215.5225209 225.3256073
08 01 2018 16:30
                        4.823653221 293.8295573 235.0917969
08 01 2018 16:40
                        4.231332779 167.1939871 225.2348938
08 01 2018 16:50 277.5324097 5.12796402 368.0695423 216.6808929
08 01 2018 17:00 498.3258057 5.879827976 585.1930068 217.4197998
                 497.7956848 5.929944038 601.6082568 215.616394
08 01 2018 17:10
08 01 2018 17:20
                 642.5411987 6.427526951 777.9325092 211.1470032
08 01 2018 17:30
                 791.8890991 6.879769802 962.7711965 209.3860016
08 01 2018 17:40
                 923.550415 7.121829987 1071.788404 207.3661957
                 745.8217773 6.659317017 869.7331263 208.6665955
08 01 2018 17:50
                  669.5847778 6.35085392 748.8751801 208.4481049
08 01 2018 18:00
                 470.0203857 5.62842989 506.7150969 210.7872009
08 01 2018 18:10
                 294.4465027 4.929840088 318.9488526 211.1425018
08 01 2018 18:20
08 01 2018 18:30
                 354.183197 5.178981781 381.2173979 217.8014984
                 500.3696899 5.78035593 553.3824729 218.2480011
08 01 2018 18:40
08 01 2018 18:50 590.555481 6.148515224 675.2459569 218.5653076
08 01 2018 19:00 629.8114014 6.305305004 731.9157626 219.5202026
08 01 2018 19:10
                 757.2838135 6.660715103 870.3052413 219.8618011
08 01 2018 19:20
                 602.4882813 6.314433098 735.2964743 220.5536041
08 01 2018 19:30
                  533.9011841 6.233302116 705.5634331 224.5644989
08 01 2018 19:40
                  748.9569092 6.829358101 940.9864341 218.1961975
08 01 2018 19:50
                 750.7763062 6.819999218 936.9758711 215.1024933
                 626.7866211 6.461894989 791.1660824 218.5552063
08 01 2018 20:00
08 01 2018 20:10
                 637.1281128 6.375611782 758.1877821 219.3363037
08 01 2018 20:20
                  608.6168823 6.362308979 753.1756862 215.6427002
08 01 2018 20:30
                 786.0579224 6.759739876 911.4031135 217.3748016
08 01 2018 20:40
                 1149.30896 7.762672901 1397.160375 215.5307007
08 01 2018 20:50
                 1129.14502 7.606812
                                         1313.521041 216.0639038
08 01 2018 21:00
                 1030.680054 7.296388149 1155.19657 217.3983002
08 01 2018 21:10
                 1081.785034 7.305881023 1159.853983 222.517395
08 01 2018 21:20
                 1120.730957 7.368675232 1190.988493 215.860199
08 01 2018 21:30
                 980.2758789 7.121951103 1071.844842 213.0664978
08 01 2018 21:40 1001.133972 7.10496521 1063.94864 218.3159943
08 01 2018 21:50 1106.286011 7.358417034 1185.863219 221.9107971
```

```
08 01 2018 22:00 1000.242981 7.010375023 1020.666097 230.5102997
08 01 2018 22:10
                 1003.401001 7.051381111 1039.28734 234.9367981
08 01 2018 22:20
                 898.2753296 6.785508156 922.2858321 240.5984955
08 01 2018 22:30
                 770.7371826 6.544709206 823.5906813 244.1383972
08 01 2018 22:40
                 557.7012939 6.003430843 625.1509756 246.4960022
08 01 2018 22:50
                 473.4700012 5.901651859 592.3089111 242.158493
08 01 2018 23:00
                 428.9768982 5.646711826 512.2111576 240.0821075
08 01 2018 23:10
                  363.7952881 5.309488773 415.8286671 244.591095
08 01 2018 23:20
                  356.7980957 5.368955135 432.0804768 247.1130066
08 01 2018 23:30
                  349.7767944 5.345266819 425.5697641 244.3128052
08 01 2018 23:40
                 361.3447876 5.433129787 449.9675984 247.1965027
08 01 2018 23:50
                 347.2059937 5.379458904 434.9831711 246.8430939
09 01 2018 00:00
                 248.9463043 4.917778015 316.0543261 241.6822052
09 01 2018 00:10
                 281.9343872 5.039463997 345.7541044 245.5968018
                 314.6347961 5.169603825 378.7847605 247.3871002
09 01 2018 00:20
09 01 2018 00:30
                 368.4970093 5.490445137 466.2554686 251.276001
09 01 2018 00:40
                 325.6263123 5.23074007 394.7734969 252.1670074
09 01 2018 00:50
                 232.6753998 4.785101891 284.9082596 249.2490997
09 01 2018 01:00
                 269.1629944 4.981732845 331.5246145 244.4794006
09 01 2018 01:10
                 386.1742859 5.473279953 461.3461442 246.6542969
                 405.5794067 5.571075916 489.6804558 245.8370056
09 01 2018 01:20
                 445.0248108 5.696821213 527.4417133 252.9866028
09 01 2018 01:30
                 458.1116943 5.657978058 515.614184 255.7552948
09 01 2018 01:40
09 01 2018 01:50
                 460.8215027 5.676557064 521.2530044 263.7886047
09 01 2018 02:00
                 487.211792 5.796945095 558.6173145 263.5401917
09 01 2018 02:10
                510.5628967 5.928707123 601.1999311 266.4515076
09 01 2018 02:20 489.9814148 5.894340038 589.9192691 267.3027954
09 01 2018 02:30 425.5150146 5.608187199 500.6670469 265.3855896
                 356.3117065 5.392457962 438.5889021 268.8210144
09 01 2018 02:40
09 01 2018 02:50
                 369.5346985 5.326724052 420.5074067 267.6254883
                 365.8602905 5.327391148 420.6890135 271.9703064
09 01 2018 03:00
                 206.9544983 4.631585121 250.3834206 269.8913879
09 01 2018 03:10
09 01 2018 03:20
                 172.0186005 4.47201395 216.0993792 267.796814
09 01 2018 03:30
                 109.5796967 4.122563839 146.0962393 266.5588074
                 122.6483002 4.175298214 156.2516975 265.9285889
09 01 2018 03:40
                 132.9779053 4.217702866 164.5177318 267.2065125
09 01 2018 03:50
09 01 2018 04:00
                 126.8231964 4.208799839 162.7747255 269.7091064
09 01 2018 04:10
                 100.5101013 4.020815849 126.8743762 264.3344116
09 01 2018 04:20
                 187.7584991 4.531458855 228.6883325 261.1253967
                 290.8814087 5.007687092 337.8903112 261.4195862
09 01 2018 04:30
09 01 2018 04:40
                 223.4608002 4.589190006 241.1206428 274.5922852
09 01 2018 04:50 84.96160126 3.861534119 102.9483748 272.2204895
09 01 2018 05:00
                 20.55237961 3.056126118 18.04804705 285.9599915
09 01 2018 05:10
                 5.918070793 2.914252043 0
                                               297.6195984
09 01 2018 05:20
                 1.386602998 2.546088934 0
                                                297.9724121
09 01 2018 05:30
                  0
                        2.377084017 0
                                          307.8435059
09 01 2018 05:40
                 0
                        3.244925976 28.63672992 307.8139954
09 01 2018 05:50
                 7.471731186 2.973398924 0
                                                322.1921997
09 01 2018 06:00
                 0
                        2.472924948 0
                                          325.0539856
09 01 2018 06:10
                 0
                        3.088496923 19.45843799 340.9537048
09 01 2018 06:20
                  0
                        3.207957983 26.11437727 342.6260071
09 01 2018 06:30
                        3.524256945 54.76384975 345.8174133
09 01 2018 06:40
                        3.196883917 25.40134748 351.7698975
09 01 2018 06:50
                        3.278629065 31.12686252 355.6712952
                 0
09 01 2018 07:00
                        3.013487101 16.44613937 349.5235901
                 0
09 01 2018 07:10
                 0
                       2.597444057 0
                                         350.9614868
09 01 2018 07:20
                 0
                       2.811811924 0
                                          351.3952942
09 01 2018 07:30 0
                       2.495686054 0
                                         5.538174152
                       3.066822052 18.49552059 17.82920074
09 01 2018 07:40 0
```

```
09 01 2018 07:50 0
                       3.162409067 23.30722656 25.94327927
09 01 2018 08:00
                 0
                       2.501784086 0
                                         14.1450901
09 01 2018 08:10
                 0
                       2.291039944 0
                                         43.71139908
09 01 2018 08:20 0
                       2.344810963 0
                                         54,23257828
09 01 2018 08:30 0
                       3.035115957 17.22236107 66.51316071
09 01 2018 08:40
                 0
                       3.584100962 61.98514545 76.80802155
                       3.270412922 30.50306537 83.90677643
09 01 2018 08:50
                 0
                       1.990193009 0
09 01 2018 09:00
                 0
                                         50.20565033
09 01 2018 09:10
                 0
                       2.80162406 0
                                         68.53430939
09 01 2018 09:20
                       3.275088072 30.85669408 55.11882019
                 0
09 01 2018 09:30
                       3.214826107 26.56645593 57.9102211
                 Θ
09 01 2018 09:40
                 0
                       3.130810022 21.55482167 71.85945129
09 01 2018 09:50
                       2.939748049 0
                                         80.20345306
09 01 2018 10:00
                 0
                       3.246735096 28.76577968 65.59587097
09 01 2018 10:10
                       2.871908903 0
                                         70.33496857
                 0
09 01 2018 10:20
                 0
                       2.629748106 0
                                         58.161129
09 01 2018 10:30 0
                       3.085630894 19.3268006 63.87804031
09 01 2018 10:40 0
                       3.20629096 26.00578755 73.58798218
09 01 2018 10:50 0
                       3.419043064 43.45714522 81.49429321
09 01 2018 11:00 30.56949043 3.473898888 49.13117686 76.31838989
09 01 2018 11:10 6.349184036 3.36066699 37.94779792 77.78397369
09 01 2018 11:20
                 1.076665998 3.748315096 84.74412169 78.5811615
09 01 2018 11:30
                 58.0236702 4.009674072 124.7982101 69.01933289
09 01 2018 11:40
                 2.406131029 2.933751106 0
                                               81.16980743
09 01 2018 11:50 0
                       2.830065012 0
                                         81.74397278
09 01 2018 12:00 0
                       2.956454039 0
                                         75.30171204
09 01 2018 12:10 0
                       3.390789986 40.72262457 49.32952118
09 01 2018 12:20 0
                       2.111383915 0
                                       79.45545959
09 01 2018 12:30 12.09146023 3.813462019 94.96842111 83.68856812
09 01 2018 12:40
                 142.9373016 4.217244148 164.427827 78.26979828
09 01 2018 12:50 176.2416992 4.462296009 214.0614019 71.71231842
09 01 2018 13:00 167.9707031 4.312468052 183.3254102 73.29966736
09 01 2018 13:10
                 175.5373993 4.473014832 216.3095934 71.38308716
09 01 2018 13:20 211.0254059 4.622023106 248.2842527 66.56902313
09 01 2018 13:30 250.3184967 4.842130184 298.1423314 68.17137909
09 01 2018 13:40
                 261.0658875 4.857725143 301.8012481 70.54255676
                 195.1080017 4.585811138 240.3872972 75.58088684
09 01 2018 13:50
09 01 2018 14:00
                 260.9960022 4.864133835 303.3098972 72.11638641
09 01 2018 14:10 262.1498108 4.990509987 333.6716367 69.02514648
09 01 2018 14:20 328.7894897 5.32218504 419.2727484 70.8657608
09 01 2018 14:30 268.8442078 5.109433174 363.3457707 69.28304291
09 01 2018 14:40 235.5547028 4.888106823 308.9794625 67.25906372
09 01 2018 14:50
                 295.7919922 5.227930069 394.0318302 65.34407806
09 01 2018 15:00
                 362.5090942 5.366281033 431.3430427 64.31523132
09 01 2018 15:10
                 365.6787109 5.337725163 423.5072182 65.40693665
09 01 2018 15:20
                 363.0426941 5.347967148 426.3094724 65.60115051
                 288.8091125 5.032437801 344.0086578 63.22378159
09 01 2018 15:30
                 261.4096985 4.854186058 300.9693818 65.16265869
09 01 2018 15:40
09 01 2018 15:50
                 394.8363037 5.454154968 455.9079305 64.54110718
09 01 2018 16:00
                 553.2454834 5.96337986 612.7074627 71.78125
09 01 2018 16:10
                 789.8884277 6.613801003 851.2295311 71.31730652
09 01 2018 16:20
                 965.0897217 7.041401863 1034.735771 68.56700134
09 01 2018 16:30
                 1017.671021 7.076789856 1050.934606 67.96909332
09 01 2018 16:40
                 1345.786987 7.725608826 1376.99929 72.24867249
09 01 2018 16:50
                 1263.744995 7.742040157 1385.916736 74.05148315
09 01 2018 17:00 1232.545044 7.571588039 1295.044901 74.08870697
09 01 2018 17:10 787.2312012 6.5596838 829.5353606 74.56395721
09 01 2018 17:20 554.7401123 5.975778103 616.8534183 73.48330688
09 01 2018 17:30 626.0037842 6.004440784 625.4919134 78.2279892
```

```
09 01 2018 17:40 754.9127808 6.481627941 798.8231654 74.6503067
09 01 2018 17:50
                 828.1480713 6.450553894 786.784777 75.5656662
09 01 2018 18:00
                 1290.385986 7.663197041 1343.429296 74.61650085
09 01 2018 18:10
                 1324.373047 7.564552784 1291.374121 67.87236023
09 01 2018 18:20
                 1332.625
                             7.575979233 1297.339388 67.04553223
09 01 2018 18:30
                 1098.772949 7.063724995 1044.93525 67.6740036
09 01 2018 18:40
                 1039.676025 6.912072182 976.8930161 68.73150635
                 804.2822876 6.438810825 782.2630995 69.36212158
09 01 2018 18:50
                 805.1437988 6.530227184 817.865424 70.26083374
09 01 2018 19:00
                 929.2927856 6.798903942 927.974368 72.82594299
09 01 2018 19:10
09 01 2018 19:20
                 897.9151001 6.753901958 908.9484753 71.31968689
09 01 2018 19:30
                943.267395 6.759132862 911.1476988 74.51544952
09 01 2018 19:40
                 625.8814697 5.626655102 506.1832599 77.53556061
09 01 2018 19:50
                 446.46521
                             4.936175823 320.4735293 82.71843719
09 01 2018 20:00 652.5297852 5.969144821 614.6332116 80.01422119
09 01 2018 20:10
                 700.5253296 5.822409153 566.7070975 79.31086731
09 01 2018 20:20
                 786.7703247 5.817975044 565.2936512 80.20274353
09 01 2018 20:30 831.6660156 5.739332199 540.5561293 80.9647522
09 01 2018 20:40 837.7006836 5.963009834 612.5839793 82.48116302
09 01 2018 20:50 817.4644165 5.713737965 532.6390244 85.97753143
09 01 2018 21:00 879.7988892 5.828674793 568.7078055 90.05490112
09 01 2018 21:10 951.2285156 6.020589828 630.9583588 86.89231873
09 01 2018 21:20 843.3892212 5.566068172 488.2079194 92.99828339
09 01 2018 21:30 871.3751831 5.602399826 498.9451155 89.061203
09 01 2018 21:40 891.1118164 5.752931118 544.7892292 90.49577332
09 01 2018 21:50 883.1251221 6.256250858 713.9018582 100.8873978
09 01 2018 22:00 654.2595825 5.878662109 584.8142626 105.6659012
09 01 2018 22:10 515.0449219 5.313576221 416.9359434 106.1584015
09 01 2018 22:20 477.8468018 5.098633766 360.605455 104.2422028
09 01 2018 22:30 504.7067871 5.402994156 441.522451 106.7173004
09 01 2018 22:40
                 348.1600037 4.648723125 254.1604698 109.9604034
09 01 2018 22:50
                 296.0134888 4.675095081 260.0098028 108.7419968
09 01 2018 23:00
                 255,2416992 4,213506222 163,6956242 108,2145004
09 01 2018 23:10
                 258.3121948 4.417449951 204.7280825 109.2955017
09 01 2018 23:20 249.2194061 4.388122082 198.6869624 112.0574036
09 01 2018 23:30
                 425.2803955 5.301136017 413.5703937 118.8687973
09 01 2018 23:40
                 566.0112305 6.029922009 634.1300128 122.5814972
09 01 2018 23:50
                 513.1687012 5.721092224 534.9072761 126.737999
10 01 2018 00:00
                 472.5159912 5.59363699 496.3439589 131.1578979
                492.1124878 5.953317165 609.354587 127.2651978
10 01 2018 00:10
10 01 2018 00:20 270.4773865 4.747572899 276.3222432 122.8183975
10 01 2018 00:30 355.2250061 5.255426884 401.3176706 122.0468979
10 01 2018 00:40
                 288.4397888 4.871133804 304.9611002 119.6437988
10 01 2018 00:50 429.365387 5.436513901 450.9210359 126.4070969
                 281.8738098 4.714985847 268.9445202 137.2913055
10 01 2018 01:00
10 01 2018 01:10
                 260.0133972 4.946319103 322.9206654 138.5556946
                 194.195694 4.522221088 226.7180254 136.7290039
10 01 2018 01:20
                 130.5039978 4.213234901 163.6425044 140.5498962
10 01 2018 01:30
10 01 2018 01:40
                 8.394179344 2.70459795 0
                                               149.7917938
10 01 2018 01:50
                 0
                        2.47755003 0
                                         195.3244019
                        1.470070004 0
10 01 2018 02:00
                 0
                                         145.1029968
10 01 2018 02:10
                 0
                        3.008768082 16.28672895 214.0254974
10 01 2018 02:20
                 210.1694946 4.599510193 243.3649723 158.5960999
10 01 2018 02:30
                 10.63984013 2.579374075 0
                                               109.0011978
10 01 2018 02:40
                       1.973911047 0
                 0
                                         113.831398
10 01 2018 02:50
                 0
                       2.772330046 0
                                         139.381897
10 01 2018 03:00 0
                       3.277472973 31.03843519 135.2064972
10 01 2018 03:10 0
                    3.441303968 45
2.619735956 0
                       3.441303968 45.70166239 146.6634979
10 01 2018 03:20 0
                                        121.9536972
```

10	0 1	2018	03:30	0	2.055049896 0	137.7456055
_						
10	01	2018	03:40	0	1.622059941 0	106.3775024
10	01	2018	03:50	0	2.392349005 0	128.2503052
10	01	2018	04:00	0	1.633476019 0	115.2589035
10	01	2018	04:10	0	1.30629003 0	125.8730011
_	01	2018				110.7517014
10	_		04:20	0		
10	01	2018	04:30	0	1.978963017 0	122.9148026
10	01	2018	04:40	0	1.180513978 0	121.4372025
10	01	2018	04:50	0	1.382282972 0	104.2394028
_	01	2018				
10	_		05:00	0	1.337169051 0	34.53086853
10	01	2018	05:10	0	1.225813031 0	63.23910141
10	01	2018	05:20	0	2.819976091 0	327.2670898
10	01	2018	05:30	0	2.52601409 0	334.1046143
10	01	2018	05:40	ō	1.761003971 0	12.01848984
_	_					
10	01	2018	05:50	0	1.601286054 0	48.67216873
10	01	2018	06:00	0	1.281996012 0	155.0233002
10	01	2018	06:10	0	2.607383966 0	161.7308044
10	01	2018	06:20	0	2.07774806 0	139.1277008
_	01					
10	-	2018	06:30	0		126.9441986
10	01	2018	06:40	0	1.266352057 0	153.7075958
10	01	2018	06:50	0	0.447999805 0	11.89334011
10	01	2018	07:00	0	0.878756702 0	62.77664948
10	01	2018	07:10	ō	0.477733105 0	88.67508698
	-					
10	01	2018	07:20	0	0.405237913 0	335.6617126
10	01	2018	07:30	0	0.634839892 0	147.4441986
10	01	2018	07:40	0	1.262616038 0	187.6696014
10	01	2018	07:50	0	2.572881937 0	178.0899963
_	_			_		
10	01	2018	08:00	0	2.368648052 0	226.1987
10	01	2018	08:10	0	1.738826036 0	172.7776031
10	01	2018	08:20	0	1.493824005 0	195.3052979
10	01	2018	08:30	0	2.194616079 0	196.8760986
10	01	2018	08:40	0	1.156960964 0	151.8847961
_						
10	01	2018	08:50	0	1.071895003 0	166.2534027
10	01	2018	09:00	0	1.243163943 0	145.7261963
10	01	2018	09:10	0	0.7839095 0	145.2028046
10	01	2018	09:20	0	1.031088948 0	98.84558868
10	01	2018	09:30	_		153.5498047
	-			0		
10	01	2018	09:40	0	1.083798051 0	190.5536957
10	01	2018	09:50	0	1.875848055 0	117.7894974
10	01	2018	10:00	0	1.524209976 0	114.1369019
10	01	2018	10:10	0	1.340621948 0	126.2916031
10	01	2018	10:20		0.852388978 0	147.1481934
				0		
10	01	2018	10:30	0	2.054236889 0	165.9730072
10	01	2018	10:40	0	2.467195034 0	178.2413025
10	01	2018	10:50	0	1.805582047 0	160.0350952
10	01	2018	11:00	0	1.796159029 0	139.4369965
10	01	2018	11:10	0	2.150357008 0	115.5469971
10	01	2018	11:20	0	2.298122883 0	92.78115082
10	01	2018	11:30	0	2.62351203 0	59.86473846
10	01	2018	11:40	0	1.43571198 0	74.26532745
10	01	2018	11:50	Ō	1.020941019 0	79.481987
10	01	2018	12:00	0	1.131065965 0	74.3585434
10	01	2018	12:10	0	1.027892947 0	144.1950989
10	01	2018	12:20	0	1.705418944 0	204.1190033
10	01	2018	12:30	0	1.018921018 0	127.7742996
	01		12:40			
10		2018		0	1.236291051 0	91.30721283
10	01	2018	12:50	0	1.03647697 0	119.3964005
10	01	2018	13:00	0	1.78085804 0	128.096405
10	01	2018	13:10	0	2.32819891 0	135.9010925
			-			

```
10 01 2018 13:20 0
                       1.756569982 0
                                        120.2671967
10 01 2018 13:30 0
                       1.92516005 0
                                        170.5785065
10 01 2018 13:40 0
                       3,439016104 45,46732647 127,0854034
10 01 2018 13:50 0
                       3.033592939 17.16525291 102.4673004
10 01 2018 14:00 0
                       3.528951883 55.30966786 103.2701035
10 01 2018 14:10 189.759201 4.864656925 303.433166 123.2110977
10 01 2018 14:20 178.2068024 4.282464981 177.3196481 137.5175018
                                              151.4562988
10 01 2018 14:30 31.8864994 2.988169909 0
10 01 2018 14:40 0
                      1.798933029 0
                                     172.6430054
10 01 2018 14:50 0
                       1.840474963 0
                                         228.8267059
10 01 2018 15:00 0
                       2.212565899 0
                                         251.930603
10 01 2018 15:10 0
                       2.692303896 0
                                        284.5064087
10 01 2018 15:20 22.00214958 4.209413052 162.8946493 258.5285034
10 01 2018 15:30 49.22541046 3.05190897 17.87665033 237.5792999
10 01 2018 15:40 0
                      0.864522576 0
                                         252.8995972
10 01 2018 15:50 0
                       0.76860559 0
                                         251.8542023
10 01 2018 16:00 49.84772873 3.54001689 56.60999975 208.2617035
10 01 2018 16:10 569.6486816 5.677199841 521.4486924 188.3688049
10 01 2018 16:20 812.0880127 6.62667799 856.4404274 200.155304
10 01 2018 16:30 1248.901978 7.881015778 1462.613321 211.1813049
10 01 2018 16:40 1001.09198 7.373727798 1193.518554 207.6473999
10 01 2018 16:50 870.8120728 6.938550949 988.5648066 214.1432953
10 01 2018 17:00 1065.642944 7.43503809 1224.520579 210.6835022
10 01 2018 17:10 999.538208 7.346372128 1179.864843 202.2606964
10 01 2018 17:20 1090.782959 7.326743126 1170.134647 213.3815002
10 01 2018 17:30 1114.883057 7.568226814 1293.290304 222.8262024
10 01 2018 17:40 977.6099854 7.375741959 1194.528184 211.4967957
10 01 2018 17:50 713.2998047 6.604113102 847.3215728 207.1757965
10 01 2018 18:00 940.6273193 7.269858837 1142.248473 204.4916992
10 01 2018 18:10 1214.921021 7.653754234 1338.39242 206.0189056
10 01 2018 18:20 1114.912964 7.487399101 1251.445237 206.0948029
10 01 2018 18:30 1027.079956 7.312902927 1163.307356 203.9541931
10 01 2018 18:40 679.6071167 6.4169631 773.8909111 206.1159973
10 01 2018 18:50 836.7719727 6.85627079 952.5780992 217.5762024
10 01 2018 19:00 893.1500244 7.139407158 1079.999509 217.4367981
10 01 2018 19:10 901.9882202 7.10580492 1064.338099 217.245697
10 01 2018 19:20 1060.123047 7.443419933 1228.802605 224.360199
10 01 2018 19:30 779.2860718 6.698926926 886.0291772 225.1351013
10 01 2018 19:40 703.4691162 6.372520924 757.0215224 229.2877045
10 01 2018 19:50 269.2567139 4.838714123 297.3431572 237.4907074
10 01 2018 20:00 25.31525993 3.080082893 19.07571417 244.9073944
10 01 2018 20:10 137.5820007 4.347185135 190.3355056 230.287796
10 01 2018 20:20 102.8774033 4.075825214 137.2069776 253.0243073
10 01 2018 20:30 0 2.508088112 0
                                      282.7536011
10 01 2018 20:40 0
                       3.587429047 62.40356028 241.9060059
10 01 2018 20:50 34.64329147 2.948153019 0
                                            241.1213074
10 01 2018 21:00 9.358477592 3.334625959 35.66599332 228.9250946
10 01 2018 21:10 -0.038066749 3.248697996 28.90639134 279.0401001
10 01 2018 21:20 76.41145325 4.837356091 297.0256805 226.1600952
10 01 2018 21:30 165.3368988 4.409307957 203.0460359 219.623703
10 01 2018 21:40 6.219003201 2.59731698 0
                                               233.1264954
10 01 2018 21:50 0
                       1.803915977 0
                                         234.5372009
10 01 2018 22:00 0
                       3.205914021 25.98129537 236.2693024
10 01 2018 22:10 178.4515076 4.499042034 221.7969585 228.7397003
10 01 2018 22:20 343.1393127 5.286794186 409.7068248 226.5641937
10 01 2018 22:30 435.1068115 5.784934998 554.8246509 223.4317932
10 01 2018 22:40 406.9784851 5.553357124 484.4808014 235.3596039
10 01 2018 22:50 448.7044983 5.73307991 538.6160934 229.6949005
10 01 2018 23:00 800.6533203 6.945242882 991.5283739 222.7140961
```

```
10 01 2018 23:10 655.5134888 6.200417042 693.7131984 233.0057983
                 1025.270996 7.247819901 1131.567291 232.7648926
10 01 2018 23:20
10 01 2018 23:30
                 1425.744995 7.917921066 1483.349584 231.4539032
10 01 2018 23:40
                 1472.78894 8.098683357 1587.004881 229.9617004
10 01 2018 23:50
                 909.2086792 6.775595188 918.0899935 232.7084961
                 968.4990845 6.971179962 1003.067649 227.3473053
11 01 2018 00:00
11 01 2018 00:10
                 1085.182007 7.34307909 1178.228577 229.7711029
11 01 2018 00:20
                 1240.958008 7.609018803 1314.683946 228.6051941
                 1101.729004 7.301737785 1157.819641 228.8733978
11 01 2018 00:30
11 01 2018 00:40
                 874.7224731 6.964352131 1000.021808 229.792099
11 01 2018 00:50
                842.2092896 7.195750237 1106.599561 223.8283997
11 01 2018 01:00 917.7385254 7.437849045 1225.955428 221.5803986
11 01 2018 01:10
                849.1314087 7.320701122 1167.150779 221.0438995
11 01 2018 01:20
                654.7645264 6.828896999 940.7885919 220.6609039
11 01 2018 01:30 847.4359131 7.157936096 1088.699926 215.6087036
11 01 2018 01:40 1219.274048 7.904695034 1475.900894 215.2097931
11 01 2018 01:50
                 1043.302979 7.440392971 1227.254999 211.1994934
11 01 2018 02:00
                 751.5518188 6.53924799 821.4289149 211.5435028
11 01 2018 02:10 622.8776855 6.285941124 724.7738782 212.3737946
11 01 2018 02:20
                662.1469116 6.391759872 764.2977919 212.3955994
11 01 2018 02:30
                 571.3944702 6.097199917 657.2706344 210.7232971
11 01 2018 02:40
                 370.3487854 5.501985073 469.5711229 208.0027008
11 01 2018 02:50
                 338.7138977 5.357986927 429.0597749 207.4002075
11 01 2018 03:00
                 254.6609039 4.811359882 290.9734447 207.7709961
11 01 2018 03:10 372.598114 5.34762001 426.2143445 211.4411011
11 01 2018 03:20
                504.1304016 5.978822231 617.8738887 211.5314941
11 01 2018 03:30 494.7366028 6.022462845 631.5941791 209.9143982
11 01 2018 03:40 536.3242188 6.19164896 690.5731721 197.8713074
11 01 2018 03:50 681.2307739 6.357507229 751.3712578 194.5547028
11 01 2018 04:00
                 664.9816284 6.331501007 741.64198
                                                    198.0097961
11 01 2018 04:10 891.1411133 6.833683968 942.8437541 203.0960999
11 01 2018 04:20
                 1319.983032 7.962143898 1508.393117 203.2133026
11 01 2018 04:30
                 1471.79895 8.221513748 1659.284444 197.0386047
11 01 2018 04:40
                 1247.624023 7.813747883 1425.210328 198.4971924
11 01 2018 04:50
                 694.7996216 6.60129118 846.185252 193.4008942
                 1068.959961 7.376666069 1194.991609 193.8800964
11 01 2018 05:00
11 01 2018 05:10
                 627.7581177 6.391584873 764.2314244 187.3292999
11 01 2018 05:20
                 454.7786865 5.897237778 590.8656356 180.2850037
11 01 2018 05:30
                 446.8510132 5.863586903 579.92965
                                                     170.384903
11 01 2018 05:40
                981.527771 7.182207108 1100.166518 181.0054932
11 01 2018 05:50 596.6862183 6.128852844 668.3251305 177.1802063
11 01 2018 06:00 100.2984009 4.057250023 133.70249
                                                     169.3887939
11 01 2018 06:10 140.3307037 4.179022789 156.9741283 181.822998
                 233.2548981 4.793194771 286.7724804 189.383606
11 01 2018 06:20
                 137.0063934 4.390676975 199.2112925 187.8746948
11 01 2018 06:30
                 114.788002 4.228185177 166.5751054 198.9326935
11 01 2018 06:40
11 01 2018 06:50
                 121.4857025 4.258862019 172.6286034 192.1172943
                 230.169693 4.900619984 311.955305 196.9026031
11 01 2018 07:00
11 01 2018 07:10 248.4429016 5.146485806 372.8184889 181.3276062
11 01 2018 07:20
                 159.7536011 4.556169987 233.9845861 174.8497925
11 01 2018 07:30
                 299.6246033 5.319112778 418.4380708 178.6730957
11 01 2018 07:40
                 290.5631104 5.178384781 381.0623224 166.2382965
11 01 2018 07:50
                 234.2245941 4.788315773 285.6480448 166.1195984
11 01 2018 08:00
                 276.630188 4.914486885 315.2664121 172.9880066
11 01 2018 08:10
                 420.5224915 5.57296896 490.2377243 166.3986053
11 01 2018 08:20 430.6278992 5.782372952 554.0174729 161.4102936
11 01 2018 08:30
                 1131.89502 7.909526825 1478.619856 149.8544006
11 01 2018 08:40 1633.588989 8.603092194 1891.937444 151.0442047
11 01 2018 08:50 2047.962036 9.22633934 2290.804198 157.3379974
```

```
11 01 2018 09:00 2396.175049 10.30049038 2965.222707 154.1699982
                 558.4265137 10.87994003 3228.384864 166.7559052
11 01 2018 09:10
11 01 2018 09:20
                       10.97155952 3262.307881 167.217804
                 0
11 01 2018 09:30 0
                       10.52649021 3078.324921 0
11 01 2018 09:40 0
                       10.43214035 3032.81204 179.2700043
11 01 2018 09:50 0
11 01 2018 10:00 0
                       9.113118172 2217.154355 0
11 01 2018 10:10
                 0
                       8.876641273 2064.79063 179.7700958
11 01 2018 10:20
                 0
                       8.368033409 1747.266451 176.7324066
11 01 2018 10:30 0
                       8.779058456 2002.649729 174.5265961
11 01 2018 10:40 0
                       8.299936295 1706.148518 0
11 01 2018 10:50 524.5814819 8.147626877 1615.6357
                                                     170.9642944
11 01 2018 11:00 1536.473999 8.097557068 1586.348754 173.0661011
11 01 2018 11:10 1421.634033 7.76677084 1399.399569 170.7532959
11 01 2018 11:20 1869.27002 8.603107452 1891.946962 175.4382935
11 01 2018 11:30 2189.730957 9.236798286 2297.625616 183.3618927
11 01 2018 11:40 2280.789063 9.101119995 2209.372587 187.9906006
11 01 2018 11:50 2427.85791 9.372789383 2386.540983 190.2223969
11 01 2018 12:00 2178.084961 8.834570885 2037.940727 193.5021057
11 01 2018 12:10 2496.608887 9.403022766 2406.354781 191.8522949
11 01 2018 12:20 3012.137939 10.54265022 3085.881377 186.0681
11 01 2018 12:30 3042.054932 10.64976025 3134.240321 185.2176971
11 01 2018 12:40
                 2529.969971 9.841424942 2689.496598 184.3594055
11 01 2018 12:50
                 1848.623047 8.907418251 2084.486885 183.7055054
11 01 2018 13:00 1939.584961 9.060670853 2183.174322 181.4067993
11 01 2018 13:10 1850.525024 8.694945335 1949.497886 176.2440033
11 01 2018 13:20 1630.327026 8.452195168 1798.597672 177.8480072
11 01 2018 13:30 1564.635986 8.372102737 1749.735578 176.4732971
11 01 2018 13:40 1495.447998 8.434202194 1787.577571 178.8580017
11 01 2018 13:50 1564.937012 8.301309586 1706.973911 180.7021027
11 01 2018 14:00 1826.542969 8.443800926 1793.45343 173.3034973
11 01 2018 14:10 1634.281006 7.997996807 1528.84976 174.3643951
11 01 2018 14:20 1096.198975 7.04429388 1036.053507 175.2480011
11 01 2018 14:30 668.4063721 6.102748871 659.2008172 174.9653015
                 1015.635986 7.125144958 1073.333834 168.9145966
11 01 2018 14:40
                 1208.708008 7.513940811 1265.160083 167.1569977
11 01 2018 14:50
11 01 2018 15:00
                 1104.777954 7.259142876 1137.046482 162.860199
11 01 2018 15:10 522.387085 6.121085167 665.6024269 153.0785065
11 01 2018 15:20 536.397522 5.847766876 574.829029 150.9020996
11 01 2018 15:30 403.032196 5.4857831 464.9194381 151.0437012
11 01 2018 15:40 640.2962036 6.159699917 679.2012262 162.7156067
11 01 2018 15:50 856.3256226 6.548974991 825.2815711 168.7527008
11 01 2018 16:00 932.4849854 6.689681053 882.2090936 168.9024048
11 01 2018 16:10
                 1376.750977 7.475801945 1245.44574 173.5821075
11 01 2018 16:20
                 1003.030029 6.926990986 983.458515 179.8769989
                 1134.967041 7.114134789 1068.206544 180.6213989
11 01 2018 16:30
11 01 2018 16:40
                 1507.255981 7.811076164 1423.735473 178.1278992
                 1651.055054 8.149044037 1616.468116 177.3802032
11 01 2018 16:50
11 01 2018 17:00 2031.52002 8.967650414 2123.15765 184.5531006
11 01 2018 17:10
                 1308.488037 7.534730911 1275.886726 191.6233978
11 01 2018 17:20
                 1793.678955 8.688857079 1945.666549 191.0944061
11 01 2018 17:30
                 2084.773926 9.220047951 2286.702238 188.0944977
11 01 2018 17:40
                 1890.524048 8.858812332 2053.401327 190.2460938
11 01 2018 17:50
                 1741.109985 8.640852928 1915.536512 193.6636963
11 01 2018 18:00 1914.267944 8.720710754 1965.736306 194.3453979
11 01 2018 18:10 1854.572998 8.379948616 1754.499928 195.358902
11 01 2018 18:20 2271.259033 9.23681736 2297.638058 196.4644012
11 01 2018 18:30 2043.265015 8.851280212 2048.594397 198.8506927
11 01 2018 18:40 1447.266968 7.775500774 1404.176431 197.9246979
```

```
11 01 2018 18:50 1580.005981 7.915802002 1482.154871 200.3072052
11 01 2018 19:00 1791.380005 8.265461922 1685.481109 205.3674927
11 01 2018 19:10 1653.026001 7.958837032 1506.51316 204.9208984
11 01 2018 19:20 1328.930054 7.493228912 1254.468967 203.0868073
11 01 2018 19:30 1725.38501 8.259368896 1681.839016 206.1313934
11 01 2018 19:40 1846.192993 8.248199463 1675.170946 208.1931
11 01 2018 19:50 2199.105957 9.195905685 2270.971241 210.3159027
11 01 2018 20:00 2437.365967 9.709180832 2597.608844 212.0375061
11 01 2018 20:10 2277.193115 9.503987312 2443.052808 214.2837982
11 01 2018 20:20 2043.82605 9.010520935 2150.775546 217.177002
11 01 2018 20:30 1720.475952 8.230665207 1664.725332 217.9515991
11 01 2018 20:40 1338.25
                             7.760880947 1396.181845 212.404007
11 01 2018 20:50 1169.993042 7.305148125 1159.49395 208.694397
11 01 2018 21:00 1002.460022 6.916697979 978.9258048 210.1862946
11 01 2018 21:10 1104.290039 7.240090847 1127.837466 214.3834076
11 01 2018 21:20 1476.498047 7.971399784 1513.661279 212.9295959
11 01 2018 21:30 1741.936035 8.475605011 1812.971746 211.087204
11 01 2018 21:40 2146.961914 9.212332726 2281.673345 210.5700073
11 01 2018 21:50 2310.988037 9.474656105 2453.349141 211.905899
11 01 2018 22:00 2091.774902 9.044733047 2172.867655 210.2301941
11 01 2018 22:10 1835.990967 8.478246689 1814.596331 211.6246948
11 01 2018 22:20 1466.797974 7.758695126 1394.988754 211.2308044
11 01 2018 22:30 922.7778931 6.84911108 949.4857747 214.9833069
11 01 2018 22:40 1008.106995 7.117507935 1069.775666 212.2958069
11 01 2018 22:50 943.1107788 6.9161129 978.6685481 213.7174988
11 01 2018 23:00 1140.557983 7.234817028 1125.297235 215.9653015
11 01 2018 23:10 827.2052002 6.503695965 807.4373786 217.1300964
11 01 2018 23:20 801.1237183 6.478253841 797.5108459 218.6679993
11 01 2018 23:30 679.8209839 6.170815945 683.1454729 223.0005035
11 01 2018 23:40 697.1594238 6.311348915 734.1531987 223.9819031
11 01 2018 23:50 801.9691162 6.539237022 821.424577 219.0693054
12 01 2018 00:00 728.5720215 6.392261028 764.4878709 223.786499
12 01 2018 00:10 346.6856995 5.149363995 373.5589302 229.6235962
12 01 2018 00:20 197.9606018 4.34602499 190.1001831 230.7418976
12 01 2018 00:30 244.2593994 4.566956043 236.3081274 233.2050018
12 01 2018 00:40 140.9369049 3.991632938 126.3991248 231.7640991
12 01 2018 00:50 22.84959984 2.986603022 0
                                               240.8435974
12 01 2018 01:00 0
                       3.29580307 32.46565474 249.9609985
12 01 2018 01:10 35.46245956 3.737477064 83.10905966 238.490799
12 01 2018 01:20 27.05590057 3.188169003 24.85401396 236.9517975
12 01 2018 01:30 1.006333947 2.305002928 0
                                               241.6660004
12 01 2018 01:40 0
                       2.537512064 0
                                         216.3036041
12 01 2018 01:50 0
                       3.172410965 23.89519415 203.3421936
12 01 2018 02:00 0
                       3.756150961 85.93797281 210.680603
12 01 2018 02:10 0
                       3.418672085 43.42041188 218.287796
12 01 2018 02:30 0
                       2.750339985 0
                                         0
12 01 2018 02:40 0
                       3.236390114 28.03490652 208.210495
12 01 2018 02:50 0
                       2.912616014 0
                                         218.9118042
12 01 2018 03:00 40.17253876 4.096304893 141.0893502 216.0070953
12 01 2018 03:10 82.41780853 4.053240776 132.9481676 213.0892944
12 01 2018 03:20 61.1172905 3.830120087 97.69179144 209.2444
12 01 2018 03:30
                 33.36175919 3.378752947 39.59639788 212.5930939
12 01 2018 03:40 -0.331466705
                                   2.574091911 0
                                                     214.811203
12 01 2018 03:50 0
                       2.761972904 0
                                         205.7292938
12 01 2018 04:00 0
                       3.271774054 30.60566061 198.9067993
12 01 2018 04:10 0
                       2.595573902 0
                                      203.4169006
12 01 2018 04:20 7.744999886 3.41699791 43.25491363 195.5605011
12 01 2018 04:30 -0.958999574 3.333947897 35.60802853 206.1304016
12 01 2018 04:40 45.11072922 3.692104101 76.46797819 201.9600067
```

```
12 01 2018 04:50 96.53627777 4.303627014 181.550673 192.4131012
12 01 2018 05:00
                  15.84786034 3.067430019 18.52150522 196.4884949
12 01 2018 05:10
                  2.556333065 2.88232708 0
                                                 203.4830017
12 01 2018 05:20
                  0
                        2.50823307 0
                                           227.8419952
12 01 2018 05:30
                  0
                        2.258174896 0
                                           206.0650024
12 01 2018 05:40
                  0
                        3.059196949 18.17464467 196.8937988
12 01 2018 05:50
                  0
                        3.703006983 78.03372888 192.3813934
                  51.47705078 3.672606945 73.71543044 193.7613983
12 01 2018 06:00
12 01 2018 06:10
                  41.88864899 3.754401922 85.67064233 194.6878967
12 01 2018 06:20
                        3.306550026 33.3274343 179.5001068
                  0
12 01 2018 06:30
                        1.852962017 0
                                           184.2171021
                  Θ
12 01 2018 06:40
                  0
                        1.279314041 0
                                           186.4302979
12 01 2018 06:50
                        1.069210052 0
                                           195.5646057
12 01 2018 07:00
                  0
                        2.529333115 0
                                           191.3657074
12 01 2018 07:10
                        3.251204967 29.08687382 178.6394043
                  0
12 01 2018 07:20
                  0
                        3.617080927 66.20969929 169.3132019
12 01 2018 07:30
                  0
                        1.869142056 0
                                           177.971405
12 01 2018 07:40
                  0
                        2.039597988 0
                                           197.8168945
12 01 2018 07:50
                  0
                        2.118112087 0
                                           205.7834015
12 01 2018 08:00
                  0
                        1.580721021 0
                                           201.4756927
12 01 2018 08:10
                        2.061593056 0
                                           188.6387024
                  0
12 01 2018 08:20
                  0
                        2.260338068 0
                                           184.0565948
12 01 2018 08:30
                        2.033643007 0
                                           203.4190979
                        1.852815032 0
12 01 2018 08:40
                  0
                                           209.5276031
12 01 2018 08:50
                        1.150482059 0
                                           205.175705
12 01 2018 09:00
                        0.728607714 0
                                           167.4687958
12 01 2018 09:10
                        0.866834402 0
                                           204.2868042
12 01 2018 09:20
                        1.235592961 0
                                           202.5274963
                  0
12 01 2018 09:30
                  0
                        1.645431995 0
                                           237.6976013
12 01 2018 09:40
                  0
                        2.470777988 0
                                           211.2561951
12 01 2018 09:50
                  0
                        2.463659048 0
                                           217.3231964
12 01 2018 10:00
                  0
                        3.721769094 80.77266108 215.2071991
12 01 2018 10:10
                        2.806461096 0
                                           211.5695953
12 01 2018 10:20
                        2.301358938 0
                                           220,9586945
                  0
12 01 2018 10:30
                        1.366551042 0
                                           211.5955048
                  0
12 01 2018 10:40
                  0
                        0.89463383 0
                                           242.8296051
12 01 2018 10:50
                  0
                        1.607005954 0
                                           233.6033936
12 01 2018 11:00
                  0
                        1.663730025 0
                                           199.7872009
12 01 2018 11:10
                        2.189532995 0
                                           206.6253967
12 01 2018 11:20
                        1,669721961 0
                                           189.3251953
12 01 2018 11:30
                  0
                        3.074171066 18.81358189 217.9042053
12 01 2018 11:40
                        3.457597017 47.39470697 226.4512024
                  0
12 01 2018 11:50
                  3.167865992 3.226833105 27.37491997 229.094101
12 01 2018 12:00
                  0
                        2.259043932 0
                                           238.8278046
12 01 2018 12:10
                  0
                                           258.9124146
                        1.128046989 0
12 01 2018 12:20
                        2.065155029 0
                                           255.7433929
12 01 2018 12:30
                  0
                        1.731896043 0
                                           252.4593048
12 01 2018 12:40
                  0
                        1.547610998 0
                                           257.603302
12 01 2018 12:50
                  0
                        1.369529963 0
                                           306.5241089
12 01 2018 13:00
                  0
                        1.280812979 0
                                           298.9986877
12 01 2018 13:10
                  0
                        1.701560974 0
                                           286.6830139
12 01 2018 13:20
                        1.770290017 0
                                           288.5098877
12 01 2018 13:30
                        1.513280988 0
                                           297.0770874
12 01 2018 13:40
                        1.766976953 0
                                           298.8493042
                  0
12 01 2018 13:50
                        1.653411031 0
                                           298.9989929
                  0
12 01 2018 14:00
                  0
                        1.954838991 0
                                           291.9960938
12 01 2018 14:10
                  0
                        1.837846994 0
                                           302.9447937
                                           307.5950928
12 01 2018 14:20
                  0
                        1.927641988 0
12 01 2018 14:30
                  0
                        1.732272983 0
                                           306.1805115
```

```
12 01 2018 14:40
                        1.831851959 0
                                          324.4772949
                 0
12 01 2018 14:50
                 0
                        1.958502054 0
                                          325.3395081
12 01 2018 15:00
                 0
                        1.937886953 0
                                          318.2612915
12 01 2018 15:10
                 0
                        1.578250051 0
                                          332,4753113
12 01 2018 15:20
                 0
                        1.89872098 0
                                          357.3452148
12 01 2018 15:30
                        2.009414911 0
                                          15.34541035
12 01 2018 15:40
                 0
                        1.757040024 0
                                          18.24617004
12 01 2018 15:50
                 0
                        2.046329021 0
                                          25.33651924
12 01 2018 16:00
                 0
                        2.633063078 0
                                          12.32909966
12 01 2018 16:10
                 0
                        2.014453888 0
                                          46.79558182
12 01 2018 16:20
                 0
                        1.683606982 0
                                          65.95128632
12 01 2018 16:30
                 0
                        1.865905046 0
                                         61.81348038
12 01 2018 16:40
                        2.33595109 0
                                          69.03933716
12 01 2018 16:50
                 0
                        2.828371048 0
                                         72.9213028
12 01 2018 17:00
                        2.381402016 0
                                         69.18496704
                 0
12 01 2018 17:10
                 0
                        2.435214996 0
                                          62.94485092
12 01 2018 17:20 0
                        2.474698067 0
                                          58.58187866
12 01 2018 17:30 0
                        2.902802944 0
                                         56.04880905
12 01 2018 17:40 0
                        3.818686962 95.81785014 55.09051132
12 01 2018 17:50
                 37.31819916 3.813918114 95.0423953 46.78144073
12 01 2018 18:00
                 39.2279892 3.539768934 56.58064609 35.28268051
                 83.36720276 3.684020996 75.31944972 29.37000084
12 01 2018 18:10
                  372.3539124 5.196488857 385.7779796 24.87668037
12 01 2018 18:20
12 01 2018 18:30
                 370.7796021 5.087099075 357.6887588 34.07735062
12 01 2018 18:40
                 193.8451996 4.317318916 184.3009576 33.56103897
12 01 2018 18:50 164.5513
                             4.265349865 173.9151301 42.57110977
12 01 2018 19:00 411.6083069 5.268417835 404.7819839 50.3271904
12 01 2018 19:10 781.2047729 6.365681171 754.4444054 61.78839874
12 01 2018 19:20 663.6558228 6.01602602 629.4106839 62.5736618
12 01 2018 19:30
                 397.9407959 5.338869095 423.819751 59.76343918
12 01 2018 19:40
                 225.5791931 4.497951984 221.5663301 52.09217072
12 01 2018 19:50 255.9037018 4.651455879 254.7644962 50.33544922
12 01 2018 20:00 217.4463043 4.567403793 236.4047381 52.23003006
12 01 2018 20:10 207.2315063 4.507339954 223.5549386 59.19908142
                 183.1826019 4.35807085 192.547172 60.28544998
12 01 2018 20:20
                  250.0052948 4.762954235 279.8295745 61.9916687
12 01 2018 20:30
12 01 2018 20:40
                  299.9541016 4.972180843 329.194651 60.52375031
12 01 2018 20:50
                 282.9833069 4.866295815 303.8195053 66.36049652
12 01 2018 21:00
                 258.7084961 4.75466013 277.9363066 66.02411652
12 01 2018 21:10
                 310.6908875 4.913588047 315.0513635 66.95031738
12 01 2018 21:20 364.0643921 5.171933174 379.3883231 63.11690903
12 01 2018 21:30 327.4386902 5.072480202 354.0072427 64.56555176
12 01 2018 21:40
                 284.5905151 4.863729
                                         303.2145094 65.62474823
12 01 2018 21:50
                 291.3023987 4.931485176 319.3444535 66.84069061
12 01 2018 22:00
                 301.5545044 4.988963127 333.2928286 67.57539368
12 01 2018 22:10
                  366.1124878 5.161118984 376.5899685 65.11303711
12 01 2018 22:20
                  452.8363953 5.438509941 451.4838818 62.81476974
12 01 2018 22:30
                  555.0496216 5.735558987 539.3848656 65.5859375
12 01 2018 22:40
                 700.6447754 6.106021881 660.340864 66.55658722
12 01 2018 22:50
                  739.3690796 6.122786999 666.1983964 61.93339157
12 01 2018 23:00
                  670.2421875 5.970517159 615.0921561 56.54870987
12 01 2018 23:10
                 639.0324707 5.90183115 592.3675771 60.3712616
12 01 2018 23:20
                 832.4177856 6.314788818 735.4284025 61.00725174
12 01 2018 23:30
                 752.1906128 6.212303162 697.983012 61.24840164
12 01 2018 23:40
                 552.4729004 5.646367073 512.1072167 56.70261002
12 01 2018 23:50 678.5598755 6.024518013 632.2922649 57.3397789
13 01 2018 00:00
                 777.2919922 6.258107185 714.5788295 60.68690872
13 01 2018 00:10 875.7213135 6.326229095 739.678624 55.81758881
13 01 2018 00:20 659.1486206 5.796611786 558.5118617 54.75746155
```

```
13 01 2018 00:30 639.2755737 5.897904873 591.0836253 53.02251816
13 01 2018 00:40 685.5474243 6.024456024 632.2712023 52.58990097
13 01 2018 00:50
                 574.6569214 5.658778191 515.8563364 51.86700058
13 01 2018 01:00 855.3972168 6.425879955 777.3015843 57.33806992
13 01 2018 01:10 969.8280029 6.653855801 867.5004762 57.78741837
13 01 2018 01:20 923.2561035 6.516151905 812.3234018 57.43635178
13 01 2018 01:30
                 930.7728882 6.542150021 822.5772387 58.94919968
13 01 2018 01:40
                 1014.497009 6.647768021 865.0157048 57.08433914
13 01 2018 01:50
                 785.163208 6.188592911 689.4806749 54.43610001
13 01 2018 02:00
                 951.3074951 6.459283829 790.1560799 51.45763016
13 01 2018 02:10
                 953.6461182 6.460101128 790.4721321 54.4936409
13 01 2018 02:20
                 1070.036011 6.764049053 913.2175461 53.46863174
13 01 2018 02:30
                 1072.849976 6.887567997 966.1686673 56.67377853
13 01 2018 02:40
                 1154.293945 7.018945217 1024.540082 54.07608032
                 1527.715942 7.497120857 1256.490513 50.88619995
13 01 2018 02:50
13 01 2018 03:00
                 1060.425049 6.865095139 956.3979391 55.8483696
13 01 2018 03:10
                 1679.468994 7.925416946 1487.579638 56.38336182
13 01 2018 03:20 1425.993042 7.385661125 1199.509033 53.3940506
13 01 2018 03:30 1928.474976 8.42654705 1782.896509 58.71728897
13 01 2018 03:40 2247.176025 8.900672913 2080.166303 61.75883102
13 01 2018 03:50 2120.371094 8.474825859 1812.492679 58.99298096
                 1928.779053 8.117819786 1598.171801 58.81710815
13 01 2018 04:00
13 01 2018 04:10
                 2149.746094 8.462077141 1804.660415 57.5080719
13 01 2018 04:20
                 1987.137939 8.483652115 1817.922168 57.48067093
13 01 2018 04:30 2182.110107 8.708120346 1957.796448 54.40100861
13 01 2018 04:40 2750.666016 10.20090008 2910.821345 59.55500031
13 01 2018 04:50 2709.11499 10.23466969 2929.590444 60.15219116
13 01 2018 05:00 2611.797119 9.970438957 2773.584374 58.86643982
13 01 2018 05:10 2800.270996 10.50901031 3070.073268 59.10416031
13 01 2018 05:20 2522.948975 9.640219688 2547.325398 59.10845947
13 01 2018 05:30 2831.955078 10.4998703 3065.726157 59.01985931
13 01 2018 05:40 2410.61499 9.306689262 2343.275341 58.24116135
13 01 2018 05:50 2732.243896 10.27982998 2954.172332 59.82239914
13 01 2018 06:00 2527.843018 9.684203148 2579.586679 59.28673172
13 01 2018 06:10 2882.062988 10.53862953 3084.007748 59.7088089
                 2825.146973 10.46525955 3049.061705 60.14799881
13 01 2018 06:20
13 01 2018 06:30
                 2538.644043 9.6911726
                                         2584.636997 63.81800079
13 01 2018 06:40
                 2744.648926 10.12845039 2869.41724 65.69651031
13 01 2018 06:50 2775.337891 10.11373997 2860.818597 64.39724731
13 01 2018 07:00 2441.510986 9.372876167 2386.597838 65.15235901
13 01 2018 07:10 2717.62207 9.90581131 2732.133706 66.02813721
13 01 2018 07:20 3216.736084 11.16792965 3328.565529 68.97000122
13 01 2018 07:30 3293.707031 11.37322044 3388.891971 68.5474472
13 01 2018 07:40 3334.822998 11.11872959 3312.770487 66.55355072
13 01 2018 07:50 3367.904053 11.37403011 3389.112533 65.95033264
13 01 2018 08:00
                 3342.840088 11.2989502 3368.087396 67.25440216
                 3564.530029 12.07608032 3533.288126 66.07450104
13 01 2018 08:10
                 3486.74707 12.17994976 3547.201064 67.56646729
13 01 2018 08:20
13 01 2018 08:30 3393.919922 11.23400974 3348.954665 65.70890808
13 01 2018 08:40
                 3212.25293 10.77789021 3188.252467 65.92312622
13 01 2018 08:50
                 3281.011963 11.09700966 3305.628404 64.09909058
13 01 2018 09:00
                 3303.51709 11.67292023 3461.663849 63.44781876
13 01 2018 09:10
                 3361.974121 11.72784996 3473.13764 63.63703918
13 01 2018 09:20
                 3185.899902 11.12858963 3315.978389 61.02930069
13 01 2018 09:30
                 3384.829102 11.47408009 3415.348524 64.5462265
13 01 2018 09:40
                 3477.148926 11.54854012 3433.584927 65.38469696
13 01 2018 09:50
                 3349.049072 11.40839958 3398.352254 64.05818176
13 01 2018 10:00 3333.413086 11.65450954 3457.692437 64.41280365
13 01 2018 10:10 3445.048096 11.94126987 3512.520702 64.44513702
```

```
13 01 2018 10:20 3241.427979 10.74057961 3172.946906 61.23548126
                 3419.26001 11.61781025 3449.585612 60.75767899
13 01 2018 10:30
                 3497,623047 12,41837025 3572,517761 61,90393829
13 01 2018 10:40
13 01 2018 10:50 3480.658936 12.50769043 3579.702355 62.72647095
13 01 2018 11:00 3595.883057 13.27252007 3600 60.20809937
13 01 2018 11:10 3603.353027 14.31540012 3600 61.23696899
13 01 2018 11:20 3566.25708 13.68109989 3600 62.01570129
13 01 2018 11:30 3518.574951 12.40122032 3570.997055 64.19917297
13 01 2018 11:40
                 3538.774902 12.18190956 3547.446443 62.36317062
13 01 2018 11:50
                 3509.978027 11.98581028 3519.726241 61.96212006
13 01 2018 12:00 3504.562012 11.75576019 3478.754229 56.20531845
13 01 2018 12:10 3240.913086 11.14729977 3322.006972 56.17626953
13 01 2018 12:20 3477.295898 11.92885017 3510.450189 55.23878098
13 01 2018 12:30 3584.623047 12.56774044 3583.84637 56.02552032
13 01 2018 12:40 3541.718018 12.24913979 3555.485141 54.56803894
13 01 2018 12:50 3596.51709 13.79876995 3600 58.38399887
13 01 2018 13:00 3603.510986 14.54133034 3600 60.92969894
13 01 2018 13:10 3603.240967 13.22397041 3600 60.42744064
13 01 2018 13:20 3591.968994 12.72951984 3592.317574 57.48976135
                             13.00990009 3600 58.09407043
13 01 2018 13:30 3597.1521
13 01 2018 13:40 3602.552002 13.17430019 3600 57.13282013
                 3603.283936 14.56233025 3600 58.18450928
13 01 2018 13:50
13 01 2018 14:00
                 3596.761963 13.27194977 3600
                                              56.78237915
13 01 2018 14:10 3603.187988 13.89455986 3600 57.52222824
13 01 2018 14:20 3603.208984 14.24139977 3600 59.78976822
13 01 2018 14:30 3603.465088 15.25516987 3600 58.40953064
13 01 2018 14:40 3603.428955 14.51130009 3600 58.40116882
13 01 2018 14:50 3602.49707 14.1917696 3600 57.62599945
13 01 2018 15:00 3361.237061 11.82894039 3492.807956 55.31911087
13 01 2018 15:10 3273.246094 11.05809975 3292.571766 53.0735817
13 01 2018 15:20 3542.863037 12.60968018 3586.417327 54.73162079
13 01 2018 15:30 3487.496094 12.11124992 3538.199635 54.45265961
13 01 2018 15:40 3574.583008 13.7750597 3600 56.21313095
13 01 2018 15:50 3602.365967 14.24847984 3600 57.4250412
13 01 2018 16:00 3535.250977 12.70769978 3591.401532 49.59299088
13 01 2018 16:10 3520.308105 11.78859043 3485.178862 51.86394882
13 01 2018 16:20 3332.406982 11.86291981 3499.006295 49.87722015
13 01 2018 16:30 3125.794922 10.69172001 3152.381183 49.18434906
13 01 2018 16:40 3411.551025 11.87852955 3501.784951 48.0120697
13 01 2018 16:50 3455.426025 13.09630013 3600 48.49927139
13 01 2018 17:00 3588.051025 14.00069046 3600 50.69002914
13 01 2018 17:10 3601.75708 13.25885963 3600 49.93661118
13 01 2018 17:20 3573.041016 13.15999031 3600 49.53741837
13 01 2018 17:30 3590.634033 12.94499016 3597.645262 49.57402039
13 01 2018 17:40 3596.047119 13.17527962 3600 49.7231102
13 01 2018 17:50 3364.819092 11.47916985 3416.629754 47.85671997
13 01 2018 18:00
                 3549.249023 12.64048958 3588.137943 50.12448883
                 3589.814941 13.4467001 3600 46.57157898
13 01 2018 18:10
13 01 2018 18:20
                 3565.314941 13.52460957 3600 48.8921814
13 01 2018 18:30
                 3600.818115 14.80070972 3600 50.32587814
13 01 2018 18:40
                 3573.712891 13.25946999 3600 50.21089172
13 01 2018 18:50
                 3589.271973 13.21625996 3600 47.98741913
13 01 2018 19:00
                 3510.754883 13.79454994 3600 49.19858932
13 01 2018 19:10
                 3587.754883 12.87992954 3596.742319 47.12118149
13 01 2018 19:20
                 3504.685059 12.3499403 3566.175638 45.75968933
13 01 2018 19:30
                 3506.226074 12.93515968 3597.547626 44.56708145
13 01 2018 19:40 3445.996094 12.07015038 3532.439574 47.51438904
13 01 2018 19:50 3574.688965 13.46568012 3600 49.15068054
13 01 2018 20:00 3488.87207 13.05311012 3600 40.79841995
```

```
13 01 2018 20:10 3503.958008 13.05714989 3600 40.75283813
                 3347.790039 12.62246037 3587.148282 47.54833984
13 01 2018 20:20
13 01 2018 20:30
                 3112.788086 11.55035973 3434.017043 43.33140945
13 01 2018 20:40 3327.906006 14.32791042 3600 41.61008072
13 01 2018 20:50 2640.381104 11.99260998 3520.796173 42.48521042
13 01 2018 21:00 2054.148926 11.55994034 3436.281653 44.16669083
13 01 2018 21:10 1908.331055 11.7164402 3470.800339 39.55644989
13 01 2018 21:20 1835.322998 11.90598965 3506.568679 41.32086945
13 01 2018 21:30 1805.360962 12.28993988 3560.007524 43.52746964
                 1793.901001 13.28411007 3600 43.68220139
13 01 2018 21:40
13 01 2018 21:50
                 1765.411011 13.92677975 3600 43.62179947
13 01 2018 22:00 980.9821167 14.87893009 3600 42.4589386
13 01 2018 22:10
                 364.214386 14.01292992 3600 44.84909821
13 01 2018 22:20 372.1028137 12.56439018 3583.629568 41.90797043
13 01 2018 22:30 357.2691956 13.0060997 3600 43.64702988
13 01 2018 22:40 361.2538147 12.19260025 3548.77392 42.76771927
13 01 2018 22:50 367.8652039 12.55897999 3583.275882 40.37134171
13 01 2018 23:00 360.869812 12.75306034 3593.227445 39.18413925
13 01 2018 23:10 359.9920959 13.45409012 3600 37.67650986
13 01 2018 23:20 359.2060852 14.73820972 3600 35.0669899
13 01 2018 23:30 372.7349854 14.24145031 3600 35.03020096
13 01 2018 23:40 379.5581055 14.0689497 3600 34.63983917
13 01 2018 23:50
                 383.7080078 14.54494953 3600
                                              33.96102905
14 01 2018 00:00
                 390.6116943 14.9113903 3600
                                              34.16986084
14 01 2018 00:10 397.6158142 16.84382057 3600 34.92731857
14 01 2018 00:20 417.4453125 16.13022041 3600 35.56703186
14 01 2018 00:30 884.4188843 16.28726959 3600 34.99151993
14 01 2018 00:40 824.1192017 15.24129963 3600
                                              35.74425888
14 01 2018 00:50 794.0396118 16.45137978 3600
                                              34.79402924
14 01 2018 01:00
                 1217.884033 16.08036041 3600 34.08831024
14 01 2018 01:10 1284.390991 16.75053978 3600 35.02362061
14 01 2018 01:20 1074.524048 15.55852985 3600 35.96804047
14 01 2018 01:30 712.5662231 14.35068989 3600 35.29277039
                                              35.41324997
14 01 2018 01:40 407.4122009 14.52583027 3600
14 01 2018 01:50 473.2986145 15.05801964 3600
                                              34.69889069
14 01 2018 02:00 434.6236877 14.74473
                                        3600
                                              34.17552948
                 769.1849976 15.16473007 3600
14 01 2018 02:10
                                              35.12015915
                 1222.276001 16.77611923 3600 35.41564178
14 01 2018 02:20
14 01 2018 02:30 934.4776001 15.51206017 3600 35.11315918
14 01 2018 02:40 848.7230225 15.69180012 3600 34.27190018
14 01 2018 02:50 983.6571045 15.95460033 3600 34.52136993
14 01 2018 03:00 1241.894043 16.08058929 3600 34.24098969
14 01 2018 03:10 761.7824707 14.67790031 3600
                                              34.76691055
14 01 2018 03:20 809.8361816 15.81194019 3600 33.81533813
14 01 2018 03:30 789.6798096 14.57791996 3600 36.8608284
14 01 2018 03:40 495.2713928 12.87786007 3596.703647 37.74750137
                 761.8853149 13.96817017 3600 38.27212906
14 01 2018 03:50
                 788.5352173 13.5261898 3600 36.8366394
14 01 2018 04:00
14 01 2018 04:10
                 794.2363281 14.78370953 3600 31.48656082
14 01 2018 04:20
                 1020.682007 15.41481018 3600 34.28353882
14 01 2018 04:30
                 555.5546265 12.18725967 3548.113111 33.77355957
                 1046.828979 15.75191975 3600 35.82662964
14 01 2018 04:40
14 01 2018 04:50
                 987.7667236 15.36734962 3600
                                              35.60588074
14 01 2018 05:00
                 552.2199707 14.06523991 3600 43.71318817
14 01 2018 05:10
                 706.6343994 14.93432999 3600 40.80258179
14 01 2018 05:20 602.6843262 14.88002014 3600
                                              39.98149109
14 01 2018 05:30 404.8211975 14.54804039 3600 39.88174057
14 01 2018 05:40 460.986908 14.40456963 3600 40.58980179
14 01 2018 05:50 414.019104 12.66975975 3589.641543 38.44348907
```

```
14 01 2018 06:00 501.5857849 14.80443001 3600
                                                37.47980118
14 01 2018 06:10
                  518.3956299 15.60114956 3600
                                                37.58007813
14 01 2018 06:20
                  627.5477295 14.50531006 3600
                                                 36.54468155
14 01 2018 06:30
                  493.6169128 15.37574959 3600
                                                38.20352936
                  634.0880127 16.33338928 3600
14 01 2018 06:40
                                                37.30873871
14 01 2018 06:50
                  487.1355896 15.58170033 3600
                                                37.51622009
14 01 2018 07:00
                  437.7571106 15.25695038 3600
                                                 38.96178818
                  414.5194092 14.85155964 3600
                                                39.32688904
14 01 2018 07:10
14 01 2018 07:20
                  391.6643066 14.63654995 3600
                                                37.80945969
14 01 2018 07:30
                  386.2250061 14.40452003 3600
                                                 36.60818863
14 01 2018 07:40
                  372.7309875 13.85463047 3600
                                                37.53295898
14 01 2018 07:50
                  270.4981079 10.88652992 3230.890633 36.34542084
14 01 2018 08:00
                  373.1335144 14.06085014 3600 27.7726593
14 01 2018 08:10
                  342.9891968 12.93976021 3597.595033 29.35014915
14 01 2018 08:20
                  312.3088074 12.92605972 3597.444959 31.59255981
14 01 2018 08:30
                  274.6456909 12.12745953 3540.393879 31.21907043
14 01 2018 08:40
                  69.43295288 9.36560154 2381.832452 35.63309097
14 01 2018 08:50
                  0
                        8.401481628 1767.600801 29.10919952
                  0
14 01 2018 09:00
                        9.14452076 2237.543467 37.85874176
                        8.185569763 1637.987649 34.90937042
14 01 2018 09:10
                  0
14 01 2018 09:20
                        9.578113556 2500.613454 40.11478043
                  0
                        8.163620949 1625.041327 36.97612
14 01 2018 09:30
                  0
14 01 2018 09:40
                  0
                        7.962027073 1508.326682 32.96733093
14 01 2018 09:50
                  0
                        8.796590805 2013.778088 36.1198616
14 01 2018 10:00
                        8.482584953 1817.265398 41.16703033
14 01 2018 10:10
                        8.317223549 1716.550344 34.05998993
14 01 2018 10:20
                        8.335401535 1727.515102 37.6059494
14 01 2018 10:30
                        8.99559021 2141.148467 40.445961
                  0
14 01 2018 10:40
                        9.313090324 2347.46154 40.00152969
                  0
14 01 2018 10:50
                        9.201218605 2274.431775 40.09719086
                  0
                        6.790811062 924.5351663 34.42786026
14 01 2018 11:00
                  0
14 01 2018 11:10
                  0
                        7.764335155 1398.068422 34.96833038
14 01 2018 11:20
                        8.353866577 1738.680929 42.64208984
14 01 2018 11:30
                  0
                        8.122333527 1600.810926 35.15446091
                        8.074152946 1572.742725 32.48828888
14 01 2018 11:40
                  0
14 01 2018 11:50
                  0
                        9.108490944 2214.152666 37.22615814
14 01 2018 12:00
                  0
                        9.059758186 2182.583869 37.99967957
14 01 2018 12:10
                        9.142354965 2236.136261 41.76792145
14 01 2018 12:20
                        8.225179672 1661.463074 29.31142998
14 01 2018 12:30
                        8,498535156 1827,090366 27,48994064
14 01 2018 12:40
                        8.433703423 1787.27244 33.45024872
                  0
                        8.86438942 2056.962367 32.77566147
14 01 2018 12:50
                  0
14 01 2018 13:00
                        9.078632355 2194.800658 38.38587189
                  0
14 01 2018 13:10
                  0
                        8.058984756 1563.953653 34.80270004
                  0
                        8.850280762 2047.956768 37.18317032
14 01 2018 13:20
14 01 2018 13:30
                        8.962948799 2120.133406 40.50806046
14 01 2018 13:40
                  0
                        9.863484383 2704.256962 41.54568863
                        9.209749222 2279.98973 41.98246002
14 01 2018 13:50
                  0
                        8.370439529 1748.72624 38.5225296
14 01 2018 14:00
                  0
14 01 2018 14:10
                  0
                        8.026825905 1545.396043 29.52610016
14 01 2018 14:20
                  0
                        7.377861023 1195.591043 28.14355087
14 01 2018 14:30
                        8.337305069 1728.664877 42.20000839
14 01 2018 14:40
                        7.911658764 1479.820364 40.30070114
14 01 2018 14:50
                        7.558808804 1288.381928 38.66210175
                  0
14 01 2018 15:00
                        7.495349884 1255.570347 37.62543106
                  0
14 01 2018 15:10
                  0
                        7.098223209 1060.825061 47.04636002
14 01 2018 15:20
                  0
                        7.516695023 1266.577774 39.07281876
                  0
                        6.700274944 886.5869604 46.56819153
14 01 2018 15:30
                        6.554094791 827.313671 33.70289993
14 01 2018 15:40
```

```
6.699398041 886.2240912 40.19517899
14 01 2018 15:50
                  0
14 01 2018 16:00
                        7.355926991 1184.621443 38.99795914
                  0
14 01 2018 16:10
                  0
                        7.047657013 1037.587262 39.30503082
14 01 2018 16:20
                  0
                        7.063658237 1044.904653 43.50098038
                  0
14 01 2018 16:30
                        6.547071934 824.5269776 45.45848083
14 01 2018 16:40
                        6.800784111 928.7744927 47.87088013
14 01 2018 16:50
                  0
                        7.227163792 1121.61777 39.8878212
                        6.855557919 952.2699272 39.58526993
14 01 2018 17:00
                  0
14 01 2018 17:10
                  0
                        8.590323448 1883.978376 39.34862137
                        7.157615185 1088.548847 38.8070488
14 01 2018 17:20
                  0
14 01 2018 17:30
                        8.295837402 1703.685899 41.72262955
                  0
14 01 2018 17:40
                        8.375053406 1751.526771 44.9650116
14 01 2018 17:50
                        8.770921707 1997.4907
                                                 40.77135086
14 01 2018 18:00
                  0
                        5.420444965 446.4029345 47.34819031
14 01 2018 18:10
                        6.927756786 983.7962732 47.86531067
                  0
14 01 2018 18:20
                  0
                        6.940579891 989.4627483 45.60234833
14 01 2018 18:30
                  0
                        6.575778008 835.9525832 44.23175812
14 01 2018 18:40
                  0
                        5.602359772 498.9332091 51.18167114
                  0
14 01 2018 18:50
                        6.51448679 811.6692368 49.29079056
14 01 2018 19:00
                  0
                        7.52503109 1270.874877 45.8418808
                        6.284493923 724.2417389 41.21794128
14 01 2018 19:10
                  0
14 01 2018 19:20
                        6.178379059 685.8366154 58.09236145
                  0
14 01 2018 19:30
                  0
                        5.279471874 407.7410175 49.10543823
14 01 2018 19:40
                  0
                        5.709410191 531.3067218 61.35261154
14 01 2018 19:50
                        5.895658016 590.3495957 61.93498993
14 01 2018 20:00
                        6.117278099 664.2703393 63.35321045
14 01 2018 20:10
                        5.119966984 366.0276243 67.2412262
14 01 2018 20:20
                        6.086036205 653.3973461 69.75910187
                  0
14 01 2018 20:30
                  0
                        5.806790829 561.7374134 72.06596375
                        5.821589947 566.4458104 76.4803009
14 01 2018 20:40
                  0
                        5.136239052 370.1878351 78.27011108
14 01 2018 20:50
                  0
14 01 2018 21:00
                  0
                        5.403010845 441.5271055 79.54450226
14 01 2018 21:10
                  0
                        6.15286684 676.783239 71.10932159
14 01 2018 21:20
                        5.827418804 568.3064281 69.65046692
                  0
14 01 2018 21:30
                        6.340551853 745.0197015 62.77088165
                  0
                        6.49810791 805.2509854 62.2186203
14 01 2018 21:40
                  0
14 01 2018 21:50
                  0
                        6.497231007 804.908201 59.12168884
14 01 2018 22:00
                  0
                        7.441709995 1227.928189 54.88862991
14 01 2018 22:10
                        7.241793156 1128.658239 59.81610107
                        7.762310982 1396.962711 58.4987793
14 01 2018 22:20
14 01 2018 22:30
                        6.896508217 970.0728452 65.93628693
                  0
14 01 2018 22:40
                        7.413292885 1213.460888 64.12718201
                  0
14 01 2018 22:50
                        6.994734764 1013.620344 68.99236298
                  0
14 01 2018 23:00
                  0
                        6.171788216 683.4910879 64.37480927
                  0
                        7.472651958 1243.81974 64.10782623
14 01 2018 23:10
14 01 2018 23:20
                        7.022267818 1026.044522 65.2266922
14 01 2018 23:30
                  0
                        8.374314308 1751.078039 65.83439636
                        7.586606026 1302.902557 66.03292084
14 01 2018 23:40
                  0
14 01 2018 23:50
                  0
                        7.447021008 1230.645543 61.54013824
15 01 2018 00:00
                  0
                        6.966258049 1000.871434 64.90618896
15 01 2018 00:10
                  0
                        7.724925995 1376.629419 64.41042328
15 01 2018 00:20
                        7.617459774 1319.137824 68.24172211
15 01 2018 00:30
                        7.39862299 1206.039642 71.06352234
15 01 2018 00:40
                        7.692293167 1359.019586 72.47062683
                  0
15 01 2018 00:50
                        6.897043228 970.3067944 67.85771942
                  0
15 01 2018 01:00
                  0
                        7.388737202 1201.056612 64.08245087
15 01 2018 01:10
                  0
                        8.220582008 1658.730911 70.1979599
                  0
                        8.529285431 1846.083385 68.14996338
15 01 2018 01:20
                        7.667794228 1345.885532 68.8611908
15 01 2018 01:30
```

```
15 01 2018 01:40
                         7.556605816 1287.23549 71.72055817
                  0
15 01 2018 01:50
                         7.140810013 1080.656622 70.82097626
                  0
15 01 2018 02:00
                  0
                         7.036448956 1032.481501 78.33944702
15 01 2018 02:10
                  0
                         7.618653774 1319.768579 74.93755341
                  0
15 01 2018 02:20
                         6.857717991 953.2039088 77.28336334
15 01 2018 02:30
                         6.600828171 845.9988956 74.32331848
15 01 2018 02:40
                  0
                         7.167777061 1093.339594 75.1857605
                         6.400777817 767.7223213 76.72173309
15 01 2018 02:50
                  0
15 01 2018 03:00
                  0
                         7.113031864 1067.693812 74.63256836
                         6.059624195 644.2866231 71.69371033
15 01 2018 03:10
                  0
15 01 2018 03:20
                         6.41905117 774.6888111 70.43406677
                  0
15 01 2018 03:30
                         6.382071018 760.6283755 69.53138733
15 01 2018 03:40
                         5.802290916 560.3101748 73.83635712
15 01 2018 03:50
                         6.960810184 998.444079 72.1650238
15 01 2018 04:00
                         6.319869995 737.3143823 72.19329071
                  0
15 01 2018 04:10
                  0
                         6.461078167 790.850053 73.43054199
15 01 2018 04:20
                  0
                         6.704220772 888.2208765 73.99960327
15 01 2018 04:30
                  0
                         6.411843777 771.9367186 75.38372803
                  0
15 01 2018 04:40
                         6.41991806 775.0202102 72.54876709
15 01 2018 04:50
                  0
                         5.804008007 560.8545419 75.54711151
                        5.49843502 468.5498184 71.55766296
15 01 2018 05:00
                  0
                        5.071679115 353.8059873 76.8674469
15 01 2018 05:10
                  0
15 01 2018 05:20
                  0
                        4.449114799 211.3060004 78.3552475
15 01 2018 05:30
                  0
                        4.340175152 188.9147366 83.45124054
15 01 2018 05:40
                        4.52226305 226.7269636 85.7180481
15 01 2018 05:50
                         3.839785099 99.29224417 85.30522156
15 01 2018 06:00
                        4.619813919 247.8000976 85.34194946
15 01 2018 06:10
                                     157.3852716 76.69242096
                  0
                         4.1811409
15 01 2018 06:20
                  0
                         4.206710815 162.3663259 84.81124115
                         3.991852999 126.4410856 81.0700531
15 01 2018 06:30
                  0
15 01 2018 06:40
                  0
                         2.882282972 0
                                           72.75361633
15 01 2018 06:50
                  0
                        2.308273077 0
                                           81.60785675
15 01 2018 07:00
                        2.361095905 0
                                           111.5421982
15 01 2018 07:10
                        2.063914061 0
                                           120.5155029
                  0
15 01 2018 07:20
                        2.544576883 0
                  0
                                           121.1212997
15 01 2018 07:30
                  0
                         2.547313929 0
                                           125.2582016
15 01 2018 07:40
                  0
                         2.864016056 0
                                           122.6313019
15 01 2018 07:50
                        3.715559959 79.86000314 127.3713989
15 01 2018 08:00
                        3.60780406 65.00379195 128.7772064
15 01 2018 08:10
                         2.877650023 0
                                           121.5851974
15 01 2018 08:20
                        2.490953922 0
                                           137.9891968
                  0
15 01 2018 08:30
                         3.779248953 89.51428094 143.6979065
                  0
15 01 2018 08:40
                         3.474320889 49.17669286 149.4940033
                  0
15 01 2018 08:50
                  0
                         3.875819921 105.3910803 130.0968933
                  0
                         3.158132076 23.06068672 140.565094
15 01 2018 09:00
15 01 2018 09:10
                         3.064233065 18.385529
                                                 158.5328979
15 01 2018 09:20
                  0
                        2.570329905 0
                                           149.0641937
15 01 2018 09:30
                  0
                        2.662580967 0
                                           148.2658997
15 01 2018 09:40
                  0
                         2.768019915 0
                                           163.3097992
15 01 2018 09:50
                  0
                         2.264162064 0
                                           160.0016937
15 01 2018 10:00
                  0
                         2.164356947 0
                                           155.5923004
15 01 2018 10:10
                         1.848634958 0
                                           147.204895
15 01 2018 10:20
                         1.302652955 0
                                           144.0800018
15 01 2018 10:30
                        1.657750964 0
                                           135.6408997
                  0
15 01 2018 10:40
                                           115.5319977
                  0
                        1.830906034 0
15 01 2018 10:50
                  0
                        2.424906969 0
                                           137.3430023
15 01 2018 11:00
                  0
                        1.407426953 0
                                           135.7205048
15 01 2018 11:10
                  0
                        1.419661045 0
                                           110.7216034
15 01 2018 11:20
                        2.291460037 0
                                           160.2574005
```

```
15 01 2018 11:30
                        3.140239954 22.0610581 161.2789001
                  0
15 01 2018 11:40
                        4.008918762 124.6576647 147.1768951
                  0
15 01 2018 11:50
                        3.796623945 92.26074306 144.0438995
                  0
15 01 2018 12:00
                  0
                        3.14835
                                    22,50781782 157,8905945
15 01 2018 12:10
                  0
                        2.616970062 0
                                          150.6018982
15 01 2018 12:20
                        2.636298895 0
                                          176.6383057
15 01 2018 12:30
                  0
                        3.064409971 18.39301063 212.8338928
                        3.198503971 25.5044332 206.8043976
15 01 2018 12:40
                  0
15 01 2018 12:50
                  0
                        1.772997022 0
                                          237.5569
15 01 2018 13:00
                  0
                        2.570558071 0
                                          255.3050995
15 01 2018 13:10
                                          252.9965973
                  Θ
                        2.886101007 0
15 01 2018 13:20
                        1.95826304 0
                                          278.8612061
15 01 2018 13:30
                        0.916517317 0
                                          337.4909973
                                          195.2696991
15 01 2018 13:40
                        0.359423012 0
15 01 2018 13:50
                        0.523714185 0
                                          96.9766922
                  0
15 01 2018 14:00
                  0
                        1.630602956 0
                                          70.9460907
15 01 2018 14:10
                  0
                        2.147983074 0
                                          87.5893631
15 01 2018 14:20
                  0
                        2.902334929 0
                                          74.39350891
15 01 2018 14:30
                  0
                        2.439929962 0
                                          95.12669373
15 01 2018 14:40
                  0
                        1.432919979 0
                                          118.5445023
15 01 2018 14:50
                        1.357926011 0
                                          140.0173035
                  0
15 01 2018 15:00
                  0
                        1.543877959 0
                                          138.7593994
15 01 2018 15:10
                  0
                        1.881615043 0
                                          158.658493
15 01 2018 15:20
                  0
                        2.20945406 0
                                          163.686203
15 01 2018 15:30
                  0
                        2.359036922 0
                                          169.212204
15 01 2018 15:40
                        2.442393064 0
                                          174.5366974
15 01 2018 15:50
                        2.869776964 0
                                          184.3063965
15 01 2018 16:00
                        3.810376883 94.46891558 185.1461945
                  0
15 01 2018 16:10
                  4.390997887 4.096646786 141.1543302 161.8722992
                                    2.636616945 0
15 01 2018 16:20
                  -0.269599408
                                                      149.6419983
15 01 2018 16:30
                  0
                        2.829303026 0
                                          157.0444031
15 01 2018 16:40
                  0
                        3.691612005 76.39775743 160.2812958
15 01 2018 16:50
                        3.833004951 98.16793838 185.2707977
15 01 2018 17:00
                  13.64013958 4.180531025 157.2668669 199.2545013
                  262.8027954 5.000227928 336.0555964 191.2433014
15 01 2018 17:10
                  304.9075012 5.197075844 385.9313252 187.9622955
15 01 2018 17:20
                  548.1334229 6.02660799 633.0026375 187.4524994
15 01 2018 17:30
                  747.8093262 6.615736008 852.0113607 187.384903
15 01 2018 17:40
15 01 2018 17:50
                  593.5028076 6.224112988 702.2404232 190.8246002
                  773.6442261 6.628953934 857.3633904 195.1253052
15 01 2018 18:00
15 01 2018 18:10
                  1142.384033 7.460888863 1237.761135 195.8215027
15 01 2018 18:20 811.3214111 6.785480976 922.2743119 197.9134979
15 01 2018 18:30
                  853.4119263 6.972999096 1003.880139 201.570694
15 01 2018 18:40
                  1054.509033 7.238627911 1127.132429 197.4566956
15 01 2018 18:50
                  1694.58606 8.038964272 1552.388304 195.5261993
15 01 2018 19:00
                  1201.56897 6.834468842 943.1809827 197.9452972
                  997.3594971 6.576204777 836.1231451 202.8444061
15 01 2018 19:10
                  1163.276001 6.982643127 1008.194467 201.5675964
15 01 2018 19:20
                  2067.144043 8.602573395 1891.613856 204.6177979
15 01 2018 19:30
15 01 2018 19:40
                  1617.161011 7.571663857 1295.084495 211.2463074
15 01 2018 19:50
                  1778.948975 7.908737183 1478.175331 210.7736969
15 01 2018 20:00
                  2133.7229
                              8.690729141 1946.844401 208.513504
15 01 2018 20:10
                  2750.625977 10.1298399 2870.22607
                                                      202.9557037
15 01 2018 20:20
                  2660.141113 9.667714119 2567.571134 201.0527954
15 01 2018 20:30
                  2339.496094 9.104892731 2211.81899 201.758194
15 01 2018 20:40
                  2175.629883 8.949515343 2111.497719 202.8106995
15 01 2018 20:50
                  2613.375977 9.499038696 2469.357551 201.6004944
15 01 2018 21:00 2602.799072 9.438357353 2429.528046 201.0258026
15 01 2018 21:10 2456.895996 9.19630146 2271.229
                                                      200.5299072
```

```
15 01 2018 21:20 2152.070068 8.751609802 1985.26072 202.9412994
15 01 2018 21:30
                  1471.972046 7.307071209 1160.438821 208.7879944
15 01 2018 21:40
                  1297.355957 6.636927128 860.6014172 211.6692963
15 01 2018 21:50
                  1544.625977 7.402042866 1207.766837 203.5269928
15 01 2018 22:00
                  1973.077026 8.430728912 1785.45313 198.1804962
15 01 2018 22:10
                  1876.155029 8.197203636 1644.86783 197.7684021
15 01 2018 22:20
                  2111.325928 8.523535728 1842.526964 197.1273956
                  2636.720947 9.728786469 2611.604753 198.873703
15 01 2018 22:30
                  2424.063965 9.30484581 2342.069904 202.2718964
15 01 2018 22:40
15 01 2018 22:50
                              8.884821892 2070.021607 205.2698059
                  2234.0979
15 01 2018 23:00
                  2467.947021 9.179303169 2260.162348 200.7848969
15 01 2018 23:10
                  3099.246094 10.41011047 3021.837387 195.8871002
15 01 2018 23:20
                  3395.185059 10.97842026 3264.769553 195.9897003
15 01 2018 23:30
                  3601.068115 11.52194023 3427.194696 196.5151978
                  3601.423096 11.70464039 3468.357848 197.6907043
15 01 2018 23:40
15 01 2018 23:50
                  3602.636963 12.3526001 3566.435873 196.6466064
                  735.859375 12.19797993 3549.434858 202.4118042
16 01 2018 00:00
16 01 2018 00:10
                  966.7770996 12.21065998 3550.974037 197.4669037
                  1274.192993 12.19845963 3549.493563 196.6125031
16 01 2018 00:20
16 01 2018 00:30
                  1331.803955 12.1217804 3539.630082 196.1728058
16 01 2018 00:40
                  3603.394043 11.9162302 3508.318735 192.2745056
                  3603.468994 12.22947979 3553.210301 192.2713013
16 01 2018 00:50
                  3603.320068 12.07847977 3533.629797 192.3161011
16 01 2018 01:00
16 01 2018 01:10
                  2358.170898 12.63879967 3588.04724 197.6795959
16 01 2018 01:20
                        11.88078022 3502.182033 203.6278992
16 01 2018 01:30
                  2393.478027 12.51523018 3580.252767 199.8388977
16 01 2018 01:40
                  193.2451935 13.33518982 3600 207.2655029
                        13.49009037 3600 207.655304
16 01 2018 01:50
                        12.15231991 3543.674519 205.2014008
16 01 2018 02:00
                  0
                        12.94779015 3597.670552 202.5529022
16 01 2018 02:10
                  0
                        13.11388969 3600 204.7093964
16 01 2018 02:20
                  0
16 01 2018 02:30
                  0
                        12.81694984 3595.289066 206.5731964
16 01 2018 02:40
                        12.71854973 3591.865785 202.9557037
16 01 2018 02:50
                  0
                        12.54528999 3582.36113 202.4994965
16 01 2018 03:00
                  0
                        12.87156963 3596.582318 201.3482056
16 01 2018 03:10
                  0
                        12.80908012 3595.067178 200.912796
16 01 2018 03:20
                  0
                        14.41798019 3600 204.1022949
16 01 2018 03:30
                  0
                        14.51161003 3600
                                          200.9877014
16 01 2018 03:40
                        15.10974026 3600
                                          201.7736969
16 01 2018 03:50
                        14.64653015 3600
                                          202.2001038
16 01 2018 04:00
                        13.76926041 3600
                                          203.1338959
                  0
16 01 2018 04:10
                        14.50986958 3600
                                          205.7279968
                  0
16 01 2018 04:20
                        14.75465965 3600
                                          206.6273041
                  0
16 01 2018 04:30
                  0
                        14.42113972 3600
                                          205.197403
16 01 2018 04:40
                  0
                        14.39041042 3600
                                          203.9694977
16 01 2018 04:50
                        14.29782963 3600
                                          202.9429016
16 01 2018 05:00
                  0
                        14.43892956 3600
                                          201.0115051
                        14.25065994 3600
16 01 2018 05:10
                  0
                                          200.6912994
16 01 2018 05:20
                  0
                        14.86779976 3600
                                          197.6725006
16 01 2018 05:30
                  0
                        15.28781033 3600
                                          197.7398987
16 01 2018 05:40
                  0
                        15.98262024 3600
                                          202.5005951
16 01 2018 05:50
                        15.38671017 3600
                                          200.6096954
16 01 2018 06:00
                        14.73151016 3600
                                          198.558197
16 01 2018 06:10
                        14.86573029 3600
                                          201.7642059
                  0
16 01 2018 06:20
                        14.76840019 3600
                                          202.2324066
                  0
16 01 2018 06:30
                  0
                        14.61505032 3600
                                          202.9266968
16 01 2018 06:40
                  0
                        14.81783962 3600
                                          203.5419006
16 01 2018 06:50
                        14.37674046 3600
                                          197.5917053
                  0
16 01 2018 07:00
                  0
                        14.92226028 3600
                                          197.9382935
```

```
16 01 2018 07:10 0
                       15.7012701 3600 196.6611023
16 01 2018 07:20 0
                       16.35250092 3600 199.9673004
16 01 2018 07:30 0
                       16.5515995 3600 199.9002075
16 01 2018 07:40 0
                       15.73733997 3600 196.6011963
16 01 2018 07:50 0
                       15.70388031 3600 195.9080048
16 01 2018 08:00 0
                       15.57343006 3600 198.3504028
16 01 2018 08:10 0
                       15.20740986 3600 198.076004
16 01 2018 08:20 0
                       14.99372005 3600
                                         200.5552979
                       14.33990955 3600
                                         200.884903
16 01 2018 08:30 0
                       14.97805977 3600
                                         201.6358032
16 01 2018 08:40
                 0
16 01 2018 08:50 0
                       15.22004032 3600
                                         197.4564056
16 01 2018 09:00 0
                       14.68422031 3600 197.472702
16 01 2018 09:10 0
                       14.28833008 3600 201.740097
16 01 2018 09:20 0
                       14.56064987 3600 205.0498047
                       14.63941002 3600
16 01 2018 09:30 0
                                         207.8087006
16 01 2018 09:40 0
                       14.72455025 3600 209.1513977
16 01 2018 09:50 0
                       14.38152981 3600 204.5617981
16 01 2018 10:00 0
                       14.29469967 3600 205.9725952
                       13.81634045 3600 203.7274933
16 01 2018 10:10 0
16 01 2018 10:20 0
                       13.35731983 3600 203.0536041
                 18.63600922 12.36425972 3567.563505 203.411499
16 01 2018 10:30
                 3569.281982 12.87384987 3596.626956 198.5821991
16 01 2018 10:40
                 3599.916992 13.49147987 3600 199.1398926
16 01 2018 10:50
16 01 2018 11:00
                 3601.12207 13.37096024 3600 196.9474945
16 01 2018 11:10
                 3589.821045 12.84239006 3595.945008 197.486496
16 01 2018 11:20
                 3602.635986 13.49781036 3600 200.4994965
16 01 2018 11:30 3576.406006 12.50599957 3579.577728 198.4723053
16 01 2018 11:40 3602.397949 13.28374004 3600 199.8616028
16 01 2018 11:50 3602.822021 14.11594963 3600 201.9163971
                 3603.180908 14.68612957 3600 201.8706055
16 01 2018 12:00
16 01 2018 12:10 3603.4021
                             14.57304001 3600 198.8742065
16 01 2018 12:20
                 3603.23291 14.07341957 3600 198.3267975
16 01 2018 12:30
                 3592.784912 12.95011997 3597.690744 199.5431976
16 01 2018 12:40
                 3601.272949 13.32509995 3600 203.5422974
                 3603.299072 13.10575962 3600 204.0444946
16 01 2018 12:50
                 3570.888916 12.77880001 3594.129535 206.3952942
16 01 2018 13:00
                 3458.043945 12.13766956 3541.753594 205.9770966
16 01 2018 13:10
                             11.79759979 3486.907734 203.2714996
16 01 2018 13:20 3370.75
16 01 2018 13:30 3374.166016 12.14138031 3542.243494 204.283493
16 01 2018 13:40 3447.155029 12.04458046 3528.71276 204.6517944
16 01 2018 13:50 3577.974121 12.58076
                                       3584.672815 206.0720978
16 01 2018 14:00 3561.218994 12.43120956 3573.626305 207.7525024
16 01 2018 14:10 3530.797119 12.31301975 3562.44782 207.2962036
16 01 2018 14:20 3386.288086 11.92658043 3510.068891 206.3276062
16 01 2018 14:30 3016.217041 11.21467018 3343.084352 207.622406
16 01 2018 14:40 2835.499023 10.63574982 3128.083318 209.1362
16 01 2018 14:50 2918.831055 10.7528801 3178.030751 208.9882965
16 01 2018 15:00 2852.823975 10.78201008 3189.921539 210.6681976
16 01 2018 15:10 2795.666016 10.76632023 3183.542902 214.1759949
16 01 2018 15:20
                 2892.680908 10.9633503 3259.348097 211.2480011
                 2712.25
16 01 2018 15:30
                             10.44326973 3038.305875 211.4571075
16 01 2018 15:40
                 2731.766113 10.31499958 2972.91029 207.5101929
16 01 2018 15:50
                 3046.434082 10.85342026 3218.19648 204.7792969
16 01 2018 16:00
                 2996.290039 10.71560001 3162.507148 204.7814026
16 01 2018 16:10
                 2996.059082 10.75201988 3177.676437 204.0267029
16 01 2018 16:20 2866.163086 10.4693203 3051.033592 203.7722015
16 01 2018 16:30 2432.169922 9.704909325 2594.542052 204.7187042
16 01 2018 16:40 3014.375977 10.81188965 3201.902605 203.0511017
16 01 2018 16:50 3313.690918 11.46415043 3412.834196 204.527298
```

```
16 01 2018 17:00 3221.571045 11.38720989 3392.684053 206.2969971
                 3401.85498 11.67296028 3461.67242 202.7832947
16 01 2018 17:10
16 01 2018 17:20
                 3309.021973 11.29660034 3367.410521 202.3410034
16 01 2018 17:30 3422.948975 11.68258953 3463.72424 201.1634064
16 01 2018 17:40 3449.416992 11.65412045 3457.607817 199.9008026
16 01 2018 17:50 3456.697021 11.66711998 3460.419515 198.4178925
16 01 2018 18:00 3575.514893 11.97861958 3518.58614 196.6427002
16 01 2018 18:10 3218.073975 11.24368954 3351.862967 196.2572937
16 01 2018 18:20 3472.541992 11.87454033 3501.078942 196.2852936
                 3601.845947 12.52649975 3581.059305 196.1210022
16 01 2018 18:30
16 01 2018 18:40 3592.954102 12.8698101 3596.547362 195.0263062
16 01 2018 18:50 3553.63208 13.04290009 3600 193.8838959
16 01 2018 19:00 3463.230957 13.38829994 3600 193.953598
16 01 2018 19:10 3455.924072 13.62567997 3600 193.6703949
16 01 2018 19:20 3414.837891 13.81931973 3600 195.3843994
16 01 2018 19:30 3399.080078 14.08403969 3600 192.142395
16 01 2018 19:40 3435.975098 14.10758018 3600 190.9942017
16 01 2018 19:50 3515.217041 13.64091969 3600 192.392395
                            12.72906017 3592.298998 196.8992004
16 01 2018 20:00 3511.4729
16 01 2018 20:10 3410.819092 13.85383987 3600 193.2106934
16 01 2018 20:20 3393.415039 14.33559036 3600 191.5476074
16 01 2018 20:30 3384.553955 14.28040028 3600 192.4078979
16 01 2018 20:40
                 3383.665039 14.02970982 3600
                                              193.574295
16 01 2018 20:50
                 3376.096924 14.00948048 3600
                                              193.3386993
16 01 2018 21:00 3342.493896 13.47552013 3600 194.3282928
16 01 2018 21:10 3379.246094 13.58742046 3600 195.6468048
16 01 2018 21:20 3439.553955 13.52974987 3600 197.1911926
16 01 2018 21:30 3502.805908 13.72811985 3600 196.8896942
16 01 2018 21:40 3511.466064 13.41839981 3600
                                              198.4776001
16 01 2018 21:50 3501.498047 13.69849014 3600 201.2434998
16 01 2018 22:00 3506.155029 13.22169971 3600 199.9006042
16 01 2018 22:10 3525.204102 13.55132008 3600 200.5457001
16 01 2018 22:20
                 3537.735107 13.58689022 3600 201.3892975
16 01 2018 22:30 3454.733887 13.94941044 3600 202.3121033
16 01 2018 22:40 3417.082031 14.71070957 3600 203.1578064
16 01 2018 22:50
                 3413.0979
                             15.1094799 3600
                                              205.3394012
                 3417.3479
16 01 2018 23:00
                             14.6164999 3600
                                              206.017807
                 3425.706055 14.50306988 3600 207.1605072
16 01 2018 23:10
16 01 2018 23:20 3466.613037 14.56007957 3600 206.4432068
16 01 2018 23:30 3424.865967 14.56532955 3600
                                              207.9192963
16 01 2018 23:40 3430.803955 13.89834976 3600 205.901001
16 01 2018 23:50 3574.103027 12.61824989 3586.910167 203.6508026
17 01 2018 00:00 3599.269043 13.62924957 3600 206.0187988
17 01 2018 00:10 3588.791016 13.76931953 3600 205.5901947
17 01 2018 00:20 3601.230957 13.14855957 3600 203.3224945
17 01 2018 00:30
                 3602.194092 13.17136955 3600 205.3412018
17 01 2018 00:40
                 3593.00708 13.42440033 3600 206.5144043
                 3538.520996 13.74007034 3600 204.618103
17 01 2018 00:50
17 01 2018 01:00 3427.48999 14.73404026 3600
                                              202.7998962
17 01 2018 01:10
                 3409.686035 15.05389977 3600
                                              198.8659973
17 01 2018 01:20
                 3367.155029 14.98104
                                         3600
                                              197.0839996
17 01 2018 01:30
                 3382.581055 14.73960018 3600 199.9506989
17 01 2018 01:40
                 3397.214111 14.06908989 3600 202.9857025
17 01 2018 01:50
                 3494.368896 13.61635017 3600
                                              204.8968964
17 01 2018 02:00
                 3508.133057 13.33734989 3600
                                              205.0668945
17 01 2018 02:10
                 3604.131104 13.08213997 3600 206.1251068
17 01 2018 02:20 3603.601074 12.86320972 3596.412266 203.8240967
17 01 2018 02:30 3604.164063 13.03234959 3600 203.6190948
17 01 2018 02:40 3600.158936 12.64807987 3588.54009 204.1654053
```

```
17 01 2018 02:50 3600.469971 12.52616024 3581.035289 203.203598
                 3598.520996 12.53477001 3581.638893 202.8661041
17 01 2018 03:00
                 3558.089111 12.6147604 3586.710815 204.9580994
17 01 2018 03:10
17 01 2018 03:20 3598.697021 12.95112991 3597.699256 203.027298
17 01 2018 03:30 3604.187012 13.30634975 3600 200.5382996
17 01 2018 03:40 3548.512939 12.86425972 3596.434177 206.2216949
17 01 2018 03:50
                 3491.906006 12.3830204 3569.33306 206.3137054
17 01 2018 04:00 3596.51001 13.15526009 3600 205.5653076
17 01 2018 04:10
                 3589.301025 12.9461298 3597.65569 202.5534973
                 3602.760986 13.21969032 3600 200.4342041
17 01 2018 04:20
17 01 2018 04:30 3413.165039 13.49596977 3600 197.5809937
17 01 2018 04:40 3428.935059 14.08242989 3600 197.2528076
17 01 2018 04:50 3524.471924 14.3676796 3600 196.2373047
17 01 2018 05:00 3603.827881 13.52556992 3600 195.8802948
17 01 2018 05:10 3591.924072 12.80298996 3594.889298 193.8356018
17 01 2018 05:20 1761.264038 13.62913036 3600 204.5281982
17 01 2018 05:30 0
                       14.10371971 3600 208.4593964
17 01 2018 05:40 0
                       12.91790009 3597.342847 203.2008057
17 01 2018 05:50 0
                       12.40231037 3571.095075 202.3683014
17 01 2018 06:00 0
                       13.64675999 3600 209.2792969
17 01 2018 06:10 0
                       14.39078999 3600 211.1896973
17 01 2018 06:20 0
                       14.24055004 3600 208.327301
17 01 2018 06:30 1506.251953 13.51089001 3600 203.1954041
17 01 2018 06:40 3603.441895 13.44118977 3600 202.8311005
17 01 2018 06:50 3603.391113 13.62489986 3600 204.9380951
17 01 2018 07:00 3542.093018 14.09761047 3600 203.6741028
17 01 2018 07:10 3526.0271
                             14.10025978 3600 203.1240997
17 01 2018 07:20 3585.52002 14.66860008 3600 202.4615936
17 01 2018 07:30 3585.469971 14.8814497 3600 201.6450958
17 01 2018 07:40 3585.39209 14.83463955 3600 201.3822021
17 01 2018 07:50 3495.295898 14.86316967 3600 200.4228973
17 01 2018 08:00 3327.884033 14.35478973 3600 199.6965942
17 01 2018 08:10 2521.341064 14.0424099 3600 196.5549927
17 01 2018 08:20 2475.822998 13.91952991 3600 193.7709045
17 01 2018 08:30 3546.677979 14.25366974 3600 193.8621063
                 3580.519043 14.35002041 3600 199.8231049
17 01 2018 08:40
17 01 2018 08:50
                 3579.937988 13.92667961 3600 200.2808075
17 01 2018 09:00
                 3581.022949 12.84854984 3596.089764 198.753006
17 01 2018 09:10 3583.37207 13.90756989 3600 198.5012054
17 01 2018 09:20
                 3585.60498 14.31029987 3600 199.8598938
17 01 2018 09:30 3581.068115 13.56659985 3600 197.7154999
17 01 2018 09:40 3566.506104 13.1863699 3600 199.0960999
17 01 2018 09:50 3514.864014 13.58833981 3600 199.0511932
17 01 2018 10:00 3492.210938 14.00133038 3600 200.3450012
17 01 2018 10:10 3426.020996 12.76525021 3593.666719 200.1533966
17 01 2018 10:20 3468.052979 12.88541031 3596.841766 195.4389038
17 01 2018 10:30 3473.368896 14.07242966 3600 193.7469025
17 01 2018 10:40 3572.974121 15.46033955 3600 198.5113068
17 01 2018 10:50 3584.435059 14.51795006 3600 197.7767944
17 01 2018 11:00
                 3524.440918 13.49697018 3600
                                              195.0780029
17 01 2018 11:10
                 3585.475098 14.77571011 3600 196.0789032
17 01 2018 11:20
                 3569.196045 13.92199039 3600 200.8430939
17 01 2018 11:30
                 3585.246094 15.78660965 3600 200.4499054
17 01 2018 11:40 3585.241943 14.40598965 3600 197.6452942
17 01 2018 11:50
                 3514.368896 12.64009953 3588.117045 194.4246979
17 01 2018 12:00
                 3551.586914 12.84772968 3596.070806 189.9217072
17 01 2018 12:10 3414.427979 12.06935978 3532.325996 187.3941956
17 01 2018 12:20 3423.621094 11.82736969 3492.516452 182.780899
17 01 2018 12:30 2668.833008 9.958984375 2766.334806 181.618103
```

```
2617.792969 9.809143066 2667.606898 179.2442017
17 01 2018 12:40
17 01 2018 12:50
                 2705.233887 10.18482018 2901.766467 179.4248962
                 3403.841064 12.3145504 3562.606661 181.8153076
17 01 2018 13:00
17 01 2018 13:10
                 3493.928955 12.81266975 3595.169502 178.6421051
17 01 2018 13:20
                 3430.586914 12.10204029 3536.933472 177.4221039
17 01 2018 13:30
                 3480.500977 13.14651966 3600 177.066803
17 01 2018 13:40
                 3468.445068 13.26805973 3600
                                              182.4617004
                 3518.238037 13.13418961 3600 182.4503021
17 01 2018 13:50
17 01 2018 14:00
                 3417.440918 12.16676044 3545.533294 178.4154968
                 3471.460938 12.44820023 3575.053998 182.1340027
17 01 2018 14:10
17 01 2018 14:20
                 3440.208984 12.13376045 3541.235041 185.0019989
17 01 2018 14:30
                 3353.368896 11.48114967 3417.126746 184.4281006
17 01 2018 14:40
                 3508.603027 12.06614971 3531.863754 180.5621033
17 01 2018 14:50
                 3541.655029 13.08347034 3600 183.6488037
17 01 2018 15:00 3509.720947 14.01148033 3600 181.3421936
17 01 2018 15:10 3461.644043 15.22358036 3600 182.0829926
17 01 2018 15:20
                 3460.75708 15.86859989 3600 184.0737
17 01 2018 15:30 3461.112061 15.32783985 3600 183.7637024
17 01 2018 15:40 3469.858887 14.93704987 3600 185.4306946
17 01 2018 15:50
                 3537.74707 14.0352602 3600 184.5410004
                 3554.480957 12.99497986 3597.929087 181.1994934
17 01 2018 16:00
                 3492.709961 14.28487968 3600 185.1067963
17 01 2018 16:10
17 01 2018 16:20
                 3461.099121 14.42768002 3600
                                              185.9754028
17 01 2018 16:30
                 3500.968018 13.36594963 3600 184.9743958
17 01 2018 16:40
                 3460.385986 12.63290977 3587.727783 182.7870941
17 01 2018 16:50 3436.289063 12.18865013 3548.285606 182.8609009
17 01 2018 17:00 3481.375
                             12.78487015 3594.32819 183.3415985
17 01 2018 17:10 3401.532959 12.33430004 3564.622803 184.7828064
17 01 2018 17:20 3471.951904 13.53118992 3600 189.3311005
                 3469.031006 13.44736004 3600 189.9855042
17 01 2018 17:30
17 01 2018 17:40 3460.351074 13.78069973 3600 190.8094025
17 01 2018 17:50
                 3501.729004 13.29351044 3600 196.6575012
17 01 2018 18:00
                 3543.471924 13.98970985 3600 202.3211975
17 01 2018 18:10
                 3494.316895 16.90376091 3600
                                              198.0135956
                 3460.763916 18.36680031 3600
17 01 2018 18:20
                                              193.9228058
17 01 2018 18:30
                 3461.169922 18.73834038 3600
                                               192.957901
17 01 2018 18:40
                 3461.135986 18.8187294 3600
                                              191.5368042
17 01 2018 18:50
                 3461.023926 18.45815086 3600
                                              188.8119965
                 3460.064941 19.58902931 3600
17 01 2018 19:00
                                              191.0410004
                                              187.9490967
17 01 2018 19:10
                 3460.604004 19.31736946 3600
17 01 2018 19:20
                 3460.951904 18.6715107 3600
                                              189.0617065
17 01 2018 19:30 3460.87207 18.59921074 3600
                                              192.286499
17 01 2018 19:40
                 3461.153076 18.23888016 3600
                                              191.5180969
17 01 2018 19:50
                 3461.037109 18.25136948 3600
                                              189.509903
17 01 2018 20:00
                 3460.756104 18.01086044 3600 191.2268066
                                             187.5229034
17 01 2018 20:10
                 3460.854004 17.72001076 3600
17 01 2018 20:20
                 3460.802002 18.50588989 3600
                                              190.6665039
                                              191.2740021
                 3461.248047 18.8246994 3600
17 01 2018 20:30
17 01 2018 20:40
                 3461.806885 19.13537025 3600
                                               195.9674988
17 01 2018 20:50
                 3460.934082 20.40872955 3600
                                               190.8966064
17 01 2018 21:00
                 3460.278076 20.31163979 3600
                                              192.3265991
17 01 2018 21:10
                 3460.965088 20.20355988 3600
                                              194.5771942
17 01 2018 21:20
                 3461.021973 21.73591995 3600
                                              191.8141022
17 01 2018 21:30
                 3460.61792 20.48015976 3600
                                              193.3197021
17 01 2018 21:40
                 3461.166016 21.15891075 3600
                                              192.2980957
17 01 2018 21:50
                 3461.0271
                             20.75132942 3600
                                              189.1177979
17 01 2018 22:00
                 3460.678955 20.79783058 3600 188.6470032
17 01 2018 22:10 3460.8479 20.72380066 3600
                                             192.0666046
17 01 2018 22:20 3461.25708 20.38909912 3600
                                              191.6221924
```

```
17 01 2018 22:30 3461.136963 19.16670036 3600 185.5980988
                 3461.447021 19.58159065 3600 187.0581055
17 01 2018 22:40
17 01 2018 22:50
                 3461.136963 19.32695007 3600
                                               189.4199982
17 01 2018 23:00 3460.549072 18.36128998 3600
                                               189.648407
17 01 2018 23:10 3460.759033 18.44528961 3600 188.3903961
17 01 2018 23:20 3460.946045 18.63882065 3600
                                              187.4857025
17 01 2018 23:30
                 3460.712891 18.59205055 3600
                                               193.4710999
                 3461.035889 18.10296059 3600
17 01 2018 23:40
                                               192.0807037
17 01 2018 23:50
                 3460.937012 19.71636963 3600
                                               192.777298
                 3460.573975 18.09864044 3600
                                               193.0565033
18 01 2018 00:00
18 01 2018 00:10 3460.995117 17.7852993 3600
                                               185.8675995
18 01 2018 00:20 3460.699951 17.30204964 3600
                                               184.5988007
18 01 2018 00:30 3461.324951 16.55956078 3600
                                               188.2111053
18 01 2018 00:40 3461.184082 15.91524982 3600
                                               191.2841034
18 01 2018 00:50 3460.516113 17.53898048 3600
                                               190.0326996
18 01 2018 01:00 3460.662109 19.25925064 3600
                                               190.1768951
18 01 2018 01:10
                 3460.764893 20.12549973 3600
                                              194.7126007
18 01 2018 01:20 3460.906006 18.96092033 3600 194.9855042
18 01 2018 01:30 3460.955078 19.94144058 3600 194.9609985
18 01 2018 01:40 3460.802979 21.59947968 3600 194.1284943
18 01 2018 01:50
                 3460.556885 21.0281601 3600 195.4515991
18 01 2018 02:00
                 3460.262939 20.71459961 3600
                                               198.6186981
18 01 2018 02:10
                 3460.975098 20.8592701 3600
                                               197.3795929
                                               195.2127075
18 01 2018 02:20
                 3461.387939 18.49521065 3600
18 01 2018 02:30 3462.116943 17.14366913 3600 202.4983063
18 01 2018 02:40 3570.533936 17.46666908 3600 209.3934021
18 01 2018 02:50 3582.012939 17.32736969 3600 216.5289001
18 01 2018 03:00 3585.079102 22.49731064 3600 220.2261047
18 01 2018 03:10 3585.309082 17.76548958 3600 223.4718018
18 01 2018 03:20 3580.762939 16.76392937 3600 231.9311981
18 01 2018 03:30 3491.150879 13.6477499 3600 265.6297913
18 01 2018 03:40 3585.212891 14.3977499 3600 274.2290039
18 01 2018 03:50
                 3514.275879 12.27560997 3558.449587 271.3586121
18 01 2018 04:00 3162.728027 11.96549988 3516.483036 277.4693909
                 3024.00708 11.08897972 3302.9615
18 01 2018 04:10
                                                     286.7867126
                 3271.396973 11.96800995 3516.8877
18 01 2018 04:20
                                                     286.6593933
18 01 2018 04:30
                 2669.365967 10.18130016 2899.774098 286.7044067
                 2411.349121 9.890238762 2721.945219 309.4543152
18 01 2018 04:40
18 01 2018 04:50
                 1444.996948 7.576316833 1297.515896 340.2770081
18 01 2018 05:00
                 1369.652954 7.432684898 1223.320311 342.9747009
18 01 2018 05:10 878.0701294 6.610293865 849.813573 355.145813
18 01 2018 05:20 727.4575195 5.903519154 592.9200765 356.1048889
18 01 2018 05:30 689.4345703 5.988081932 620.9840969 353.5414124
18 01 2018 05:40 814.0864258 6.361656189 752.9302299 357.825592
18 01 2018 05:50 337.6994934 4.777937889 283.2617872 339.3103027
                 199.2677002 4.053524017 133.0014341 319.8710022
18 01 2018 06:00
18 01 2018 06:10 847.8499146 6.203259945 694.7330677 307.8770142
                 2801.858887 10.77999973 3189.107613 300.7345886
18 01 2018 06:20
                 3041.189941 11.83753967 3494.396056 299.3840942
18 01 2018 06:30
18 01 2018 06:40
                 3564.124023 13.87798977 3600 300.0784912
18 01 2018 06:50
                 3541.910889 13.67490959 3600
                                               301.7744141
18 01 2018 07:00
                 3368.164063 13.48639965 3600 304.1836853
18 01 2018 07:10
                 3319.373047 13.90223026 3600 308.7702942
18 01 2018 07:20
                 2764.283936 12.36859035 3567.976885 313.0103149
18 01 2018 07:30
                 2827.25
                             11.72838974 3473.24762 315.8530884
18 01 2018 07:40 2767.768066 11.27873039 3362.225325 320.6523132
18 01 2018 07:50 2563.136963 10.30082035 2965.398206 327.7862854
18 01 2018 08:00 2306.864014 9.521512985 2456.841652 325.6888123
18 01 2018 08:10 1795.46106 8.707262039 1957.255513 316.2615967
```

```
18 01 2018 08:20 2127.620117 9.341368675 2365.96472 335.9663086
18 01 2018 08:30 2442.145996 10.24757004 2936.672627 329.4930115
18 01 2018 08:40 2689.052979 12.94248962 3597.621733 327.7185974
18 01 2018 08:50 2796.24292 12.3227396 3563.450162 322.9736938
18 01 2018 09:00 2631.086914 11.50199032 3422.311458 323.4341125
18 01 2018 09:10 2491.781006 10.96990967 3261.714285 323.1066895
18 01 2018 09:20 2945.022949 13.94606972 3600 328.8796082
18 01 2018 09:30 2596.070068 11.63932991 3454.370115 340.1600952
18 01 2018 09:40 2905.092041 13.09397984 3600 336.5418091
18 01 2018 09:50
                 2661.948975 13.20821953 3600
                                               337,4164124
18 01 2018 10:00 2786.236084 13.23052979 3600 335.156311
18 01 2018 10:10 2741.787109 13.09171009 3600 335.717804
18 01 2018 10:20 3173.469971 14.07653999 3600 339.5177917
18 01 2018 10:30 2988.75293 13.58356953 3600 335.2833862
18 01 2018 10:40 2877.395996 12.32940006 3564.128356 334.3042908
18 01 2018 10:50 314.7329102 11.74857044 3477.32103 347.049408
18 01 2018 11:00 0
                       10.35511017 2993.852582 343.444397
18 01 2018 11:10 0
                       10.74911022 3176.476623 343.7547913
18 01 2018 11:20 0
                       11.08038998 3300.092803 347.5880127
18 01 2018 11:30 0
                       8.146767616 1615.131078 345.7719116
18 01 2018 11:40 0
                       9.627272606 2537.700008 347.984314
18 01 2018 11:50 1697.105957 11.30058002 3368.556193 353.1384888
18 01 2018 12:00 1094.147949 7.037886143 1033.135298 340.4310913
18 01 2018 12:10
                 1480.348999 7.720163822 1374.051459 326.1983948
18 01 2018 12:20 1847.370972 8.469733238 1809.36255 316.8187866
18 01 2018 12:30 1924.81604 8.98711586 2135.68833 316.1379089
18 01 2018 12:40 2249.474121 10.51931
                                         3074.945227 312.6565857
18 01 2018 12:50 0
                       5.672593117 520.0471051 0
18 01 2018 13:00 0
                       7.414168835 1213.90503 0
18 01 2018 13:10 20.36247063 5.758337021 546.4771274 311.8944092
18 01 2018 13:20 820.3217773 10.14688969 2880.103539 313.1231995
18 01 2018 13:30 1992.123047 11.93192005 3510.964473 310.5552063
18 01 2018 13:40 0
                       8.849276543 2047.316146 327.2435913
18 01 2018 13:50 0
                       8.863771439 2056.567703 333.1460876
                       9.080544472 2196.039027 329.5295105
18 01 2018 14:00 0
18 01 2018 14:10 0
                       8.7970047
                                   2014.040998 332.4364929
18 01 2018 14:20 0
                       7.070391178 1047.99357 331.0291138
18 01 2018 14:30 0
                       7.072350979 1048.89379 323.8938904
18 01 2018 14:40 0
                       8.076213837 1573.938656 325.2088013
18 01 2018 14:50 0
                       8.401921272 1767.868664 319.5968933
18 01 2018 15:00 668.8746948 10.35634995 2994.492676 317.2936096
18 01 2018 15:10 1658.353027 10.23717022 2930.966994 315.6564941
18 01 2018 15:20 2113.217041 10.04368019 2818.963427 317.5245972
18 01 2018 15:30 2001.717041 9.155170441 2244.46509 317.5994873
                            9.343402863 2367.296313 317.0441895
18 01 2018 15:40 2119.5979
18 01 2018 15:50 1999.484009 8.501379013 1828.844052 315.2524109
18 01 2018 16:00 1914.969971 8.207715034 1651.094826 314.0604858
18 01 2018 16:10 1969.995972 8.515583992 1837.61234 311.6856995
18 01 2018 16:20 2084.058105 8.602845192 1891.783381 304.3237
18 01 2018 16:30 2485.406006 9.823542595 2677.413578 304.2207031
18 01 2018 16:40 2819.64209 10.54349041 3086.272362 302.7828064
18 01 2018 16:50 2783.833984 10.78544044 3191.308104 303.8739929
18 01 2018 17:00 2892.943115 11.25084019 3353.998624 303.0899048
18 01 2018 17:10 2908.167969 11.57678986 3440.221493 306.3843994
18 01 2018 17:20 2758.795898 11.03456974 3284.511404 309.5044861
18 01 2018 17:30 2963.319092 11.41563034 3400.265707 304.7731018
18 01 2018 17:40 2910.876953 11.60869026 3447.531454 305.9494934
18 01 2018 17:50 2637.287109 10.4153204 3024.444849 310.9021912
18 01 2018 18:00 2775.280029 10.48163986 3056.988703 312.5010071
```

```
18 01 2018 18:10 2718.0271
                             10.15415001 2884.28323 311.4854126
                 2771.441895 10.71370029 3161.706831 313.5266113
18 01 2018 18:20
18 01 2018 18:30 2954.210938 11.06882954 3296.206021 310.4171143
18 01 2018 18:40 1262.442993 10.21675968 2919.677655 314.7926025
18 01 2018 18:50 1613.983032 10.08705044 2845.050548 310.3572083
18 01 2018 19:00 3467.791992 12.2658596 3557.370725 306.1896973
18 01 2018 19:10 3467.737061 12.64659977 3588.462345 306.579895
18 01 2018 19:20 3530.819092 12.83852005 3595.85126 304.4360962
18 01 2018 19:30 3593.468994 13.38516998 3600 304.8460083
                 3565.788086 12.7238903 3592.087939 308.1557922
18 01 2018 19:40
18 01 2018 19:50 3553.6521 13.30757999 3600 307.0759888
18 01 2018 20:00 3320.878906 12.19513988 3549.086524 310.7177124
18 01 2018 20:10 3328.677979 12.1374197 3541.720525 311.6582947
18 01 2018 20:20 3603.168945 14.55327034 3600 308.2829895
18 01 2018 20:30 3587.772949 13.22478962 3600 308.9841003
18 01 2018 20:40 3534.322998 12.93297005 3597.524002 309.2770081
18 01 2018 20:50 3404.615967 12.44639015 3574.904027 309.530304
18 01 2018 21:00 3427.621094 11.58417034 3441.930044 306.6090088
18 01 2018 21:10 3544.822998 11.64247036 3455.061017 305.0119019
18 01 2018 21:20 3492.281982 11.50924015 3424.095048 305.2717896
18 01 2018 21:30 3139.249023 10.65548038 3136.739675 302.9309082
18 01 2018 21:40 3006.968018 10.84654045 3215.52596 302.78479
18 01 2018 21:50 2891.076904 10.12637043 2868.205406 299.3941956
18 01 2018 22:00 2628.998047 10.17082024 2893.820603 298.6253967
18 01 2018 22:10 2630.957031 10.17496967 2896.181733 298.5469971
18 01 2018 22:20 2416.320068 9.652897835 2556.693862 299.0238953
18 01 2018 22:30 2124.843018 8.998849869 2143.249481 299.6021118
18 01 2018 22:40 1809.973022 8.385495186 1757.871002 298.6570129
18 01 2018 22:50 1742.894043 8.056279182 1562.38835 296.8511047
18 01 2018 23:00 1966.909058 8.380045891 1754.559029 295.5624084
18 01 2018 23:10 2245.917969 8.971438408 2125.594897 296.7059021
18 01 2018 23:20 2103.937012 8.662276268 1928.965463 296.3276978
18 01 2018 23:30 2054.062988 8.354442596 1739.029697 294.4421082
18 01 2018 23:40 2101.201904 8.563171387 1867.089895 291.7453918
18 01 2018 23:50 2017.214966 8.432193756 1786.348993 289.1264038
19 01 2018 00:00 2169.958984 8.779360771 2002.841478 288.9827881
19 01 2018 00:10 1999.546021 8.328128815 1723.124984 285.9241943
19 01 2018 00:20 2157.018066 8.891530037 2074.3134
                                                     285.2685852
19 01 2018 00:30 2300.803955 9.338321686 2363.970281 285.9837952
19 01 2018 00:40 2292.50293 9.190099716 2267.190451 287.2172852
19 01 2018 00:50 2310.271973 9.375279427 2388.172328 288.9096069
19 01 2018 01:00 1919.109985 8.370944977 1749.032953 286.8005066
19 01 2018 01:10 2370.88208 9.475275993 2453.756062 286.7284851
19 01 2018 01:20 2114.230957 8.88515377 2070.233889 288.0293884
19 01 2018 01:30 2074.583984 8.575396538 1874.687769 283.3039856
19 01 2018 01:40 2404.636963 9.376974106 2389.28265 285.6900024
19 01 2018 01:50 2831.141113 10.42763996 3030.580889 290.8797913
19 01 2018 02:00 2407.475098 9.52431488 2459.035747 289.7142944
19 01 2018 02:10 1792.157959 7.934294224 1492.597141 284.5707092
19 01 2018 02:20 2289.688965 8.751437187 1985.151498 282.6917114
19 01 2018 02:30 2306.387939 8.683469772 1942.278172 279.4653931
19 01 2018 02:40 2132.658936 8.463358879 1805.447315 275.6379089
19 01 2018 02:50 1887.812012 8.006806374 1533.896845 273.0903015
19 01 2018 03:00 1729.159058 7.816898823 1426.950788 270.1572876
19 01 2018 03:10 1881.128052 8.003235817 1531.850268 268.1140137
19 01 2018 03:20 1915.86499 8.136206627 1608.934585 263.1706848
19 01 2018 03:30 1752.53894 7.906156063 1476.722779 260.8602905
19 01 2018 03:40 1807.840942 8.215823174 1655.904973 258.9601135
19 01 2018 03:50 1369.911987 7.263844967 1139.327097 259.7250061
```

```
19 01 2018 04:00 1308.822021 7.131020069 1076.076382 261.8456116
                 1262.807007 7.081241131 1052.983705 258.7923889
19 01 2018 04:10
19 01 2018 04:20
                 1267.296021 7.199962139 1108.605332 260.8742981
19 01 2018 04:30 1575.31897 7.593225956 1306.37557 256.0495911
19 01 2018 04:40 1580.925049 7.530333042 1273.612806 240.6430054
19 01 2018 04:50
                 1614.249023 7.646729946 1334.652897 229.4642944
19 01 2018 05:00
                 1570.529053 7.596474171 1308.081765 237.1885071
                 1288.265015 6.977388859 1005.842478 231.7776031
19 01 2018 05:10
19 01 2018 05:20
                 939.6834717 6.480071068 798.2174799 241.8280029
19 01 2018 05:30
                 510.3457947 5.404243946 441.8710789 261.9128113
                 409.8858032 5.032320023 343.9794316 247.4924011
19 01 2018 05:40
19 01 2018 05:50 432.7937927 5.109350204 363.3246821 232.811203
19 01 2018 06:00
                 662.1831055 5.6901021 525.3852237 229.0980072
19 01 2018 06:10
                 728.2659302 5.912436008 595.8436108 233.6916962
19 01 2018 06:20 801.3140259 6.047336102 640.0732968 232.3768005
19 01 2018 06:30
                 1268.764038 7.132184982 1076.620718 241.1782074
19 01 2018 06:40
                 1143.255981 6.894220829 969.0730145 235.1273041
19 01 2018 06:50 1023.44397 6.721180916 895.2644566 229.7277985
19 01 2018 07:00 1370.290039 7.302240849 1158.066516 225.1784973
19 01 2018 07:10 1494.410034 7.679698944 1352.258402 213.4264069
19 01 2018 07:20
                 1578.550049 7.820057869 1428.69688 214.0395966
19 01 2018 07:30
                 1630.803955 7.981834888 1519.611486 207.7124023
19 01 2018 07:40
                 2329.336914 9.5179739
                                         2454.066198 195.7140961
19 01 2018 07:50
                 2108.266113 8.872335434 2062.038609 193.3562012
19 01 2018 08:00
                 1701.312012 8.194050789 1643.002035 197.2568054
19 01 2018 08:10 1911.196045 8.389312744 1760.192643 203.6006927
19 01 2018 08:20
                 1514.305054 7.867239952 1454.911782 211.3800049
                 2062.500977 9.015352249 2153.892584 210.4503021
19 01 2018 08:30
                 2548.769043 10.06519985 2831.979663 207.3766022
19 01 2018 08:40
                 2341.666016 9.478236198 2455.699318 216.1847992
19 01 2018 08:50
19 01 2018 09:00 2319.211914 9.443806648 2433.103222 220.3641052
19 01 2018 09:10 2579.250977 9.915575027 2738.481746 224.9049072
19 01 2018 09:20 2550.635986 9.946136475 2758.153827 222.6770935
19 01 2018 09:30 2483.930908 9.612821579 2526.886784 221.4987946
19 01 2018 09:40 2298.656982 9.271640778 2320.369398 221.7924957
                 1965.251953 8.729299545 1971.157905 225.2133942
19 01 2018 09:50
                 1820.552979 8.514296532 1836.817038 229.1083984
19 01 2018 10:00
                 1608.553955 8.042818069 1554.611404 227.7906952
19 01 2018 10:10
19 01 2018 10:20
                 1559.515015 7.998122215 1528.921551 228.7805939
19 01 2018 10:30
                 1482.463989 7.82075882 1429.08447 232.6331024
19 01 2018 10:40 1411.610962 7.701767921 1364.119028 227.2218018
19 01 2018 10:50 1234.198975 7.232945919 1124.396908 229.9170074
19 01 2018 11:00 1405.463013 7.799517155 1417.364176 214.4631042
19 01 2018 11:10
                 1570.213989 8.068408012 1569.411175 207.2785034
19 01 2018 11:20
                 1537.93396 8.023237228 1543.331681 209.8536987
                 1407.380005 7.650700092 1336.765719 214.6781006
19 01 2018 11:30
                 1449.166016 7.798561096 1416.837896 215.4889069
19 01 2018 11:40
                 1415.447021 7.693466187 1359.65032 214.5012054
19 01 2018 11:50
                 1221.965942 7.341538906 1177.463819 218.2581024
19 01 2018 12:00
19 01 2018 12:10
                 1099.963013 7.149240017 1084.610877 212.9714966
19 01 2018 12:20
                 970.8068848 6.80074501 928.7578487 211.0314026
19 01 2018 12:30
                 964.468811 7.007542133 1019.387606 211.1038055
19 01 2018 12:40
                 1368.604004 8.060360909 1564.750104 196.5700073
19 01 2018 12:50
                 2130.918945 9.451814651 2438.357739 193.1701965
19 01 2018 13:00
                 2475.048096 9.95773983 2765.544631 197.1739044
19 01 2018 13:10 2331.678955 9.675568581 2573.306441 199.4492035
19 01 2018 13:20 2243.51001 9.428436279 2423.019941 199.3757019
19 01 2018 13:30 2234.287109 9.30550766 2342.502681 199.5187073
19 01 2018 13:40 2143.666992 9.062857628 2184.589189 204.6260071
```

```
19 01 2018 13:50
                 2311.118896 9.62503624 2536.031428 197.5493011
                 2540.60498 10.13665962 2874.187417 196.6049042
19 01 2018 14:00
                 2608.500977 10.2811203 2954.866047 198.1136017
19 01 2018 14:10
19 01 2018 14:20
                 2546.250977 10.33848953 2985.229736 196.1130981
19 01 2018 14:30 2815.521973 10.65775013 3137.729106 199.1374054
19 01 2018 14:40 2744.095947 10.48392963 3058.091042 200.4848022
                 3090.779053 11.28392982 3363.740901 199.5195007
19 01 2018 14:50
                 3022.342041 11.28147984 3363.027463 196.667099
19 01 2018 15:00
19 01 2018 15:10
                 3370.577881 11.83201981 3493.378177 195.7673035
                 3408.191895 11.87067986 3500.393037 196.7118988
19 01 2018 15:20
19 01 2018 15:30
                 3560.215088 12.53730965 3581.814787 195.2817993
19 01 2018 15:40
                 3576.926025 12.51721001 3580.39586 195.0749054
19 01 2018 15:50 3438.156006 12.25798035 3556.487744 194.6618958
19 01 2018 16:00 2857.806885 10.80957031 3200.980374 195.8155975
19 01 2018 16:10 2973.896973 11.31013966 3371.294743 194.5211029
19 01 2018 16:20 2943.305908 11.06058025 3293.414224 193.8394928
19 01 2018 16:30 2699.794922 10.47175026 3052.211444 192.2420959
19 01 2018 16:40 2791.032959 10.79734039 3196.095825 188.3572998
19 01 2018 16:50 2773.875977 10.8801899 3228.48006 187.9172974
19 01 2018 17:00 2973.289063 11.11301994 3310.903101 188.9225006
19 01 2018 17:10 2848.452881 10.78870964 3192.626846 189.969696
19 01 2018 17:20 2922.927979 10.85114002 3217.312622 190.1759949
19 01 2018 17:30 3170 11.30603027 3370.119857 191.6307983
19 01 2018 17:40 3144.146973 11.48431015 3417.918511 186.7321014
19 01 2018 17:50 3043.714111 11.22360039 3345.804932 186.9889069
19 01 2018 18:00 3346.11499 11.96625042 3516.60415 186.2742004
19 01 2018 18:10 3603.322021 12.99526978 3597.929699 185.5912018
19 01 2018 18:20 3602.99292 12.83281994 3595.709238 187.4208069
                 3596.970947 12.82299042 3595.453292 189.0325012
19 01 2018 18:30
19 01 2018 18:40 3440.804932 11.8953104 3504.724057 190.8890991
19 01 2018 18:50 3595.412109 12.54769993 3582.524218 191.8455963
19 01 2018 19:00
                 3603.575928 12.77233982 3593.912217 195.0704041
19 01 2018 19:10
                 3603.283936 13.36231041 3600 198.2960052
19 01 2018 19:20
                 3600.861084 13.10727024 3600 197.5151062
                 3601.968994 12.76441002 3593.637138 198.6925964
19 01 2018 19:30
                 3526.988037 11.93778992 3511.943259 199.2462006
19 01 2018 19:40
                 3597.465088 12.44437027 3574.736074 199.0126038
19 01 2018 19:50
19 01 2018 20:00
                 3541.272949 12.71996021 3591.924865 198.0005035
19 01 2018 20:10
                 3537.215088 12.89838028 3597.059934 200.0679016
19 01 2018 20:20
                 3556.64209 12.89050961 3596.93042 196.5632935
19 01 2018 20:30 3565.543945 12.85719013 3596.283589 197.7631989
19 01 2018 20:40 3601.173096 13.18183041 3600 194.3919983
19 01 2018 20:50
                 3598.719971 13.46082973 3600 189.2046051
19 01 2018 21:00
                 3602.491943 13.79345989 3600 190.949707
19 01 2018 21:10
                 3588.155029 14.16394997 3600 192.469696
19 01 2018 21:20
                 3597.916992 14.53314018 3600 190.0625
19 01 2018 21:30
                 3575.154053 14.35881042 3600 190.4277039
                 3604.332031 13.71555042 3600 189.2969055
19 01 2018 21:40
19 01 2018 21:50
                 3526.322998 13.08493996 3600
                                               192.2447052
19 01 2018 22:00
                 3585.322998 13.02464008 3600
                                               191.6195984
                 3579.815918 14.06459999 3600
19 01 2018 22:10
                                               190.3889008
19 01 2018 22:20
                 3603.096924 14.4723196 3600
                                               194.7321014
19 01 2018 22:30
                 3604.354004 14.36252022 3600
                                               195.7825012
19 01 2018 22:40
                 3604.356934 14.96138954 3600
                                               193.5458984
19 01 2018 22:50
                 3604.163086 15.60309029 3600
                                               193.3112946
19 01 2018 23:00
                 3604.207031 15.87666035 3600
                                              192.7980957
19 01 2018 23:10
                 3604.212891 16.11577034 3600 192.2203064
19 01 2018 23:20 3604.282959 15.54263973 3600 191.5169067
19 01 2018 23:30 3604.184082 14.12543011 3600 193.6159058
```

```
19 01 2018 23:40
                 3604.219971 13.43780041 3600
                                                206.0621033
19 01 2018 23:50
                 3604.146973 14.4678297 3600
                                                206.0381927
20 01 2018 00:00
                  3604.187988 15.54135036 3600
                                                202.3083038
20 01 2018 00:10
                 3603.866943 16.76935959 3600
                                                200.8657074
20 01 2018 00:20
                 3603.927002 17.26627922 3600
                                                198.5910034
20 01 2018 00:30
                  3603.89209 16.93868065 3600
                                                200.3607025
20 01 2018 00:40
                  3603.789063 16.42012024 3600
                                                201.8115997
20 01 2018 00:50
                 3603.974121 15.99555016 3600
                                                203.4376068
20 01 2018 01:00
                 3604.061035 16.07550049 3600
                                                205.3276062
                                                207.3278046
20 01 2018 01:10
                  3604.166992 16.52663994 3600
                  3604.143066 15.9436903 3600
20 01 2018 01:20
                                                208.0803986
20 01 2018 01:30
                 3604.081055 15.44822979 3600
                                                206.5290985
20 01 2018 01:40
                  3604.279053 15.03940964 3600
                                                206.7046051
20 01 2018 01:50
                 3604.10498 15.07995033 3600
                                                207.1622925
20 01 2018 02:00
                 3604.263916 14.84092999 3600
                                                207.5623932
20 01 2018 02:10
                 3604.375
                             14.39649963 3600
                                                207.6694031
20 01 2018 02:20
                 3604.131104 14.72593021 3600
                                                206.536499
20 01 2018 02:30
                 3604.13208 15.16075039 3600
                                               208.0659027
20 01 2018 02:40
                 3604.287109 14.4108696 3600
                                                208.430603
20 01 2018 02:50
                  3604.301025 13.95726013 3600
                                                208.8464966
20 01 2018 03:00
                 3604.448975 14.53089046 3600
                                                208.1793976
                 3604.339111 14.52877045 3600
20 01 2018 03:10
                                                211.405899
20 01 2018 03:20
                  3604.164063 15.11147976 3600
                                                209.3780975
20 01 2018 03:30
                  3604.150879 15.90729046 3600
                                                207.7857971
                 3604.041992 15.72052002 3600
20 01 2018 03:40
                                                205.289505
20 01 2018 03:50
                  3604.108887 15.61499977 3600
                                                206.9315948
20 01 2018 04:00
                 3604.138916 15.75347042 3600
                                                208.1815033
                 3604.095947 15.80926037 3600
20 01 2018 04:10
                                                208.5229034
20 01 2018 04:20
                 3604.052002 15.85214043 3600
                                                208.5391998
                 3604.302002 15.43144989 3600
20 01 2018 04:30
                                                208.1343994
20 01 2018 04:40
                 3604.294922 15.42576981 3600
                                               205.449295
20 01 2018 04:50
                 3604.291016 15.87899017 3600
                                               202.0494995
20 01 2018 05:00
                  3603.47998 17.09161949 3600
                                               196.6071014
20 01 2018 05:10
                 3603.39502 18.67205048 3600
                                               197.7825928
                 3603.385986 19.99786949 3600
20 01 2018 05:20
                                                201.1983032
20 01 2018 05:30
                  3603.439941 20.31185913 3600
                                                202.2225037
20 01 2018 05:40
                  3603.270996 20.27668953 3600
                                                201.6528015
                                                200.1748047
20 01 2018 05:50
                  3602.979004 19.91935921 3600
20 01 2018 06:00
                 3602.931885 19.31337929 3600
                                                202.3961029
20 01 2018 06:10
                 3603.333008 18.49593925 3600
                                                203,6903076
20 01 2018 06:20
                 3603.354004 19.39694023 3600
                                                203.396698
                 3603.36499 19.76767921 3600
20 01 2018 06:30
                                                202.3159027
20 01 2018 06:40
                  3593.719971 19.33650017 3600
                                                201.2467957
                                               201.4812012
20 01 2018 06:50
                 3603.679932 18.80958939 3600
20 01 2018 07:00
                 3506.143066 18.52924919 3600
                                               202.4523926
20 01 2018 07:10
                  3461.888916 18.25728035 3600
                                               201.4546051
                                               199.571701
20 01 2018 07:20
                 3461.552979 18.3217907 3600
                 3461.212891 18.2102108 3600
20 01 2018 07:30
                                               196.2476959
20 01 2018 07:40
                 3461.774902 18.1878109 3600
                                                198.1363068
20 01 2018 07:50
                  3461.35498 18.01350021 3600
                                                200.7908936
20 01 2018 08:00
                 3461.75
                              16.89113998 3600
                                                197.7761993
20 01 2018 08:10
                 3461.500977 16.74682999 3600
                                                198.7743988
20 01 2018 08:20
                  3461.184082 17.05978966 3600
                                                199.6508942
20 01 2018 08:30
                 3461.660889 16.42974091 3600
                                               200.0679932
20 01 2018 08:40
                 3464.370117 15.33104038 3600
                                               197.8103027
20 01 2018 08:50
                 3464.111084 15.77408981 3600
                                               197.7586975
20 01 2018 09:00
                 3461.332031 16.1196003 3600
                                               197.248703
20 01 2018 09:10 3461.162109 15.37012005 3600
                                              198.2969055
20 01 2018 09:20 3461.259033 16.35548973 3600
                                               198.3663025
```

```
20 01 2018 09:30
                 3469.697998 16.71338081 3600
                                               197.995697
20 01 2018 09:40
                 3461.583008 17.28745079 3600
                                               196.087204
                 3462.324951 16.2311306 3600
                                               196.1548004
20 01 2018 09:50
20 01 2018 10:00
                 3461.043945 16.31561089 3600
                                               196.1405945
20 01 2018 10:10
                 3460.9021
                             15.60042953 3600
                                              194.9105072
20 01 2018 10:20
                 3460.900879 15.02898979 3600
                                               191.746994
20 01 2018 10:30
                 3461.50293 14.91215038 3600
                                               190.3838043
                 3464.224121 13.88022041 3600
20 01 2018 10:40
                                               187.5505981
20 01 2018 10:50
                 3461.481934 14.8550396 3600
                                               191.0809021
                 3442.493896 13.55877972 3600
                                               189.7413025
20 01 2018 11:00
                 3435.375977 13.33603954 3600
                                               187.6459045
20 01 2018 11:10
20 01 2018 11:20
                 3462.033936 14.12438011 3600
                                               191.1148987
20 01 2018 11:30
                 3457.346924 14.61124992 3600
                                               189.9510956
20 01 2018 11:40
                 3461.397949 14.91930008 3600
                                               187.9125977
20 01 2018 11:50
                 3461.037109 15.96123981 3600
                                               188.3468018
20 01 2018 12:00
                 3460.893066 16.07723045 3600
                                               192.0561066
20 01 2018 12:10
                 3464.233887 14.29209995 3600 196.5836029
20 01 2018 12:20
                 3502.387939 13.73548985 3600 196.482193
20 01 2018 12:30
                 2995.934082 10.84545994 3215.105509 191.9427948
                 3341.01709 12.99057961 3597.91834 187.5036011
20 01 2018 12:40
                 3486.38208 13.33003998 3600 192.0041046
20 01 2018 12:50
                 3552.822998 13.37537003 3600 193.8780975
20 01 2018 13:00
20 01 2018 13:10
                 3537.158936 12.30828953 3561.954594 195.5231934
20 01 2018 13:20
                 3295.946045 11.51070023 3424.453007 196.8094025
20 01 2018 13:30
                 3548.059082 12.72340965 3592.068117 196.563797
20 01 2018 13:40
                 3382.743896 11.97964001 3518.748473 193.0852051
20 01 2018 13:50
                 2924.448975 10.29611969 2962.895184 186.6916046
20 01 2018 14:00 3213.700928 12.1737299 3546.418127 186.1661987
20 01 2018 14:10
                 3461.322021 13.93437958 3600 190.738205
20 01 2018 14:20
                 3462.572998 14.16158009 3600 188.0886993
20 01 2018 14:30
                 3463.218018 16.11827087 3600 190.8735962
20 01 2018 14:40
                 3461.865967 14.56921959 3600 188.4051971
20 01 2018 14:50
                 3460.913086 16.58921051 3600
                                               190.2716064
20 01 2018 15:00
                 3461.188965 16.37685013 3600
                                               188.8040924
                 3461.477051 17.77539063 3600
20 01 2018 15:10
                                               193.235199
20 01 2018 15:20
                 3461.561035 18.27527046 3600
                                               190.3367004
20 01 2018 15:30
                 3461.400879 17.93314934 3600
                                               188.2124023
20 01 2018 15:40
                 3461.477051 19.27253914 3600
                                               188.2003937
20 01 2018 15:50
                 3461.052979 19.61834908 3600
                                               189.1118011
20 01 2018 16:00
                 3461,466064 18,88689041 3600
                                               189.0514984
20 01 2018 16:10
                 3461.458984 18.44672966 3600
                                               192.1636047
                 3461.226074 17.50954056 3600
20 01 2018 16:20
                                               190.7727966
20 01 2018 16:30
                 3461.271973 16.73324966 3600
                                               191.883606
                                               192.1914978
20 01 2018 16:40
                 3461.316895 15.72369957 3600
20 01 2018 16:50
                 3461.615967 15.17525005 3600
                                               190.345993
20 01 2018 17:00
                 3461.093018 16.61687088 3600
                                               192.3731995
20 01 2018 17:10
                 3460.648926 17.47771072 3600
                                               191.4544983
                                               191.1670074
                 3461.166992 17.88133049 3600
20 01 2018 17:20
20 01 2018 17:30
                 3461.561035 16.89949036 3600
                                               192.3462982
20 01 2018 17:40
                 3461.093994 16.76930046 3600
                                               193.5404053
20 01 2018 17:50
                 3461.025879 18.08151054 3600
                                               198.3453064
20 01 2018 18:00
                 3461.024902 17.68224907 3600
                                               196.8264008
20 01 2018 18:10
                 3461.524902 17.22649956 3600
                                               192.2294006
20 01 2018 18:20
                 3461.406982 17.67787933 3600
                                               200.954895
20 01 2018 18:30
                 3461.118896 17.01161957 3600
                                               202.1734009
20 01 2018 18:40
                 3461.145996 16.47306061 3600
                                               197.3950958
20 01 2018 18:50
                 3461.36499 16.39751053 3600
                                               196.7691956
20 01 2018 19:00
                 3461.25
                             16.5524807 3600
                                              198.6636963
20 01 2018 19:10 3461.677002 16.17012024 3600
                                               197.2940979
```

```
20 01 2018 19:20 3461.88208 16.61421967 3600
                                              196.4445953
                 3461.441895 17.02033997 3600 200.4676971
20 01 2018 19:30
20 01 2018 19:40
                 3461.191895 17.81421089 3600
                                              205.8148956
20 01 2018 19:50
                 3461.331055 16.72656059 3600 204.517807
20 01 2018 20:00 3461.487061 15.9660902 3600 208.1553955
20 01 2018 20:10 3461.409912 17.13308907 3600 205.0715027
20 01 2018 20:20
                 3461.084961 17.03112984 3600
                                              203.7052002
                 3461.111084 16.98892021 3600
20 01 2018 20:30
                                              204.1192017
20 01 2018 20:40
                 3460.841064 17.21199989 3600
                                              205.107193
20 01 2018 20:50
                 3461.235107 17.47187042 3600
                                               205.3793945
20 01 2018 21:00
                 3461.041992 17.40415955 3600
                                              208.5301056
20 01 2018 21:10 3461.274902 18.66176987 3600
                                              209.658905
20 01 2018 21:20
                 3461.167969 18.54068947 3600
                                              208.184906
20 01 2018 21:30
                 3461.061035 18.61679077 3600
                                              209.4259949
20 01 2018 21:40 3460.938965 19.32556915 3600
                                              206.3117981
20 01 2018 21:50 3460.962891 19.00709915 3600
                                              207.8766937
20 01 2018 22:00 3460.968994 18.72890091 3600 210.5007935
20 01 2018 22:10 3461.206055 18.53861046 3600 209.6844025
20 01 2018 22:20 3461.538086 19.27193069 3600 207.3446045
20 01 2018 22:30
                 3460.539063 20.34328079 3600 206.438797
20 01 2018 22:40
                 3460.989014 19.26543999 3600
                                              205.4568024
20 01 2018 22:50
                 3461.409912 20.27224922 3600
                                              205.1062012
20 01 2018 23:00
                 3461.201904 20.0963192 3600
                                              204.8791962
20 01 2018 23:10
                 3460.684082 20.04124069 3600
                                              207.9929047
20 01 2018 23:20
                 3460.899902 19.3098793 3600 207.3195038
20 01 2018 23:30 3461.395996 19.99360085 3600 211.658493
20 01 2018 23:40 3461.059082 21.95161057 3600 213.1217041
20 01 2018 23:50 3460.774902 20.96921921 3600 210.6195984
21 01 2018 00:00 3460.416992 21.77313995 3600 208.3820038
21 01 2018 00:10 3460.716064 22.05632973 3600 208.3419037
21 01 2018 00:20 3460.960938 21.99543953 3600 209.0261993
21 01 2018 00:30 3460.434082 20.63515091 3600 212.2075043
21 01 2018 00:40 3152.215088 14.97208023 3600 228.7891998
21 01 2018 00:50 3155.943115 11.70417023 3468.259993 261.4454956
21 01 2018 01:00 1999.072021 8.622097015 1903.803317 254.8376007
21 01 2018 01:10 2182.312012 8.983177185 2133.151585 247.0236053
21 01 2018 01:20
                 1710.95105 8.342201233 1731.623633 246.5848999
                 1948.612061 8.499343872 1827.589007 246.8200073
21 01 2018 01:30
21 01 2018 01:40 1988.977051 8.435540199 1788.39621 246.2059937
21 01 2018 01:50 3384.874023 12.08154011 3534.064176 232.6327057
21 01 2018 02:00 3588.186035 13.07151985 3600 227.7355042
21 01 2018 02:10 3378.51709 12.16359043 3545.128192 225.0088043
21 01 2018 02:20 3582.246094 14.05066013 3600 217.811203
21 01 2018 02:30 3333.593994 11.67943954 3463.054939 219.1461029
21 01 2018 02:40 3452.454102 12.43836021 3574.232606 221.5821991
21 01 2018 02:50 3259.297119 11.53977966 3431.495542 219.2472992
                 3067.646973 11.22556019 3346.399706 221.1925049
21 01 2018 03:00
21 01 2018 03:10 3144.327881 11.14945984 3322.698038 217.4358978
                           10.9698801 3261.703642 214.2369995
21 01 2018 03:20 3118.9729
21 01 2018 03:30
                 3076.410889 10.99020958 3268.974352 212.5903931
21 01 2018 03:40
                 3580.748047 12.86363029 3596.421062 210.8997955
21 01 2018 03:50
                 3602.041992 13.78942966 3600 210.4217987
21 01 2018 04:00
                 3524.822021 12.33753014 3564.946668 210.2532043
21 01 2018 04:10
                 3563.437988 12.19414997 3548.964801 209.5493927
21 01 2018 04:20
                 3564.978027 13.40614033 3600 212.2375031
21 01 2018 04:30
                 3603.029053 13.48206043 3600 212.7509003
21 01 2018 04:40 3599.101074 13.33469009 3600 213.5738068
21 01 2018 04:50 3597.698975 13.55101013 3600 214.7402954
21 01 2018 05:00 3565.785889 13.23910046 3600 216.9479065
```

```
21 01 2018 05:10 3567.86499 12.78547001 3594.34753 215.4546967
21 01 2018 05:20
                 3590.480957 13.88943005 3600 220.466095
21 01 2018 05:30
                 3569.059082 15.39008999 3600 218.2850037
21 01 2018 05:40 3562.339111 13.0715704 3600 215.9972992
21 01 2018 05:50 3407.441895 11.96376991 3516.203504 217.7393951
21 01 2018 06:00 3285.022949 11.38780975 3392.845766 216.7725983
21 01 2018 06:10 3049.719971 11.07409954 3297.981572 216.0818939
21 01 2018 06:20 2717.420898 10.41252041 3023.044439 211.2230072
21 01 2018 06:30 2895.650879 10.72824001 3167.809211 210.8934021
21 01 2018 06:40 2186.666992 9.340424538 2365.346707 209.3493042
21 01 2018 06:50 2345.725098 9.437204361 2428.771635 207.0529022
21 01 2018 07:00 2241.280029 9.454656601 2440.22268 204.0995026
21 01 2018 07:10 2047.404053 8.975119591 2127.963996 207.457901
21 01 2018 07:20 2630.200928 10.04986954 2822.721699 198.1625977
21 01 2018 07:30 2295.924072 9.134529114 2231.052694 197.3816071
21 01 2018 07:40 1799.965942 8.091968536 1583.094954 201.260498
21 01 2018 07:50 2590.170898 9.720999718 2606.061762 199.6873932
21 01 2018 08:00 3053.748047 10.65167999 3135.080064 199.8244019
21 01 2018 08:10 3004.950928 10.69112968 3152.129051 198.0520935
21 01 2018 08:20 2642.041992 9.91208744 2736.217762 195.7677002
21 01 2018 08:30 2447.811035 10.00693989 2796.409484 192.7487946
21 01 2018 08:40 3031.455078 10.78855991 3192.566506 189.8200073
21 01 2018 08:50 3441.068115 11.96621037 3516.597689 188.9161987
21 01 2018 09:00 3300.00708 11.47566986 3415.749263 185.5930023
21 01 2018 09:10 2863.563965 10.07833004 2839.851577 185.2926025
21 01 2018 09:20 3255.093018 11.18597984 3334.228199 185.531601
21 01 2018 09:30 3404.523926 12.36946011 3568.059552 186.9369965
21 01 2018 09:40 3463.333984 13.01047039 3600 186.2631073
21 01 2018 09:50 3460.189941 13.60538006 3600 182.2144928
21 01 2018 10:00 3464.602051 14.24580002 3600 180.5995026
21 01 2018 10:10 3466.834961 14.33705044 3600 175.559494
                           14.32849026 3600 173.4860992
21 01 2018 10:20 3489.9729
21 01 2018 10:30 3489.172119 14.09694958 3600 178.8554993
21 01 2018 10:40 3470.38501 14.11285019 3600 178.5003052
21 01 2018 10:50 3464.387939 13.54226017 3600 183.6672974
21 01 2018 11:00 3457.166016 13.55580997 3600 184.4938965
21 01 2018 11:10 3468.033936 13.56587029 3600 191.3428955
21 01 2018 11:20 3512.610107 13.94935989 3600 198.5944977
21 01 2018 11:30 3522.990967 11.8768301 3501.484528 192.7613068
21 01 2018 11:40 3330.412109 11.60548973 3446.806826 190.4589996
21 01 2018 11:50 3492.300049 12.5489502 3582.608481 186.673996
21 01 2018 12:00 3365.986084 12.16732979 3545.605876 182.7035065
21 01 2018 12:10 3589.034912 13.13903046 3600 177.9221039
21 01 2018 12:20 3563.385986 14.10027027 3600 176.9927979
21 01 2018 12:30 3507.780029 14.81103039 3600 177.9779053
21 01 2018 12:40 3464.709961 15.27003002 3600 179.9277039
21 01 2018 12:50 3500.935059 14.9907198 3600 178.8928986
21 01 2018 13:00 3587.157959 13.91779041 3600 174.6092987
21 01 2018 13:10 3603.465088 13.94892979 3600 171.335495
21 01 2018 13:20
                 3602.287109 12.93955994 3597.593032 167.8535004
21 01 2018 13:30
                 3603.631104 13.73659992 3600 169.2626038
21 01 2018 13:40 3601.080078 14.53211021 3600 172.4120026
21 01 2018 13:50 3526.674072 15.16981983 3600 176.1289063
21 01 2018 14:00 3494.030029 14.82614994 3600 174.5986023
21 01 2018 14:10 3502.416016 14.65530968 3600 175.3993988
21 01 2018 14:20 3508.648926 14.34951973 3600 175.5023956
21 01 2018 14:30 3472.544922 15.01305962 3600 178.8862
21 01 2018 14:40 3463.206055 14.90837002 3600 181.6448975
21 01 2018 14:50 3469.166016 14.50492001 3600 181.7971954
```

```
21 01 2018 15:00 3466.947998 14.82950974 3600 179.1573029
21 01 2018 15:10
                 3464.706055 14.36627007 3600 177.8170013
21 01 2018 15:20
                 3492.455078 13.74201012 3600
                                              176.9127045
21 01 2018 15:30
                 3590.204102 13.32293987 3600 177.1412048
21 01 2018 15:40
                 3576.727051 13.22727013 3600
                                              177.622406
21 01 2018 15:50
                 3573.764893 14.0426302 3600
                                              179.1038971
                 3482.14502 14.37112045 3600
21 01 2018 16:00
                                              179.6499023
                 3472.108887 13.97877026 3600
21 01 2018 16:10
                                              179.6826019
21 01 2018 16:20
                 3510.718994 13.14190006 3600 177.4600983
21 01 2018 16:30
                 3541.687012 12.66765976 3589.537905 175.6038971
21 01 2018 16:40
                 3548.75
                             13.06529999 3600 179.3728943
21 01 2018 16:50
                 3561.913086 12.81439018 3595.217881 178.8058929
21 01 2018 17:00
                 3593.97998 12.52762985 3581.139117 176.7583008
21 01 2018 17:10 3377.503906 11.71839046 3471.201554 175.6287994
21 01 2018 17:20 3463.089111 11.73499012 3474.588114 175.9835968
21 01 2018 17:30 3218.569092 11.17162037 3329.729111 178.2604065
21 01 2018 17:40 2972.746094 10.75448036 3178.689397 177.9414978
21 01 2018 17:50 3198.236084 11.26473999 3358.119096 178.1213074
21 01 2018 18:00 3467.016113 12.01992989 3525.015151 176.326004
21 01 2018 18:10 3323.929932 11.60406971 3446.484696 178.2456055
21 01 2018 18:20 3118.577881 11.31307983 3372.133196 178.3757935
21 01 2018 18:30 3245.874023 11.46584988 3413.265906 179.2342072
                 3338.025879 11.54362965 3432.415604 179.1685028
21 01 2018 18:40
21 01 2018 18:50
                 3245.323975 11.40635967 3397.810533 180.1802979
21 01 2018 19:00
                 3332.095947 11.7031002 3468.037137 181.8067017
21 01 2018 19:10 3053.539063 11.0546999 3291.414827 179.0998993
21 01 2018 19:20 2664.658936 10.32450962 2977.916684 177.2841034
21 01 2018 19:30 3088.729004 11.05889034 3292.840427 175.7825012
21 01 2018 19:40 3069.506104 11.00351048 3273.680029 174.8567963
21 01 2018 19:50
                 3030.691895 10.90847969 3239.162867 175.6791992
21 01 2018 20:00 2569.356934 10.02682972 2808.671456 179.6143951
21 01 2018 20:10 2494.403076 9.855160713 2698.706213 181.0021973
21 01 2018 20:20 2777.039063 10.54619026 3087.527491 178.5460968
21 01 2018 20:30 2302.715088 9.629840851 2539.614033 178.8876038
21 01 2018 20:40 1910.130005 8.931996346 2100.247392 175.8430939
                 1731.53894 8.611812592 1897.379216 175.5021057
21 01 2018 20:50
21 01 2018 21:00
                 1625.025024 8.500665665 1828.404105 174.4626007
21 01 2018 21:10
                 2125.319092 9.584399223 2505.403398 172.8134003
21 01 2018 21:20 2289.855957 9.466374397 2447.913034 170.8061981
21 01 2018 21:30 2600.260986 10.00924969 2797.839799 174.7348938
21 01 2018 21:40 2936.488037 10.91191006 3240.445416 175.4264069
21 01 2018 21:50 3078.579102 11.20075989 3338.812597 174.3009033
21 01 2018 22:00 3123.593994 11.29767036 3367.718884 173.9528046
21 01 2018 22:10 3124.454102 11.08071995 3300.203306 175.1248016
21 01 2018 22:20 3253.336914 11.5300703 3429.162431 175.7156982
21 01 2018 22:30
                 3372.093018 11.9011097 3505.728252 174.0449982
21 01 2018 22:40
                 3538.814941 12.26673031 3557.467688 175.485199
21 01 2018 22:50
                 3581.50708 12.70188046 3591.145387 177.5617981
21 01 2018 23:00 3408.763916 11.74359035 3476.322759 174.7274933
21 01 2018 23:10
                 3506.215088 12.03966999 3527.984411 175.5404053
21 01 2018 23:20
                 3214.500977 11.38191986 3391.25478 176.8054962
21 01 2018 23:30
                 2831.645996 10.39931965 3016.413014 177.5868988
21 01 2018 23:40
                 2541.781982 10.08922958 2846.346097 174.6719971
21 01 2018 23:50
                 2029.912964 9.065434456 2186.256644 175.3992004
22 01 2018 00:00
                 1878.795044 8.814731598 2025.309797 173.2458954
22 01 2018 00:10 1724.671997 8.54533577 1856.023392 172.4803925
22 01 2018 00:20 1182.035034 7.288403988 1151.289285 169.8627014
22 01 2018 00:30 1202.811035 7.329030037 1171.265417 167.7003937
22 01 2018 00:40 1176.723999 7.227974892 1122.007341 169.7761993
```

```
22 01 2018 00:50 1179.938965 7.277472019 1145.954047 179.218399
22 01 2018 01:00 600.4755249 5.864152908 580.1126189 177.9024963
22 01 2018 01:10 1090.358032 7.024084091 1026.867508 182.623703
22 01 2018 01:20 1263.459961 7.502579212 1259.322711 184.5115967
22 01 2018 01:30 682.2911987 6.369458199 755.8669038 190.1306
22 01 2018 01:40 234.2523041 4.900321007 311.8840705 209.9828949
22 01 2018 01:50 64.03144836 3.534003973 55.90094659 214.7071991
22 01 2018 02:00 45.14060974 3.548079014 57.56977687 217.4920959
22 01 2018 02:10 -0.099066757 3.047133923 17.68601406 255.8117981
22 01 2018 02:20 0
                      2.261464119 0
                                         283.8510132
22 01 2018 02:30 0
                       1.554723978 0
                                         339.1502075
22 01 2018 02:40 0
                      1.490911961 0
                                         256.5985107
22 01 2018 02:50 0
                      1.921826959 0
                                         197.4042969
22 01 2018 03:00 0
                       1.849568009 0
                                         123.6634979
22 01 2018 03:10 0
                       2.696182966 0
                                       60.44152069
22 01 2018 03:20 0
                      4.92156601 316.9621758 116.7015991
22 01 2018 03:30 69.44663239 3.358344078 37.73984876 113.1604996
22 01 2018 03:40 28.84244919 2.96389389 0
                                            93.01822662
22 01 2018 03:50 65.82317352 3.364407063 38.28442658 104.1334
22 01 2018 04:00 79.15117645 3.279001951 31.15542954 101.3991013
22 01 2018 04:10 114.0976028 3.556868076 58.6279428 97.72010803
22 01 2018 04:20 211.0319061 3.881283998 106.3340068 94.27866364
22 01 2018 04:30 246.2826996 4.181203842 157.3974927 100.3161011
22 01 2018 04:40 266.0002136 4.536550045 229.7764473 101.1624985
22 01 2018 04:50 206.490097 4.217517853 164.4814695 108.0179977
22 01 2018 05:00 233.2389984 4.332076073 187.2765894 111.2207031
22 01 2018 05:10 802.3823853 6.69343996 883.7609536 118.9539032
22 01 2018 05:20 610.4057007 6.073493004 649.0613235 119.5711975
22 01 2018 05:30 152.8955994 3.915900946 112.4187936 114.4905014
22 01 2018 05:40 325.3664856 5.019011974 340.6839831 119.2288971
22 01 2018 05:50 306.1913147 4.954892159 324.9949323 119.9542007
22 01 2018 06:00 321.5960083 5.091563225 358.8163308 118.3132019
22 01 2018 06:10 246.5276031 4.683157921 261.8072308 116.1139984
22 01 2018 06:20 98.81842041 3.694231987 76.77206773 109.6973038
22 01 2018 06:30 129.571106 3.898673058 109.366599 113.8943024
22 01 2018 06:40 488.928894 5.762102127 547.6544464 119.9645996
22 01 2018 06:50 486.2420959 5.825852871 567.8062279 121.7799988
22 01 2018 07:00 151.1470032 4.091304779 140.1396573 115.4773026
22 01 2018 07:10 113.3759003 3.788979053 91.04636546 114.5623016
22 01 2018 07:20 47.43581009 3.515981913 53.81040794 105.6826019
22 01 2018 07:30 39.1360817 3.198690891 25.51635414 107.2205963
22 01 2018 07:40 503.6836853 5.561090946 486.7466954 97.98235321
22 01 2018 07:50 399.8417969 5.462802887 458.3628622 93.70612335
22 01 2018 08:00 332.615387 5.453619957 455.7562765 77.3428421
22 01 2018 08:10 162.9924011 4.330670834 186.9927263 52.3116188
22 01 2018 08:20 66.94348145 3.580082893 61.48234564 46.03536987
22 01 2018 08:30 71.76582336 3.714044094 79.63812847 50.16820908
22 01 2018 08:40 112.2918015 3.905025005 110.486421 37.93881989
22 01 2018 08:50 151.3256989 4.126790047 146.9051377 36.19710922
22 01 2018 09:00 270.133606 4.694416046 264.3241425 40.25667953
22 01 2018 09:10 256.0483093 4.728637218 272.0264887 41.1987915
22 01 2018 09:20 344.9108887 5.184467793 382.6437972 46.12997055
22 01 2018 09:30 170.842804 4.257061958 172.2720454 48.37517166
22 01 2018 09:40 150.8096924 4.12612009 146.7768506 42.54587936
22 01 2018 09:50 110.0708008 3.721698999 80.76232364 37.08604813
22 01 2018 10:00 438.9498901 5.145188808 372.4850426 32.57294846
22 01 2018 10:10 637.4852905 5.89201498 589.1605687 21.29009056
22 01 2018 10:20 1095.477051 6.84740591 948.7502154 16.60576057
22 01 2018 10:30 1148.584961 7.166333199 1092.658046 15.99580956
```

```
22 01 2018 10:40 854.5479126 6.650352001 866.0698566 16.16235924
22 01 2018 10:50 990.4127808 6.984970093 1009.237209 20.54330063
22 01 2018 11:00 658.2020264 6.133815765 670.0680956 24.34967041
22 01 2018 11:10 764.7988281 6.353196144 749.7533485 12.91215038
22 01 2018 11:20 890.9855957 6.803339005 929.8624285 14.09144974
22 01 2018 11:30 974.4118042 7.060925961 1043.652828 15.09654045
                 1083.625977 7.234548092 1125.1678
22 01 2018 11:40
                                                     16.25053978
                 1417.352051 7.595765114 1307.7092
                                                     18.16667938
22 01 2018 11:50
22 01 2018 12:00 1283.740967 7.31065321 1162.200177 17.75061035
22 01 2018 12:10
                 1429.177979 7.450623989 1232.491424 19.66926956
22 01 2018 12:20
                 1235.874023 6.819717884 936.8554738 16.23527908
22 01 2018 12:30 1444.598022 6.963112831 999.4695939 13.19225025
22 01 2018 12:40 1304.099976 6.844097137 947.3239116 14.15942001
22 01 2018 12:50 1441.369019 6.95676899 996.6458839 13.70293999
22 01 2018 13:00 1380.723022 6.922727108 981.5792496 13.46763992
22 01 2018 13:10 1443.197998 7.482796192 1249.061562 12.52355957
22 01 2018 13:20 1558.083984 7.770907879 1401.662155 13.04318047
22 01 2018 13:30 1692.001953 8.166786194 1626.905555 13.80333042
22 01 2018 13:40 1551.137939 7.552439213 1285.06894 13.65089035
22 01 2018 13:50 1255.30896 6.908615112 975.3755436 11.4514904
22 01 2018 14:00 1418.729004 7.089942932 1056.996976 12.12703037
22 01 2018 14:10 1446.911987 7.37702322 1195.170747 14.06521034
22 01 2018 14:20 1113.505005 6.714872837 892.64079
                                                     14.83670044
22 01 2018 14:30 571.0336304 5.568486214 488.918654 1.788643956
22 01 2018 14:40 869.1088867 6.285738945 724.6995229 7.86097908
22 01 2018 14:50 582.8297119 5.593732834 496.3723698 6.704555035
22 01 2018 15:00 753.9415894 6.038040161 636.8966372 1.38626802
22 01 2018 15:10 1548.463989 7.558160782 1288.04463 4.153283119
22 01 2018 15:20 1446.28894 7.508734226 1262.482869 8.352301598
22 01 2018 15:30 2998.823975 10.70635986 3158.605958 14.04981041
22 01 2018 15:40 2571.50293 9.816924095 2672.914654 10.63728046
22 01 2018 15:50 2841.933105 10.47939014 3055.904273 10.57371998
22 01 2018 16:00 2575.881104 9.854119301 2698.010134 9.166391373
22 01 2018 16:10 3067.712891 10.70331001 3157.313618 9.642766953
22 01 2018 16:20 3104.437988 11.06853008 3296.104943 8.981122971
                 3136.691895 11.55688953 3435.562446 6.353610039
22 01 2018 16:30
                 3396.366943 11.99322033 3520.891824 6.038497925
22 01 2018 16:40
22 01 2018 16:50 3288.941895 11.61655045 3449.302798 7.628939152
22 01 2018 17:00 3117.419922 11.17588043 3331.06852 12.33102989
22 01 2018 17:10 2875.156006 10.5001297 3065.849839 11.5274601
22 01 2018 17:20 3147.251953 11.01255989 3276.858494 6.734075069
22 01 2018 17:30 3312.434082 11.83936024 3494.730579 5.951634884
22 01 2018 17:40 2993.826904 10.40114021 3017.330435 9.345604897
22 01 2018 17:50 2857.224121 10.29329014 2961.385456 12.45792007
22 01 2018 18:00 2983.138916 10.81182003 3201.874942 12.26329994
22 01 2018 18:10 2653.586914 9.824960709 2678.375651 13.23538017
22 01 2018 18:20 2437.354004 9.924949646 2744.547926 15.77433014
22 01 2018 18:30 3581.496094 14.01473045 3600 12.36909962
22 01 2018 18:40 3596.596924 14.24232006 3600 11.87831974
22 01 2018 18:50
                 3497.436035 13.33162022 3600 13.59988022
22 01 2018 19:00
                 3545.269043 14.53044987 3600 13.03931046
22 01 2018 19:10 2759.313965 12.02888012 3526.36963 21.59878922
22 01 2018 19:20
                 2486.936035 10.50642014 3068.84361 16.9619503
22 01 2018 19:30 2457.406982 12.04881954 3529.338242 10.28884029
22 01 2018 19:40 2236.212891 11.95944977 3515.503185 12.41444969
22 01 2018 19:50 2138.024902 12.19530964 3549.107382 7.171991825
22 01 2018 20:00 2168.042969 12.50780964 3579.711125 9.038183212
22 01 2018 20:10 2046.468994 11.2603302 3356.81627 11.06521034
22 01 2018 20:20 2164.326904 11.41870022 3401.074894 10.54109001
```

```
22 01 2018 20:30 2066.592041 11.1361599 3318.426836 10.1101799
22 01 2018 20:40 2041.223022 11.10354042 3307.786856 11.28689957
                 2067.248047 11.14325047 3320.708745 10.78277016
22 01 2018 20:50
22 01 2018 21:00
                 2125.261963 11.35791016 3384.696113 10.62376022
22 01 2018 21:10
                 2034.322998 10.59714031 3110.855035 10.36289024
22 01 2018 21:20
                 2053.831055 10.99598026 3271.020912 9.971414566
                 2289.333984 13.54251957 3600 9.68595314
22 01 2018 21:30
22 01 2018 21:40
                 630.1135864 9.8876791
                                         2720.263016 14.33030987
22 01 2018 21:50
                 0
                       8.960214615 2118.375113 16.11914063
                       8.754008293 1986.778528 16.72706985
22 01 2018 22:00
                 0
22 01 2018 22:10
                 0
                       8.928613663 2098.076662 13.24578953
22 01 2018 22:20
                       8.722040176 1966.575214 16.71371078
22 01 2018 22:30
                       8.100255966 1587.921223 19.38726997
22 01 2018 22:40
                       8.651689529 1922.325725 15.3783102
22 01 2018 22:50 0
                       8.739006996 1977.290738 11.06573963
22 01 2018 23:00 0
                       7.90551281 1476.360895 17.24731064
22 01 2018 23:10 0
                       8.16013813 1622.991141 14.4426899
22 01 2018 23:20 0
                       8.221400261 1659.217019 16.29125023
22 01 2018 23:30 0
                       8.381188393 1755.253223 12.4711504
22 01 2018 23:40 0
                       8.003151894 1531.80218 16.74297905
22 01 2018 23:50 0
                       8.305521965 1709.506688 16.66503906
23 01 2018 00:00 0
                       9.682261467 2578.176674 18.49327087
23 01 2018 00:10 360.9625854 13.04911995 3600 18.75563049
23 01 2018 00:20
                 331.2095032 13.33547974 3600 18.48802948
23 01 2018 00:30
                 340.0592957 14.29728031 3600 17.99374962
23 01 2018 00:40 358.344696 13.74602032 3600 17.80664063
23 01 2018 00:50 413.4659119 14.58283043 3600 18.70454979
23 01 2018 01:00 756.3220215 12.5420599 3582.141158 19.05341911
23 01 2018 01:10 926.4478149 13.19886971 3600 18.94577026
23 01 2018 01:20
                 1257.243042 14.73484039 3600 17.76242065
23 01 2018 01:30
                 1090.694946 13.07166004 3600 18.83336067
23 01 2018 01:40 1268.16394 13.98104
                                         3600 17.8300705
23 01 2018 01:50
                 1445.630005 14.60042953 3600
                                              17.79231071
23 01 2018 02:00 1246.255005 13.03343964 3600 18.5041008
23 01 2018 02:10 1611.93396 14.63099957 3600 17.85930061
23 01 2018 02:20
                 1519.743042 13.65872002 3600 17.0394001
23 01 2018 02:30
                 1703.293945 14.64299965 3600
                                               17.42837906
23 01 2018 02:40
                 1628.531982 13.90507984 3600 17.58143044
23 01 2018 02:50 1582.062012 13.38317966 3600
                                              17.50226974
23 01 2018 03:00
                 1602.225952 13.11281013 3600
                                              17.66020966
23 01 2018 03:10
                 1623.578979 13.89482021 3600
                                              17.15175056
23 01 2018 03:20 1645.006958 13.79570961 3600 17.14410019
23 01 2018 03:30
                 1557.425049 11.49588013 3420.800229 15.85328007
                 1335.753052 11.53145027 3429.495148 13.99147987
23 01 2018 03:40
23 01 2018 03:50
                 919.6917114 10.82936001 3208.807454 12.19351959
23 01 2018 04:00
                 124.8814011 8.683794022 1942.482061 11.89682961
23 01 2018 04:10
                       7.851237774 1445.992388 13.53034973
23 01 2018 04:20
                       7.830850124 1434.670739 11.00459003
                 0
                       7.859854221 1450.791482 11.59463024
23 01 2018 04:30
                 0
23 01 2018 04:40
                 0
                       7.09462595 1059.160892 12.65194988
23 01 2018 04:50
                 0
                       7.967723846 1511.567962 14.62598038
23 01 2018 05:00
                       8.456531525 1801.257195 14.97185993
23 01 2018 05:10
                       7.92181921 1485.548609 16.38295937
23 01 2018 05:20
                       8.272549629 1689.721836 17.38105011
                 0
23 01 2018 05:30
                       7.622808933 1321.96505 25.55541992
                 0
23 01 2018 05:40
                 0
                       7.783967972 1408.818146 23.32928085
23 01 2018 05:50
                 0
                       8.016782761 1539.622115 19.74892044
23 01 2018 06:00 0
                    8.964058876 2120.847362 24.69137955
                    7.574865818 1296.757367 29.25230026
23 01 2018 06:10 0
```

```
7.321022987 1167.309601 26.55146027
23 01 2018 06:20 0
23 01 2018 06:30 0
                       7,280210018 1147,288715 26,11904907
23 01 2018 06:40 0
                       7.510736942 1263.512227 28.17355919
23 01 2018 06:50 0
                       6.77464819 917.6897686 26.65904045
23 01 2018 07:00 0
                       7.38744688 1200.407279 26.87031937
23 01 2018 07:10 0
                       8.685851097 1943.775705 27.16488075
23 01 2018 07:20 0
                       8.064143181 1566.94008 29.4704895
                       8.238451958 1669.360737 28.19636917
23 01 2018 07:30 0
23 01 2018 07:40 0
                       8.26156044 1683.148634 30.76291084
23 01 2018 07:50 35.71551895 8.415088654 1775.898195 31.29161072
23 01 2018 08:00
                 187.618103 10.91856956 3242.927392 22.46677971
23 01 2018 08:10 193.3553009 10.29257965 2961.006011 24.50919914
23 01 2018 08:20 172.922699 9.760771751 2634.156907 24.41461945
23 01 2018 08:30 261.9805908 10.57497978 3100.792208 23.74843025
23 01 2018 08:40 155.7958984 9.358519554 2377.194104 23.3566494
23 01 2018 08:50 121.0103989 8.432229042 1786.370575 24.30385017
23 01 2018 09:00 151.6221008 8.522649765 1841.979167 22.77417946
23 01 2018 09:10 263.1146851 9.798683167 2660.440013 22.91703987
23 01 2018 09:20 269.4656982 9.898097038 2727.096382 23.66320038
23 01 2018 09:30 146.9291992 8.296795845 1704.261604 25.09939003
23 01 2018 09:40 175.7469025 8.593851089 1886.176167 25.66500092
23 01 2018 09:50
                 206.8195953 8.697694778 1951.228833 24.0476799
23 01 2018 10:00
                 11.46607018 5.230813026 394.7927616 25.59081078
23 01 2018 10:10 0
                       5.071714878 353.8149708 26.75842094
23 01 2018 10:20 91.67402649 8.523942947 1842.778769 15.92930984
23 01 2018 10:30 151.3345947 8.148939133 1616.406491 19.45182037
23 01 2018 10:40 205.8466034 8.567489624 1869.772505 18.57851982
23 01 2018 10:50 5.464353085 6.913377762 977.4664808 18.8703804
23 01 2018 11:00 11.10632992 7.389925957 1201.65505 14.25747967
23 01 2018 11:10
                 179.070694 8.59488678 1886.821578 12.34016037
23 01 2018 11:20 249.0473938 9.208654404 2279.276314 12.20396042
23 01 2018 11:30 285.7990112 9.427689552 2422.530147 12.04675007
23 01 2018 11:40 272.6997986 8.685306549 1943.433227 13.24295998
23 01 2018 11:50 320.3623962 9.245710373 2303.440306 11.22809982
23 01 2018 12:00 267.1572876 8.672726631 1935.526442 14.24001026
23 01 2018 12:10
                 202.4963074 7.956357002 1505.104025 19.34700012
                 340.4093018 8.933514595 2101.221845 20.5672493
23 01 2018 12:20
                 301.866394 8.32735157 1722.656066 23.31464005
23 01 2018 12:30
23 01 2018 12:40 243.3188019 7.892660141 1469.139767 21.97385979
23 01 2018 12:50 349.3151855 9.264824867 2315.918
                                                     21.05275917
23 01 2018 13:00 240.0534973 8.129323006 1604.901446 23.07291985
23 01 2018 13:10 383.7547913 9.680261612 2576.72306 22.10531044
23 01 2018 13:20 419.884613 9.887129784 2719.901729 26.45495987
23 01 2018 13:30 336.1264038 8.479008675 1815.065034 25.12997055
23 01 2018 13:40 340.5551147 8.78726387 2007.855924 26.46229935
23 01 2018 13:50 298.9475098 8.064009666 1566.862749 28.5475502
23 01 2018 14:00 309.9442139 8.180094719 1634.75406 27.41160965
23 01 2018 14:10 409.4926147 8.922304153 2094.029099 27.17778015
23 01 2018 14:20 467.7885132 9.447174072 2435.312696 28.5717907
23 01 2018 14:30
                 388.2605896 8.286074638 1697.826183 27.67630005
23 01 2018 14:40
                 328.1683044 8.389473915 1760.290684 29.7092495
23 01 2018 14:50
                 240.5962067 7.442495823 1228.329985 26.45871925
23 01 2018 15:00
                 338.0703125 8.345222473 1733.450354 24.00534058
23 01 2018 15:10 357.7728882 8.424123764 1781.415623 23.58496094
23 01 2018 15:20 440.9749146 8.986639977 2135.381799 23.54217911
23 01 2018 15:30 435.6668091 8.936185837 2102.936568 22.7503891
23 01 2018 15:40 371.2449951 8.47029686 1809.70888 22.58308983
23 01 2018 15:50 314.2679138 7.684916019 1355.05679 24.23019981
23 01 2018 16:00 102.8296967 6.427991867 778.1106614 28.25568962
```

```
6.46745491 793.3191774 29.05591011
23 01 2018 16:10 0
23 01 2018 16:20 274.614502 7.640936852 1331.573524 26.7710495
23 01 2018 16:30
                 352.4570007 7.997700214 1528.679979 27.95676041
23 01 2018 16:40 371.7394104 7.980175018 1518.664243 26.19972992
23 01 2018 16:50
                 388.7504883 8.207766533 1651.125359 23.05999947
23 01 2018 17:00
                 336.5815125 8.054228783 1561.202585 22.95747948
                 295.2781982 7.658514977 1340.930439 21.79112053
23 01 2018 17:10
23 01 2018 17:20 318.2323914 7.853693962 1447.359552 22.73139954
23 01 2018 17:30 198.9886017 7.084617138 1054.539543 24.98456955
23 01 2018 17:40
                  302.1705933 7.806271076 1421.085031 25.97666931
23 01 2018 17:50
                  152.8003998 6.412228107 772.0833291 25.9822197
23 01 2018 18:00 210.6743011 6.922093868 981.3003469 26.63614082
23 01 2018 18:10 338.8537903 7.96156311 1508.062854 26.68088913
23 01 2018 18:20 448.9979858 8.65271759 1922.970195 25.58919907
23 01 2018 18:30 487.1953125 8.809163094 2021.768186 25.88405037
23 01 2018 18:40 362.5151978 7.714790821 1371.146151 26.90605927
23 01 2018 18:50 413.9067078 8.025324821 1544.532394 26.77140999
23 01 2018 19:00 517.0396729 8.932508469 2100.576075 27.7739296
23 01 2018 19:10 563.6088867 8.806694984 2020.198968 26.77947998
                  698.6873779 9.426843643 2421.975305 27.17410088
23 01 2018 19:20
23 01 2018 19:30
                  772.5430298 10.05187035 2823.934093 28.08600998
                 660.1906738 9.440234184 2430.759359 28.86985016
23 01 2018 19:40
                  785.3665771 10.02945995 2810.283758 28.04342079
23 01 2018 19:50
23 01 2018 20:00
                 723.6342773 9.801087379 2662.090554 27.94960976
23 01 2018 20:10 824.3048706 10.38739014 3010.3788
                                                      27.86804008
23 01 2018 20:20 775.1940918 10.28464031 2956.756084 28.09096909
23 01 2018 20:30 577.1989746 8.699566841 1952.407671 33.37796021
23 01 2018 20:40 534.4901123 8.643825531 1917.398138 33.43172836
23 01 2018 20:50 633.0106812 9.344672203 2368.12727 32.58560181
23 01 2018 21:00 539.3004761 8.562912941 1866.929381 32.6596489
23 01 2018 21:10 849.4003296 10.14035034 2876.325405 34.18659973
23 01 2018 21:20 803.5197144 9.378583908 2390.337403 32.35546112
23 01 2018 21:30 633.2089233 8.704778671 1955.690653 32.32102966
23 01 2018 21:40 595.6843872 8.359164238 1741.889568 33.33182907
23 01 2018 21:50 518.3076172 8.113028526 1595.372565 31.76844025
23 01 2018 22:00 632.4744873 8.759861946 1990.484172 32.8297081
23 01 2018 22:10 628.7227783 8.776116371 2000.783912 33.05033875
23 01 2018 22:20
                 488.4807129 7.77993679 1406.607198 32.11128998
23 01 2018 22:30 731.1738281 9.17361927 2256.463698 32.62042999
23 01 2018 22:40 838.2561035 9.431189537 2424.825924 31.63178062
23 01 2018 22:50 669.6264038 8.55506134 1862.055135 26.18362045
23 01 2018 23:00 503.5935059 7.870829105 1456.916291 26.60820961
23 01 2018 23:10 966.9312134 10.01966953 2804.271447 26.19791985
23 01 2018 23:20 808.7180176 9.526602745 2460.8252 26.29776955
23 01 2018 23:30
                 752.4691772 9.167015076 2252.167362 26.78174019
23 01 2018 23:40
                 861.8441162 9.530344009 2463.747333 26.25798035
23 01 2018 23:50
                 721.2720947 8.471339226 1810.349448 26.82954025
                 802.4752808 8.972614288 2126.351597 26.84016991
24 01 2018 00:00
24 01 2018 00:10 893.031311 9.077876091 2194.310904 26.77799034
24 01 2018 00:20
                  1141.159058 10.21910954 2920.983586 27.03709984
24 01 2018 00:30
                  981.3461304 9.455108643 2440.519327 28.04067993
24 01 2018 00:40
                  1009.817017 9.29978466 2338.76077 25.90026093
24 01 2018 00:50
                  884.0192261 9.66652298 2566.699495 26.46943092
24 01 2018 01:00
                        9.168722153 2253.277773 32.19675064
                 0
24 01 2018 01:10
                        8.318891525 1717.555302 29.51025963
                  0
24 01 2018 01:20
                 0
                        8.1387043
                                   1610.399098 29.45713997
                    7.38186121 1197.599216 24.45735931 7.141849041 1081.143484 24.12651062 7.441689968 1227.91795 21.83020973
24 01 2018 01:30 0
24 01 2018 01:40 0
24 01 2018 01:50 0
```

```
24 01 2018 02:00
                  0
                        7.774601936 1403.684186 20.19314957
24 01 2018 02:10
                        8.064570427 1567.187549 22.2722702
                  0
24 01 2018 02:20
                  0
                        7.995497227 1527.419196 22.43325996
24 01 2018 02:30
                  0
                        8.226186752 1662.061785 25.53540993
24 01 2018 02:40
                  0
                        8.991090775 2138.249058 26.88343048
24 01 2018 02:50
                  0
                        8.340668678 1730.697297 28.69116974
24 01 2018 03:00
                  0
                        9.364539146 2381.136583 27.21924019
                  217.5682983 9.703139305 2593.269402 29.38917923
24 01 2018 03:10
24 01 2018 03:20
                  0
                        9.177933693 2259.271112 28.41913986
                        9.69645977 2588.457083 34.04111862
24 01 2018 03:30
                  0
24 01 2018 03:40
                  0
                        9.667354584 2567.308089 27.2804203
24 01 2018 03:50
                        9.497820854 2468.557854 26.86323929
24 01 2018 04:00
                  91.64988708 9.940713882 2754.685176 28.42119026
24 01 2018 04:10
                  1.359599948 10.01144981 2799.200649 24.30168915
24 01 2018 04:20
                  0
                        8.866368294 2058.226267 27.30481911
                        9.151917458 2242.35049 28.08639908
24 01 2018 04:30
                  0
24 01 2018 04:40
                  0
                        9.078288078 2194.577703 23.98225975
24 01 2018 04:50
                  0
                        9.204242706 2276.401845 23.26775932
                  0
                        9.352516174 2373.262858 25.69046974
24 01 2018 05:00
                        9.443710327 2433.040025 27.41296959
24 01 2018 05:10
                  0
24 01 2018 05:20
                        9.24344635 2301.96296 29.21361923
                  0
24 01 2018 05:30
                  0
                        10.34611988 2989.198024 27.60391998
24 01 2018 05:40
                  0
                        9.436612129 2428.383113 30.23201942
24 01 2018 05:50
                  0
                        9.823722839 2677.535896 31.64289093
24 01 2018 06:00
                  183.9515076 10.62588978 3123.720094 29.82191086
24 01 2018 06:10
                        9.885891914 2719.087221 31.44548988
24 01 2018 06:20
                        9.73107338 2613.228755 30.70038033
                        8.809332848 2021.876127 27.30821037
24 01 2018 06:30
                  0
24 01 2018 06:40
                        8.862268448 2055.607921 30.29875946
                  0
24 01 2018 06:50
                  0
                        8.189011574 1640.021814 39.83877182
                  0
                        10.13749981 2874.674486 23.29470062
24 01 2018 07:00
                  0
24 01 2018 07:10
                        9.568508148 2493.266423 26.76399994
24 01 2018 07:20
                        9.348604202 2370.701484 28.49369049
24 01 2018 07:30
                  0
                        9.191914558 2268.372158 29.8633194
                        9.559497833 2486.34449 25.69776917
24 01 2018 07:40
                  0
24 01 2018 07:50
                  0
                        9.040950775 2170.423109 26.56790924
                        9.744865417 2622.985111 27.85539055
24 01 2018 08:00
                  0
                        9.513629913 2450.653278 22.85503006
24 01 2018 08:10
24 01 2018 08:20
                        10.12907982 2869.7837
                                                31.13166046
24 01 2018 08:30
                        9,208964348 2279,47828 27,45656967
24 01 2018 08:40
                        10.22430038 2923.86268 29.04692078
                        10.28151035 2955.075657 39.55976868
24 01 2018 08:50
                  0
24 01 2018 09:00
                  0
                        10.69340038 3153.098404 39.57852936
24 01 2018 09:10
                  0
                        10.4660902 3049.465429 37.20203018
24 01 2018 09:20
                  0
                        9.816235542 2672.445776 40.39704895
24 01 2018 09:30
                        8.196567535 1644.491324 45.42869949
24 01 2018 09:40
                  0
                        10.77124023 3185.549608 35.70317078
24 01 2018 09:50
                  0
                        10.22255039 2922.89293 33.28826904
                        10.15015984 2881.98808 35.96371078
24 01 2018 10:00
                  0
24 01 2018 10:10
                        9.901500702 2729.321304 28.32512093
24 01 2018 10:20
                  0
                        9.850370407 2695.501432 30.60794067
24 01 2018 10:30
                        9.308558464 2344.497685 31.55808067
24 01 2018 10:40
                        9.551112175 2479.8762
                                                32.90948105
24 01 2018 10:50
                        10.81735039 3204.068794 31.83542061
24 01 2018 11:00
                  0
                        10.2699604 2948.850333 28.19823074
24 01 2018 11:10
                  0
                        9.821756363 2676.200818 39.53047943
24 01 2018 11:20
                  0
                       9.631617546 2540.936785 30.83934021
24 01 2018 11:30
                  0
                      9.793242455 2656.697724 29.1685009
24 01 2018 11:40 0
                     9.470323563 2450.505179 29.78782082
```

```
9.29473877 2335.462144 23.23333931
24 01 2018 11:50
                  0
24 01 2018 12:00
                  0
                        9.953780174 2763.027328 23.11271095
24 01 2018 12:10
                  0
                        9.645496368 2551.231417 22.14219093
24 01 2018 12:20
                  0
                        9.685594559 2580.596288 21.32085991
                  0
                        10.66110992 3139.191306 19.78606033
24 01 2018 12:30
24 01 2018 12:40
                        9.135839462 2231.903746 24.02545929
24 01 2018 12:50
                  0
                        9.980690002 2780.037019 23.91080093
                        10.38774014 3010.556399 37.57463837
24 01 2018 13:00
                  0
24 01 2018 13:10
                  0
                        10.45238018 3042.777978 35.24998093
24 01 2018 13:20
                        10.86347008 3222.077151 41.11679077
                  0
24 01 2018 13:30
                        10.00553989 2795.541743 38.32379913
                  0
24 01 2018 13:40
                        9.542471886 2473.184974 37.18154144
24 01 2018 13:50
                        10.86021996 3220.824777 40.50799942
24 01 2018 14:00
                        10.58318996 3104.535266 26.27013016
24 01 2018 14:10
                  0
                        11.04582977 3288.384166 24.25849915
24 01 2018 14:20
                        10.11635017 2862.349101 28.91341019
24 01 2018 14:30
                  0
                        9.565741539 2491.144152 27.20396996
24 01 2018 14:40
                  0
                        10.38237
                                    3007.827712 26.39949036
                  0
                        11.11252022 3310.73932 28.03117943
24 01 2018 14:50
24 01 2018 15:00
                  0
                        11.68223
                                    3463.647941 40.34281158
24 01 2018 15:10
                        10.80755997 3200.179951 41.55271912
                  0
24 01 2018 15:20
                        11.06109047 3293.587338 46.07987976
                  0
24 01 2018 15:30
                        10.15466022 2884.576363 40.97026062
24 01 2018 15:40
                  0
                        9.816231728 2672.443178 44.34529114
24 01 2018 15:50
                        9.668741226 2568.322344 35.51107025
24 01 2018 16:00
                        9.804758072 2664.60684 47.22077942
24 01 2018 16:10
                        9.816525459 2672.643217 46.15896988
24 01 2018 16:20
                        10.67926979 3147.044979 43.96187973
                  0
24 01 2018 16:30
                        10.51978016 3075.166949 34.15304184
24 01 2018 16:40
                        8.968121529 2123.460739 36.17818069
                  0
                  0
                        10.02223015 2805.846805 28.19005966
24 01 2018 16:50
                  0
24 01 2018 17:00
                        10.41549969 3024.534447 35.58898163
24 01 2018 17:10
                        12.3264904 3563.832948 38.73295975
24 01 2018 17:20
                  0
                        10.87810993 3227.687151 32.16408157
                        11.44511032 3407.958184 29.14558029
24 01 2018 17:30
                  0
                        10.17531967 2896.380657 30.41930962
24 01 2018 17:40
24 01 2018 17:50
                  0
                        9.628113747 2538.327137 30.59679985
24 01 2018 18:00
                        9.765453339 2637.428711 28.40728951
                        10.22926998 2926.611683 41.31655121
24 01 2018 18:10
24 01 2018 18:20
                        9.728624344 2611.489556 41.24422073
24 01 2018 18:30
                        11.17224026 3329.924255 40.26322174
24 01 2018 18:40
                        11.80714035 3488.722562 43.61051941
                  0
24 01 2018 18:50
                        10.62576008 3123.662534 40.07809067
                  0
24 01 2018 19:00
                  0
                        10.32740974 2979.438308 42.13899994
                  0
                        9.525265694 2459.779657 42.38311005
24 01 2018 19:10
                        9.634257317 2542.900047 42.52846909
24 01 2018 19:20
24 01 2018 19:30
                  0
                        9.04023838 2169.962736 42.08779144
24 01 2018 19:40
                        9.73503685 2616.039107 43.51047897
                  0
24 01 2018 19:50
                  0
                        10.09272003 2848.418229 47.11328888
24 01 2018 20:00
                  0
                        8.837425232 2039.759633 38.85089111
                                                34.20687103
24 01 2018 20:10
                  0
                        9.464262962 2446.5272
24 01 2018 20:20
                        10.22017956 2921.577717 33.82078171
24 01 2018 20:30
                        10.80383015 3198.692317 32.67811966
24 01 2018 20:40
                        11.51716042 3426.03181 46.40290833
24 01 2018 20:50
                        9.49435997 2466.285329 40.41117859
                  0
24 01 2018 21:00
                  0
                        10.3435297 2987.852794 35.274189
24 01 2018 21:10
                  0
                        10.55832958 3093.14719 39.11278152
24 01 2018 21:20
                  0
                       9.005681038 2147.653892 38.12659836
24 01 2018 21:30
                       10.35217953 2992.337787 36.5946312
```

```
9.609884262 2524.679863 36.41928101
24 01 2018 21:40
                  0
24 01 2018 21:50
                        10.09420967 2849.301436 38.55401993
                  0
24 01 2018 22:00
                  0
                        10.09321976 2848.714592 42.2422905
24 01 2018 22:10
                  0
                        9.959686279 2766.780236 37.53662109
                  0
24 01 2018 22:20
                        9.493571281 2465.767465 31.64856911
24 01 2018 22:30
                        9.378009796 2389.961237 30.87605095
24 01 2018 22:40
                  0
                        10.30210972 2966.083671 34.62417984
                        10.17282963 2894.964634 39.2027092
24 01 2018 22:50
                  0
24 01 2018 23:00
                  0
                        10.04063034 2817.107152 31.10148048
                        10.32643986 2978.929697 34.28808975
24 01 2018 23:10
                  0
24 01 2018 23:20
                        8.630509377 1909.063097 39.46614075
                  0
24 01 2018 23:30
                        10.09152985 2847.712083 36.88199997
24 01 2018 23:40
                        10.18118954 2899.711423 33.53215027
24 01 2018 23:50
                        10.0798502 2840.759544 32.16889954
25 01 2018 00:00
                        11.63551044 3453.52732 36.89847183
                  0
25 01 2018 00:10
                  0
                        10.4547596 3043.942262 37.71063995
25 01 2018 00:20
                  0
                        10.54109955 3085.159274 32.94625854
25 01 2018 00:30
                  0
                        10.7919302 3193.923417 37.04973984
                  0
25 01 2018 00:40
                        10.31161022 2971.119823 39.1445694
25 01 2018 00:50
                  0
                        10.65347958 3135.866391 35.99605942
25 01 2018 01:00
                        11.56260967 3436.909456 38.68833923
                  0
25 01 2018 01:10
                        10.80895042 3200.733669 39.85438919
                  0
25 01 2018 01:20
                  0
                        11.21879005 3344.341585 39.06478882
25 01 2018 01:30
                  0
                        10.99654961 3271.222416 38.3620491
25 01 2018 01:40
                        10.22618008 2924.903305 35.15655136
25 01 2018 01:50
                        11.24895
                                     3353.435143 37.52738953
25 01 2018 02:00
                        11.89000988 3503.801053 36.70964813
25 01 2018 02:10
                        11.22591019 3346.50584 24.11603928
                  0
25 01 2018 02:20
                  0
                        10.52840996 3079.226218 34.11162186
25 01 2018 02:30
                  0
                        9.679788589 2576.379036 40.28010178
                        8.293682098 1702.391563 38.17469025
25 01 2018 02:40
                  0
25 01 2018 02:50
                  0
                        9.464027405 2446.372595 36.13618851
25 01 2018 03:00
                  0
                        8.812766075 2024.059526 32.06079102
25 01 2018 03:10
                        7.837561131 1438.392245 41.98936081
                  0
                        8.75455761 1987.126191 49.62844086
25 01 2018 03:20
                  0
25 01 2018 03:30
                  0
                        8.608436584 1895.271906 47.39588165
25 01 2018 03:40
                  0
                        9.204309464 2276.445337 50.79972839
25 01 2018 03:50
                  0
                        8.445554733 1794.527776 48.95594025
                        7.845445156 1442.770815 45.3971405
25 01 2018 04:00
25 01 2018 04:10
                        8.313373566 1714.231613 39.79737091
25 01 2018 04:20
                        8.100633621 1588.141314 33.44955063
                  0
25 01 2018 04:30
                        10.4078598 3020.70866 41.76433182
                  0
25 01 2018 04:40
                        9.701245308 2591.906419 36.63743973
                  0
25 01 2018 04:50
                  0
                        10.8217001 3205.789091 37.08296967
                  0
                        9.540787697 2471.87756 37.12395859
25 01 2018 05:00
25 01 2018 05:10
                        11.02768993 3282.131071 35.17906189
25 01 2018 05:20
                  0
                        11.04714012 3288.832988 37.06734085
                        11.24532032 3352.35098 35.97718048
25 01 2018 05:30
                  0
25 01 2018 05:40
                  0
                        10.38057041 3006.911513 31.3361702
25 01 2018 05:50
                  0
                        10.81836033 3204.468631 33.74766922
25 01 2018 06:00
                  0
                        10.31455994 2972.678227 40.65581894
25 01 2018 06:10
                        9.315612793 2349.111422 47.3547287
25 01 2018 06:20
                        10.29636955 2963.028391 46.10012054
25 01 2018 06:30
                        9.040837288 2170.349769 46.86072159
                  0
25 01 2018 06:40
                        8.978664398 2130.245861 45.17380142
                  0
25 01 2018 06:50
                  0
                        9.683909416 2579.373462 41.26819992
25 01 2018 07:00
                  0
                        9.088892937 2201.447337 40.29957962
                  0
                        9.961401939 2767.868339 36.59318161
25 01 2018 07:10
25 01 2018 07:20
                        10.20131016 2911.051272 30.5350399
```

```
25 01 2018 07:30
                  0
                        9.723972321 2608.180251 32.46429825
25 01 2018 07:40
                        9.875417709 2712.175324 33.10871887
                  0
25 01 2018 07:50
                  0
                        10.61647987 3119.532755 32.75489044
25 01 2018 08:00
                  0
                        10.89396
                                     3233.703547 35.0141983
                  0
25 01 2018 08:10
                        11.35268021 3383.251829 39.74126816
25 01 2018 08:20
                        9.570378304 2494.699468 30.77202988
25 01 2018 08:30
                  0
                        8.678595543 1939.214003 31.88851929
                        10.91055965 3239.940856 35.23926926
25 01 2018 08:40
                  0
25 01 2018 08:50
                  0
                        10.92650986 3245.873126 35.26247025
25 01 2018 09:00
                        10.6582098 3137.929327 36.09138107
                  0
25 01 2018 09:10
                        10.76261044 3182.025864 38.47583008
                  0
25 01 2018 09:20
                        10.91065025 3239.974721 32.09341049
25 01 2018 09:30
                        9.197149277 2271.781177 31.05970001
25 01 2018 09:40
                        9.283875465 2328.362364 35.85282135
25 01 2018 09:50
                  0
                        9.185596466 2264.258623 38.49005127
25 01 2018 10:00
                  0
                        9.126107216 2225.584093 29.7921505
25 01 2018 10:10
                  0
                        8.734745026 1974.59751 30.4247303
25 01 2018 10:20
                  0
                        9.383377075 2393.478161 31.31119919
                  0
25 01 2018 10:30
                        9.955746651 2764.278114 34.93572998
                        8.942754745 2107.154616 33.69910049
25 01 2018 10:40
                  0
                        10.17846966 2898.169338 29.00655937
25 01 2018 10:50
                  0
25 01 2018 11:00
                        9.669726372 2569.042518 33.14516068
                  0
25 01 2018 11:10
                  0
                        9.191937447 2268.387062 32.06879044
25 01 2018 11:20
                  0
                        8.506475449 1831.988262 33.60198975
25 01 2018 11:30
                        9.01404953 2153.052014 25.93737984
25 01 2018 11:40
                        10.09496021 2849.746176 32.30722046
25 01 2018 11:50
                        8.33736515 1728.701172 33.45503998
                        8.738144875 1976.745862 31.91069984
25 01 2018 12:00
                  0
                        9.240867615 2300.280407 35.98080063
25 01 2018 12:10
                  0
                        9.145021439 2237.868799 28.64909935
25 01 2018 12:20
                  0
                        10.06295013 2830.625587 28.66650009
25 01 2018 12:30
                  0
                  0
                        9.74934864 2626.142575 29.95595932
25 01 2018 12:40
25 01 2018 12:50
                        9.353391647 2373.836112 28.67724991
25 01 2018 13:00
                  0
                        9.10743618 2213.468539 32.88068008
                        9.172961235 2256.035558 37.71063995
25 01 2018 13:10
                  0
25 01 2018 13:20
                  0
                        8.829390526 2034.640646 31.10345078
25 01 2018 13:30
                  0
                        10.1248703 2867.330587 32.87260818
25 01 2018 13:40
                        10.17010021 2893.410372 37.52318954
                        10.09142971 2847.652652 34.93745041
25 01 2018 13:50
25 01 2018 14:00
                        10.10548019 2855.961866 33.121521
25 01 2018 14:10
                  0
                        9.684565544 2579.849699 32.79856873
                        10.26823997 2947.919755 34.64038849
25 01 2018 14:20
                  0
25 01 2018 14:30
                        9.099319458 2208.205209 31.41547012
                  0
25 01 2018 14:40
                  0
                        10.49164009 3061.792638 35.41727829
25 01 2018 14:50
                  0
                        8.962776184 2120.022392 38.07675934
25 01 2018 15:00
                        9.268413544 2318.261594 36.48646164
25 01 2018 15:10
                  0
                        8.93184185 2100.148238 39.92028046
                        9.802341461 2662.950741 36.43367004
25 01 2018 15:20
                  0
                        9.185713768 2264.334985 37.13871002
25 01 2018 15:30
                  0
25 01 2018 15:40
                  0
                        9.021674156 2157.972688 36.79872894
25 01 2018 15:50
                  0
                        8.843166351 2043.41935 36.99901962
25 01 2018 16:00
                        8.744251251 1980.606104 37.16965103
25 01 2018 16:10
                        8.94457531 2108.323977 36.47216034
25 01 2018 16:20
                        8.279460907 1693.861188 35.4612999
25 01 2018 16:30
                        8.838898659 2040.698721 33.59954071
                  0
25 01 2018 16:40
                  0
                        8.604261398 1892.666773 34.20275116
25 01 2018 16:50
                  0
                        7.414500237 1214.073095 34.7583313
25 01 2018 17:00
                  0
                        8.689694405 1946.193347 31.82939911
                        9.904568672 2731.323579 33.25310898
25 01 2018 17:10
```

```
8.443667412 1793.371651 36.7166214
25 01 2018 17:20
                  0
                        9.190074921 2267.174306 37.23733902
25 01 2018 17:30
                  0
25 01 2018 17:40
                  0
                        9.013113022 2152.447779 35.39139175
25 01 2018 17:50
                  0
                        8.112869263 1595.279555 46.2507515
                  0
25 01 2018 18:00
                        8.141860962 1612.250859 49.53667831
25 01 2018 18:10
                        8.007320404 1534.191586 37.23075104
25 01 2018 18:20
                  0
                        8.407950401 1771.543579 31.73148918
                        6.803812027 930.0639384 37.41828156
25 01 2018 18:30
                  0
25 01 2018 18:40
                  0
                        7.272953987 1143.753995 34.82400894
25 01 2018 18:50
                  0
                        7.878032207 1460.943518 35.73469925
                        8.196282387 1644.322558 31.34005928
25 01 2018 19:00
                  0
25 01 2018 19:10
                        7.205300808 1111.151172 39.77209854
25 01 2018 19:20
                        8.84441185 2044.21352 47.20737839
25 01 2018 19:30
                        9.461585999 2444.770248 49.09106827
25 01 2018 19:40
                        9.899345398 2727.912851 49.11468124
                  0
25 01 2018 19:50
                  0
                        7.520309925 1268.440046 43.90320969
25 01 2018 20:00
                  0
                        8.847302437 2046.056949 51.80234909
25 01 2018 20:10
                  0
                        8.051440239 1559.590624 57.93661118
25 01 2018 20:20
                        8.472258568 1810.91448 61.82254028
25 01 2018 20:30
                  0
                        9.414838791 2414.102177 57.26132965
                        9.023845673 2159.374523 58.97066879
25 01 2018 20:40
                  0
25 01 2018 20:50
                        8.22915554 1663.827262 59.43632126
                  0
                        9.06802845 2187.935448 56.56937027
25 01 2018 21:00
                  0
25 01 2018 21:10
                  0
                        9.614400864 2528.0721
                                                 57.16151047
25 01 2018 21:20
                        9.487151146 2461.552114 51.69995117
25 01 2018 21:30
                        8.697932243 1951.378353 45.86523056
25 01 2018 21:40
                        8.457343102 1801.755098 47.17562103
25 01 2018 21:50
                        7.090524197 1057.265409 47.83747101
                  0
25 01 2018 22:00
                  0
                        7.237455845 1126.567787 46.94348145
25 01 2018 22:10
                  0
                        7.458741188 1236.657251 45.24945068
25 01 2018 22:20
                  0
                        8.939584732 2105.118841 41.22694016
25 01 2018 22:30
                  0
                        8.173312187 1630.752107 43.01945114
25 01 2018 22:40
                        7.600490093 1310.193109 41.97045135
25 01 2018 22:50
                  0
                        8.820148468 2028.756511 44.73751831
25 01 2018 23:00
                  0
                        9.268918991 2318.591701 43.16648102
25 01 2018 23:10
                  0
                        8.549013138 1858.303309 38.72357941
25 01 2018 23:20
                  0
                        8.87827301 2065.833765 47.28773117
25 01 2018 23:30
                        8.310143471 1712.287183 38.15039825
25 01 2018 23:40
                        8.652269363 1922.689203 32.77135086
25 01 2018 23:50
                        8.989276886 2137.080431 31.46143913
26 01 2018 00:00
                        8.550347328 1859.130719 34.42066956
                  0
                        8.04429245 1555.462312 35.02957916
26 01 2018 00:10
                  0
26 01 2018 00:20
                        8.646418571 1919.022511 44.34859085
                  0
26 01 2018 00:30
                  0
                        8.705488205 1956.137719 36.8671608
26 01 2018 00:40
                  0
                        8.776004791 2000.713159 40.40565109
26 01 2018 00:50
                        8.828347206 2033.976177 39.43883896
26 01 2018 01:00
                  0
                        7.831172943 1434.849636 38.97832108
                        7.941703796 1496.791618 35.83372116
26 01 2018 01:10
                  0
                        8.656114578 1925.10016 35.10131073
26 01 2018 01:20
                  0
26 01 2018 01:30
                  0
                        9.501040459 2440.723262 36.18132019
26 01 2018 01:40
                  0
                        10.17269993 2894.890827 41.2516098
26 01 2018 01:50
                        8.034511566 1549.821597 40.76332092
26 01 2018 02:00
                        8.642547607 1916.597756 43.33280182
26 01 2018 02:10
                        8.533064842 1848.422366 37.34693909
                  0
26 01 2018 02:20
                        8.353517532 1738.469603 45.0812912
                  0
26 01 2018 02:30
                  0
                        7.653716087 1338.372095 43.20623016
26 01 2018 02:40
                  92.63098145 6.36322403 753.5198332 45.86750031
26 01 2018 02:50
                  2085.188965 9.625121117 2536.094788 48.58296967
26 01 2018 03:00 11.51914978 8.386575699 1758.527997 47.56750107
```

```
26 01 2018 03:10 0
                        8.016816139 1539.641288 51.1701889
26 01 2018 03:20
                        7,526569843 1271,669101 47,13568878
                 0
26 01 2018 03:30
                 1315.409058 8.839364052 2040.995362 51.86296082
26 01 2018 03:40
                 1824.188965 8.59798336 1888.751698 46.05442047
26 01 2018 03:50
                  1929.064941 8.869994164 2060.542591 46.85506058
26 01 2018 04:00
                  2825.944092 10.7905302 3193.360102 48.49536133
                  2483.875977 9.809094429 2667.573657 43.53889084
26 01 2018 04:10
26 01 2018 04:20
                  936.9766846 9.961642265 2768.020683 53.10626984
26 01 2018 04:30
                  185.2718048 10.26605034 2946.734149 55.39028931
                        9.187040329 2265.198584 51.61120987
26 01 2018 04:40
26 01 2018 04:50
                  959.1409302 10.35935974 2996.044837 49.71762085
                  2516.999023 10.89323997 3233.431528 49.55789948
26 01 2018 05:00
26 01 2018 05:10
                        9.31875515 2351.166934 51.79077148
26 01 2018 05:20
                        8.467763901 1808.152629 44.71617889
26 01 2018 05:30
                        9.320130348 2352.066554 44.40695953
                  0
26 01 2018 05:40
                  0
                        9.179080009 2260.017115 47.56259918
26 01 2018 05:50
                 194.9756012 9.687682152 2582.109791 51.33671188
26 01 2018 06:00
                  0
                        9.285188675 2329.220485 53.71110916
                  1406.593994 10.39027977 3011.844058 52.6774292
26 01 2018 06:10
                  3286.906006 10.88088036 3228.743046 47.80118942
26 01 2018 06:20
30 01 2018 14:40
                        10.55970001 3093.779174 0
                  0
                        10.25275993 2939.508216 0
30 01 2018 14:50
                  0
30 01 2018 15:00
                  0
                        10.15017986 2881.999611 230.0256958
30 01 2018 15:10
                  0
                        9.880011559 2715.211188 248.4606018
30 01 2018 15:20
                        9.25318718 2308.320036 256.1285095
30 01 2018 15:30
                        10.02348042 2806.61526 258.9352112
30 01 2018 15:40
                        10.79214001 3194.007797 259.6973877
30 01 2018 15:50
                        11.29160976 3365.969161 245.4835968
                  0
30 01 2018 16:00
                        12.1374197 3541.720525 236.4519958
                  0
                        12.64960003 3588.6196
30 01 2018 16:10
                  0
                                                245.2911072
                        12.56750965 3583.83149 248.9091949
30 01 2018 16:20
                  0
                  0
                        14.07544041 3600 253.5101929
30 01 2018 16:30
30 01 2018 16:40
                              0
30 01 2018 16:50
                        13.85980988 3600 0
                  0
30 01 2018 17:00
                        13.22558022 3600
                  0
                                          251.741806
30 01 2018 17:10
                  0
                        13.73330021 3600
                                          250.3480072
                        13.83384991 3600
30 01 2018 17:20
                  0
                                          250.4089966
30 01 2018 17:30
                  0
                        13.08067036 3600 247.2568054
30 01 2018 17:40
                        12.86120033 3596.369893 245.9528961
30 01 2018 17:50
                        12.34716034 3565.902453 243.3822021
30 01 2018 18:00
                        11.77443981 3482.433719 240.5953064
                        10.98490047 3267.084748 240.7794952
30 01 2018 18:10
                  0
30 01 2018 18:20
                        11.36112022 3385.579819 241.4732971
                  0
30 01 2018 18:30
                  0
                        10.95530033 3256.430607 240.7369995
30 01 2018 18:40
                  0
                        11.33041954 3377.041522 242.3137054
30 01 2018 18:50
                        11.40172005 3396.575297 243.9855042
30 01 2018 19:00
                  0
                        11.43379974 3405.027405 248.6392059
30 01 2018 19:10
                        11.47894955 3416.574405 251.4777069
                  0
30 01 2018 19:20
                  0
                        10.87744045 3227.431718 250.1784973
30 01 2018 19:30
                  0
                        10.53125
                                    3080.55779 253.1555939
30 01 2018 19:40
                  0
                        9.750003815 2626.603433 257.3456116
30 01 2018 19:50
                        9.383048058 2393.262559 257.6297913
30 01 2018 20:00
                        9.349851608 2371.518197 261.1982117
30 01 2018 20:10
                        10.00562954 2795.597325 256.6760864
                  0
30 01 2018 20:20
                        9.057992935 2181.441917 261.3952942
                  0
30 01 2018 20:30
                  0
                        9.111712456 2216.242391 265.8135986
30 01 2018 20:40
                  0
                        9.624085426 2535.321481 274.3044128
30 01 2018 20:50
                        6.885502815 965.2681977 275.5042114
                 0
                        5.868000984 581.3574409 281.2786865
30 01 2018 21:00 0
```

```
30 01 2018 21:10 557.7692261 6.597493172 844.6573087 285.2401123
                  1034.072998 7.049579144 1038.464504 285.9938049
30 01 2018 21:20
30 01 2018 21:30
                  894.4069824 6.808270931 931.9647656 295.3225098
30 01 2018 21:40
                  1176.317993 7.337158203 1175.290518 323.8375854
30 01 2018 21:50
                  1238.313965 7.625865936 1323.582434 334.4249878
                  1251.208008 7.618095875 1319.473834 336.5209045
30 01 2018 22:00
30 01 2018 22:10
                  1223.58606 7.436480999 1225.256961 330.0357056
                  1289.480957 7.679380894 1352.087913 337.9755859
30 01 2018 22:20
30 01 2018 22:30
                  1915.734009 9.012097359 2151.792513 348.836792
                  1864.769043 8.76226902 1992.008516 349.5808105
30 01 2018 22:40
30 01 2018 22:50
                  1268.900024 7.605641842 1312.904665 358.0466919
30 01 2018 23:00
                  1377.605957 7.782717228 1408.131956 357.4151001
30 01 2018 23:10
                  1434.946045 7.868896008 1455.836494 359.368103
30 01 2018 23:20
                  976.3803101 7.026661873 1028.036274 7.503048897
                  1250.404053 7.51920414 1267.870197 358.3445129
30 01 2018 23:30
30 01 2018 23:40
                 817.8649292 6.596618176 844.3055281 354.5899963
30 01 2018 23:50
                  700.5012817 6.334174156 742.6386595 349.6789856
31 01 2018 00:00
                  1340.303955 7.648462772 1335.574823 357.6723938
                  933.123291 6.856492996 952.6741708 0.50592798
31 01 2018 00:10
                  576.8709717 6.026659012 633.0199853 359.9059143
31 01 2018 00:20
31 01 2018 00:30
                  359.0282898 5.176438808 380.5570428 3.767940998
                  320.9796143 5.078282833 355.4665284 9.718143463
31 01 2018 00:40
31 01 2018 00:50
                  296.4699097 5.150135994 373.7576482 12.08545017
31 01 2018 01:00
                  291.1340942 5.06454277 352.0153525 18.48660088
31 01 2018 01:10
                  332.7909851 5.221426964 392.3179335 15.93062019
31 01 2018 01:20
                  257.2340088 4.858846188 302.0649374 22.94234085
31 01 2018 01:30
                  141.4476013 4.320408821 184.9230262 29.41513062
31 01 2018 01:40
                  104.7820969 4.06493187 135.1498559 35.61663055
31 01 2018 01:50
                  163.1098022 4.407832146 202.7415553 35.32653046
31 01 2018 02:00
                  87.61398315 4.061645985 134.5304179 40.45576096
                  63.77429962 3.815103054 95.23473683 34.89989853
31 01 2018 02:10
31 01 2018 02:20
                        1.834018946 0
                                          37.83338928
31 01 2018 02:30
                        1.90673995 0
                                          28.23320007
31 01 2018 02:40
                        1.590641975 0
                                          27.51305008
                  0
31 01 2018 02:50
                  0
                        2.371184111 0
                                          63.67464828
31 01 2018 03:00
                  0
                        0.816589773 0
                                          284.1575012
31 01 2018 03:10
                  0
                        1.256754994 0
                                          78.26667786
31 01 2018 03:20
                        1.356001019 0
                                          228.7716064
31 01 2018 03:30
                        1.884961009 0
                                          229.3621063
31 01 2018 03:40
                        1.83823204 0
                                          303,1809082
31 01 2018 03:50
                        1.045642018 0
                                          351.5202026
31 01 2018 04:00
                                          317.8363037
                  0
                        0.820318699 0
31 01 2018 04:10
                                          18.93312073
                  0
                        0.64102751 0
31 01 2018 04:20
                  0
                        0.399175912 0
                                          42.3904686
31 01 2018 04:30
                  0
                                          25.44301987
                        0.515336573 0
31 01 2018 04:40
                        0.755040526 0
                                          21.22286034
31 01 2018 04:50
                  0
                        1.240767002 0
                                          291.6517029
31 01 2018 05:00
                  0
                        2.484631062 0
                                          310.0864868
31 01 2018 05:10
                  0
                        1.93125999 0
                                          311.8132935
31 01 2018 05:20
                  0
                        1.062769055 0
                                          289.2974854
31 01 2018 05:30
                        1.64575398 0
                                          259.3049927
31 01 2018 05:40
                        2.489089012 0
                                          254.4718018
31 01 2018 05:50
                        2.901262999 0
                                          246.3983002
31 01 2018 06:00
                        2.970187902 0
                                          248.4181061
31 01 2018 06:10
                        2.902455091 0
                                          247.4777985
                  0
31 01 2018 06:20
                  0
                        2.951203108 0
                                          266.2579956
31 01 2018 06:30
                  0
                        3.161922932 23.27905668 269.6650085
31 01 2018 06:40
                  0
                        2.991806984 0
                                          252.9611969
31 01 2018 06:50
                        3.015290976 16.50801633 242.085907
```

```
31 01 2018 07:00
                        2.443516016 0
                                           242.9273071
                  0
31 01 2018 07:10
                  0
                        2.013961077 0
                                           251.9140015
31 01 2018 07:20
                        1.613901973 0
                                           250,6208954
                  0
31 01 2018 07:30
                  0
                        1.826704979 0
                                           248.8480988
31 01 2018 07:40
                  0
                        2.615058899 0
                                           260.2467957
31 01 2018 07:50
                        3.044774055 17.59314706 256.384491
31 01 2018 08:00
                  0
                        3.242577076 28.46995745 245.0948029
                        2.867436886 0
31 01 2018 08:10
                  0
                                           226.9913025
31 01 2018 08:20
                  0
                        2.400070906 0
                                           230.3694
31 01 2018 08:30
                  0
                        2.565201998 0
                                           245.6932068
31 01 2018 08:40
                  Θ
                        2.856595039 0
                                           259.2692871
31 01 2018 08:50
                        2.537666082 0
                                           290.9487915
31 01 2018 09:00
                        2.757738113 0
                                           267.1550903
31 01 2018 09:10
                  0
                        2.901516914 0
                                           253.7113037
31 01 2018 09:20
                        3.12562108 21.28232704 249.5735016
                  0
31 01 2018 09:30
                  0
                        2.598716974 0
                                           268.9999084
31 01 2018 09:40
                  0
                        2.806313038 0
                                           265.8815002
31 01 2018 09:50
                  0
                        2,475128889 0
                                           262.7767944
31 01 2018 10:00
                  0
                        3.114626884 20.71920611 267.6890869
31 01 2018 10:10
                  0
                        2.689776897 0
                                           291.9039917
31 01 2018 10:20
                        2.74040103 0
                                           284.0765991
                  0
31 01 2018 10:30
                        2.734661102 0
                                           236.2722931
                  0
31 01 2018 10:40
                  0
                        2.193589926 0
                                           226.5348969
                                           285.0046997
31 01 2018 10:50
                  0
                        2.34070611 0
31 01 2018 11:00
                  0
                        2.442485094 0
                                           311.0632019
31 01 2018 11:10
                        2.139549017 0
                                           311.1164856
31 01 2018 11:20
                        1.59751296 0
                                           256.7522888
31 01 2018 11:30
                        1.96618402 0
                                           249.3473969
                  0
31 01 2018 11:40
                  0
                        1.919034004 0
                                           262.1123962
31 01 2018 11:50
                  0
                        2.718166113 0
                                           263.8121948
31 01 2018 12:00
                                           256.5555115
                  0
                        2.322925091 0
31 01 2018 12:10
                  0
                                           259.1066895
                        2.85145092 0
31 01 2018 12:20
                        2,268924952 0
                                           264.4236145
                  0
                                           253.4412994
31 01 2018 12:30
                        2.79481101 0
                  0
31 01 2018 12:40
                        2.872869015 0
                                           271.9057922
                  0
31 01 2018 12:50
                  0
                        2.710208893 0
                                           300.569397
31 01 2018 13:00
                  0
                        2.310231924 0
                                           277.0610962
31 01 2018 13:10
                  0
                        2.878107071 0
                                           263.1636047
31 01 2018 13:20
                        2.736740112 0
                                           256.7668152
31 01 2018 13:30
                        2.577111959 0
                                           247.4924927
31 01 2018 13:40
                        3.399394989 41.54194823 229.2548981
                  0
                        3.282130957 31.39602075 231.2095947
31 01 2018 13:50
                  0
31 01 2018 14:00
                        3.609432936 65.21453419 219.9812927
31 01 2018 14:10
                  24.78989983 4.129543781 147.4326657 199.4465027
31 01 2018 14:20
                  62.32923889 3.723207951 80.9850336 201.5202026
31 01 2018 14:30
                  5.531274796 2.757188082 0
                                                 211.3276062
31 01 2018 14:40
                  7.139729023 3.020415068 16.68662416 210.7660065
                        3.237179995 28.09010781 233.1529999
31 01 2018 14:50
                  0
31 01 2018 15:00
                  0
                        2.746021986 0
                                           241.3863068
31 01 2018 15:10
                  0
                        2.871159077 0
                                           242.9443054
31 01 2018 15:20
                  0
                        2.764940977 0
                                           246.5565033
31 01 2018 15:30
                        2.878535032 0
                                           251.9512024
31 01 2018 15:40
                        3.131910086 21.6131444 254.0028076
31 01 2018 15:50
                        2.634340048 0
                                           248.9940033
                  0
31 01 2018 16:00
                        2.696902037 0
                                           253.8430023
                  0
31 01 2018 16:10
                  0
                        2.734405994 0
                                           249.6564026
31 01 2018 16:20
                  0
                        3.040003061 17.40811755 259.2612
                        3.103688955 20.17815853 262.4619141
31 01 2018 16:30
                  0
31 01 2018 16:40
                  0
                        3.004355907 16.14090695 259.0114136
```

```
3.58792901 62.46657003 256.7298889
31 01 2018 16:50 0
31 01 2018 17:00 20.58789063 3.651137114 70.75475089 249.1013031
31 01 2018 17:10 46.81291962 3.457559109 47.39071852 259.5195923
31 01 2018 17:20 -0.488667488
                                   2.690104008 0
                                                     255,468399
31 01 2018 17:30 0
                       3.135729074 21.81712092 258.7557983
31 01 2018 17:40
                       3.126426935 21.32436352 269.8138123
31 01 2018 17:50
                 31.06485939 4.129921913 147.5051322 274.6119995
                243.6670074 4.819102764 292.7711129 274.8617859
31 01 2018 18:00
                 368.248291 5.461078167 457.8727151 276.9666138
31 01 2018 18:10
31 01 2018 18:20
                 405.2590942 5.678533077 521.8547138 273.5487976
31 01 2018 18:30
                 394.2608032 5.639920235 510.1656529 274.8422852
31 01 2018 18:40
                427.3411865 5.811295986 563.168381 275.7124939
31 01 2018 18:50
                338.4957886 5.378157139 434.6229038 276.6365051
31 01 2018 19:00 306.0920105 5.255715847 401.3945741 279.0763855
31 01 2018 19:10 257.1669922 4.884703159 308.1719778 277.6434021
31 01 2018 19:20 186.3780975 4.561055183 235.0360661 277.286499
31 01 2018 19:30 150.5924988 4.308765888 182.5817308 276.6900024
31 01 2018 19:40 169.9459076 4.432810783 207.9118296 273.5192871
31 01 2018 19:50 162.5034027 4.405230999 202.2052046 273.0197144
31 01 2018 20:00 148.1201935 4.333271027 187.5180591 276.5783081
31 01 2018 20:10 86.29924011 4.00209713 123.3894625 276.6104126
31 01 2018 20:20 70.62531281 3.899013996 109.4265411 272.1007996
31 01 2018 20:30 68.7144165 3.920233965 113.1939309 266.1300964
31 01 2018 20:40
                 73.55918884 3.967892885 121.9179033 267.2744141
31 01 2018 20:50 116.3972015 4.299338818 180.6913801 258.1571045
31 01 2018 21:00 124.4559021 4.261814117 173.2137252 250.7955017
31 01 2018 21:10 274.4287109 5.063973904 351.872785 239.1340027
31 01 2018 21:20 418.5873108 5.75596714 545.7368134 231.4029999
31 01 2018 21:30 458.0407104 5.786075115 555.1840607 225.0697021
31 01 2018 21:40 838.862793 6.929391861 984.5176702 224.091095
31 01 2018 21:50 1100.150024 7.474759102 1244.907264 226.4120941
31 01 2018 22:00 1069.063965 7.300974846 1157.445302 231.1571045
31 01 2018 22:10 899.3643188 6.951854229 994.4617356 235.9916992
31 01 2018 22:20 740.887085 6.61938715 853.4877462 237.9300995
31 01 2018 22:30 712.5795288 6.47162199 794.9351275 236.0632019
31 01 2018 22:40 697.2678223 6.458735943 789.9442518 230.7303009
31 01 2018 22:50
                 866.3389282 6.886868
                                       965.8633932 227.1282043
31 01 2018 23:00
                 1026.090942 7.207455158 1112.179619 225.8220978
31 01 2018 23:10 1042.909058 7.263640881 1139.228046 223.7709045
31 01 2018 23:20 1040.98999 7.262351036 1138.602173 220.4600983
31 01 2018 23:30 799.1560059 6.612324238 850.6331376 218.0791016
31 01 2018 23:40 807.8502197 6.64978981 865.840442 217.6618042
31 01 2018 23:50 1077.588989 7.401707172 1207.597219 210.989502
01 02 2018 00:00
                 1048.959961 7.304613113 1159.231176 209.4839935
01 02 2018 00:10 979.9608765 7.163776875 1091.452072 212.3473969
01 02 2018 00:20 969.8032837 7.075486183 1050.334964 212.8506927
01 02 2018 00:30 986.7078247 7.054255009 1040.600521 213.9828949
01 02 2018 00:40
                 1254.062012 7.665124893 1344.459008 212.5735931
01 02 2018 00:50 1531.854004 8.378613472 1753.688825 209.0863037
01 02 2018 01:00
                 1647.985962 8.544137955 1855.280965 208.184494
01 02 2018 01:10
                 1759.162964 8.891946793 2074.580105 205.9474945
01 02 2018 01:20 2070.001953 9.467797279 2448.846964 203.7812958
01 02 2018 01:30 2349.626953 9.986474037 2783.663218 203.6071014
01 02 2018 01:40 2598.861084 10.44132996 3037.350769 204.3928986
01 02 2018 01:50 2881.657959 10.94509029 3252.708652 203.9580994
01 02 2018 02:00 3278.031006 11.72762012 3473.090795 202.5207977
01 02 2018 02:10 3298.879883 11.75205994 3478.017803 202.4127045
01 02 2018 02:20 3318.629883 11.87014961 3500.298621 200.9669037
01 02 2018 02:30 3448.175049 12.08732986 3534.881664 202.1286011
```

```
01 02 2018 02:40 3577.952881 12.67918968 3590.098867 200.5581055
01 02 2018 02:50
                 3598.479004 13.12724018 3600 201.0939026
01 02 2018 03:00
                 3603.194092 13.74808979 3600
                                              202.2044983
01 02 2018 03:10 3600.871094 13.72381973 3600 203.1799011
                 3601.156982 13.59587955 3600 202.3343964
01 02 2018 03:20
01 02 2018 03:30
                 3603.072998 13.71520996 3600 203.5948944
                 3603.434082 14.17415047 3600 204.0202942
01 02 2018 03:40
                 3603.688965 14.17166996 3600
01 02 2018 03:50
                                              203.6992035
01 02 2018 04:00
                 3603.565918 14.29284954 3600
                                              204.9118958
01 02 2018 04:10
                 3603.702881 14.14015007 3600
                                              202.5325928
01 02 2018 04:20
                 3603.653076 14.28324986 3600
                                              202.1473999
01 02 2018 04:30 3603.493896 14.82180023 3600 201.5968018
01 02 2018 04:40
                 3603.208008 15.29409027 3600
                                              201.7133942
01 02 2018 04:50
                 3603.63501 15.58183002 3600
                                              203.1217957
01 02 2018 05:00 3603.666016 15.62203026 3600
                                              203.9456024
01 02 2018 05:10 3603.336914 15.81826019 3600 199.5753937
01 02 2018 05:20 3603.485107 16.00909996 3600 199.5697021
01 02 2018 05:30 3603.542969 16.1455307 3600 200.8858032
01 02 2018 05:40 3603.52002 16.0315609 3600 199.8905945
01 02 2018 05:50
                 3603.375977 16.07241058 3600 198.5585022
01 02 2018 06:00 3603.138916 16.42658043 3600
                                              202.6036072
                 3603.150879 16.27462006 3600
01 02 2018 06:10
                                              203.5059967
01 02 2018 06:20
                 3603.290039 16.02776909 3600
                                              202.8256073
01 02 2018 06:30
                 3603.354004 15.90668964 3600
                                              203.6990051
01 02 2018 06:40 3603.110107 15.98458004 3600 200.8560028
01 02 2018 06:50 3603.070068 16.3017292 3600 198.8733063
01 02 2018 07:00 3603.290039 16.74374008 3600 200.1053925
01 02 2018 07:10 3602.888916 16.08974075 3600 197.8199005
01 02 2018 07:20 3603.104004 15.55249977 3600 197.1560974
01 02 2018 07:30 3602.660889 14.95512009 3600 197.184906
01 02 2018 07:40 3601.916992 15.84657955 3600 200.2268066
01 02 2018 07:50 3582.168945 13.45890045 3600 195.0491943
01 02 2018 08:00
                 3127.727051 10.7768898 3187.846549 194.602005
01 02 2018 08:10 3591.183105 14.73614025 3600 197.5263977
01 02 2018 08:20
                 3602.562988 14.88064957 3600 198.0823975
                 3601.860107 14.16022968 3600 194.9118042
01 02 2018 08:30
                 3595.912109 14.11410999 3600
01 02 2018 08:40
                                              193.8336945
01 02 2018 08:50
                 3595.168945 13.72568989 3600 194.1197052
01 02 2018 09:00 3590.108887 13.63955021 3600 194.633194
01 02 2018 09:10 3592,2229
                             14.22426987 3600 191.9161987
01 02 2018 09:20 3451.397949 13.10842037 3600 192.2505035
01 02 2018 09:30 3524.693115 12.96125984 3597.776612 192.2577972
01 02 2018 09:40 3591.820068 13.69501972 3600 191.0666962
01 02 2018 09:50 3249.639893 11.54627991 3433.047287 189.9185028
01 02 2018 10:00 3528.270996 13.26651955 3600 187.8395996
01 02 2018 10:10 3520.330078 14.07551956 3600 190.8892059
01 02 2018 10:20 3592.537109 13.90579987 3600 188.0397034
01 02 2018 10:30 3590.076904 14.20102024 3600 188.5979004
01 02 2018 10:40 3598.303955 13.78652954 3600 187.510498
01 02 2018 10:50
                 3547.341064 13.05255032 3600 192.8634949
01 02 2018 11:00
                 3592.822021 12.95417023 3597.724007 194.9064026
01 02 2018 11:10
                 3227.930908 11.47591019 3415.809799 194.1797943
01 02 2018 11:20
                 3401.683105 11.94305038 3512.815335 202.0444946
01 02 2018 11:30 3332.659912 11.58664989 3442.501706 203.3744965
01 02 2018 11:40
                 3519.195068 13.2282896 3600 207.7288971
01 02 2018 11:50 3603.042969 14.46080017 3600 210.713501
01 02 2018 12:00 3602.541016 13.58191013 3600 208.0146942
01 02 2018 12:10 3580.521973 14.98604012 3600 210.3809052
01 02 2018 12:20 3602.681885 15.52534962 3600 206.4942932
```

```
01 02 2018 12:30 3602.941895 14.29419994 3600
                                               202.6287994
01 02 2018 12:40
                 3567.235107 13.24092007 3600 204.8963928
01 02 2018 12:50
                 3593.980957 14.08401012 3600
                                               207.8894958
01 02 2018 13:00
                 3502.676025 13.1743803 3600 204.365097
                 3572.605957 12.90340996 3597.138048 202.4588013
01 02 2018 13:10
01 02 2018 13:20
                 3453.524902 12.34185028 3565.377249 204.8296967
                             12.17714024 3546.848195 204.2615051
01 02 2018 13:30
                 3514.4729
                 3310.069092 11.90120983 3505.74554 210.1967926
01 02 2018 13:40
                             12.11209965 3538.315745 211.2897949
01 02 2018 13:50
                 3497.3479
01 02 2018 14:00
                 3462.13501 12.27756977 3558.664596 212.199707
01 02 2018 14:10
                 3308.635986 11.68010044 3463.195518 211.8457031
01 02 2018 14:20
                 3345.438965 11.94764042 3513.57234 215.1009064
01 02 2018 14:30
                 3409.305908 11.71805
                                         3471.131563 213.4488983
01 02 2018 14:40
                 3542.572998 12.39025974 3570.001145 216.3565979
01 02 2018 14:50
                 3285.303955 11.47132015 3414.651631 211.5765991
01 02 2018 15:00
                 3601.284912 13.90285015 3600 214.0041046
                             14.28260994 3600 214.0348969
01 02 2018 15:10
                 3603.0271
01 02 2018 15:20
                 3582.74707 13.50732994 3600 212.614502
01 02 2018 15:30
                 3599.788086 14.51453018 3600 214.0254059
                 3597.698975 14.61207008 3600 213.8889008
01 02 2018 15:40
01 02 2018 15:50
                 3602.436035 16.34477997 3600
                                               217.1728058
01 02 2018 16:00
                 3602.727051 15.7329998 3600
                                               217.4904022
01 02 2018 16:10
                 3602.312988 14.67728996 3600
                                               214.2799988
01 02 2018 16:20
                 3602.960938 15.40987968 3600
                                               215.7991943
01 02 2018 16:30
                 3602.610107 16.18814087 3600
                                               216.1325989
01 02 2018 16:40
                 3602.772949 15.13405037 3600
                                               210.9501953
01 02 2018 16:50
                 3602.85791 15.96313953 3600
                                               208.0110016
                 3602.729004 16.93906975 3600
01 02 2018 17:00
                                               208.6860046
01 02 2018 17:10
                 3602.187988 18.45926094 3600
                                               209.7041016
01 02 2018 17:20
                 3602.148926 18.22701073 3600
                                               210.2669983
01 02 2018 17:30
                 3602.106934 18.37099075 3600 204.6175995
01 02 2018 17:40
                 3602.406006 17.82807922 3600 199.8101959
01 02 2018 17:50
                 3602.391113 17.92086983 3600
                                               196.9920044
01 02 2018 18:00
                 3602.100098 17.54693031 3600
                                               193.3386993
01 02 2018 18:10
                 3602.349121 17.58315086 3600
                                               193.4232025
01 02 2018 18:20
                 3602.334961 18.20268059 3600
                                               193.0623016
01 02 2018 18:30
                 3602.172119 18.7849102 3600
                                               192.7597961
                 3602.589111 19.65395927 3600
01 02 2018 18:40
                                               193.8430939
                 3602.549072 18.77857971 3600
01 02 2018 18:50
                                               193.0621948
01 02 2018 19:00
                 3602.971924 18.63231087 3600
                                               190.6407928
01 02 2018 19:10
                 3602.670898 18.07914925 3600
                                               191.1580048
                 3602.770996 17.45800018 3600
01 02 2018 19:20
                                               193.5287018
01 02 2018 19:30
                 3602.670898 16.67737007 3600
                                               192.6340027
01 02 2018 19:40
                 3602.818115 15.66804981 3600
                                               196.2006073
01 02 2018 19:50
                 3602.593018 15.39078045 3600 196.3460999
01 02 2018 20:00
                 3496.166016 17.05507088 3600 197.2608032
                 3602.954102 17.16139984 3600
                                               196.3302002
01 02 2018 20:10
                                               196.5238037
01 02 2018 20:20
                 3602.615967 17.87846947 3600
                 3602.572021 18.5248394 3600
01 02 2018 20:30
                                               197.9624023
01 02 2018 20:40
                 3602.679932 18.44515991 3600
                                               196.3417969
01 02 2018 20:50
                 3602.883057 18.79821014 3600
                                               194.5346985
                 3603.309082 19.20457077 3600
01 02 2018 21:00
                                               197.1959076
01 02 2018 21:10
                 3602.895996 18.74267006 3600
                                               197.2131042
01 02 2018 21:20
                 3602.858887 18.86220932 3600
                                               195.9020996
01 02 2018 21:30
                 3602.99707 19.67931938 3600
                                               195.9850006
01 02 2018 21:40
                 3603.049072 20.14814949 3600
                                               196.7333069
01 02 2018 21:50
                 3602.631104 19.75909996 3600 197.9869995
01 02 2018 22:00
                 3602.606934 20.57554054 3600 201.1773987
01 02 2018 22:10 3602.685059 20.71032906 3600 200.9073944
```

```
01 02 2018 22:20
                 3602.537109 21.10598946 3600
                                               202,4053955
01 02 2018 22:30
                 3602.548096 21.75333977 3600
                                               200.9559937
01 02 2018 22:40
                 3602,428955 21,37599945 3600
                                               199.3271942
01 02 2018 22:50
                 3602.221924 21.92576027 3600
                                               200.6607056
01 02 2018 23:00
                 3602.220947 21.44915962 3600
                                               198.8713074
01 02 2018 23:10
                  3601.811035 19.33621025 3600
                                               197.8529968
01 02 2018 23:20
                  3601.795898 18.75452995 3600
                                               197.7801056
01 02 2018 23:30
                 3602.351074 19.32184982 3600
                                               198.8005981
01 02 2018 23:40
                 3602.604004 18.7791996 3600
                                               197.2366028
01 02 2018 23:50
                  3602.594971 19.38499069 3600
                                               197.3475037
02 02 2018 00:00
                 3602.834961 20.85445976 3600
                                               200.7411041
02 02 2018 00:10
                 3602.683105 20.84423065 3600
                                               199.8188019
02 02 2018 00:20
                  3602.51001 19.55344009 3600
                                               195.722702
02 02 2018 00:30
                 3602.510986 18.93346977 3600
                                               195.1656036
02 02 2018 00:40
                 3602.259033 20.29818916 3600
                                               197.7563019
02 02 2018 00:50
                 3601.964111 20.44898987 3600
                                               193.7492065
02 02 2018 01:00
                 3601.228027 20.24086952 3600
                                               193.3144073
02 02 2018 01:10
                 3602.001953 20.66122055 3600 194.2236023
02 02 2018 01:20
                 3601.686035 20.28232956 3600 192.8809052
                  3601.235107 20.78120995 3600
                                               195.3110962
02 02 2018 01:30
02 02 2018 01:40
                                               193.7917938
                 3601.708984 21.25330925 3600
                                               191.8123932
02 02 2018 01:50
                 3601.460938 21.94887924 3600
02 02 2018 02:00
                  3601.270996 20.03924942 3600
                                               189.9653015
02 02 2018 02:10
                  3600.852051 19.50947952 3600
                                               191.3023071
02 02 2018 02:20
                 3601.363037 18.93975067 3600
                                               191.6157074
02 02 2018 02:30
                 3601.480957 20.3712101 3600
                                               187.9434052
02 02 2018 02:40
                 3601.530029 20.7755909 3600
                                               189.4309998
02 02 2018 02:50
                 3600.989014 20.21064949 3600
                                               190.023407
02 02 2018 03:00
                 3601.524902 20.78144073 3600
                                               190.4297028
02 02 2018 03:10
                 3601.362061 20.6548996 3600
                                               188.0814056
02 02 2018 03:20
                 3601.076904 19.99378014 3600 190.0796967
02 02 2018 03:30
                 3601.068115 22.04430962 3600 189.4501038
02 02 2018 03:40
                 3600.291992 23.46376991 3600
                                               186.471405
02 02 2018 03:50
                 3600.654053 24.14598083 3600
                                               186.6609955
                 3601.082031 24.08805084 3600
02 02 2018 04:00
                                               184.0988007
02 02 2018 04:10
                  3600.833008 24.08706093 3600
                                               182.3063965
02 02 2018 04:20
                  3600.625
                             24.10103035 3600
                                               184.8950958
                  3601.103027 23.08287048 3600
02 02 2018 04:30
                                               187.591507
02 02 2018 04:40
                  3601.074951 23.69261932 3600
                                               188.8796997
02 02 2018 04:50
                 3601.294922 23.42963028 3600
                                               191.2245026
                 3600.903076 22.18059921 3600
02 02 2018 05:00
                                               190.3833008
                 3601.48999 21.98303986 3600
02 02 2018 05:10
                                               190.6772003
02 02 2018 05:20
                  3601.374023 22.16394997 3600
                                               189.7987976
02 02 2018 05:30
                 3601.510986 21.2699604 3600
                                               190.4761047
02 02 2018 05:40
                 3601.593018 20.87364006 3600 191.1690063
02 02 2018 05:50
                 3602.049072 20.59655952 3600
                                               191.2290039
02 02 2018 06:00
                 3601.75
                             20.18375015 3600
                                               189.7559967
                 3601.738037 19.60684967 3600
02 02 2018 06:10
                                               190.9792938
                                               190.8475952
02 02 2018 06:20
                 3601.996094 18.17180061 3600
                                               190.7642059
02 02 2018 06:30
                  3602.207031 18.30187988 3600
02 02 2018 06:40
                  3601.708984 18.83279991 3600
                                               189.9555969
02 02 2018 06:50
                  3601.986084 18.47846985 3600
                                               190.1741028
02 02 2018 07:00
                  3601.291016 20.40096092 3600
                                               188.4281006
02 02 2018 07:10
                 3601.464111 19.60096931 3600
                                               188.8076019
02 02 2018 07:20
                 3601.52002 20.17589951 3600
                                               191.7019958
02 02 2018 07:30
                 3601.550049 20.76405907 3600
                                               191.3195038
02 02 2018 07:40
                 3601.897949 20.66799927 3600 191.2133942
02 02 2018 07:50
                 3601.770996 18.97294998 3600 189.9391937
02 02 2018 08:00 3601.589111 17.96249962 3600 192.6954041
```

```
3601.668945 18.22739029 3600 194.7353973
02 02 2018 08:10
                 3602.147949 18.08786011 3600 194.4866028
02 02 2018 08:20
02 02 2018 08:30
                 3602.183105 18.44910049 3600
                                               194.4322052
02 02 2018 08:40
                 3602.100098 18.32560921 3600
                                               194.3892975
                 3601.662109 18.38776016 3600 194.7250061
02 02 2018 08:50
                 3602.269043 17.26919937 3600 196.6934967
02 02 2018 09:00
02 02 2018 09:10
                 3602.261963 17.84559059 3600 196.7395935
                 3601.88501 17.68736076 3600
02 02 2018 09:20
                                              194.0995026
                 2296.660889 17.44875908 3600 195.001297
02 02 2018 09:30
02 02 2018 09:40
                       17.3360405 3600 197.8444061
                 Θ
02 02 2018 09:50
                       17.66918945 3600 197.0979004
                 Θ
                 2623.875977 18.32579994 3600 192.5699005
02 02 2018 10:00
02 02 2018 10:10
                 3601.584961 18.83375931 3600 189.5594025
02 02 2018 10:20
                 3601.583008 18.40044022 3600 189.1894073
02 02 2018 10:30
                 3601.551025 19.45885086 3600 188.9927063
02 02 2018 10:40
                 3601.108887 20.61990929 3600
                                               191.9712982
02 02 2018 10:50
                 3601.583008 21.29050064 3600 192.8730011
02 02 2018 11:00
                 3601.830078 19.60355949 3600 191.6015015
02 02 2018 11:10
                 3601.85791 18.56505966 3600 192.1961975
                 3602.383057 17.73002052 3600 193.4143066
02 02 2018 11:20
02 02 2018 11:30
                 3602.25293 17.34115028 3600 193.7743988
                 3602.069092 18.34305
                                               197.1165009
02 02 2018 11:40
                                         3600
02 02 2018 11:50
                 3602.327881 18.56734085 3600
                                               198.0742035
02 02 2018 12:00
                 3601.7771
                             18.55763054 3600
                                               199.857193
02 02 2018 12:10
                 3602.212891 18.87369919 3600
                                               197.4450989
02 02 2018 12:20
                 3602.216064 18.74843979 3600
                                               196.8029938
02 02 2018 12:30
                 3601.72998 19.4437294 3600
                                               195.3336945
02 02 2018 12:40
                 3601.547119 19.83176994 3600
                                               195.8125
02 02 2018 12:50
                 3601.501953 19.57481003 3600
                                               195.5467072
02 02 2018 13:00
                 3602.336914 19.78092957 3600
                                               195.9871063
02 02 2018 13:10
                 3601.85498 17.90880966 3600 193.691803
02 02 2018 13:20
                 3602.52002 17.14808083 3600 191.6315002
02 02 2018 13:30
                 3598.97998 15.42965031 3600
                                              197.1537018
02 02 2018 13:40
                 3602.575928 16.02120018 3600 195.9087067
                 3602.512939 15.94507027 3600 199.3766022
02 02 2018 13:50
02 02 2018 14:00
                 3602.718018 14.96181965 3600
                                               199.7949982
02 02 2018 14:10
                 3602.710938 14.63696003 3600
                                               198.3572998
02 02 2018 14:20
                 3602.393066 15.74545002 3600
                                               199.1687012
02 02 2018 14:30
                 3602.302979 17.29009056 3600
                                               198.7828979
02 02 2018 14:40
                 3602.175049 16.8604908 3600
                                               200.8182068
02 02 2018 14:50
                 3602.638916 15.86091042 3600
                                               199.3334961
                 3602.355957 17.58398056 3600
02 02 2018 15:00
                                               199.8417053
02 02 2018 15:10
                 3602.123047 16.87704086 3600
                                               198.0863953
02 02 2018 15:20
                 3602.073975 17.97270012 3600
                                               200.0684967
02 02 2018 15:30
                 3602.437012 18.41033936 3600
                                               203.1322937
                 3602.579102 18.47933006 3600
                                               202.4380035
02 02 2018 15:40
                                               203.8578949
02 02 2018 15:50
                 3602.36499 18.44166946 3600
02 02 2018 16:00
                 3602.131104 17.32902908 3600
                                               203.0988007
02 02 2018 16:10
                 3602.721924 17.09465027 3600
                                               201.3860016
02 02 2018 16:20
                 3602.806885 18.67367935 3600
                                               201.9154053
02 02 2018 16:30
                 3602.663086 18.12409019 3600
                                               201.4739075
02 02 2018 16:40
                 3602.789063 17.05036926 3600
                                               203.2966003
02 02 2018 16:50
                 3602.865967 16.52049065 3600
                                               201.5030975
02 02 2018 17:00
                 3602.978027 16.1905899 3600
                                               200.2539978
02 02 2018 17:10
                 3602.680908 16.04586029 3600
                                               202.8128967
02 02 2018 17:20
                 3601.699951 15.89995956 3600
                                               203.3824005
02 02 2018 17:30
                 3602.775879 15.95606995 3600 205.1970062
02 02 2018 17:40 3602.983887 15.53087997 3600 204.2192993
02 02 2018 17:50 3602.797119 15.73038006 3600 202.8278046
```

```
02 02 2018 18:00 3588.5
                             15.23910999 3600
                                               203.1983948
                 3494.365967 14.20744038 3600
02 02 2018 18:10
                                               202.1578064
02 02 2018 18:20
                 3471.019043 14.34150982 3600
                                               200.6573029
02 02 2018 18:30
                 3462.144043 15.72056007 3600
                                               201.6136017
02 02 2018 18:40
                 3467.076904 16.31625938 3600
                                               201.7198944
02 02 2018 18:50
                 3548.886963 17.60033989 3600
                                               200.8825073
02 02 2018 19:00
                 3603.059082 17.50001907 3600
                                               202.4526978
                 3603.054932 17.88054085 3600
02 02 2018 19:10
                                               203.8809052
02 02 2018 19:20
                 3603.095947 16.59752083 3600
                                               201.2938995
                                               201.9015045
02 02 2018 19:30
                  3602.887939 15.75848007 3600
02 02 2018 19:40
                 3602.895996 16.20833015 3600
                                               205.2561035
02 02 2018 19:50
                 3603.081055 15.67667961 3600
                                               204.4644012
02 02 2018 20:00
                  3603.101074 16.3931694 3600
                                               207.4716034
02 02 2018 20:10
                 3603.083008 17.94812965 3600
                                               210.7221985
02 02 2018 20:20
                 3602.716064 17.58715057 3600
                                               207.3231964
02 02 2018 20:30
                 3602.707031 16.43515015 3600
                                               205.4898987
02 02 2018 20:40
                 3602.712891 17.03034019 3600
                                               207.6746063
02 02 2018 20:50
                 3602.434082 18.03970909 3600
                                               209.4855957
                 3602.684082 15.99761963 3600
02 02 2018 21:00
                                               204.845993
02 02 2018 21:10
                 3602.657959 16.65501976 3600
                                               208.3802948
02 02 2018 21:20
                 3602.561035 18.8393898 3600
                                               209.5397034
02 02 2018 21:30
                 3602.801025 19.79231071 3600
                                               208.8833008
02 02 2018 21:40
                  3602.801025 19.07261086 3600
                                               208.397995
02 02 2018 21:50
                 3603.158936 17.30514908 3600
                                               204.8173981
                 3603.14502 17.1117897 3600
02 02 2018 22:00
                                               198.6562042
02 02 2018 22:10
                 3602.951904 17.0464592 3600
                                               200.2837982
02 02 2018 22:20
                 3603.079102 16.58580017 3600
                                               202.0308075
02 02 2018 22:30
                 3602.709961 17.03186035 3600
                                               200.421402
02 02 2018 22:40
                 3602.935059 17.27129936 3600
                                               199.5899963
02 02 2018 22:50
                 3602.468994 16.3449192 3600
                                               191.9208984
02 02 2018 23:00
                 3602.613037 17.36190987 3600 192.1378937
02 02 2018 23:10
                 3602.626953 16.83328056 3600 194.7633057
02 02 2018 23:20
                 3602.697998 17.13839912 3600
                                               196.9338989
02 02 2018 23:30
                 3602.580078 17.13788033 3600
                                               196.4611053
                 3602.280029 16.57795906 3600
                                               195.5877991
02 02 2018 23:40
02 02 2018 23:50
                  3602.593994 16.39712906 3600
                                               193.2145996
03 02 2018 00:00
                  3602.360107 17.61376953 3600
                                               196.5762024
03 02 2018 00:10
                 3602.549072 17.51618958 3600
                                               196.7789001
03 02 2018 00:20
                 3602.634033 16.34948921 3600
                                               193.8811035
03 02 2018 00:30
                 3602.976074 16.06707954 3600
                                               190.769104
03 02 2018 00:40
                 3602.629883 16.11774063 3600
                                               189.5608978
03 02 2018 00:50
                 3602.418945 15.93290043 3600
                                               191.7826996
03 02 2018 01:00
                 3602.798096 15.86375999 3600
                                               195.4270935
03 02 2018 01:10
                 3602.325928 16.35514069 3600
                                               192.5749969
03 02 2018 01:20
                 3602.712891 17.28898048 3600
                                              191.4817963
03 02 2018 01:30
                 3602.532959 17.06958961 3600
                                               188.6269073
03 02 2018 01:40
                 3602.156006 17.53120041 3600
                                               187.4573975
                 3602.173096 18.23266029 3600
03 02 2018 01:50
                                               189.8672943
03 02 2018 02:00
                 3602.727051 17.4744606 3600
                                               189.8753967
03 02 2018 02:10
                  3602.762939 18.57218933 3600
                                               192,4293976
                  3602.63208 19.45853996 3600
03 02 2018 02:20
                                               192.6463928
03 02 2018 02:30
                  3602.49292 18.21965027 3600
                                               194.0084076
03 02 2018 02:40
                  3602.428955 18.90406036 3600
                                               192.4082031
03 02 2018 02:50
                 3602.313965 19.20782089 3600
                                               195.5865021
03 02 2018 03:00
                 3602.337891 17.88343048 3600
                                               194.9006958
03 02 2018 03:10
                 3602.36499 19.32666016 3600
                                               196.6029968
03 02 2018 03:20
                 3602.322998 19.0104599 3600 196.7523956
03 02 2018 03:30
                 3602.643066 19.14290047 3600 197.2738953
03 02 2018 03:40 3602.798096 19.34184074 3600 194.0578003
```

```
03 02 2018 03:50
                 3602.875
                              19.47039986 3600
                                               194.2397003
                  3602.876953 19.72878075 3600
03 02 2018 04:00
                                                196.4064026
                  3602.782959 19.20144081 3600
                                               196.1016998
03 02 2018 04:10
03 02 2018 04:20
                 3602.785889 19.22205925 3600
                                               193.5491028
03 02 2018 04:30
                  3603.039063 19.71910095 3600
                                               192.4167023
03 02 2018 04:40
                  3603.055908 19.79977989 3600
                                               191.7902069
03 02 2018 04:50
                  3602.62207 19.89149094 3600
                                               190.0737
                  3602.690918 19.69747925 3600
03 02 2018 05:00
                                                188.6815948
03 02 2018 05:10
                  3602.712891 19.40447998 3600
                                                185.9725037
                  3602.394043 19.49505997 3600
                                                187.2770996
03 02 2018 05:20
03 02 2018 05:30
                  3602.27002 19.75939941 3600
                                                190.8269043
03 02 2018 05:40
                  3602.558105 20.4930706 3600
                                               191.221405
03 02 2018 05:50
                  3602.533936 20.55344963 3600
                                                188.7386932
03 02 2018 06:00
                  3602.604004 20.54285049 3600
                                                188.542099
03 02 2018 06:10
                 3602.459961 19.16366005 3600
                                                184.5231018
03 02 2018 06:20
                 3602.499023 19.06818962 3600
                                                188.2772064
03 02 2018 06:30
                 3602.143066 18.78507996 3600
                                               188.952301
03 02 2018 06:40
                 3602.065918 18.56229019 3600
                                               187.0756073
03 02 2018 06:50
                 3602.418945 17.34830093 3600
                                               187.3822937
03 02 2018 07:00
                 3602.701904 17.62274933 3600
                                               185.906601
                 3602.593994 18.60573006 3600
                                                187.214798
03 02 2018 07:10
                                                187.2640991
03 02 2018 07:20
                  3603.009033 18.22542953 3600
03 02 2018 07:30
                  3602.829102 17.63862038 3600
                                                185.3276062
03 02 2018 07:40
                  3602.437012 18.76409912 3600
                                                189.3070068
03 02 2018 07:50
                  3602.487061 18.59609032 3600
                                                187.1701965
03 02 2018 08:00
                  3602.131104 18.70334053 3600
                                                185.1383057
03 02 2018 08:10
                 3602.019043 19.55822945 3600
                                                183.126297
03 02 2018 08:20
                  3602.218994 19.82154083 3600
                                                182.212204
03 02 2018 08:30
                  3601.804932 20.44037056 3600
                                                179.9855042
                  3602.35498 20.90732002 3600
03 02 2018 08:40
                                               182.645401
03 02 2018 08:50
                  3602.206055 18.95442009 3600
                                               179.8153076
03 02 2018 09:00
                  3602.386963 19.71632004 3600 180.7738037
03 02 2018 09:10
                  3602.250977 17.97843933 3600
                                               177.4149017
03 02 2018 09:20
                  3602.115967 19.33942986 3600
                                               179.5511017
                  3602.169922 20.14310074 3600
03 02 2018 09:30
                                                179.8379974
03 02 2018 09:40
                  3602.231934 20.06883049 3600
                                                176.883606
03 02 2018 09:50
                  3601.998047 18.44034958 3600
                                                178.0948029
03 02 2018 10:00
                  3602.686035 18.50139999 3600
                                                180.7866974
03 02 2018 10:10
                  3602.38501 15.18682003 3600
                                                176.6213989
03 02 2018 10:20
                  3600.576904 15.0424099 3600
                                                180.3524017
03 02 2018 10:30
                 3602.564941 16.55257988 3600
                                                179.7136993
                 3602.541016 16.96879005 3600
03 02 2018 10:40
                                               184.6000061
03 02 2018 10:50
                  3602.917969 17.17085075 3600
                                                181.6710968
03 02 2018 11:00
                  3603.023926 16.84690094 3600
                                               185.2093964
03 02 2018 11:10
                  3602.831055 15.44019032 3600
                                               187.4797058
03 02 2018 11:20
                  3602.445068 15.5402298 3600
                                               193.0263062
03 02 2018 11:30
                  3602.764893 17.71718979 3600
                                               198.0379028
                 3602.769043 17.50344086 3600
                                                201.5025024
03 02 2018 11:40
03 02 2018 11:50
                 3602.425049 17.81847
                                          3600
                                                201.7657928
03 02 2018 12:00
                  3602.739014 17.53655052 3600
                                                198.6215057
03 02 2018 12:10
                  3602.092041 17.32374001 3600
                                                204.8096924
03 02 2018 12:20
                  3602.476074 20.63264084 3600
                                               202.4212952
03 02 2018 12:30
                  3602.541992 20.22648048 3600
                                                197.1027985
03 02 2018 12:40
                  3602.156982 18.97341919 3600
                                               198.0482025
03 02 2018 12:50
                  3601.741943 18.17514038 3600
                                               198.7669983
03 02 2018 13:00
                  3601.861084 18.57298088 3600
                                                195.1072998
03 02 2018 13:10
                  3601.961914 18.06781006 3600
                                               191.3497925
03 02 2018 13:20
                 3602.125977 17.71076965 3600
                                              192.2536926
03 02 2018 13:30
                 3602.156006 16.43629074 3600
                                               193.675705
```

```
03 02 2018 13:40
                 3600.39209 14.29397964 3600
                                               193.1495972
                 3602.149902 14.95726967 3600
03 02 2018 13:50
                                               192.9441986
03 02 2018 14:00
                  3602.272949 17.96224022 3600
                                               196.796402
03 02 2018 14:10
                 3601.666992 19.51202011 3600
                                               197.0493011
03 02 2018 14:20
                  3602.137939 18.29809952 3600
                                               196.3771973
03 02 2018 14:30
                  3602.465088 18.23413086 3600
                                               195.9046021
03 02 2018 14:40
                  3602.371094 19.21117973 3600
                                               199.5312042
                  3602.424072 18.83754921 3600
03 02 2018 14:50
                                               199.0074005
03 02 2018 15:00
                  3602.581055 19.01184082 3600
                                                201.7053986
                  3602.750977 19.36916924 3600
03 02 2018 15:10
                                                199.4288025
03 02 2018 15:20
                  3602.295898 19.79294014 3600
                                                200.0596924
03 02 2018 15:30
                  3602.499023 17.65456009 3600
                                               196.6927948
03 02 2018 15:40
                  3602.102051 18.24625969 3600
                                                201.0343933
03 02 2018 15:50
                 3602.529053 19.56874084 3600
                                               201.3423004
03 02 2018 16:00
                 3602.345947 18.05236053 3600
                                               195.5242004
03 02 2018 16:10
                 3602.031006 17.93153
                                          3600
                                               195.4913025
03 02 2018 16:20
                 3602.268066 18.50091934 3600
                                               194.6242065
03 02 2018 16:30
                 3602.012939 19.92024994 3600 195.4387054
                 3602.576904 19.92601967 3600
03 02 2018 16:40
                                               198.440506
                                               200.6755981
03 02 2018 16:50
                  3602.717041 20.1593895 3600
                  3602.24292 20.20129013 3600
03 02 2018 17:00
                                               199.4644928
                  3601.811035 20.34436035 3600
                                                197.1809998
03 02 2018 17:10
03 02 2018 17:20
                  3602.437988 18.53167915 3600
                                                196.7440033
03 02 2018 17:30
                  3602.178955 20.9361496 3600
                                               197.9662933
03 02 2018 17:40
                  3602.196045 19.76913071 3600
                                               192.3482971
03 02 2018 17:50
                  3602.528076 19.35729027 3600
                                               192.5460968
03 02 2018 18:00
                 3602.441895 18.60956001 3600
                                               188.8506927
03 02 2018 18:10
                 3602.511963 18.84515953 3600
                                               187.4019928
03 02 2018 18:20
                  3602.281006 18.38311005 3600
                                               187.8251038
                  3601.410889 17.44568062 3600
03 02 2018 18:30
                                               193.7133026
                 3601.641113 21.94574928 3600 198.8845978
03 02 2018 18:40
03 02 2018 18:50
                  3601.86499 22.9490509 3600 198.0944061
03 02 2018 19:00
                  3602.185059 21.60074997 3600
                                               198.2785034
03 02 2018 19:10
                  3602.141113 21.1869297 3600
                                               199.2606964
                  3601.304932 20.12486076 3600
03 02 2018 19:20
                                               198.3751984
                  3601.61499 19.39373016 3600
03 02 2018 19:30
                                                195.2071075
03 02 2018 19:40
                  3601.480957 20.9726696 3600
                                                197.5615997
                  3601.458984 20.20754051 3600
                                               200.7740936
03 02 2018 19:50
03 02 2018 20:00
                  3601.809082 21.70255089 3600
                                               200.2879028
03 02 2018 20:10
                  3601.738037 22.50573921 3600
                                               197.8809052
03 02 2018 20:20
                 3601.912109 22.90702057 3600
                                               199.0644073
03 02 2018 20:30
                 3602.409912 21.08602905 3600
                                               197.3468933
03 02 2018 20:40
                  3602.082031 20.7176609 3600
                                               196.1855927
                                               197.8325958
03 02 2018 20:50
                  3601.803955 21.10367966 3600
03 02 2018 21:00
                  3602.054932 21.88081932 3600
                                               197.7642059
03 02 2018 21:10
                  3601.679932 22.54704094 3600
                                               199.4562988
03 02 2018 21:20
                  3601.094971 22.82368088 3600
                                               201.7785034
                  3601.948975 20.61584091 3600
                                               200.6703949
03 02 2018 21:30
03 02 2018 21:40
                 3602.324951 20.41954041 3600
                                                195.8134003
                                               199.7642975
03 02 2018 21:50
                  3602.394043 22.91988945 3600
03 02 2018 22:00
                  3602.656982 21.81892967 3600
                                               192.303299
03 02 2018 22:10
                  3602.25293 22.98251915 3600
                                               192.2765045
03 02 2018 22:20
                  3602.058105 23.18666077 3600
                                               191.8766937
03 02 2018 22:30
                  3602.120117 22.94248009 3600
                                               191.3101044
03 02 2018 22:40
                  3602.022949 24.58703041 3600
                                               192.7317963
03 02 2018 22:50
                  3601.618896 23.60680962 3600
                                               192.3769073
03 02 2018 23:00
                  3601.610107 24.03886032 3600 193.1504974
03 02 2018 23:10
                 3602.086914 23.89819908 3600
                                              198.0227051
03 02 2018 23:20 3601.940918 24.08365059 3600
                                              200.1118011
```

```
03 02 2018 23:30
                 3602.136963 23.14518929 3600
                                               198.6188049
03 02 2018 23:40
                  3601.749023 23.5803299 3600
                                                197.9174957
03 02 2018 23:50
                  3601.863037 23.5320797
                                         3600
                                                199.3226929
04 02 2018 00:00
                  3601.64209 23.43073082 3600
                                               201.5614014
04 02 2018 00:10
                  3600.780029 25.20601082 3600
                                               202.9701996
04 02 2018 00:20
                  3601.418945 23.81864929 3600
                                                205.5917969
04 02 2018 00:30
                  3601.563965 23.88027
                                          3600
                                                206.0688019
04 02 2018 00:40
                  3601.672119 23.27718925 3600
                                                203.3101959
04 02 2018 00:50
                  3601.400879 22.40611076 3600
                                                200.2608948
                  3601.378906 23.77718925 3600
                                                206.8123016
04 02 2018 01:00
                  3601.084961 23.41094017 3600
                                                206.302002
04 02 2018 01:10
04 02 2018 01:20
                  3601.412109 22.7897892 3600
                                               205.2026062
04 02 2018 01:30
                  3600.416016 23.2239399
                                         3600
                                                203.0722046
04 02 2018 01:40
                  3600.818115 23.05653
                                          3600
                                                203.2801971
04 02 2018 01:50
                  3601.162109 22.06685066 3600
                                               197.9322052
04 02 2018 02:00
                  3601.673096 20.26851082 3600
                                                197.5057983
04 02 2018 02:10
                  3601,694092 21,47205925 3600
                                               194.1987
04 02 2018 02:20
                  3601.584961 20.74136925 3600 193.383194
                  3601.839111 20.09828949 3600 189.5874939
04 02 2018 02:30
04 02 2018 02:40
                  3601.440918 20.1217804 3600
                                               192.3690948
                  3601.938965 20.5883503 3600
04 02 2018 02:50
                                               195.5056
                  3601.533936 20.24574089 3600
04 02 2018 03:00
                                                194.878006
04 02 2018 03:10
                  3601.353027 21.04911041 3600
                                                198.3069
04 02 2018 03:20
                  3601.591064 19.01288033 3600
                                                195.7637024
04 02 2018 03:30
                  3601.873047 20.2582798 3600
                                               194.4768066
04 02 2018 03:40
                  3601.761963 19.4293499 3600
                                               194.861496
04 02 2018 03:50
                 3602.062988 20.26663971 3600
                                               192.2189026
04 02 2018 04:00
                  3601.717041 20.10289001 3600
                                               190.5269928
04 02 2018 04:10
                  3601.614014 21.81476974 3600
                                                190.7097931
                  3601.766113 21.17089081 3600
04 02 2018 04:20
                                               191.8473053
                  3601.906006 22.50093079 3600 193.7080994
04 02 2018 04:30
04 02 2018 04:40
                  3602.304932 22.11414909 3600 196.0646973
04 02 2018 04:50
                  3602.037109 19.55855942 3600
                                               192.5364075
04 02 2018 05:00
                 3601.75
                              21.37492943 3600
                                               190.5153961
04 02 2018 05:10
                  3601.552979 22.81035995 3600
                                                188.2787018
04 02 2018 05:20
                  3601.395996 22.90280914 3600
                                                190.3665924
04 02 2018 05:30
                  3601.250977 23.23049927 3600
                                                191.1233978
04 02 2018 05:40
                  3601.633057 22.51111984 3600
                                               193.8796997
04 02 2018 05:50
                  3601.832031 22.97837067 3600
                                                194.4044037
04 02 2018 06:00
                  3601.960938 22.48122025 3600
                                               194.2863007
04 02 2018 06:10
                 3601.281982 22.81117058 3600
                                               195.8883057
04 02 2018 06:20
                 3601.474121 22.50209045 3600
                                               192.4924011
04 02 2018 06:30
                  3601.445068 21.90156937 3600
                                                190.9546051
                                               190.8401947
04 02 2018 06:40
                  3601.428955 21.77979088 3600
04 02 2018 06:50
                  3601.422119 21.82315063 3600
                                               193.6273041
04 02 2018 07:00
                  3601.87207 20.53854942 3600
                                               190.3493042
04 02 2018 07:10
                  3601.835938 19.95527077 3600
                                               189.8513031
04 02 2018 07:20
                  3602.551025 19.22987938 3600
                                               190.3742065
                  3602.61499 18.09962082 3600
04 02 2018 07:30
                                                187.2557983
04 02 2018 07:40
                  3602.559082 20.31522942 3600
                                                186.969101
                  3602.260986 20.63091087 3600
04 02 2018 07:50
                                                190.2709961
04 02 2018 08:00
                  3601.648926 21.1112709 3600
                                                191.5382996
04 02 2018 08:10
                  3601.572998 20.47796059 3600
                                                192.4210968
04 02 2018 08:20
                  3602.387939 18.90212059 3600
                                               190.1060028
04 02 2018 08:30
                  3602.143066 18.9350605 3600
                                               188.4606018
04 02 2018 08:40
                  3602.145996 18.88412094 3600
                                                186.4803009
04 02 2018 08:50
                  3602.050049 19.22125053 3600
                                               186.9718018
04 02 2018 09:00
                 3602.312988 20.63703918 3600
                                              183.1033936
04 02 2018 09:10 3602.830078 20.49856949 3600
                                               182.1703949
```

```
04 02 2018 09:20 3602.737061 20.92876053 3600 184.0991058
04 02 2018 09:30
                 3602.230957 20.93811035 3600
                                              186.430603
04 02 2018 09:40
                 3602.227051 19.4039402 3600
                                              188.7136993
04 02 2018 09:50
                 3602.433105 18.42778015 3600
                                              186.9037018
04 02 2018 10:00
                 3602.541992 16.82862091 3600 187.3439941
04 02 2018 10:10
                 3602.26709 15.46382999 3600 186.5545044
04 02 2018 10:20
                 3565.351074 14.57441044 3600
                                              189.384903
                 3599.791016 13.7080698 3600
04 02 2018 10:30
                                              193.3040924
04 02 2018 10:40
                 3600.819092 13.46558952 3600
                                               193.0335999
                 3600.198975 13.81079006 3600
04 02 2018 10:50
                                              198.6260071
04 02 2018 11:00
                 3602.754883 13.3748703 3600
                                              198.3226013
04 02 2018 11:10
                 3602.88501 14.04961014 3600 200.3677979
04 02 2018 11:20
                 3589.809082 13.76714039 3600 200.6983032
04 02 2018 11:30
                 3599.85791 14.56499004 3600 197.2192993
04 02 2018 11:40
                 3599.768066 14.43260956 3600 194.6768036
04 02 2018 11:50
                 3479.97998 12.41187
                                         3571.946765 200.0155029
04 02 2018 12:00
                 3426.033936 12.16475964 3545.277799 205.0393066
04 02 2018 12:10
                 3437.288086 13.27355003 3600 207.2848053
04 02 2018 12:20
                 3569.981934 13.23128033 3600 208.9638062
                 3525.093018 13.61236954 3600 210.2803955
04 02 2018 12:30
04 02 2018 12:40
                 3601.88208 14.24174976 3600 210.430603
04 02 2018 12:50
                 3525.300049 12.95333004 3597.717299 211.7236023
04 02 2018 13:00
                 3588.785889 13.53267002 3600 214.0429993
                 3458.49292 12.10258961 3537.00939 210.9429932
04 02 2018 13:10
04 02 2018 13:20
                 3488.572998 14.03287983 3600 213.6246948
04 02 2018 13:30
                 3558.306885 13.65167999 3600 215.7711945
04 02 2018 13:40
                 3602.720947 16.69978905 3600 216.2776031
04 02 2018 13:50 3602.045898 18.9889698 3600 208.9246063
                 3601.806885 18.58469963 3600 209.9031067
04 02 2018 14:00
                 3602.083008 19.7497406 3600 210.8800049
04 02 2018 14:10
04 02 2018 14:20
                 3601.970947 19.52578926 3600 213.1242065
04 02 2018 14:30
                 3602.13208 19.82304955 3600 215.0148926
04 02 2018 14:40
                 3602.10498 19.80794907 3600 219.732605
04 02 2018 14:50
                 3601.660889 19.89188957 3600 221.9629059
                 3601.895996 18.99662018 3600 219.2581024
04 02 2018 15:00
                 3601.253906 19.45998001 3600
04 02 2018 15:10
                                              221.747406
                 3601.850098 19.31773949 3600 218.920105
04 02 2018 15:20
                 3601.415039 18.79001045 3600 218.0639038
04 02 2018 15:30
04 02 2018 15:40
                 3602.025879 19.1350193 3600 219.4665985
04 02 2018 15:50
                 3602.266113 17.68148041 3600 221.2147064
04 02 2018 16:00 2141.956055 11.00426006 3273.944019 247.4008942
04 02 2018 16:10 20.98646927 3.714185953 79.65887655 340.1048889
04 02 2018 16:20
                 14.52744007 4.551527023 232.986611 278.8095093
04 02 2018 16:30 0
                       6.751720905 908.0324484 250.4176941
04 02 2018 16:40 0
                       4.292974949 179.4179676 252.1690979
04 02 2018 16:50 9.272751808 3.139275074 22.00860607 256.8595886
04 02 2018 17:00 5.40946722 2.89468503 0
                                               343.834198
                 3.419142008 3.878228903 105.8062053 320.4714966
04 02 2018 17:10
                 295.5759888 5.481222153 463.614303 334.0598145
04 02 2018 17:20
04 02 2018 17:30
                 716.5568848 6.167359829 681.9177396 358.713501
04 02 2018 17:40
                 765.0570068 6.201835155 694.2218274 12.70901966
04 02 2018 17:50
                 980.3986206 6.590003014 841.6487923 25.05541039
04 02 2018 18:00
                 1360.353027 7.346717834 1180.036711 16.87350082
04 02 2018 18:10
                 1623.562012 7.701592922 1364.024741 28.95215988
04 02 2018 18:20
                 1889.124023 8.290294647 1700.358079 36.04315948
04 02 2018 18:30
                 2314.636963 9.416955948 2415.490532 40.41738892
04 02 2018 18:40 2671.916992 9.777193069 2645.600714 40.63056183
04 02 2018 18:50 2686.187988 9.506465912 2445.009728 40.61930847
04 02 2018 19:00 2514.200928 9.041669846 2170.887816 29.93133926
```

```
04 02 2018 19:10 2438.437012 9.056148529 2180.248881 24.69392967
                 2528.373047 9.702296257 2592.662869 22.50749016
04 02 2018 19:20
                 2805.529053 10.4141798 3023.874642 27.2049408
04 02 2018 19:30
04 02 2018 19:40
                 1718.19397 7.850093842 1445.355886 34.52819824
                 1338.921997 7.396068096 1204.750435 38.68259048
04 02 2018 19:50
04 02 2018 20:00
                 1033.130981 6.796675205 927.0264521 45.77146912
04 02 2018 20:10
                 956.2230835 6.544991016 823.7023238 59.99991989
04 02 2018 20:20
                 834.2042847 6.646650791 864.5601605 75.94683075
04 02 2018 20:30
                 1030.343018 7.082478046 1053.553566 75.08669281
                 445.2567139 5.247375965 399.1778565 81.49337769
04 02 2018 20:40
04 02 2018 20:50
                 425.3548889 5.804669857 561.0644474 74.70110321
04 02 2018 21:00
                 664.9229126 6.418118954 774.3325305 69.59126282
04 02 2018 21:10
                 930.8381958 6.897141933 970.34996
                                                     71.8119278
04 02 2018 21:20
                 602.5551147 5.975889206 616.8906455 69.78848267
04 02 2018 21:30 703.6989136 6.111467838 662.240323 72.46499634
04 02 2018 21:40 867.7232056 6.578147888 836.8999851 75.45514679
04 02 2018 21:50
                 542.2039185 5.529679775 477.578477 81.89217377
04 02 2018 22:00
                 384.408905 5.660198212 516.2862451 65.5908432
04 02 2018 22:10 67.96362305 4.313614845 183.5559246 73.8197937
04 02 2018 22:20
                 0
                       3.335699081 35.75788047 56.26945877
04 02 2018 22:30
                       3.187710047 24.82552643 69.0995636
                 0
04 02 2018 22:40 0
                       2.463830948 0
                                         82.60282135
04 02 2018 22:50
                 0
                       2.567734003 0
                                         43.71281052
04 02 2018 23:00
                 0
                       3.466053963 48.2902305 32.72333908
04 02 2018 23:10 3.180130959 3.096636057 19.83943602 24.20441055
04 02 2018 23:20
                 46.62854004 3.404628992 42.04609745 28.60251045
04 02 2018 23:30
                 160.0903931 4.356062889 192.1387186 45.21414948
04 02 2018 23:40
                 139.1381989 4.324102879 185.6674044 52.07852173
                 159.9895935 4.472752094 216.2544052 51.0803299
04 02 2018 23:50
05 02 2018 00:00 90.93614197 4.021473885 126.9971679 44.03866959
05 02 2018 00:10 215.2503052 4.681109905 261.350267 32.39746857
05 02 2018 00:20
                 127.7878036 4.18219614 157.5901862 32.2060585
05 02 2018 00:30
                 90.46923828 3.842041969 99.66811726 26.32995987
05 02 2018 00:40
                 360.5354919 5.117607117 365.4260456 40.92047882
                 713.5919189 6.308504105 733.0995675 46.10055161
05 02 2018 00:50
                 189.0393982 4.401200771 201.3749415 55.79359818
05 02 2018 01:00
05 02 2018 01:10
                 241.3943024 4.747539043 276.3145411 56.71326065
05 02 2018 01:20 243.7290955 4.753910065 277.7653232 55.12553024
05 02 2018 01:30 572.3701172 6.110444069 661.8830074 54.69675827
05 02 2018 01:40 484.8666077 5.7861619
                                         555,2114239 49,24182892
05 02 2018 01:50 454.5144043 5.665929794 518.0234625 46.46633148
05 02 2018 02:00 414.9361877 5.512929916 472.7271227 46.61024094
05 02 2018 02:10 527.4904785 5.972830772 615.8663439 44.73767853
05 02 2018 02:20
                 338.8652039 5.327270985 420.656298 47.25120926
05 02 2018 02:30
                 399.2381897 5.578409195 491.8410872 46.47407913
05 02 2018 02:40 680.9163208 6.348268986 747.9067038 49.27566147
05 02 2018 02:50
                 742.4227905 6.551026821 826.0956102 43.89249039
                 460.5065918 5.719410896 534.3882373 39.91909027
05 02 2018 03:00
05 02 2018 03:10
                 678.9868164 6.368964195 755.6807648 37.28466034
05 02 2018 03:20
                 784.2675781 6.58412981 839.294181 42.45399857
05 02 2018 03:30
                 730.9805298 6.490719795 802.3656156 46.24303055
05 02 2018 03:40
                 570.5880127 5.945217133 606.6635037 43.50868988
05 02 2018 03:50
                 386.1635132 5.375985146 434.0221308 43.17879105
05 02 2018 04:00
                 382.0061035 5.354347229 428.0597101 39.04541016
05 02 2018 04:10 401.9544983 5.467133045 459.5946382 33.26200867
05 02 2018 04:20
                 724.9763184 6.434974194 780.7890865 32.39030075
05 02 2018 04:30 834.2346802 6.859965801 954.1764274 31.2251091
05 02 2018 04:40 468.499115 5.715485096 533.1774022 41.4881897
05 02 2018 04:50 449.1471863 5.656986237 515.3141051 48.08897018
```

```
05 02 2018 05:00 435.911499 5.543711185 481.662539 49.08758926
05 02 2018 05:10
                 603.6257935 6.123125076 666.3168256 44.94655991
05 02 2018 05:20
                 464.8263855 5.740540028 540.9313577 56.32091904
05 02 2018 05:30 581.2266846 5.965441227 613.3956412 45.23432159
05 02 2018 05:40 493.7936096 5.702354908 529.1387196 45.59017944
05 02 2018 05:50 492.5987854 5.731276035 538.0570883 50.48054123
05 02 2018 06:00
                 395.1559143 5.214464188 390.4867852 51.94303894
                 878.4708862 6.775430202 918.0202589 62.66703033
05 02 2018 06:10
                 752.7116699 6.534729958 819.6430192 64.38934326
05 02 2018 06:20
05 02 2018 06:30
                 990.007019 7.086670876 1055.48674 63.52228165
05 02 2018 06:40
                 818.2962036 6.616002083 852.1189003 63.95671082
05 02 2018 06:50 823.4569702 6.468023777 793.539665 67.35222626
05 02 2018 07:00
                 1122.862061 7.221436977 1118.869774 63.89999008
05 02 2018 07:10
                 1279.366943 7.7003479 1363.354048 66.89060211
05 02 2018 07:20 978.3087769 6.958967209 997.6237635 66.15589905
05 02 2018 07:30 924.3413696 6.971994877 1003.431568 67.65606689
05 02 2018 07:40 971.1400757 7.005173206 1018.319288 69.29402161
05 02 2018 07:50 961.1303711 6.945459843 991.6245499 71.98922729
05 02 2018 08:00 960.772522 6.940730095 989.5292438 72.12747192
05 02 2018 08:10 844.4735107 6.728840828 898.4566185 69.17804718
05 02 2018 08:20
                 880.6934204 6.806196213 931.0800196 64.41261292
                 1021.51001 7.082595825 1053.607839 64.14280701
05 02 2018 08:30
05 02 2018 08:40
                 1114.597046 7.280872822 1147.611965 63.33572006
05 02 2018 08:50
                 1170.302002 7.356275082 1184.79498 63.4278717
05 02 2018 09:00
                 1164.233032 7.494771957 1255.270172 61.68154907
05 02 2018 09:10
                 1367.454956 7.794148922 1414.410522 58.31232834
05 02 2018 09:20
                 1644.892944 8.285707474 1697.605966 58.11661911
                 1596.380005 8.13335228 1607.261663 59.35540009
05 02 2018 09:30
                 1556.074951 8.067358971 1568.80318 61.38853836
05 02 2018 09:40
                 1590.28894 8.167636871 1627.406737 59.54092026
05 02 2018 09:50
05 02 2018 10:00
                 1405.188965 7.793048859 1413.805673 57.83987045
05 02 2018 10:10
                 1392.904053 7.702568054 1364.550178 57.50151062
05 02 2018 10:20
                 1475.963013 7.892942905 1469.298439 56.81882095
05 02 2018 10:30
                 1619.301025 8.134918213 1608.179354 57.53897858
                 1726.154053 8.408372879 1771.801197 50.5621109
05 02 2018 10:40
                 1549.369995 7.931540966 1491.040065 51.25791931
05 02 2018 10:50
05 02 2018 11:00
                 1190.880981 7.233718872 1124.768773 53.3101387
                 1647.857056 8.190999985 1641.197494 53.2592392
05 02 2018 11:10
                 1368.785034 7.579988956 1299.436759 51.03638077
05 02 2018 11:20
                 1115.713989 7.115014076 1068.615426 51.21630859
05 02 2018 11:30
05 02 2018 11:40 1606.473999 8.114851952 1596.437618 53.41859055
05 02 2018 11:50 1593.406982 8.196517944 1644.461973 59.7756691
05 02 2018 12:00
                 1769.848999 8.604018211 1892.51507 60.92681122
05 02 2018 12:10
                 1941.516968 8.874915123 2063.687277 59.80117035
05 02 2018 12:20
                 1659.796021 8.363389969 1744.4506
                                                     60.58253098
05 02 2018 12:30
                 1618.573975 8.248006821 1675.056036 59.38024139
05 02 2018 12:40
                 1338.369019 7.640113831 1331.136385 57.53377151
                 1475.067017 7.957067013 1505.50738 60.21937943
05 02 2018 12:50
05 02 2018 13:00
                 1624.197998 8.152338982 1618.404244 59.39625931
05 02 2018 13:10
                 1626.233032 8.21471405 1655.246636 59.07081985
05 02 2018 13:20
                 1779.641968 8.577458382 1875.970188 61.44319916
05 02 2018 13:30
                 1551.359009 8.033430099 1549.198503 60.98762894
05 02 2018 13:40
                 1690.227051 8.353439331 1738.422258 58.78525162
05 02 2018 13:50
                 1922.421021 8.726878166 1969.629001 58.23181915
05 02 2018 14:00
                 1772.087036 8.461220741 1804.134712 54.76478958
05 02 2018 14:10
                 2139.062988 9.217158318 2284.818552 57.73239136
05 02 2018 14:20 2132.460938 9.271575928 2320.32704 58.33884048
05 02 2018 14:30 1810.967041 8.575583458 1874.804017 57.3638916
05 02 2018 14:40 1263.17395 7.44211483 1228.13517 55.56362915
```

```
05 02 2018 14:50 891.6629028 6.606472015 848.2721436 47.2024498
05 02 2018 15:00
                 958.3718872 6.790307999 924.3216385 51.95410156
                 1101.489014 7.267638206 1141.169158 54.10908127
05 02 2018 15:10
05 02 2018 15:20
                 1034.672974 7.087847233 1056.029533 58.23752975
05 02 2018 15:30
                 979.3325195 6.956054211 996.3280443 53.25767899
05 02 2018 15:40
                 1124.745972 7.287734985 1150.962299 55.67689133
05 02 2018 15:50
                 1525.14502 8.050027847 1558.774467 59.16476822
                 1686.546997 8.298155785 1705.07861 63.50244904
05 02 2018 16:00
05 02 2018 16:10
                 1663.014038 8.202323914 1647.899847 64.4108429
                 1849.946045 8.657298088 1925.842408 66.55140686
05 02 2018 16:20
05 02 2018 16:30
                 1779.980957 8.508914948 1833.493952 68.93891144
05 02 2018 16:40
                 1785.490967 8.461088181 1804.053345 68.44249725
05 02 2018 16:50
                 1712.746948 8.450180054 1797.362266 68.8631897
05 02 2018 17:00
                 1513.832031 8.032263756 1548.52664 71.16471863
                 1710.152954 8.566287994 1869.025892 72.21906281
05 02 2018 17:10
05 02 2018 17:20
                 1391.619995 7.901445866 1474.073956 71.81987762
05 02 2018 17:30
                 1338.10498 7.784567833 1409.147311 74.51290131
05 02 2018 17:40
                 1345.682983 8.078860283 1575.475002 75.62055969
05 02 2018 17:50
                 1237.03894 7.679223061 1352.003311 73.42472076
                 1382.876953 7.919365883 1484.164442 72.64346313
05 02 2018 18:00
                 1581.207031 8.497589111 1826.507109 73.34027863
05 02 2018 18:10
05 02 2018 18:20
                 1657.280029 8.663036346 1929.442431 73.57568359
05 02 2018 18:30
                 1792.883057 8.832827568 2036.830017 70.8659668
05 02 2018 18:40
                 1827.432983 8.875398636 2063.996323 71.35124969
05 02 2018 18:50
                 1638.812012 8.463162422 1805.326696 71.44158936
05 02 2018 19:00
                 1607.659058 8.460356712 1803.604382 72.89383698
05 02 2018 19:10
                 1753.859009 8.915228844 2089.492403 74.92144012
05 02 2018 19:20
                 1946.786011 9.456809998 2441.635839 76.02086639
                 1894.649048 9.094137192 2204.8459
05 02 2018 19:30
                                                     74.51569366
                 1743.177002 8.899352074 2079.320514 74.91319275
05 02 2018 19:40
05 02 2018 19:50
                 2287.075928 9.916630745 2739.166297 73.16616058
05 02 2018 20:00
                 2417.468018 9.957641602 2765.482243 72.52445221
05 02 2018 20:10
                 2154.219971 9.194907188 2270.320964 73.71278381
05 02 2018 20:20
                 2075.141113 9.162094116 2248.966879 75.27378082
05 02 2018 20:30 2300.910889 9.676610947 2574.065964 75.08512115
05 02 2018 20:40
                 2427.595947 9.960803032 2767.488607 75.69744873
05 02 2018 20:50
                 2779.174072 10.71094036 3160.542514 72.51793671
05 02 2018 21:00
                 2931.556885 11.04899979 3289.469299 73.95841217
05 02 2018 21:10
                 2655.802002 10.70044994 3156.099576 75.60359955
05 02 2018 21:20
                 2575.279053 10.5146904 3072.763557 75.96507263
05 02 2018 21:30
                 2535.159912 10.52427006 3077.281367 74.98278046
05 02 2018 21:40 2589.065918 10.33158016 2981.62226 75.20906067
05 02 2018 21:50
                 2817.375977 10.85610008 3219.233636 76.05255127
05 02 2018 22:00
                 2776.999023 10.86408043 3222.312057 75.60816193
05 02 2018 22:10
                 2768.256104 10.57656002 3101.514013 75.28370667
05 02 2018 22:20
                 2595.400879 10.39573002 3014.601441 71.05924988
                 2319.236084 9.838890076 2687.790223 69.26262665
05 02 2018 22:30
                 2442.781982 10.44797993 3040.620818 65.40335846
05 02 2018 22:40
05 02 2018 22:50 2403.86792 10.12432003 2867.009521 64.3779068
05 02 2018 23:00
                 2531.895996 10.14515972 2879.105291 63.32947922
05 02 2018 23:10
                 2283.076904 10.04936981 2822.418697 68.10262299
05 02 2018 23:20
                 2020.107056 9.611153603 2525.633943 68.9209137
05 02 2018 23:30
                 2063.915039 9.423308372 2419.656578 66.37573242
05 02 2018 23:40
                 1907.547974 8.959085464 2117.649074 58.3342514
05 02 2018 23:50
                 1731.685059 8.66688633 1931.858941 55.83956146
06 02 2018 00:00
                 1888.373047 9.087197304 2200.348676 58.74795914
06 02 2018 00:10
                 1842.10498 8.949677467 2111.601895 61.90866089
06 02 2018 00:20 1823.470947 8.954240799 2114.534594 63.61774826
06 02 2018 00:30 1886.972046 8.88651371 2071.103812 60.79333115
```

```
06 02 2018 00:40 1934.52002 9.246959686 2304.255575 66.57568359
                 1994.109009 9.360102654 2378.230881 64.88524628
06 02 2018 00:50
06 02 2018 01:00
                 1992.845947 9.069522858 2188.902721 61.75098038
06 02 2018 01:10 1857.858032 8.732018471 1972.875086 58.28348923
06 02 2018 01:20 1714.672974 8.589377403 1883.389111 60.57192993
06 02 2018 01:30
                 1649.865967 8.430089951 1785.062408 61.60894012
06 02 2018 01:40
                 1785.511963 8.767066002 1995.047288 63.00374985
                 1952.824951 9.030150414 2163.44561 57.84545898
06 02 2018 01:50
                 2028.206055 9.224302292 2289.47594 58.67559052
06 02 2018 02:00
                 2174.708984 9.498869896 2469.246707 62.23305893
06 02 2018 02:10
06 02 2018 02:20
                 1655.932983 8.372943878 1750.246118 62.32511902
06 02 2018 02:30 2134.059082 9.38079834 2391.788381 62.83124924
06 02 2018 02:40 2252.852051 9.413167953 2413.006545 55.95932007
06 02 2018 02:50
                 1615.859009 8.528061867 1845.326367 59.87537003
06 02 2018 03:00
                 1706.092041 8.565681458 1868.649067 55.41587067
06 02 2018 03:10 1711.833984 8.763092995 1992.530394 62.52434921
06 02 2018 03:20 317.1733093 9.566282272 2491.559165 73.35401917
06 02 2018 03:30 0
                       10.52122021 3075.845691 74.04577637
06 02 2018 03:40 0
                       10.46809959 3050.44129 76.43557739
06 02 2018 03:50 0
                       11.10101986 3306.954917 77.00018311
06 02 2018 04:00 1163.685059 9.800480843 2661.674336 65.12236786
                 2527.673096 9.999938011 2792.063456 61.80836105
06 02 2018 04:10
06 02 2018 04:20
                 2339.788086 9.722859383 2607.387446 62.22483063
06 02 2018 04:30
                 2171.155029 9.373889923 2387.261987 61.23077011
06 02 2018 04:40 2216.825928 9.730586052 2612.882839 58.35366058
06 02 2018 04:50 1841.412964 8.957921982 2116.901017 58.54014969
06 02 2018 05:00 1786.317017 9.057930946 2181.401818 58.64012909
06 02 2018 05:10 1948.667969 9.164011955 2250.214114 62.9890213
06 02 2018 05:20 1581.848022 8.180023193 1634.711835 69.58862305
                 1894.890991 9.265889168 2316.613013 67.2735672
06 02 2018 05:30
06 02 2018 05:40 2006.22998 9.492073059 2464.783726 67.07730103
06 02 2018 05:50 2406.449951 10.28394032 2956.380511 62.80012131
06 02 2018 06:00 2488.691895 10.16551018 2890.791591 65.70001221
06 02 2018 06:10 1987.715942 9.500037193 2439.929436 67.18325806
06 02 2018 06:20 1749.886963 8.786792755 2007.556912 68.99307251
                 1894.89502 9.09389782 2204.690753 69.92460632
06 02 2018 06:30
06 02 2018 06:40
                 1853.515991 8.972174644 2126.068672 67.97989655
06 02 2018 06:50
                 1977.884033 9.199741364 2273.469506 63.43576813
06 02 2018 07:00 1589.671997 8.318736076 1717.461634 65.41903687
06 02 2018 07:10 2455.656982 10.15659046 2885.684636 78.95593262
06 02 2018 07:20 3088.490967 11.35853004 3384.866928 77.4001236
06 02 2018 07:30 2698.138916 10.55745983 3092.745842 75.62100983
06 02 2018 07:40 2293.291992 9.672380447 2570.981059 77.06244659
06 02 2018 07:50
                 1993.777954 9.08069706 2196.137855 77.1519165
06 02 2018 08:00
                 1628.401978 8.200284004 1646.69161 73.88707733
06 02 2018 08:10
                 1824.618042 8.713008881 1960.878195 71.00991821
                 1551.708984 8.128398895 1604.360351 72.99469757
06 02 2018 08:20
                 1260.786011 7.529695988 1273.283632 71.08357239
06 02 2018 08:30
06 02 2018 08:40
                 722.484375 6.336555004 743.5270068 67.00074768
06 02 2018 08:50
                 715.9202271 6.341413021 745.3415468 69.43453979
                 498.4838867 5.539646149 480.4774582 74.61691284
06 02 2018 09:00
06 02 2018 09:10
                 340.6322021 4.872107029 305.1909501 83.26412201
06 02 2018 09:20
                 237.3500977 4.443695068 210.1760057 83.54979706
06 02 2018 09:30
                 145.344101 3.853199959 101.5384123 88.6904068
06 02 2018 09:40 94.34204102 3.656529903 71.49147804 79.25013733
06 02 2018 09:50
                 61.84149933 3.597080946 63.62704275 84.16615295
06 02 2018 10:00
                 20.7202301 3.111319065 20.55356482 92.12023163
06 02 2018 10:10 -0.581133723 2.702900887 0
                                                     107.1763992
06 02 2018 10:20 0 2.867815971 0
                                         125.9406967
```

```
06 02 2018 10:30 0
                                         109.7647018
                       2.887980938 0
06 02 2018 10:40 0
                       3.363503933 38.2029346 122.1735992
06 02 2018 10:50 0
                       3.357517004 37.66601678 135.9362946
06 02 2018 11:00 0
                       2.707729101 0
                                         127.5279007
                       3.314011097 33.93659262 139.3184052
06 02 2018 11:10 0
06 02 2018 11:20
                 0
                       3.721492052 80.73180816 142.5892944
06 02 2018 11:30 8.126452446 2.920875072 0
                                             147.9698029
06 02 2018 11:40 3.054002047 3.064359903 18.39089268 140.8863983
06 02 2018 11:50
                 1.820068955 2.697238922 0 145.4747925
06 02 2018 12:00 0
                       2.56191206 0
                                         151.1094971
06 02 2018 12:10 0
                       2.328350067 0
                                         171.3847961
06 02 2018 12:20 0
                       1.245074987 0
                                         193.5144958
06 02 2018 12:30 0
                       1.630573988 0
                                         135.3809052
06 02 2018 12:40 0
                       3.35353303 37.31190518 64.83409119
06 02 2018 12:50 44.15911865 3.733042955 82.44553253 62.10834885
06 02 2018 13:00 11.99777985 3.219695091 26.89151757 69.98713684
06 02 2018 13:10 9.086398125 3.037610054 17.31668302 77.2718811
06 02 2018 13:20 15.36458969 3.352974892 37.26249846 71.07565308
06 02 2018 13:30 60.49861908 3.774991035 88.84860154 64.38995361
06 02 2018 13:40 6.421671867 3.229309082 27.54450303 67.58838654
06 02 2018 13:50 0
                       3.725879908 81.38028826 75.74260712
06 02 2018 14:00 82.1727066 3.824599028 96.78425339 69.06963348
06 02 2018 14:10 82.61206055 3.935368061 115.9248507 76.6908493
06 02 2018 14:20 243.4024963 4.899655819 311.7256056 79.29902649
06 02 2018 14:30 219.5238953 4.752534866 277.4519351 76.8763504
06 02 2018 14:40 171.223999 4.363928795 193.7400562 73.59371185
06 02 2018 14:50 286.2514954 5.031552792 343.7890737 70.86853027
06 02 2018 15:00 321.0726013 5.208031178 388.7985314 70.62262726
06 02 2018 15:10 367.1564941 5.378434181 434.6995635 68.40873718
06 02 2018 15:20 550.1276245 6.011980057 628.0404829 60.81684113
06 02 2018 15:30 481.9761963 5.722742081 535.4168718 61.04711914
06 02 2018 15:40 439.9100037 5.601627827 498.7156619 63.35572052
06 02 2018 15:50 541.378418 6.052215099 641.7442701 69.07187653
06 02 2018 16:00 408.7174072 5.557596207 485.722094 67.18327332
06 02 2018 16:10 363.7973022 5.388604164 437.5183626 66.81822968
                 267.7843018 4.939517021 321.2787742 67.97902679
06 02 2018 16:20
06 02 2018 16:30 461.9674988 5.769215107 549.8825045 71.71008301
06 02 2018 16:40 553.0142212 6.217425823 699.8278807 72.49134827
06 02 2018 16:50 1.957460999 5.69215107 526.0118731 78.97975922
06 02 2018 17:00 370.0716858 5.837799072 571.6285178 74.29797363
06 02 2018 17:10 104.055603 3.518069983 54.04995998 79.91819
06 02 2018 17:20 54.30755997 2.921694994 0
                                           86.2180481
06 02 2018 17:30 50.99766159 3.24040103 28.31624535 95.05236816
06 02 2018 17:40
                 357.7094116 5.181285858 381.8161733 117.3666992
06 02 2018 17:50 538.0529175 5.85200882 576.1941592 124.6070023
06 02 2018 18:00
                 538.5836182 5.98157692 618.7981885 131.2684937
                 531.1331177 5.896315098 590.5642042 135.2812958
06 02 2018 18:10
06 02 2018 18:20 427.857605 5.683623791 523.4066287 130.9308014
06 02 2018 18:30 397.789093 5.452492237 455.4366986 140.3023987
06 02 2018 18:40 453.8966064 5.685458183 523.9664687 141.2863007
06 02 2018 18:50
                 301.7113953 5.121811867 366.4982326 135.2742004
06 02 2018 19:00
                 327.5708923 5.296247959 412.251618 137.6235962
06 02 2018 19:10
                 325.4182129 5.332054138 421.9595191 145.5346985
06 02 2018 19:20 119.5457993 4.134925842 148.4647521 141.3625031
06 02 2018 19:30 56.63154984 3.701272964 77.78343652 141.7960052
06 02 2018 19:40 99.76674652 4.036222935 129.7544871 147.7411041
06 02 2018 19:50 205.8901978 4.780965805 283.9572483 142.2552948
06 02 2018 20:00 29.42983055 3.475649118 49.3201385 127.6877975
06 02 2018 20:10 142.449707 4.206460953 162.317493 149.4994965
```

```
06 02 2018 20:20 119.2654037 4.107018948 143.1282845 156.1352997
06 02 2018 20:30 65.21666718 3.583017111 61.84926367 167.9277954
06 02 2018 20:40 89.9489212 3.80298996 93.27910874 164.2507935
06 02 2018 20:50 23.31409073 3.131200075 21.57547918 163.2044067
06 02 2018 21:00 0
                       3.097289085 19.87046402 167.1011963
06 02 2018 21:10
                 190.7586975 4.687550068 262.7881613 158.5043945
06 02 2018 21:20
                 187.4593048 4.382316113 197.4967962 163.3404999
                 101.5820999 3.835633039 98.6028634 159.3435059
06 02 2018 21:30
                 79.29534149 3.71469593 79.73349162 154.7117004
06 02 2018 21:40
06 02 2018 21:50
                 102.5318985 3.864536047 103.4589596 157.6436005
06 02 2018 22:00
                 75.01634216 3.399463892 41.54855662 170.5802002
06 02 2018 22:10
                 121.9979019 3.504822969 52.54203346 164.0106049
06 02 2018 22:20
                 102.1706009 3.590080023 62.7381154 168.3435974
06 02 2018 22:30 50.97906113 3.168039083 23.63622136 182.1795959
06 02 2018 22:40
                 117.8676987 3.750610113 85.09276698 176.8444977
06 02 2018 22:50
                 71.6452713 3.451575041 46.76400271 186.5798035
06 02 2018 23:00 85.75518799 3.677339077 74.37790848 192.4788055
06 02 2018 23:10 5.417200089 2.582642078 0
                                               196.5072021
06 02 2018 23:20 0
                       2.069509983 0
                                         179.3536072
06 02 2018 23:30
                 0
                       2.555020094 0
                                         163.9958038
06 02 2018 23:40
                       2.73218894 0
                                         148.0695953
                 0
06 02 2018 23:50
                       2.812596083 0
                 0
                                         146.5357971
07 02 2018 00:00
                 0
                       2.930428028 0
                                         148.3388977
07 02 2018 00:10 0
                       2.915143967 0
                                         181.2765961
07 02 2018 00:20 0
                       2.400155067 0
                                         173.3446045
07 02 2018 00:30 0
                       2.331146955 0
                                         167.3695068
07 02 2018 00:40 0
                       2.555371046 0
                                         166.951004
07 02 2018 00:50
                                         157.8350067
                 0
                       2.736294985 0
07 02 2018 01:00
                 0
                       3.120635986 21.02459486 168.4801025
07 02 2018 01:10
                 0
                       3.054706097 17.99001565 186.8029022
07 02 2018 01:20
                 0
                       3.042362928 17.49918312 187.8753052
07 02 2018 01:30
                       3.167139053 23.58328676 179.0500031
07 02 2018 01:40
                 11.96080017 3.68276
                                         75.14121744 194.2601013
07 02 2018 01:50 83.66269684 3.865417004 103.6090713 191.9492035
07 02 2018 02:00
                 139.2713013 4.165195942 154.2956878 193.4774017
07 02 2018 02:10
                 137.709198 4.248292923 170.5374821 188.7599945
07 02 2018 02:20
                 138.0630035 4.128970146 147.3227454 186.7828979
                 159.5877075 4.230893135 167.1075137 190.6822968
07 02 2018 02:30
07 02 2018 02:40 208.3392944 4.543719769 231.3114863 191.6351929
07 02 2018 02:50 199.6091003 4.379971027 197.0166147 193.9087982
07 02 2018 03:00 289.6318054 4.891781807 309.8522573 201.2821045
07 02 2018 03:10 225.2261047 4.528644085 228.0874248 199.846405
07 02 2018 03:20 347.4281921 5.117162228 365.312684 204.2322998
07 02 2018 03:30 421.0103149 5.696714878 527.4091334 197.9889069
07 02 2018 03:40 407.7361145 5.726651192 536.6253668 198.8247986
07 02 2018 03:50
                 426.4086914 5.824760914 567.4575768 197.4705048
07 02 2018 04:00
                 430.6896973 5.699182034 528.1653326 195.9927979
                 589.8848877 6.185709953 688.4509727 205.4367981
07 02 2018 04:10
07 02 2018 04:20 504.6498108 6.019590855 630.6193972 207.6170044
07 02 2018 04:30
                 527.4938965 5.968586922 614.4466934 208.4040985
07 02 2018 04:40
                 472.3218079 5.60107708 498.5520037 203.2873993
07 02 2018 04:50
                 1061.291992 7.64751482 1335.070431 196.430603
07 02 2018 05:00
                 1229.348999 8.11506176 1596.560186 192.1271057
07 02 2018 05:10 1481.994995 8.503881454 1830.387683 195.2006073
07 02 2018 05:20 1224.490967 8.018351555 1540.523352 188.7268066
07 02 2018 05:30 992.6533203 7.32455492 1169.053387 188.9299927
07 02 2018 05:40 810.991394 6.914599895 978.0034829 191.1712036
07 02 2018 05:50 876.8740234 7.271286964 1142.942965 182.5505066
07 02 2018 06:00 535.2813721 6.301366806 730.4599779 165.254303
```

```
07 02 2018 06:10 565.0300293 6.363818169 753.7433354 148.978302
07 02 2018 06:20 491.3474121 6.081560135 651.8480976 128.7740021
07 02 2018 06:30
                 281.5396118 4.973139763 329.4282447 128.9857941
07 02 2018 06:40 406.5169983 5.508201122 471.3621957 120.790802
07 02 2018 06:50 403.2625122 5.315848827 417.5522065 118.8786011
07 02 2018 07:00 590.1055298 6.193690777 691.303652 121.8077011
07 02 2018 07:10
                 357.5486145 5.252007961 400.4083064 131.3688049
                 203.2003021 4.416793823 204.5923931 147.0800934
07 02 2018 07:20
07 02 2018 07:30 44.65365982 3.556335926 58.56352264 187.2561035
07 02 2018 07:40 0
                       1.505187988 0
                                         191,4207001
07 02 2018 07:50 0
                       1.19055903 0
                                         222.1291046
07 02 2018 08:00 0
                       2.371848106 0
                                         170.8921967
07 02 2018 08:10 0
                       2.222429991 0
                                         163.6145935
07 02 2018 08:20 0
                       2.787589073 0
                                         171.1544952
07 02 2018 08:30 85.90010071 3.950674057 118.7240628 186.8961029
07 02 2018 08:40 466.1759033 5.793556213 557.5456606 168.3643036
07 02 2018 08:50
                 234.2256012 4.377635002 196.5385955 158.1188049
07 02 2018 09:00 149.2947998 3.922476053 113.5961992 159.1714935
07 02 2018 09:10 434.0368958 5.536187172 479.470276 155.3352966
07 02 2018 09:20 324.8575134 5.028961182 343.1464035 158.1315002
07 02 2018 09:30 563.6942749 5.777218819 552.3956613 163.045105
07 02 2018 09:40 418.289093 5.231838226 395.0635211 159.2536926
07 02 2018 09:50
                 354.7168884 5.014107227 339.4728551 162.9248962
07 02 2018 10:00
                 169.8858948 4.13560915 148.595886 177.9996033
07 02 2018 10:10 258.6578064 4.678155899 260.6916399 182.2841949
07 02 2018 10:20 483.9118042 5.651154995 513.5517725 175.4062958
07 02 2018 10:30 681.0817261 6.168536186 682.3354794 171.6600037
07 02 2018 10:40 923.2619019 6.914065838 977.7687968 175.3945007
07 02 2018 10:50 715.87677 6.291052818 726.6552688 173.9837036
07 02 2018 11:00 613.7263794 6.023571014 631.9705386 171.1248932
07 02 2018 11:10 601.1503296 5.753532887 544.9769761 181.2826996
07 02 2018 11:20 415.8598938 5.428613186 448.6966976 182.5137939
07 02 2018 11:30 597.2803955 5.844624996 573.8191144 172.7725067
07 02 2018 11:40 407.3132019 5.226137161 393.5589571 173.6316071
07 02 2018 11:50 439.1017151 5.361138821 429.9267437 180.4909058
07 02 2018 12:00 577.1151733 5.803506851 560.6956301 168.1591034
07 02 2018 12:10
                 755.2006836 6.294487953 727.9211747 174.7812042
07 02 2018 12:20 507.060791 5.743484974 541.8468553 182.0991974
07 02 2018 12:30 533.2003784 5.755150795 545.4819301 180.8184052
07 02 2018 12:40 795.9605713 6.587820053 840.7731722 174.6315002
07 02 2018 12:50 1422.618042 7.688251972 1356.847935 182.9425049
07 02 2018 13:00 1380.796021 7.680727005 1352.809576 182.1697998
07 02 2018 13:10 1405.822021 7.610828876 1315.638258 186.6958008
07 02 2018 13:20
                 1604.453003 8.20361042 1648.662039 190.0679016
07 02 2018 13:30
                 1806.640991 8.497857094 1826.672319 184.6194
07 02 2018 13:40
                 2400.062988 10.11233997 2859.996857 186.2891998
07 02 2018 13:50
                 2398.321045 10.20234966 2911.633889 186.8890076
07 02 2018 14:00
                 2257.185059 9.991398811 2786.742415 182.7223969
07 02 2018 14:10 2346.043945 9.908916473 2734.155912 179.7966003
07 02 2018 14:20
                 2269.751953 9.591410637 2510.729755 178.8392029
07 02 2018 14:30
                 2784.685059 10.65328979 3135.783505 182.3639984
07 02 2018 14:40
                 2617.25293 10.35490036 2993.744216 176.6315002
07 02 2018 14:50
                 2734.292969 10.32188988 2976.540122 184.0290985
07 02 2018 15:00 2019.277954 9.090638161 2202.578233 192.0265045
07 02 2018 15:10
                 1895.140991 9.10088253 2209.21862 191.1766052
07 02 2018 15:20 1671.744019 8.449587822 1796.999244 191.4311981
07 02 2018 15:30 2438.925049 9.919957161 2741.320877 179.5993958
07 02 2018 15:40 3310.105957 12.00177956 3522.22645 179.2539978
07 02 2018 15:50 3586.280029 12.77657986 3594.055536 177.027298
```

```
07 02 2018 16:00 3413.868896 11.97192955 3517.517429 181.6869965
07 02 2018 16:10 2373.89502 9.653141975 2556.873717 185.509903
07 02 2018 16:20
                 1952.866943 9.123544693 2223.920615 181.3052063
07 02 2018 16:30 2014.218994 9.359781265 2378.0204
                                                    177.5596924
07 02 2018 16:40 2443.236084 10.25743961 2942.058357 172.5093994
07 02 2018 16:50 2668.791992 10.59599972 3110.340223 169.6999054
07 02 2018 17:00 2526.100098 10.3396101 2985.813532 163.5511932
                 3350.73999 11.87047958 3500.357383 169.1607971
07 02 2018 17:10
                 3374.14209 12.02713013 3526.105868 171.930603
07 02 2018 17:20
                 3385.63501 12.00430965 3522.618562 175.1033936
07 02 2018 17:30
07 02 2018 17:40
                 2581.927002 10.16835022 2892.412676 181.0715942
07 02 2018 17:50 2138.416016 9.520871162 2456.338654 179.6141968
07 02 2018 18:00 1901.562012 9.198182106 2272.453878 177.4087982
07 02 2018 18:10 1725.347046 8.922856331 2094.38325 178.6233978
07 02 2018 18:20 2494.863037 10.04343033 2818.811457 171.2247009
07 02 2018 18:30 3166.471924 11.45353985 3410.125818 174.528595
07 02 2018 18:40 3397.471924 11.86425018 3499.244795 180.2225952
07 02 2018 18:50 2936.323975 11.0033102 3273.609475 178.9463043
07 02 2018 19:00 1856.791992 9.088079453 2200.920239 170.5505066
07 02 2018 19:10 2130.26001 9.521576881 2456.891719 174.9022064
07 02 2018 19:20 2574.810059 10.28040981 2954.484127 176.8715973
07 02 2018 19:30 2038.859009 9.151041031 2241.780824 172.7919006
07 02 2018 19:40
                 2295.89502 9.565608978 2491.042395 176.6645966
07 02 2018 19:50
                 2599.704102 10.14910984 2881.383331 180.8760986
07 02 2018 20:00 2569.350098 10.07293034 2836.620699 179.4676056
07 02 2018 20:10 2195.927002 9.448180199 2435.972873 181.247406
07 02 2018 20:20 2002.831055 8.965286255 2121.636823 179.1728973
07 02 2018 20:30 2366.865967 9.603902817 2520.176319 176.4188995
07 02 2018 20:40 2861.01709 10.57030964 3098.655215 174.6148071
07 02 2018 20:50 2416.592041 9.680818558 2577.128021 174.5700989
07 02 2018 21:00 2432.587891 9.914326668 2737.671817 170.9393005
07 02 2018 21:10 2526.667969 10.1264801 2868.269336 166.9188995
07 02 2018 21:20 2753.295898 10.53759003 3083.522648 164.8291016
07 02 2018 21:30 3316.759033 11.82532024 3492.135435 162.5395966
07 02 2018 21:40 3521.032959 12.59585953 3585.599318 167.0346985
                 3599.893066 13.0404501 3600 175.3984985
07 02 2018 21:50
07 02 2018 22:00
                 3294.980957 11.94591045 3513.287457 167.8845062
07 02 2018 22:10 3522.552002 12.75790024 3593.404455 172.2286987
07 02 2018 22:20 2916.959961 11.2330904 3348.677413 172.0178986
07 02 2018 22:30 2992.306885 11.23507977 3349.277133 176.0440979
07 02 2018 22:40 2894.034912 11.30451965 3369.687083 178.9962006
07 02 2018 22:50 3053.514893 11.4465704 3408.334653 170.4909973
07 02 2018 23:00 3602.172119 12.75555992 3593.31929 171.0126953
07 02 2018 23:10 3601.636963 13.20049
                                       3600 178.3520966
07 02 2018 23:20 3600.294922 13.21763992 3600 182.1826019
07 02 2018 23:30
                 3596.823975 12.86180019 3596.382604 179.8585968
07 02 2018 23:40 3321.705078 11.74660015 3476.926623 174.9073944
07 02 2018 23:50 3292.351074 11.48141956 3417.194436 174.6911011
08 02 2018 00:00 3464.295898 12.4373703 3574.149144 179.3130951
08 02 2018 00:10
                 3228.342041 11.26263046 3357.496369 176.2919006
08 02 2018 00:20
                 3560.174072 12.4330101 3573.779718 175.9734039
08 02 2018 00:30
                 3409.052979 12.05266953 3529.903678 181.2581024
08 02 2018 00:40
                 3381.958984 11.96959972 3517.143436 182.9176025
08 02 2018 00:50
                 3482.072021 12.42286015 3572.908328 180.1342926
08 02 2018 01:00
                 3559.9729 12.46177006 3576.162202 182.0820007
08 02 2018 01:10 3315.199951 11.75912952 3479.422618 182.9129028
08 02 2018 01:20 2901.958984 10.81326962 3202.450698 180.1322021
08 02 2018 01:30 3171.49707 11.60081005 3445.743792 181.7870026
08 02 2018 01:40 3570.569092 12.6450901 3588.382711 181.3186035
```

```
08 02 2018 01:50 3583.389893 12.96417999 3597.796202 182.9837952
                 3465.050049 12.68385029 3590.32003 183.3128052
08 02 2018 02:00
08 02 2018 02:10
                 3273.790039 11.87985992 3502.019775 182.2897949
08 02 2018 02:20 3483.564941 13.0614996 3600 185.5655975
08 02 2018 02:30 3577.003906 12.95479012 3597.728892 182.1647034
08 02 2018 02:40 3447.87207 12.09424973 3535.851353 182.5677948
08 02 2018 02:50 3476.012939 11.85643959 3497.840076 180.3538971
08 02 2018 03:00 3511.871094 12.00922012 3523.376457 182.3807068
08 02 2018 03:10
                 3368.962891 11.70685959 3468.819176 184.3482056
                 3186.145996 11.26261997 3357.49327 182.2958069
08 02 2018 03:20
08 02 2018 03:30 3362.74707 11.74687004 3476.980691 185.4129944
08 02 2018 03:40 3252.770996 11.36182976 3385.774863 186.7696075
08 02 2018 03:50 2972.331055 11.06750965 3295.760357 186.4335938
08 02 2018 04:00 2610.262939 10.27250957 2950.227612 191.0482025
08 02 2018 04:10 2562.595947 10.27723026 2952.773194 191.2751007
08 02 2018 04:20 2986.738037 10.99425983 3270.411564 192.7460938
08 02 2018 04:30 2717.254883 10.43113041 3032.311826 193.0308075
08 02 2018 04:40 2311.419922 9.802800179 2663.265249 195.6661987
08 02 2018 04:50 2424.458008 10.03794003 2815.467318 197.2707977
08 02 2018 05:00 2283.268066 9.903194427 2730.42707 196.6040039
08 02 2018 05:10 1975.769043 8.939483643 2105.053929 192.9432983
                 1667.759033 8.265437126 1685.466281 193.873703
08 02 2018 05:20
08 02 2018 05:30
                 2247.791016 9.598560333 2516.143131 195.0272064
08 02 2018 05:40 2770.116943 10.4703598 3051.537656 192.6988983
08 02 2018 05:50 3032.415039 10.94746971 3253.578205 190.6636963
08 02 2018 06:00 3411.603027 11.78337955 3484.172204 190.1934052
08 02 2018 06:10 3318.297119 11.54763031 3433.368629 187.9105072
08 02 2018 06:20 3036.24707 10.82256985 3206.132527 188.5782928
08 02 2018 06:30 3001.937012 10.72025967 3164.466356 190.7875977
08 02 2018 06:40 3326.110107 11.45102024 3409.47939 189.9356995
08 02 2018 06:50 3259.726074 11.39013004 3393.470591 191.8247986
08 02 2018 07:00 3312.221924 12.12555981 3540.138978 199.4304962
08 02 2018 07:10 3011.358887 10.9640398 3259.597293 201.2059021
08 02 2018 07:20 2252.559082 9.403030396 2406.359782 199.7834015
08 02 2018 07:30 2732.520996 10.4618597 3047.407317 204.3468018
08 02 2018 07:40 3478.563965 12.0862999 3534.736648 205.6654968
08 02 2018 07:50
                 3397.711914 11.89367008 3504.438949 206.9855042
08 02 2018 08:00
                 3475.053955 12.71343994 3591.649305 209.1851044
08 02 2018 08:10 3569.478027 13.38107967 3600 211.9190063
                 3580.052979 13.44077969 3600 210.4904022
08 02 2018 08:20
08 02 2018 08:30 3602.577881 14.43109989 3600 210.6347961
08 02 2018 08:40 3602.86792 14.66460037 3600 206.161499
                 3596.769043 14.28180981 3600 207.7644958
08 02 2018 08:50
08 02 2018 09:00
                 3600.281006 14.00817966 3600 209.434906
08 02 2018 09:10 3599.981934 14.22727013 3600 210.2203064
08 02 2018 09:20
                 3602.824951 15.10912991 3600 208.5491943
08 02 2018 09:30
                 3602.323975 15.92020035 3600 206.5186005
08 02 2018 09:40
                 3602.489014 16.40748024 3600 207.2642059
                 3543.60498 16.09707069 3600
08 02 2018 09:50
                                               208.3692932
08 02 2018 10:00
                 3461.687012 16.55750084 3600
                                               205.3865051
08 02 2018 10:10
                 3461.538086 16.66431999 3600
                                               205.7684937
08 02 2018 10:20
                 3463.331055 16.7346096 3600 204.3412018
08 02 2018 10:30
                 3461.22998 16.60647964 3600 202.2469025
08 02 2018 10:40
                 3461.454102 17.92025948 3600 204.0243988
08 02 2018 10:50
                 3461.445068 17.20124054 3600
                                               201.2277069
08 02 2018 11:00 3461.305908 17.91629028 3600 200.6141968
08 02 2018 11:10 3468.958008 16.70486069 3600 203.2584991
08 02 2018 11:20 3505.544922 15.03262997 3600 206.6781006
08 02 2018 11:30 2513.425049 11.00741005 3275.051982 250.3437042
```

```
08 02 2018 11:40 2413.62207 9.873700142 2711.038496 247.5478058
08 02 2018 11:50
                 2082.290039 9.184157372 2263.321825 252.2019043
08 02 2018 12:00
                 2423.780029 9.964247704 2769.671114 258.0895996
08 02 2018 12:10 2236.875977 9.429178238 2423.506615 257.3356934
08 02 2018 12:20 2683.351074 10.02548981 2807.849279 251.9129944
08 02 2018 12:30 2372.717041 9.627477646 2537.852903 254.7684021
08 02 2018 12:40 2248.322998 9.198069572 2272.380581 254.5588989
                 3171.533936 11.8431797 3495.43047 253.8318939
08 02 2018 12:50
08 02 2018 13:00 2957.016113 10.60616016 3114.914308 256.2835999
                 2281.98291 9.311786652 2346.60889 257.2121887
08 02 2018 13:10
08 02 2018 13:20
                 3268.771973 11.24419975 3352.01571 254.8867035
08 02 2018 13:30 2835.677002 10.17166042 2894.299103 251.4532013
08 02 2018 13:40 3302.656006 11.93255043 3511.069875 251.3916931
08 02 2018 13:50 3602.604004 14.26677036 3600 256.5107117
08 02 2018 14:00 3333.341064 11.60165024 3445.934956 253.8656006
08 02 2018 14:10 3439.332031 11.53460979 3430.25553 249.1179047
08 02 2018 14:20 3512.537109 12.29899979 3560.975575 252.6549988
08 02 2018 14:30 3567.187988 12.36550045 3567.68224 249.4631042
08 02 2018 14:40 3603.351074 14.47513962 3600 251.5993042
08 02 2018 14:50 3400.331055 11.51840973 3426.336187 256.052887
08 02 2018 15:00 2509.311035 9.240768433 2300.215696 249.4031067
08 02 2018 15:10 3188.144043 11.69363022 3466.055546 237.5677032
                 3008.74292 12.18805981 3548.212411 249.3744049
08 02 2018 15:20
08 02 2018 15:30
                 2695.891113 9.967513084 2771.736552 237.097702
08 02 2018 15:40 3250.949951 11.06552982 3295.091131 235.2171021
08 02 2018 15:50 2764.321045 10.17753029 2897.636237 245.5027008
08 02 2018 16:00 1812.094971 8.579719543 1877.376906 248.6161041
08 02 2018 16:10 2080.356934 9.402338982 2405.906504 266.8327026
08 02 2018 16:20 2371.256104 9.910284042 2735.045541 265.536499
08 02 2018 16:30 2029.880981 9.144025803 2237.22186 267.5881042
08 02 2018 16:40 1690.034058 8.370108604 1748.525441 262.2524109
08 02 2018 16:50 1903.862061 8.806507111 2020.079531 260.8731079
08 02 2018 17:00 1867.572998 8.707891464 1957.652194 261.4184875
08 02 2018 17:10 1702.734985 8.454295158 1799.885437 254.3632965
08 02 2018 17:20 1431.963989 8.052224159 1560.043702 259.3982849
08 02 2018 17:30
                 1581.582031 8.322086334 1719.480828 266.9428101
08 02 2018 17:40
                 1849.327026 8.666636467 1931.702082 264.1622925
08 02 2018 17:50
                 1789.531006 8.611369133 1897.102366 260.8891907
08 02 2018 18:00
                 1271.813965 7.841506004 1440.582232 255.3096924
08 02 2018 18:10
                 1081.079956 7.543712139 1280.538505 241.6194
08 02 2018 18:20 2169.011963 9.516363144 2452.801485 225.4163971
08 02 2018 18:30 2688.858887 10.20028019 2910.473687 229.4514008
08 02 2018 18:40 2549.98999 10.02143002 2805.354761 224.8132019
08 02 2018 18:50 2129.139893 9.419171333 2416.943365 215.7023926
08 02 2018 19:00 2440.284912 10.07260036 2836.422974 214.8851013
08 02 2018 19:10
                 2313.738037 9.737549782 2617.818163 210.6513062
08 02 2018 19:20
                 2521.822021 10.07837009 2839.87551 206.4577942
08 02 2018 19:30 2342.308105 9.912021637 2736.175008 205.5749054
08 02 2018 19:40 2342.177002 9.919033051 2740.722671 207.4409943
08 02 2018 19:50
                 2570.910889 10.30167961 2965.855066 209.8683929
08 02 2018 20:00
                 2741.075928 10.67572021 3145.516449 208.4490967
08 02 2018 20:10 3020.827881 11.29701042 3367.528727 208.2221985
08 02 2018 20:20
                 3180.503906 11.66687012 3460.36577 206.2743988
08 02 2018 20:30 2743.864014 10.84129047 3213.480454 207.0926971
08 02 2018 20:40 2773.193115 10.88939953 3231.97857 211.9463043
08 02 2018 20:50 2570.920898 10.41777992 3025.673199 212.4732056
08 02 2018 21:00 2803.98999 10.82826042 3208.375036 214.4541016
08 02 2018 21:10 2983.509033 11.41186047 3399.269412 214.5614014
08 02 2018 21:20 2841.887939 10.84204006 3213.772915 215.9181061
```

```
2805.011963 10.86804962 3223.837518 213.5787048
08 02 2018 21:30
08 02 2018 21:40
                 2870.250977 11.12250042 3313.999828 210.3818054
08 02 2018 21:50
                 2726.362061 10.8341198 3210.675905 213.2059021
08 02 2018 22:00 2983.437988 11.2441597 3352.003721 214.8379059
08 02 2018 22:10 3136.284912 11.51167965 3424.692893 215.7646027
08 02 2018 22:20 3246.041016 11.81669044 3490.522785 215.3372955
08 02 2018 22:30
                 3047.361084 11.34325981 3380.636164 219.6755066
                 2668.478027 10.45670986 3044.895408 224.6311035
08 02 2018 22:40
08 02 2018 22:50
                 3170.803955 11.40849018 3398.376295 221.5484009
                 3208.040039 11.66802025 3460.613063 219.151001
08 02 2018 23:00
08 02 2018 23:10
                 3399.937012 12.08160019 3534.072688 219.6557007
08 02 2018 23:20
                 3594.625977 12.56902981 3583.929357 221.2758942
08 02 2018 23:30
                 3575.656982 12.49139023 3578.482731 219.1352997
08 02 2018 23:40
                 3603.416016 13.30405998 3600 216.1593933
08 02 2018 23:50 3603.729004 13.28075981 3600 213.4866028
09 02 2018 00:00 3604.414063 13.61069012 3600 212.1564026
09 02 2018 00:10 3603.924072 13.51675034 3600 210.6889954
09 02 2018 00:20 3597.499023 12.81632042 3595.27165 212.3697968
09 02 2018 00:30 3598.177979 12.81326008 3595.18615 214.3451996
09 02 2018 00:40 3340.51001 11.82495022 3492.066563 215.6730957
09 02 2018 00:50 2905.429932 10.82464027 3206.949333 221.1289978
09 02 2018 01:00 2579.750977 10.08847046 2845.894946 222.451004
09 02 2018 01:10 2235.301025 9.336004257 2362.453497 221.6679993
09 02 2018 01:20
                 1968.194946 8.870629311 2060.94841 221.6663055
09 02 2018 01:30 2160.471924 9.122085571 2222.97351 219.8087006
09 02 2018 01:40 2382.491943 10.11503983 2861.581031 216.3376007
09 02 2018 01:50 2405.780029 10.3217001 2976.440325 212.2993011
09 02 2018 02:00 2303.354004 9.817109108 2673.040614 213.7297974
09 02 2018 02:10 2228.63501 9.481450081 2457.809196 216.0827026
09 02 2018 02:20
                 1985.594971 8.965158463 2121.554623 217.5296936
09 02 2018 02:30 1999.880981 8.906176567 2083.691394 215.1945038
09 02 2018 02:40 1990.343018 8.671499252 1934.755519 219.6300964
09 02 2018 02:50
                 1979.709961 8.797018051 2014.04948 220.2884979
09 02 2018 03:00
                 1798.671021 8.463815689 1805.727795 221.3096008
                 1618.02002 8.0337286 1549.370474 224.0527039
09 02 2018 03:10
09 02 2018 03:20
                 1680.348999 8.047498703 1557.313493 225.1912994
09 02 2018 03:30
                 1630.088013 8.203337669 1648.500435 229.3636932
                 1462.980957 7.677334785 1350.991406 225.4541931
09 02 2018 03:40
09 02 2018 03:50
                 1601.462036 7.913394928 1480.798377 222.5717926
                 1881.677979 8.715561867 1962.488159 212.4721069
09 02 2018 04:00
09 02 2018 04:10 1981.406006 8.982111931 2132.465606 209.0319061
09 02 2018 04:20 1898.718018 8.534276009 1849.172137 211.8414001
09 02 2018 04:30 2078.054932 9.003152847 2146.023619 220.8231049
09 02 2018 04:40
                 1984.782959 8.976951599 2129.143232 218.7463074
09 02 2018 04:50
                 1713.978027 8.520244598 1840.492316 212.1748047
                 1522.769043 8.108769417 1592.886096 213.9277039
09 02 2018 05:00
09 02 2018 05:10
                 1589.241943 8.410793304 1773.277388 212.5583954
                 1497.677002 7.727565765 1378.059624 218.9889069
09 02 2018 05:20
09 02 2018 05:30 1490.755005 7.795862198 1415.352816 217.2866974
09 02 2018 05:40
                 1143.947998 7.054934978 1040.911378 220.8377075
09 02 2018 05:50
                 939.5612183 6.641915798 862.6310778 225.290802
09 02 2018 06:00
                 1013.327026 6.996568203 1014.444679 217.2528992
09 02 2018 06:10
                 1130.375
                             7.522357941 1269.495894 209.7922058
09 02 2018 06:20
                 1286.225952 8.044531822 1555.600481 206.7854004
09 02 2018 06:30
                 1047.383057 7.216425896 1116.468931 207.845993
09 02 2018 06:40 684.7852783 7.216404915 1116.458886 203.2310028
09 02 2018 06:50 0
                       6.993134022 1012.90098 203.4893951
09 02 2018 07:00 0
                       6.117482185 664.3417095 210.5182953
                    6.117482185 bb4.341/093 210.3102000
6.31906414 737.015087 218.5713043
09 02 2018 07:10 0
```

```
6.289104939 725.9380073 223.2209015
09 02 2018 07:20 0
                       6,275131226 720,8045057 211,6354065
09 02 2018 07:30 0
09 02 2018 07:40 0
                       6.554176807 827.3462479 207.5348053
09 02 2018 07:50 0
                       6.944757938 991.313426 203.7926025
09 02 2018 08:00 10.04380035 6.669585228 873.9402429 205.472702
09 02 2018 08:10 1061.810059 7.369204044 1191.253119 201.2653046
09 02 2018 08:20
                 912.7197876 6.865096092 956.3983524 199.7955017
09 02 2018 08:30 677.4113159 6.357944012 751.5352909 199.3609924
09 02 2018 08:40 437.9444885 5.458684921 457.1930271 196.1103058
09 02 2018 08:50
                 306.9587097 5.061775208 351.3219927 201.6118927
09 02 2018 09:00
                 301.7388916 4.945128918 322.6331298 201.8798981
09 02 2018 09:10 411.6412048 5.501788139 469.5144372 203.2106018
09 02 2018 09:20
                 321.5031128 5.086197853 357.4613153 201.4165039
09 02 2018 09:30
                 174.7991943 4.217483997 164.4748341 208.7789001
09 02 2018 09:40 186.3370056 4.350574017 191.0233275 208.7209015
09 02 2018 09:50
                 150.302597 4.084194183 138.791131 211.0381927
09 02 2018 10:00 94.55177307 3.683409929 75.23304825 206.4859009
09 02 2018 10:10 33.31090927 3.153201103 22.78008154 206.4996033
09 02 2018 10:20 81.27474976 3.448462963 46.44033716 202.4577942
                 109.1044006 3.887723923 107.4514666 207.7037964
09 02 2018 10:30
                 15.72122002 2.702114105 0
09 02 2018 10:40
                                               217.1177063
09 02 2018 10:50
                 7.953730106 2.924182892 0
                                               276.6177979
09 02 2018 11:00 2.536468983 2.654905081 0
                                               270.6574097
09 02 2018 11:10 5.924133778 2.639307022 0
                                               261.0429077
09 02 2018 11:20 1.135602951 2.568604946 0
                                               261.7506104
09 02 2018 11:30 0
                       1.517331004 0
                                         253.6448975
09 02 2018 11:40 0
                       1.921393991 0
                                         222.4868927
09 02 2018 11:50 17.63175011 3.892594099 108.3009492 193.4268951
                 134.4588928 4.128985882 147.3257604 210.6147003
09 02 2018 12:00
09 02 2018 12:10 204.5543976 4.513226032 224.8044642 200.822403
09 02 2018 12:20 101.6285019 3.586482048 62.28432095 204.1188965
09 02 2018 12:30 0
                       3.54541111 57.25101782 206.9972992
09 02 2018 12:40
                       2.943094969 0
                                         229.8399963
09 02 2018 12:50 30.4423008 3.812247038 94.77152526 209.2021942
09 02 2018 13:00 151.8791046 4.290428162 178.9089606 196.3981018
                 216.1459961 4.67181921 259.2807406 203.9367065
09 02 2018 13:10
09 02 2018 13:20 84.97180939 3.802093983 93.13538801 215.7626038
09 02 2018 13:30
                 137.6539001 4.152512074 151.8469457 210.8730927
09 02 2018 13:40 278.3469849 5.061950207 351.3658177 210.908905
09 02 2018 13:50 244.5939941 4.901712894 312.2157583 206.240097
09 02 2018 14:00 156.6038055 4.316456795 184.1274851 206.0384979
09 02 2018 14:10 130.581604 4.144090176 150.2253661 210.7341003
09 02 2018 14:20
                 131.6430054 4.183927059 157.9264291 209.946106
09 02 2018 14:30
                 162.6976013 4.314430237 183.7198679 214.732193
09 02 2018 14:40
                 203.5762024 4.589175224 241.1174329 216.3778992
                 171.3453979 4.436538219 208.6864464 214.8381042
09 02 2018 14:50
                 235.0404968 4.86106205 302.5864116 216.9772034
09 02 2018 15:00
                 280.4016113 5.033690929 344.3196807 217.4028931
09 02 2018 15:10
09 02 2018 15:20 372.1051025 5.424862862 447.6428061 220.1607056
09 02 2018 15:30
                 539.4467773 6.002754211 624.922618 219.9436035
09 02 2018 15:40
                 610.7982788 6.272908211 719.98978
                                                     221.8383942
09 02 2018 15:50
                 580.677002 6.232818127 705.3881846 222.4629974
09 02 2018 16:00
                 452.0971985 5.953204155 609.3169933 222.4039001
09 02 2018 16:10
                 330.5398865 5.382568836 435.8444585 223.912796
09 02 2018 16:20
                 294.5559082 5.26761198 404.566671 220.6600037
09 02 2018 16:30 411.5223083 5.904510975 593.2448483 217.0590973
09 02 2018 16:40 376.6303101 5.663376808 517.2492692 222.8227997
09 02 2018 16:50 347.2756958 5.490834236 466.3670654 229.5979004
09 02 2018 17:00 242.3282013 4.890789032 309.6163805 241.9432068
```

```
09 02 2018 17:10 272.6372986 5.196582794 385.8025179 248.9136047
                  89.20778656 4.132744789 148.0463359 253.6627045
09 02 2018 17:20
09 02 2018 17:30
                  67.51039886 4.071881771 136.4616556 252.4676971
09 02 2018 17:40
                  54.05355072 3.956084013 119.7224196 252.0276947
09 02 2018 17:50
                  19.44441986 3.616892099 66.18501616 248.5220032
09 02 2018 18:00
                  -0.020599989
                                    2.673188925 0
09 02 2018 18:10
                  0
                        2.775540113 0
                                           240.223999
09 02 2018 18:20
                  0
                        3.036770105 17.28480662 251.8188934
09 02 2018 18:30
                  0
                        3.229835987 27.58071806 275.1253967
09 02 2018 18:40
                        3.16275692 23.32740663 279.3826904
                  0
09 02 2018 18:50
                  0
                        2.901132107 0
                                          268.9370117
09 02 2018 19:00
                  0
                        2.544789076 0
                                          269.5635986
09 02 2018 19:10
                        2.181968927 0
                                          270.7702026
09 02 2018 19:20
                        2.346813917 0
                                          261.833313
                  0
09 02 2018 19:30
                        2.573858023 0
                                           266.6394958
                  0
09 02 2018 19:40
                  0
                        2.550170898 0
                                           282.0574036
09 02 2018 19:50
                  0
                        1.876724005 0
                                          299.4341125
09 02 2018 20:00
                  0
                        1.748278022 0
                                          292.2045898
09 02 2018 20:10
                  0
                        2.121946096 0
                                          298.3902893
09 02 2018 20:20
                  0
                        1.927098036 0
                                          292.1868896
09 02 2018 20:30
                        1.897637963 0
                                          302.0940857
                  0
09 02 2018 20:40
                  0
                        1.431041002 0
                                           316.9642029
09 02 2018 20:50
                  0
                        1.070086956 0
                                           340.9621887
                        1.428168058 0
09 02 2018 21:00
                  0
                                          345.2344971
09 02 2018 21:10
                  0
                        1.623095989 0
                                          351.4592896
09 02 2018 21:20
                        1.943801045 0
                                          13.42127037
09 02 2018 21:30
                        2.136253119 0
                                          27.2285099
09 02 2018 21:40
                        2.154294014 0
                                          29.83139038
                  0
09 02 2018 21:50
                  0
                        2.606790066 0
                                           35.57835007
09 02 2018 22:00
                  0
                        2.250422955 0
                                          44.67514038
09 02 2018 22:10
                  0
                        2.171983957 0
                                          66.31044769
09 02 2018 22:20
                  0
                        2.571213007 0
                                          74.43813324
09 02 2018 22:30
                        2.716892958 0
                  0
                                          71.33516693
                        3.648665905 70.41870546 77.58091736
09 02 2018 22:40
                  0
09 02 2018 22:50
                  0
                        2.924712896 0
                                          67.84584045
09 02 2018 23:00
                  0
                        3.013195038 16.43616993 68.24091339
09 02 2018 23:10
                  15.30873013 3.730015039 81.99423789 80.18427277
09 02 2018 23:20
                  70.41497803 4.081997871 138.3750777 77.09166718
09 02 2018 23:30
                  133.079895 4.494075775 220.7467936 76.53132629
09 02 2018 23:40
                  109.7767029 3.774066925 88.70450996 73.06758118
09 02 2018 23:50
                  94.27169037 3.83119607 97.86922674 74.08995819
                  84.82369232 3.965457916 121.4633724 78.42503357
10 02 2018 00:00
10 02 2018 00:10
                  17.12200928 2.997929096 0
                                                 85.23544312
10 02 2018 00:20
                  2.094602108 2.661505938 0
                                                 91.03308868
10 02 2018 00:30
                        3.078597069 19.00930614 88.11074829
10 02 2018 00:40
                        3.198049068 25.47544487 84.61076355
10 02 2018 00:50
                  58.47436142 4.484375954 218.6999206 81.34584045
                  167.5904999 4.515067101 225.1957248 75.52017212
10 02 2018 01:00
10 02 2018 01:10
                  80.99521637 3.962848902 120.9774055 75.32656097
10 02 2018 01:20
                  211.6629944 4.975224972 329.936442 76.22129822
10 02 2018 01:30
                  208.803894 4.976718903 330.3007368 75.69821167
10 02 2018 01:40
                  235.1651001 4.886713982 308.6489237 75.40428925
10 02 2018 01:50
                  440.9316101 6.124529839 666.8090474 77.70271301
10 02 2018 02:00
                  497.2106018 5.792837143 557.3184213 75.35803986
10 02 2018 02:10
                  425.4245911 4.550693989 232.8076963 75.05500031
10 02 2018 02:20
                  495.4007874 4.664515018 257.6576839 76.42247772
10 02 2018 02:30
                  645.902771 6.084527016 652.8747493 76.51014709
10 02 2018 02:40
                  623.6303711 6.277517796 721.6797661 76.96917725
10 02 2018 02:50 309.2659912 4.315690041 183.9732358 80.59343719
```

```
10 02 2018 03:00 491.4194946 5.30154705 413.681382 76.65381622
10 02 2018 03:10 764.3120728 6.848363876 949.16341
                                                     76.73445129
10 02 2018 03:20 826.3505249 7.0734272 1049.388357 77.53943634
10 02 2018 03:30 784.4675293 6.731222153 899.4503987 77.64746094
10 02 2018 03:40 1064.055054 7.613656998 1317.130154 76.94332123
10 02 2018 03:50 1088.869019 7.717879772 1372.815989 76.2090683
10 02 2018 04:00 1033.626953 7.480354786 1247.798572 76.31239319
                 1318.312988 8.217991829 1657.192532 77.7833786
10 02 2018 04:10
10 02 2018 04:20 1681.765991 8.925213814 2095.89543 77.74305725
                 1993.21106 9.754318237 2629.63462 76.1230011
10 02 2018 04:30
10 02 2018 04:40 1929.285034 9.580388069 2502.348359 75.11634827
10 02 2018 04:50 1747.827026 9.042333603 2171.316792 73.5424118
10 02 2018 05:00 1568.11499 8.641898155 1916.191034 76.23912048
10 02 2018 05:10 1834.032959 9.388646126 2396.931155 77.70590973
10 02 2018 05:20 1625.386963 8.951774597 2112.949538 78.45333099
10 02 2018 05:30 1825.067993 8.925154686 2095.8575 79.40428162
10 02 2018 05:40 2168.405029 9.877633095 2713.640228 80.03534698
10 02 2018 05:50 2603.783936 10.90021992 3236.063334 79.5118866
10 02 2018 06:00 2424.030029 10.25734043 2942.004374 80.38709259
10 02 2018 06:10 2119.733887 9.49703598 2468.042473 81.06430054
10 02 2018 06:20 870.1245728 5.986173153 620.3422096 81.63816833
10 02 2018 06:30 825.7711182 5.977015018 617.2679445 79.73265839
10 02 2018 06:40 495.2680054 4.781761169 284.1400349 83.01894379
10 02 2018 06:50 375.254303 4.376717091 196.3508476 86.04125977
10 02 2018 07:00 433.3261108 4.843784809 298.5297221 93.48683167
10 02 2018 07:10 414.6257019 4.723204136 270.7984037 87.07430267
10 02 2018 07:20 471.2076111 5.062994957 351.6275039 96.98731232
10 02 2018 07:30 507.0480042 5.288134098 410.0670425 94.32157135
10 02 2018 07:40 461.9804077 5.515400887 473.4411695 106.3967972
10 02 2018 07:50 223.3955994 4.550172806 232.6957811 109.438797
10 02 2018 08:00 360.4108887 5.12346983 366.9213918 121.2444
10 02 2018 08:10 258.3164978 4.838798046 297.3627808 124.360199
10 02 2018 08:20 136.5323029 4.170703888 155.3615149 125.8451996
10 02 2018 08:30 91.95987701 3.969182968 122.159105 125.6179962
10 02 2018 08:40 12.61966038 2.717669964 0 129.6638031
10 02 2018 08:50 0
                       1.852270961 0
                                     141.4396057
10 02 2018 09:00 0
                       1.972617984 0
                                         143.3535004
                       1.881929994 0
10 02 2018 09:10 0
                                         172.6031952
10 02 2018 09:20 0
                       1.898658037 0
                                         158.8963013
10 02 2018 09:30 0
                       2.292587042 0
                                         165.0433044
                             3.951584101 118.8916753 161.5579071
10 02 2018 09:40 28.90625
10 02 2018 09:50 66.04463196 3.853844881 101.6471227 157.4183044
10 02 2018 10:00 75.00444794 3.53738308 56.29870448 157.9212952
10 02 2018 10:10 23.09983063 3.122422934 21.11652385 158.4434052
10 02 2018 10:20 60.62929153 3.475179911 49.26943294 155.2276001
10 02 2018 10:30 337.6532898 4.9689188 328.4005313 162.8377991
10 02 2018 10:40 236.8292999 4.633758068 250.8612696 160.3847961
10 02 2018 10:50 115.3752975 3.980465889 124.2799772 147.0957031
10 02 2018 11:00 69.7501297 3.814074993 95.06784734 136.7270966
10 02 2018 11:10
                 -0.133333504 2.688831091 0
                                                  124.9355011
10 02 2018 11:20 0
                       1.709694982 0
                                         117.5779037
10 02 2018 11:30 0
                       1.941843987 0
                                         115.4505005
10 02 2018 11:40 0
                       3.446686983 46.25632433 96.38017273
10 02 2018 11:50 0
                       3.504002094 52.4495159 96.33490753
10 02 2018 12:00 26.39459991 3.751171112 85.17811875 111.9910965
10 02 2018 12:10 84.78309631 3.617335081 66.24293078 103.9850998
10 02 2018 12:20 141.8502045 3.786591053 90.66895247 97.84570313
10 02 2018 12:30 411.2799988 5.100804806 361.1556067 81.77845764
10 02 2018 12:40 1012.474976 7.587052822 1303.13678 75.4573288
```

```
10 02 2018 12:50 1034.597046 7.312996864 1163.353602 76.97006989
                 1522.272949 8.346242905 1734.067503 78.69590759
10 02 2018 13:00
                 1212.615967 7.569134235 1293.763842 79.08392334
10 02 2018 13:10
10 02 2018 13:20 354.7025146 4.652808189 255.0635793 90.75002289
                 169.6074982 3.973553896 122.9782997 100.3074036
10 02 2018 13:30
10 02 2018 13:40
                 67.65454865 3.061988115 18.29102181 102.7232971
10 02 2018 13:50
                 165.1907959 4.488372803 219.5426628 88.94632721
                 837.4262085 5.677248955 521.4636464 86.115242
10 02 2018 14:00
10 02 2018 14:10
                 685.614502 5.449091911 454.4737967 90.91029358
                 738.4758911 5.383221149 436.0252231 91.13041687
10 02 2018 14:20
10 02 2018 14:30
                 571.8413696 4.876202106 306.1588453 89.31054688
10 02 2018 14:40
                580.4802246 5.009350777 338.3001024 93.32787323
10 02 2018 14:50
                 669.4703979 5.64706707 512.3182732 99.0131073
10 02 2018 15:00
                714.3984985 5.900230885 591.8440711 101.7046967
10 02 2018 15:10 645.5767212 5.703691959 529.5492023 98.54871368
10 02 2018 15:20 445.9529114 5.37929678 434.9382945 107.1839981
10 02 2018 15:30 927.7028809 6.549921989 825.6572228 116.7003021
10 02 2018 15:40 1365.165039 7.425357819 1219.588397 117.4478989
10 02 2018 15:50 1732.25
                             8.164045334 1625.291222 121.4606018
10 02 2018 16:00 1564.197021 8.152834892 1618.695733 127.9869003
10 02 2018 16:10 1718.790039 8.731433868 1972.505836 123.0895996
10 02 2018 16:20 1642.812012 8.299991608 1706.18176 119.2509003
10 02 2018 16:30
                 1798.791016 8.56344986 1867.262852 122.3778992
10 02 2018 16:40
                 1315.864014 7.323329926 1168.448379 135.2534943
10 02 2018 16:50 1796.240967 8.194722176 1643.399272 142.4747009
10 02 2018 17:00 1052.72998 7.234239101 1125.019101 132.6125031
10 02 2018 17:10 874.723877 6.972974777 1003.869275 133.8235016
10 02 2018 17:20 887.4561157 6.809204102 932.3628757 135.4125977
10 02 2018 17:30 655.3425903 6.094292164 656.2604971 138.7366943
10 02 2018 17:40 833.7011719 6.869427204 958.2766429 140.5670013
10 02 2018 17:50 680.5374146 6.542106152 822.5598728 135.3385925
10 02 2018 18:00 602.2017212 6.182673931 687.3675627 132.0265961
10 02 2018 18:10
                 581.5587158 6.051579952 641.5265991 135.3748016
10 02 2018 18:20
                531.9498291 5.756259918 545.8282422 140.5164948
10 02 2018 18:30 252.046402 4.857077122 301.6488629 132.1688995
                 176.5018005 4.483957767 218.6118003 125.8958969
10 02 2018 18:40
10 02 2018 18:50
                 97.29514313 4.043393135 131.0984908 125.8668976
                 185.9667053 4.402112007 201.5625834 133.2194061
10 02 2018 19:00
10 02 2018 19:10 253.3889008 4.77726984 283.1084327 130.383194
10 02 2018 19:20
                334.4837036 5.274110794 406.3046271 122.7286987
10 02 2018 19:30 181.1620941 4.533380032 229.0987501 117.5118027
10 02 2018 19:40 279.7297974 4.735291958 273.533423 117.7220993
10 02 2018 19:50 344.1654053 5.146573067 372.8409278 113.2348022
10 02 2018 20:00 562.1400757 6.018984795 630.4138071 109.6039963
10 02 2018 20:10
                 1163.88501 7.406476021 1210.008371 116.3169022
10 02 2018 20:20 887.3547974 6.790608883 924.4493467 122.1406021
10 02 2018 20:30
                 1254.119995 7.594822884 1307.214219 116.4514008
10 02 2018 20:40 964.9390869 6.884081841 964.648921 118.4653015
10 02 2018 20:50 1155.620972 7.575440884 1297.057954 124.8815002
10 02 2018 21:00 855.4777222 6.536901951 820.5012837 116.1447983
10 02 2018 21:10
                 991.1564941 7.42105484 1217.400511 124.6734009
10 02 2018 21:20
                 1255.404053 7.968472958 1511.994438 122.2585983
10 02 2018 21:30
                 1046.171997 6.943427086 990.7236851 127.3811035
10 02 2018 21:40
                 1868.157959 8.690266609 1946.553369 133.3448029
10 02 2018 21:50
                 2042.704956 9.05128479 2177.103412 138.3475037
10 02 2018 22:00 2267.230957 9.756270409 2631.004086 143.3995972
10 02 2018 22:10 1953.168945 9.422217369 2418.941038 142.1376038
10 02 2018 22:20 1961.654053 9.385471344 2394.850558 144.7075043
10 02 2018 22:30 1726.472046 8.55462265 1861.782922 148.5274048
```

```
10 02 2018 22:40 2030.66394 8.765908241 1994.313759 150.2848969
10 02 2018 22:50
                 2116.452881 9.097040176 2206.727595 149.5198975
10 02 2018 23:00
                 2355.000977 9.419676781 2417.274843 152.1636963
10 02 2018 23:10 2235.710938 9.285394669 2329.355096 153.954895
10 02 2018 23:20
                 2151.681885 9.060501099 2183.064497 159.3177032
10 02 2018 23:30
                 2521.478027 10.19291019 2906.331632 166.905304
                 1361.876953 8.148228645 1615.989146 153.8656006
10 02 2018 23:40
                 956.4431763 7.37069416 1191.999017 147.0187073
10 02 2018 23:50
                 756.2866211 6.79430294 926.0181413 145.5478973
11 02 2018 00:00
11 02 2018 00:10
                 736.6392822 6.528553963 817.2054501 149.0581055
11 02 2018 00:20 987.5720825 7.190419197 1104.064314 154.3973999
11 02 2018 00:30 616.7495728 6.146111965 674.3978328 153.1414948
11 02 2018 00:40 441.6476135 5.535883904 479.3820237 174.9788055
11 02 2018 00:50 820.4741211 6.585483074 839.8363693 201.1717987
11 02 2018 01:00 484.8887939 5.543314934 481.5469518 218.5661011
11 02 2018 01:10 1513.093994 8.166098595 1626.500502 205.5200043
11 02 2018 01:20
                 1991.655029 8.746612549 1982.0994
                                                    193.5740967
11 02 2018 01:30 2387.547119 9.541232109 2472.222651 200.9913025
                            11.33971024 3379.645856 198.944397
11 02 2018 01:40 3207.1521
11 02 2018 01:50 3575.590088 12.86285973 3596.404928 198.5984039
11 02 2018 02:00 3517.851074 12.30222034 3561.316537 198.2319946
11 02 2018 02:10 3594.720947 12.67016029 3589.661236 205.3088989
11 02 2018 02:20
                 3410.311035 11.77633953 3482.804366 217.0317993
11 02 2018 02:30 3309.337891 11.21664047 3343.686065 215.028595
11 02 2018 02:40 3125.177979 10.61798954 3120.206082 206.2521973
11 02 2018 02:50 2981.590088 10.57400036 3100.34451 201.4369049
11 02 2018 03:00 3275.577881 11.11165047 3310.454134 201.5039978
11 02 2018 03:10 2898.907959 10.65349007 3135.870973 199.5653076
11 02 2018 03:20 2777.702881 10.62666988 3124.066213 196.1607056
11 02 2018 03:30 3498.922119 12.62407017 3587.238621 191.5348969
11 02 2018 03:40 3332.666016 11.93673992 3511.768615 191.5140076
11 02 2018 03:50 2983.830078 11.10647011 3308.752066 193.8152008
11 02 2018 04:00 3356.560059 11.74050045 3475.701095 196.8699951
11 02 2018 04:10 3485.301025 11.89206982 3504.160346 201.7294006
11 02 2018 04:20 3470.391113 12.13026047 3540.768612 201.3742065
                             12.49633026 3578.85665 195.0587006
11 02 2018 04:30 3489.625
                 3484.585938 12.49155998 3578.495642 190.9577026
11 02 2018 04:40
11 02 2018 04:50
                 3244.00708 11.58635998 3442.434926 190.5200043
11 02 2018 05:00 3257.483887 11.47671032 3416.011264 195.2678986
11 02 2018 05:10 3140.947021 11.32995987 3376.912206 191.6065063
11 02 2018 05:20 3422.944092 12.00354004 3522.499404 191.7521973
                           11.75004005 3477.61475 193.3444061
11 02 2018 05:30 3391.875
11 02 2018 05:40
                 3570.693115 13.0398798 3600 194.0872955
11 02 2018 05:50
                 3445.792969 13.12664986 3600 184.9915009
11 02 2018 06:00 3461.600098 14.22410965 3600 184.6808929
11 02 2018 06:10 3461.363037 14.43315029 3600
                                              188.0792999
11 02 2018 06:20
                 3461.706055 15.34611034 3600
                                              185.2640991
11 02 2018 06:30 3462.794922 15.07956028 3600 184.5536041
                                               185.0549927
11 02 2018 06:40 3462.674072 15.52591991 3600
11 02 2018 06:50
                 3465.250977 15.19495964 3600
                                               186.6560974
11 02 2018 07:00
                 3460.468018 13.39762974 3600
                                               187.1954956
11 02 2018 07:10 3456.352051 13.92518997 3600
                                               190.0614929
11 02 2018 07:20 3462.520996 15.19211006 3600
                                               189.4832001
11 02 2018 07:30 3462.332031 16.61786079 3600
                                               194.5796967
11 02 2018 07:40 3462.705078 14.88226986 3600
                                               193.1902008
11 02 2018 07:50 3465.5979 14.80097961 3600 193.9920959
11 02 2018 08:00 3449.590088 13.29636002 3600 192.7388
11 02 2018 08:10 3459.465088 12.72784996 3592.249943 194.6840973
11 02 2018 08:20 3503.231934 13.37553978 3600 194.8430939
```

```
11 02 2018 08:30 3530.256104 13.36532021 3600 195.8784027
11 02 2018 08:40 3580.025879 12.96677971 3597.812621 204.8663025
11 02 2018 08:50 3395.043945 12.34364033 3565.554795 202.9002991
11 02 2018 09:00 3502.751953 12.26206017 3556.946191 201.2684021
11 02 2018 09:10 3223.812012 11.72414017 3472.380318 201.5343018
11 02 2018 09:20 3290.371094 11.84214973 3495.241992 205.690094
11 02 2018 09:30 3225.216064 11.47813988 3416.370896 208.9537964
11 02 2018 09:40 3425.797119 11.87714005 3501.539357 212.895401
11 02 2018 09:50 3588.955078 13.68019009 3600 218.0906067
11 02 2018 10:00
                 3566.894043 14.28411007 3600 217.7252045
11 02 2018 10:10
                 3564.264893 14.8759203 3600 214.6811981
11 02 2018 10:20 3520.113037 15.86913013 3600 216.2212982
11 02 2018 10:30 3532.163086 15.35459042 3600 215.6936035
11 02 2018 10:40 3553.183105 14.00362968 3600 212.8059998
11 02 2018 10:50 3569.262939 13.13325977 3600 215.0626068
11 02 2018 11:00 3426.870117 12.37642002 3568.716791 218.6560974
11 02 2018 11:10 2381.730957 9.602420807 2519.058525 230.9983063
11 02 2018 11:20 431.8244934 5.123497009 366.9283306 232.2561035
11 02 2018 11:30 391.3778992 4.525592804 227.436571 255.8876038
11 02 2018 11:40 210.3675995 4.344057083 189.7011846 249.4848022
11 02 2018 11:50 1233.725952 7.10275507 1062.924019 239.4909973
11 02 2018 12:00 1195.082031 7.123968124 1072.78503 229.4230042
11 02 2018 12:10 3440.803955 12.12162018 3539.608456 228.9542999
11 02 2018 12:20 2973.681885 10.62903023 3125.112502 228.5157013
11 02 2018 12:30 2838.533936 10.38881969 3011.103981 229.6903992
11 02 2018 12:40 3523.593018 13.15985966 3600 222.7922058
11 02 2018 12:50 3591.532959 14.00782967 3600 226.5796967
11 02 2018 13:00 3201.971924 12.01562977 3524.359543 223.2057037
11 02 2018 13:10 2490.393066 9.619517326 2531.906156 216.8558044
11 02 2018 13:20 2295.143066 9.290138245 2332.455133 219.0691071
11 02 2018 13:30 2581.583008 10.15954971 2887.381574 232.7660065
11 02 2018 13:40 3401.629883 14.01589012 3600 230.4129944
11 02 2018 13:50 3415.295898 12.75537968 3593.312698 228.9512024
11 02 2018 14:00 3308.3479
                            13.43292999 3600 225.6110992
11 02 2018 14:10 3583.846924 15.2804203 3600 222.3553009
                 3576.863037 15.55510998 3600 220.656601
11 02 2018 14:20
11 02 2018 14:30
                 3548.464111 15.87263966 3600 218.8368988
11 02 2018 14:40 3353.172119 13.41042042 3600 224.4004974
11 02 2018 14:50 2325.356934 10.26974964 2948.736378 227.0041046
11 02 2018 15:00 1426.666016 7.347205162 1180.279016 215.3643951
11 02 2018 15:10 2791.386963 10.68120956 3147.878945 217.6795044
11 02 2018 15:20 2893.190918 11.38481045 3392.03647 216.4810944
11 02 2018 15:30 2677.381104 10.47142982 3052.056214 215.5574951
11 02 2018 15:40 186.6755066 4.264482021 173.7429106 214.8173981
11 02 2018 15:50 522.572998 5.495730877 467.7726487 226.5536041
11 02 2018 16:00 1943.660034 8.821209908 2029.432074 210.1772003
11 02 2018 16:10 51.79510117 4.258697987 172.5961047 330.541687
11 02 2018 16:20 1052.035034 8.020680428 1541.861703 241.4976959
11 02 2018 16:30 3267.756104 11.57312965 3439.370292 227.7478027
11 02 2018 16:40
                 1893.339966 8.556154251 1862.733358 234.7991943
11 02 2018 16:50
                 1912.119019 8.80963707 2022.069576 238.2261047
11 02 2018 17:00 1544.447998 7.912578106 1480.338205 235.8995972
11 02 2018 17:10 1795.921997 8.498123169 1826.836359 245.3838959
11 02 2018 17:20 1950.208984 8.543413162 1854.831773 239.4667053
11 02 2018 17:30 2621.145996 9.860049248 2701.968948 231.3618011
11 02 2018 17:40 2034.161987 8.75044632 1984.524562 230.3258972
11 02 2018 17:50 1652.68103 8.278786659 1693.457181 241.5485992
11 02 2018 18:00 1519.178955 8.109904289 1593.548463 245.7411041
11 02 2018 18:10 1905.574951 8.726254463 1969.235238 244.5632935
```

```
11 02 2018 18:20 1925.833984 8.716533661 1963.101092 247.6582031
                  700.8873291 6.100069046 658.2682394 267.4526062
11 02 2018 18:30
11 02 2018 18:40
                  40.94528961 3.370654106 38.85168871 311.6636963
11 02 2018 18:50
                  44.75793076 3.319205046 34.36591036 313.1752014
                  2.185801029 2.935832977 0
11 02 2018 19:00
                                                 314.6758118
11 02 2018 19:10
                  87.49182129 3.935915947 116.0244031 288.7973938
                  39.61048889 3.400504112 41.64841511 300.3194885
11 02 2018 19:20
                  3.291328907 2.887178898 0
11 02 2018 19:30
                                                 293.3511047
11 02 2018 19:40
                  0
                        2.07466197 0
                                           330,3080139
11 02 2018 19:50
                        1.605581045 0
                  0
                                           324.0344849
11 02 2018 20:00
                        1.66813004 0
                                           309.5212097
                  Θ
11 02 2018 20:10
                  0
                        1.994776964 0
                                           281.2716064
11 02 2018 20:20
                        1.588611007 0
                                           309.9487915
11 02 2018 20:30
                  0
                        1.710242987 0
                                           309.5367126
11 02 2018 20:40
                        1.717340946 0
                                           299.898407
                  0
11 02 2018 20:50
                  3.740931988 3.933682919 115.6189568 280.9266968
11 02 2018 21:00
                  10.53559971 3.266642094 30.22038749 280.0863953
11 02 2018 21:10 6.185095787 3.109786034 20.47739093 293.6531982
                                           326.8306885
11 02 2018 21:20
                  0
                        1.979333043 0
11 02 2018 21:30
                  0
                        1.967211008 0
                                           296.4960938
11 02 2018 21:40
                        2.88578701 0
                                           267.166687
                  0
                  9.18466568 3.070513964 18.65422436 271.2898865
11 02 2018 21:50
11 02 2018 22:00
                  31.91929054 3.480365992 49.8318306 263.0766907
11 02 2018 22:10
                  112.6080017 4.296696186 180.1623255 256.6427917
11 02 2018 22:20
                  2.655533075 3.230447054 27.6227733 274.7311096
11 02 2018 22:30
                  6.731719017 2.68356204 0
                                                 271.1828003
11 02 2018 22:40
                  41.49121094 3.874073029 105.0906297 259.8551025
11 02 2018 22:50
                        2.700916052 0
                                           268.6719055
                  0
11 02 2018 23:00
                  0
                        1.532505989 0
                                           294.5461121
11 02 2018 23:10
                  0
                        2.77680397 0
                                           278.2272034
11 02 2018 23:20
                  0
                        2.43482399 0
                                           282.8034973
11 02 2018 23:30
                        2.032599926 0
                                           290.7359924
                  0
11 02 2018 23:40
                        1.554345965 0
                                           277.4432068
                  0
11 02 2018 23:50
                        2.170207977 0
                                           261,4873962
                  0
12 02 2018 00:00
                        3.322848082 34.66960931 253.5446014
                  0
                  8.71787262 3.714268923 79.67101306 258.5754089 14.1717701 3.356101036 37.53986899 262.4075928
12 02 2018 00:10
12 02 2018 00:20
                        2.893115997 0
12 02 2018 00:30
                  0
                                           259.9844971
12 02 2018 00:40
                        3.74663496 84.48941983 265.1867981
12 02 2018 00:50
                  4.495268822 3.596988916 63.61530663 262.7770081
12 02 2018 01:00
                  2.866802931 3.235213041 27.95283131 265.4507141
                  8.941523552 3.544986963 57.20044604 260.7455139
12 02 2018 01:10
12 02 2018 01:20
                  45.42840958 3.878596067 105.8695581 263.3143921
12 02 2018 01:30
                  -0.077133402
                                    2.749634981 0
                                                       271.6351013
12 02 2018 01:40
                        1.805827975 0
                  0
                                           262.8634949
12 02 2018 01:50
                  0
                        1.787497997 0
                                           271.2155151
12 02 2018 02:00
                  0
                        2.308969975 0
                                           294.1480103
12 02 2018 02:10
                  0
                        1.691777945 0
                                           295.3711853
12 02 2018 02:20
                  0
                        1.988842964 0
                                           275.0483093
12 02 2018 02:30
                  0
                        2.324949026 0
                                           276.4216919
12 02 2018 02:40
                  0
                        2.831227064 0
                                           284.4707031
12 02 2018 02:50
                        3.281200886 31.3243434 287.1845093
                  0
12 02 2018 03:00
                        3.39269495 40.90298431 306.9124146
12 02 2018 03:10
                        2,277064085 0
                                           318.5834961
                  0
12 02 2018 03:20
                        1.38252604 0
                                           310.3786926
                  0
12 02 2018 03:30
                  0
                        2.53283596 0
                                           326.2098999
12 02 2018 03:40
                  0
                        1.565809011 0
                                           349.4484863
12 02 2018 03:50
                                           29.74007034
                  0
                        1.841048956 0
12 02 2018 04:00 0
                        2.238924026 0
                                           14.56315041
```

```
12 02 2018 04:10
                         2.558381081 0
                                            6.379444122
                   0
12 02 2018 04:20
                         3.071607113 18.7016339 33.13381958
                   0
12 02 2018 04:30
                   0
                         3.144001961 22.26698792 37.8539505
12 02 2018 04:40
                   0
                         1.844169974 0
                                            355,0889893
12 02 2018 04:50
                   0
                         1.807559013 0
                                            45.15810013
12 02 2018 05:00
                   0
                         1.710497975 0
                                            32.48833847
12 02 2018 05:10
                   0
                         1.746711969 0
                                            15.63609982
12 02 2018 05:20
                                            341.0914917
                   0
                         1.450919032 0
12 02 2018 05:30
                   0
                         1.499843955 0
                                            294.3132935
12 02 2018 05:40
                   0
                         2.160403013 0
                                            284.5744019
12 02 2018 05:50
                         2.200257063 0
                   0
                                            285.3937073
12 02 2018 06:00
                         2.456933975 0
                                            303.5599976
12 02 2018 06:10
                         2.504967928 0
                                            305.1842041
12 02 2018 06:20
                   0
                         3.036091089 17.25912019 295.0826111
12 02 2018 06:30
                         2.406465054 0
                                            293.0509949
                   0
12 02 2018 06:40
                   0
                         2.369101048 0
                                            290.468811
12 02 2018 06:50
                   0
                         2.105669022 0
                                            296.4422913
12 02 2018 07:00
                   0
                                            295.413208
                         1.84594202
12 02 2018 07:10
                   0
                         2.363445044 0
                                            311.1034851
12 02 2018 07:20
                   0
                         1.365874052 0
                                            311.1600037
12 02 2018 07:30
                         1.333631039 0
                                            312.3250122
                   0
12 02 2018 07:40
                                            317.9896851
                   0
                         1.112746954 0
12 02 2018 07:50
                   0
                         1.040647984 0
                                            296.4508057
12 02 2018 08:00
                   0
                         1.430626035 0
                                            287.3243103
12 02 2018 08:10
                         1.089931965 0
                                            293.5179138
12 02 2018 08:20
                         0.867268682 0
                                            248.8009033
12 02 2018 08:30
                         1.75216496
                                            230.7362976
12 02 2018 08:40
                                            245.9951019
                   0
                         0.814511299 0
12 02 2018 08:50
                   0
                         0.941823483 0
                                            47.85737991
12 02 2018 09:00
                   0
                         1.169020057 0
                                            115.0979004
12 02 2018 09:10
                   0
                         1.504943013 0
                                            182.1432953
12 02 2018 09:20
                   0
                         1.36127305
                                            178.1054993
12 02 2018 09:30
                         2.941246033 0
                                            213.6098938
12 02 2018 09:40
                         2.55548811
                                            240.9143982
                   0
12 02 2018 09:50
                         1.805670977 0
                                            243.3242035
                   0
12 02 2018 10:00
                   0
                         1.776975036 0
                                            228.6217041
12 02 2018 10:10
                   0
                         1.455729008 0
                                            229.8482971
12 02 2018 10:20
                   0
                         0.813225508 0
                                            228.5200043
12 02 2018 10:30
                         1.093387008 0
                                            7.887746811
12 02 2018 10:40
                         0.954787314 0
                                            316.3037109
12 02 2018 10:50
                         1.282632947 0
                                            12.08411026
12 02 2018 11:00
                                            14.17117023
                   0
                         1.039008021 0
12 02 2018 11:10
                         0.587068021 0
                                            153.0180969
                   0
12 02 2018 11:20
                   0
                         1.064726949 0
                                            201.8430023
12 02 2018 11:30
                   0
                         2.56406498 0
                                            209.3135986
12 02 2018 11:40
                   0
                         2.135504007 0
                                            213.1636963
12 02 2018 11:50
                   0
                         2.728336096 0
                                            249.0379028
12 02 2018 12:00
                                            263.4820862
                   0
                         2.039949894 0
12 02 2018 12:10
                   0
                         1.80785799
                                            280.1659851
12 02 2018 12:20
                   0
                         1.000856996 0
                                            287.635498
12 02 2018 12:30
                   0
                         0.998690128 0
                                            210.3350067
12 02 2018 12:40
                         0.632662296 0
                                            98.48383331
12 02 2018 12:50
                         1.066161036 0
                                            210.0285034
12 02 2018 13:00
                         1.483937025 0
                                            266.255188
                   0
12 02 2018 13:10
                         1.245656013 0
                                            269.7659912
                   0
12 02 2018 13:20
                   0
                         1.012436032 0
                                            230.2769012
12 02 2018 13:30
                   0
                         1.048213005 0
                                            258.1505127
12 02 2018 13:40
                   0
                         0.80247879
                                     0
                                            234.1595001
12 02 2018 13:50
                         1.001263022 0
                                            267.9047852
```

```
12 02 2018 14:00
                         1.063634038 0
                                            275.3127136
                  0
12 02 2018 14:10
                   0
                         1.266139984 0
                                            245.8114014
12 02 2018 14:20
                         0.763347089 0
                                            235,9098969
                   0
12 02 2018 14:30
                  0
                         0.604696214 0
                                            182.0435028
12 02 2018 14:40
                   0
                         1.503304005 0
                                            122.8388977
12 02 2018 14:50
                         1.485733986 0
                                            125.4962997
12 02 2018 15:00
                   0
                         0.933843613 0
                                            172.3912964
12 02 2018 15:10
                   0
                         0.362532288 0
                                            126.5641022
12 02 2018 15:20
                   0
                         0.338692307 0
                                            235.2084045
12 02 2018 15:30
                                            273.7510986
                   0
                         0.377988309 0
12 02 2018 15:40
                  Θ
                         0.677229524 0
                                            154.3890076
12 02 2018 15:50
                         1.062132955 0
                                            184.3356934
12 02 2018 16:00
                         1.380854964 0
                                            152.5646057
12 02 2018 16:10
                  0
                         1.659870028 0
                                            143.3191986
12 02 2018 16:20
                         2.105393887 0
                                            162.0292969
                  0
12 02 2018 16:30
                   0
                         3.193538904 25.18982953 184.9707947
12 02 2018 16:40
                  0
                         3.336720943 35.84554969 213.3679047
12 02 2018 16:50
                   0
                         3.37766099 39.49537753 225.1334076
                   77.46264648 3.87319994 104.9406489 200.7861938
12 02 2018 17:00
                   43.45001984 3.568347931 60.02868343 202.509903
12 02 2018 17:10
12 02 2018 17:20
                   7.381134987 2.901916027 0
                                                  212.2330933
12 02 2018 17:30
                   0
                                            231.0130005
                         2.332618952 0
12 02 2018 17:40
                   0
                         2.871608019 0
                                            241.9649048
12 02 2018 17:50
                   0
                         3.400126934 41.61218696 235.2738037
12 02 2018 18:00
                   0
                         2.360754967 0
                                            229.2133942
12 02 2018 18:10
                         1.431435943 0
                                            233.891098
12 02 2018 18:20
                         0.8015908
                                            232.1667938
                                     0
12 02 2018 18:30
                         0.497287393 0
                                            326.8823853
                   0
12 02 2018 18:40
                   0
                         1.085332036 0
                                            22.74084091
12 02 2018 18:50
                                            215.1822968
                   0
                         0.458208799 0
12 02 2018 19:00
                  0
                         0.444958389 0
                                            162.0630035
12 02 2018 19:10
                   0
                         0.652317703 0
                                            14.43488026
12 02 2018 19:20
                         1.106438041 0
                                            80.50981903
12 02 2018 19:30
                         1.604495049 0
                                            77.26230621
                   0
12 02 2018 19:40
                         2.227293968 0
                                            79.21914673
                   0
12 02 2018 19:50
                   0
                         1.928676009 0
                                            69.5561676
12 02 2018 20:00
                   0
                         1.134840965 0
                                            65.34246826
                                            59.06182861
12 02 2018 20:10
                   0
                         1.865239024 0
12 02 2018 20:20
                         1.229500055 0
                                            72.01312256
12 02 2018 20:30
                         0.283417493 0
                                            213.0057983
12 02 2018 20:40
                         0.477555186 0
                                            112.9923019
                   0
12 02 2018 20:50
                                            118.6384964
                   0
                         0.664441884 0
12 02 2018 21:00
                         0.710571826 0
                                            158.4658051
                   0
                         0.829382002 0
12 02 2018 21:10
                  0
                                            121.2751007
12 02 2018 21:20
                   0
                                            189.9927063
                         1.182327986 0
12 02 2018 21:30
                         1.240507007 0
                                            227.1257019
12 02 2018 21:40
                   0
                         1.253975034 0
                                            212.3961029
12 02 2018 21:50
                   0
                         2.1364851
                                     0
                                            200.0238037
12 02 2018 22:00
                   0
                         3.518287897 54.07500025 219.934494
12 02 2018 22:10
                   0
                         2.309875965 0
                                            244.6230927
12 02 2018 22:20
                   0
                         1.836720943 0
                                            254.9902039
12 02 2018 22:30
                                            272.5177002
                         1.243332028 0
12 02 2018 22:40
                         1.34810698
                                            324.4421082
12 02 2018 22:50
                         1.763713956 0
                                            28.90674019
                   0
12 02 2018 23:00
                         1.964267969 0
                                            32.78306961
                   0
12 02 2018 23:10
                   0
                         2.258177996 0
                                            36.99483109
12 02 2018 23:20
                  0
                         2.130228043 0
                                            46.68553925
12 02 2018 23:30
                   0
                         1.865301013 0
                                            33.61471939
12 02 2018 23:40
                         1.540191054 0
                                            9.412691116
```

```
12 02 2018 23:50 0
                           1.621924996 0
                                                331.0671082
13 02 2018 00:00 0
                                                322.0671997
                           2.841897011 0
13 02 2018 00:10 0
                           3.130019903 21.51305092 324.4519958
13 02 2018 00:20 3.197398901 3.781639099 89.88922567 328.236908
                           2.58791399 0
13 02 2018 00:30 0
                                                327.1285095
13 02 2018 00:40 0
                           2.360882998 0
                                                334.4645081
13 02 2018 00:50 0
                           1.906823039 0
                                                334.1505127
                                           334.1505127
333.681488
326.770813
339.0776978
317.694397
313.3479919
313.9034119
304.3016968
13 02 2018 01:00 0
                           1.815912962 0
13 02 2018 01:10 0
                           1.746065021 0
13 02 2018 01:20 0
                           1.877537012 0
13 02 2018 01:30 0
                          1.821215987 0
13 02 2018 01:40 0
                          1.99970901 0
13 02 2018 01:50 0
                          1.654729962 0
13 02 2018 02:00 0
                           2.260071993 0
13 02 2018 02:10 0
                           2.150758982 0
                                                302.3387146
13 02 2018 02:20 0
                           2.202050924 0
                                                292.7633057
13 02 2018 02:30 0
                           2.353863955 0
                                                286.7072144
13 02 2018 02:40 0
                           2.774919033 0
                                                286.4130859
13 02 2018 02:50 0
                           3.308094025 33.45276303 286.2643127
13 02 2018 03:00 28.3339901 3.769901991 88.05678975 274.5260925
13 02 2018 03:10 2.438333035 3.142602921 22.19014089 271.245697
13 02 2018 03:20 129.3462982 4.302762985 181.3774546 266.3803101
13 02 2018 03:30 150.3249969 4.272459984 175.32759 273.0473022
13 02 2018 03:40 103.7266998 3.891625881 108.1317652 276.989502
13 02 2018 03:50 74.54637146 3.722975016 80.95063036 285.1600952
13 02 2018 04:00 15.09514999 2.972733021 0
                                                   278.528595
13 02 2018 04:10 1.43306601 2.610965014 0
                                                       289.0994873
13 02 2018 04:20 0
                           2.609378099 0
                                                296.3051147
13 02 2018 04:30 0
                                                299.4112854
                           2.916588068 0
13 02 2018 04:40 3.911334991 3.541579962 56.79526718 291.5909119
13 02 2018 04:50 -0.718266189 3.179411888 24.31627047 297.8956909
13 02 2018 05:00 0 2.955085993 0 299.4038086
13 02 2018 05:10 0
                           2.520427942 0
                                                295.4390869
13 02 2018 05:20 0
                          2.071997881 0
                                                287.2842102
13 02 2018 05:30 0
                           2.963205099 0
                                                307.7326965

      13
      02
      2018
      05:40
      0
      3.28371191
      31.51817697
      309.2094116

      13
      02
      2018
      05:50
      0
      3.243912935
      28.56469553
      314.8797913

      13
      02
      2018
      06:00
      0
      3.059175014
      18.17373505
      324.0361938

      13
      02
      2018
      06:10
      0
      2.578670979
      0
      329.8977051

13 02 2018 06:20 0 1.982808948 0
                                                308.6517029
13 02 2018 06:30 0
                         2.110574007 0
                                                298.1431885
13 02 2018 06:40 0
                          2.438358068 0
                                                307.4572144
                       1.114542961 0
0.768194079 0
                          1.114542961 0
13 02 2018 06:50 0
                                                296.0740967
13 02 2018 07:00 0
                                                297.967804
13 02 2018 07:10 0 0.863645494 0
                                                295.7869873
13 02 2018 07:20 0
                         1.03729105 0 291.5802002
                         1.353873014 0 268.9396057
2.233217955 0 239.0457001
2.439754009 0 244.2109985
13 02 2018 07:30 0
13 02 2018 07:40 0
13 02 2018 07:50 0
13 02 2018 08:00 0
                           1.776448011 0
                                                232.6943054
13 02 2018 08:10 0
                           2.235392094 0
                                                203.7162018
13 02 2018 08:20 0
                           2.491942883 0
                                                223.9989929
13 02 2018 08:30 0
                           2.985337973 0
                                                229.1347961
13 02 2018 08:40 0
                           3.089102983 19.4864428 216.6107025
13 02 2018 08:50 27.8314991 3.4457829 46.1628443 215.3408966
13 02 2018 09:00 29.39323997 3.34565711 36.61933455 220.1083069
13 02 2018 09:10 32.93875885 3.32089591 34.50660395 213.5391998
13 02 2018 09:20 66.44072723 3.608206987 65.05588276 212.2059937
13 02 2018 09:30 16.37063026 3.128983021 21.45838624 204.1580963
```

```
13 02 2018 09:40 77.11858368 3.615731001 66.03336527 207.7740936
13 02 2018 09:50 80.93897247 3.684740067 75.42119883 211.8085022
13 02 2018 10:00
                 29.40475082 3.157267094 23.0111821 217.7664948
13 02 2018 10:10 8.565458298 2.543994904 0
                                               208.074295
13 02 2018 10:20 0
                       1.888954997 0
                                         202.4906006
13 02 2018 10:30
                 0
                       1.271118999 0
                                         204.5014954
13 02 2018 10:40 0
                       1.920204997 0
                                         203.1611938
                                         214.4362946
13 02 2018 10:50
                 0
                       2.222754002 0
13 02 2018 11:00 0
                       1.57229197 0
                                         235.3047028
13 02 2018 11:10
                 0
                       2.75228405 0
                                         190.8090973
13 02 2018 11:20 85.51513672 3.768815994 87.88835446 181.4239044
13 02 2018 11:30 5.139798164 2.993225098 0
                                               198.4577942
13 02 2018 11:40
                 20.80369949 3.135134935 21.78523399 208.0892029
13 02 2018 11:50 2.33373189 3.711865902 79.31995385 217.7602997
13 02 2018 12:00 0
                       3.757260084 86.1077495 207.9716034
13 02 2018 12:10 0
                       3.141976118 22.15581323 203.8381042
13 02 2018 12:20 94.0220871 4.12686491 146.9194744 220.5632935
13 02 2018 12:30 29.84329033 2.615933895 0
                                               188.406601
13 02 2018 12:40 30.97987938 3.06980896 18.62374999 205.3007965
13 02 2018 12:50 91.17951202 3.746562004 84.47837021 213.3014069
13 02 2018 13:00
                 188.9259033 4.422275066 205.7266916 202.7779999
                 251.6678925 4.638681889 251.9451819 205.6128998
13 02 2018 13:10
13 02 2018 13:20
                 273.5826111 4.746982098 276.1878469 207.2677002
13 02 2018 13:30 289.876709 4.987432003 332.9180522 212.1320038
13 02 2018 13:40 344.8156128 5.25894022 402.253172 208.5375977
13 02 2018 13:50 138.2198029 4.161336899 153.5498264 202.8771973
13 02 2018 14:00 124.4793015 3.98665309 125.4516444 199.9190979
13 02 2018 14:10 108.3647003 3.949749947 118.5539952 196.5502014
13 02 2018 14:20 69.35785675 3.655424118 71.34003374 195.6564941
13 02 2018 14:30 113.8501968 3.908744097 111.1450778 209.767395
13 02 2018 14:40 229.2077942 4.768006802 280.9852128 206.9152069
13 02 2018 14:50 280.4401855 4.930747986 319.1671537 206.636795
13 02 2018 15:00 410.3721008 5.566596985 488.3633061 206.2088928
13 02 2018 15:10 619.3422241 6.199001789 693.2058105 207.4880066
13 02 2018 15:20 730.7617798 6.37594223 758.3125302 211.3549042
13 02 2018 15:30 801.5582886 6.748557091 906.7046625 208.8343048
13 02 2018 15:40 813.5178833 6.768345833 915.0289392 206.7351074
13 02 2018 15:50 962.5770264 7.079749107 1052.296579 203.1952057
13 02 2018 16:00 1055.469971 7.297575951 1155.77863 203.4143066
13 02 2018 16:10 1007.536987 7.208703041 1112.775626 199.1949005
13 02 2018 16:20 1414.223022 7.810893059 1423.634424 202.4781036
13 02 2018 16:30 1656.939941 8.518226624 1839.245139 205.8715973
13 02 2018 16:40 1931.597046 9.240052223 2299.74842 203.7543945
13 02 2018 16:50 2241.134033 9.9792099 2779.107401 201.7250061
13 02 2018 17:00 2470.616943 10.41821957 3025.892594 200.7301941
13 02 2018 17:10 2572.975098 10.49003029 3061.021131 200.5429993
13 02 2018 17:20 2452.443115 10.09022045 2846.934711 201.9680023
13 02 2018 17:30 2357.513916 10.00247002 2793.636831 200.4613953
13 02 2018 17:40 2379.799072 10.13366985 2872.452482 197.8312988
13 02 2018 17:50
                 2613.980957 10.56655025 3096.930827 195.4114075
13 02 2018 18:00
                 2561.559082 10.45259953 3042.885371 193.3264008
13 02 2018 18:10 2590.576904 10.60284042 3113.422751 194.1623993
13 02 2018 18:20 2924.836914 11.08971024 3303.20471 194.8636017
13 02 2018 18:30 2933.150879 11.06225014 3293.980592 194.4373932
13 02 2018 18:40 3019.289063 11.29673958 3367.45066 191.2901001
13 02 2018 18:50 3194.528076 11.39624977 3395.113321 190.4568939
13 02 2018 19:00 2803.594971 10.6698103 3142.964424 187.2335052
13 02 2018 19:10 3382.707031 11.91005039 3507.264837 188.3520966
13 02 2018 19:20 3341.043945 11.87263966 3500.741572 186.1499939
```

```
3315.360107 11.70993996 3469.458013 184.789505
13 02 2018 19:30
                             12.05529976 3530.288533 185.4248047
                 3490.7771
13 02 2018 19:40
                 3586.093018 12.35898018 3567.055558 186.6380005
13 02 2018 19:50
13 02 2018 20:00
                 3602.503906 12.43962955 3574.339405 185.0740051
13 02 2018 20:10
                 3550.087891 13.72947025 3600 185.5809937
13 02 2018 20:20
                 3486.344971 15.07118988 3600 187.1504059
13 02 2018 20:30
                 3508.823975 14.69653988 3600
                                               183.7198029
                 3463.720947 14.67553997 3600
13 02 2018 20:40
                                               181.3977966
13 02 2018 20:50
                 3460.968994 14.99668026 3600
                                               180.9582062
                 3460.001953 14.93525982 3600
13 02 2018 21:00
                                               183,4255066
13 02 2018 21:10
                 3460.475098 15.66112041 3600
                                               183.0343933
13 02 2018 21:20
                 3460.2229
                             15.21494007 3600
                                               181.3742981
13 02 2018 21:30
                 3460.833984 15.21224022 3600
                                               184.6766968
13 02 2018 21:40
                 3461.563965 14.99392986 3600
                                               186.9165039
13 02 2018 21:50
                 3460.60498 15.39828968 3600
                                               185.8038025
13 02 2018 22:00
                 3460.523926 15.35968018 3600
                                               184.641098
13 02 2018 22:10
                 3461.751953 14.7112999 3600
                                               183.1631012
13 02 2018 22:20
                 3461.544922 15.1631403 3600 183.0838928
13 02 2018 22:30
                 3460.822021 15.78433037 3600 181.2841949
13 02 2018 22:40
                 3461.074951 16.46137047 3600 180.4609985
13 02 2018 22:50
                 3460.591064 16.61800957 3600 179.0269012
                 3460.654053 16.28424072 3600
13 02 2018 23:00
                                               182.4936066
13 02 2018 23:10
                 3461.0979
                             14.82878971 3600
                                               179.9996948
13 02 2018 23:20
                 3530.940918 13.31849003 3600 176.546402
13 02 2018 23:30
                 3600.802002 12.5582304 3583.226529 177.597702
13 02 2018 23:40
                 3575.008057 12.61464977 3586.704465 181.4060974
13 02 2018 23:50
                 3600.959961 12.74870014 3593.065044 181.1808929
                 3603.740967 13.30088997 3600 181.9243927
14 02 2018 00:00
14 02 2018 00:10
                 3535.629883 14.09928989 3600
                                               183.1203003
                 3488.843994 14.1899004 3600 183.8952942
14 02 2018 00:20
                 3460.688965 13.41569042 3600 183.8045044
14 02 2018 00:30
14 02 2018 00:40
                 3505.555908 14.41205025 3600 186.4485931
14 02 2018 00:50
                 3474.870117 14.77604008 3600 182.5671997
14 02 2018 01:00
                 3472.562988 14.47305012 3600
                                               180.8862
                 3477.864014 14.71642971 3600
14 02 2018 01:10
                                               180.5426941
14 02 2018 01:20
                 3467.666992 15.46341991 3600
                                               180.9537964
14 02 2018 01:30
                 3493.943115 14.53995991 3600
                                               177.0222015
14 02 2018 01:40
                 3581.663086 13.55305004 3600
                                               173.9371033
14 02 2018 01:50
                 3565.583984 13.76463985 3600
                                               172.2295074
                 3588.592041 13.37366009 3600
14 02 2018 02:00
                                               170.9727936
14 02 2018 02:10
                 3588.488037 13.96975994 3600
                                               170.3114929
14 02 2018 02:20
                 3574.399902 14.45786953 3600
                                               175.091507
14 02 2018 02:30
                 3531.375
                             15.59066963 3600
                                               176.7200928
                                               174.6631927
14 02 2018 02:40
                 3550.066895 15.21037006 3600
14 02 2018 02:50
                 3499.187988 15.71380997 3600
                                               177.7572021
14 02 2018 03:00
                 3461.154053 16.86198997 3600
                                               181.2534943
14 02 2018 03:10
                 3466.834961 16.56415939 3600
                                               180.1631012
                 3556.569092 14.96117973 3600
14 02 2018 03:20
                                               177.6360931
                 3550.74292 15.27070045 3600
14 02 2018 03:30
                                               177.0140991
                                               175.5372009
14 02 2018 03:40
                 3542.635986 15.62434006 3600
                 3510.001953 15.2188797 3600
14 02 2018 03:50
                                               176.4295044
14 02 2018 04:00
                 3533.39502 15.33887005 3600
                                               175.7384949
14 02 2018 04:10
                 3603.957031 14.47527981 3600
                                               173.0565948
14 02 2018 04:20
                 3603.586914 13.60023022 3600
                                               174.4431
14 02 2018 04:30
                 3585.556885 13.21012974 3600
                                               176.9622955
14 02 2018 04:40
                 3552.802979 13.26628017 3600
                                               175.9544983
14 02 2018 04:50
                 3562.125
                             13.74843979 3600 173.736496
14 02 2018 05:00
                 3602.818115 13.37084961 3600
                                              171.1069946
14 02 2018 05:10 3602.272949 13.82711983 3600 173.1340942
```

```
14 02 2018 05:20 3598.025879 13.13300991 3600
                                              172.1544037
14 02 2018 05:30
                 3549.491943 13.76721954 3600
                                              173.7126007
14 02 2018 05:40
                 3472.118896 15.74831009 3600
                                              175.6941986
14 02 2018 05:50
                 3546.541992 13.80869961 3600
                                              169.5865021
14 02 2018 06:00
                 3593.843018 12.88733006 3596.87558 167.8166962
14 02 2018 06:10
                 3550.531982 13.50154972 3600
                                              167.5773926
14 02 2018 06:20
                 3575.197998 13.84183979 3600
                                              171.9967041
                 3569.568115 13.17541027 3600
14 02 2018 06:30
                                              168.8917999
14 02 2018 06:40
                 3528.259033 13.90707016 3600
                                               171.5272064
14 02 2018 06:50
                 3521.009033 14.38998985 3600
                                               169.7566986
14 02 2018 07:00
                 3490.001953 15.70641041 3600
                                               175.8571014
14 02 2018 07:10
                 3594.024902 14.03417015 3600
                                              165.6056061
14 02 2018 07:20
                 3466.398926 16.30291939 3600
                                              165.7962036
14 02 2018 07:30
                 3461.919922 18.36005974 3600
                                              171.0695038
                 3461.615967 19.47019005 3600
14 02 2018 07:40
                                              174.8395996
14 02 2018 07:50
                 3461.785889 18.45152092 3600
                                              173.8215027
14 02 2018 08:00
                 3461.956055 18.28541946 3600
                                              171.2754059
14 02 2018 08:10
                 3461.885986 18.11116982 3600
                                             173.0218964
14 02 2018 08:20
                 3463.547119 17.80567932 3600 173.1609955
14 02 2018 08:30
                 3462.72998 18.51325989 3600
                                              175.8739014
14 02 2018 08:40
                 3462.926025 18.29405022 3600
                                              177.6770935
                 3461.86792 17.76301003 3600
14 02 2018 08:50
                                              181.8773041
14 02 2018 09:00
                 3461.885986 17.26766014 3600
                                              179.9347992
14 02 2018 09:10
                 3464.63208 15.70271015 3600
                                              179.9402008
14 02 2018 09:20
                 3490.934082 14.69293022 3600 177.3571014
14 02 2018 09:30 3462.13501 16.59881973 3600 172.646698
14 02 2018 09:40 3461.572021 18.41534996 3600 177.5381927
14 02 2018 09:50 3462.193115 16.74438095 3600 179.2068939
14 02 2018 10:00
                 3462.207031 16.4717598 3600
                                              179.7389984
                 3475.170898 15.21848011 3600 177.396698
14 02 2018 10:10
14 02 2018 10:20 3512.302002 13.56589031 3600 176.1468048
14 02 2018 10:30
                 3513.383057 12.13150978 3540.935336 173.8011017
14 02 2018 10:40
                 3479.356934 13.3758297 3600 173.6585999
14 02 2018 10:50
                 3570.089111 13.82884979 3600 172.759903
                 3505.281006 12.81696033 3595.289356 183.3285065
14 02 2018 11:00
14 02 2018 11:10
                 3420.103027 13.15312958 3600 186.9508057
14 02 2018 11:20
                 3336.710938 11.80064964 3487.489669 182.1916962
                 3538.521973 13.70491982 3600 179.9069061
14 02 2018 11:30
14 02 2018 11:40
                 3535.759033 13.81647015 3600 173.3087006
14 02 2018 11:50
                 2921.72998 10.54316044 3086.11883 169.4026031
14 02 2018 12:00
                 2886.093994 10.53516006 3082.387555 169.3103027
14 02 2018 12:10 3588.041992 12.99015999 3597.917172 174.861496
14 02 2018 12:20
                 3095.965088 11.01471996 3277.614427 178.3721008
14 02 2018 12:30
                 3030.062988 11.37088966 3388.2563
                                                   188.1813965
14 02 2018 12:40
                 3350.443115 11.98001003 3518.807293 189.9669952
14 02 2018 12:50
                 2748.399902 10.22758961 2925.682966 184.8065948
14 02 2018 13:00
                 1944.219971 8.68251133 1941.675536 177.3289948
                 2135.179932 8.926417351 2096.667521 176.7276001
14 02 2018 13:10
14 02 2018 13:20
                 2077.349121 8.791118622 2010.302947 178.5569
14 02 2018 13:30
                 2732.939941 10.8659296 3223.023209 198.7792053
14 02 2018 13:40
                 3338.993896 11.27635956 3361.532372 193.6735992
14 02 2018 13:50
                 3464.458008 13.8670702 3600 188.5650024
14 02 2018 14:00
                 3467.052979 15.37903023 3600
                                              191.3374023
14 02 2018 14:10
                 3461.479004 15.56816006 3600 191.2485046
14 02 2018 14:20
                 3461.64209 17.0665493 3600 196.5836945
14 02 2018 14:30
                 3461.589111 16.42268944 3600 195.3520966
14 02 2018 14:40
                 3461.61792 17.33893967 3600 197.6817932
14 02 2018 14:50 3461.522949 17.94780922 3600 201.6358948
14 02 2018 15:00 3461.420898 17.89115906 3600 199.6457977
```

```
14 02 2018 15:10 3461.825928 17.63196945 3600
                                               201.1629944
                 3461.907959 17.36491966 3600 199.0897064
14 02 2018 15:20
14 02 2018 15:30
                 3461.815918 18.17573929 3600
                                              197.4248962
14 02 2018 15:40 3461.639893 18.80562973 3600 202.4093933
14 02 2018 15:50 3461.801025 19.41436005 3600 204.2485046
14 02 2018 16:00 3461.665039 17.98690033 3600
                                              203.9602051
14 02 2018 16:10
                 3461.052002 17.45550919 3600
                                               199.8356018
                 3461.493896 18.18276024 3600
14 02 2018 16:20
                                               199.1885986
14 02 2018 16:30
                 3461.439941 17.86108971 3600
                                               203.2548065
14 02 2018 16:40
                 3461.414063 17.97126007 3600
                                               204.8659058
14 02 2018 16:50
                 3461.262939 18.15660095 3600
                                               203.1423035
14 02 2018 17:00 3468.778076 17.45676994 3600
                                               201.9732971
14 02 2018 17:10 3470.975098 16.62520027 3600
                                               201.7826996
14 02 2018 17:20 3478.883057 15.64354038 3600
                                               200.0363007
14 02 2018 17:30 3480.293945 15.93029022 3600
                                               200.3507996
14 02 2018 17:40 3467.553955 15.59237003 3600
                                               199.8220978
14 02 2018 17:50
                 3468.226074 14.72463036 3600 195.2100067
14 02 2018 18:00
                 3519.112061 15.27221012 3600 199.1996002
14 02 2018 18:10
                            15.51202011 3600 206.1082001
                 3568.0271
                 3603.781982 14.57966042 3600 204.2198944
14 02 2018 18:20
14 02 2018 18:30
                 3592.187012 14.75434017 3600 209.5401001
14 02 2018 18:40
                 3582.861084 15.06863976 3600
                                              212.1156006
14 02 2018 18:50
                 3601.207031 14.19326019 3600
                                               209.1428986
14 02 2018 19:00
                 3600.194092 13.17356968 3600 212.0565033
14 02 2018 19:10
                 3599.779053 12.91543961 3597.310188 214.206604
14 02 2018 19:20 3602.478027 13.31305981 3600 216.8538055
14 02 2018 19:30 3550.531982 12.19948959 3549.619484 210.8175049
14 02 2018 19:40 3427.033936 11.75712967 3479.026148 209.3957977
14 02 2018 19:50 3415.403076 11.7551403 3478.631033 212.8076935
14 02 2018 20:00 3292.042969 11.40330029 3396.996502 207.1508026
14 02 2018 20:10 3587.663086 12.74442959 3592.903284 205.292099
14 02 2018 20:20
                 3551.675049 13.88282013 3600 199.9736023
14 02 2018 20:30
                 3542.653076 12.7418499 3592.804276 192.1293945
14 02 2018 20:40 3406.858887 11.52830029 3428.735127 198.0133972
14 02 2018 20:50 3258.935059 11.33872986 3379.37188 201.5016937
                 3543.01709 12.3292799 3564.116182 200.8381958
14 02 2018 21:00
                 3598.24707 12.6972599 3590.93845 198.1855011
14 02 2018 21:10
                 3563.099121 12.36244965 3567.38985 195.488205
14 02 2018 21:20
14 02 2018 21:30 3552.495117 12.20417023 3550.189545 196.0487061
14 02 2018 21:40 3542.543945 12.99094009 3597.919324 194.158493
14 02 2018 21:50 3462.464111 13.57448959 3600 195.1383972
14 02 2018 22:00 3475.052979 12.70258999 3591.176886 193.2176971
14 02 2018 22:10 3363.487061 11.69036007 3465.367399 189.8231049
14 02 2018 22:20 3405.912109 11.56672001 3437.873484 192.4506989
14 02 2018 22:30 3572.552979 12.48153973 3577.725969 199.4384003
14 02 2018 22:40 3593.725098 12.72109985 3591.972387 203.7796936
14 02 2018 22:50
                 3492.283936 12.26366043 3557.125281 195.0630035
                 3007.498047 10.86128998 3221.237369 193.2440948
14 02 2018 23:00
14 02 2018 23:10 2715.264893 9.996256828 2789.772404 193.3215942
14 02 2018 23:20
                 2476.560059 9.772350311 2642.235304 198.9611053
14 02 2018 23:30
                 2546.458008 10.08183002 2841.941006 205.6427002
                 2523.305908 10.29691982 2963.321686 208.7868042
14 02 2018 23:40
14 02 2018 23:50
                 1833.311035 8.635923386 1912.450559 206.9313965
15 02 2018 00:00
                 867.708374 6.629803181 857.7079365 210.2915955
15 02 2018 00:10
                 2310.064941 9.148320198 2240.012467 204.2962952
15 02 2018 00:20
                 3264.194092 11.58957958 3443.175628 201.3981934
15 02 2018 00:30 2507.798096 10.36233044 2997.574347 198.4790955
15 02 2018 00:40 2178.545898 9.454683304 2440.240204 197.350296
15 02 2018 00:50 1773.698975 8.834412575 2037.839858 195.6828003
```

```
15 02 2018 01:00 1147.676025 7.553510189 1285.625606 192.6472931
                 969.7047729 6.935134888 987.0541293 198.8796997
15 02 2018 01:10
15 02 2018 01:20
                 1101.998047 7.371815205 1192.560386 200.7041016
15 02 2018 01:30 1113.244995 7.391057968 1202.225118 205.0657043
15 02 2018 01:40 1468.095947 8.216507912 1656.311465 198.4701996
15 02 2018 01:50 2207.019043 9.80681324 2666.01371 191.4817963
15 02 2018 02:00 2151.822998 9.383358002 2393.465662 190.7711945
                 2600.212891 10.34340954 2987.790341 188.6428986
15 02 2018 02:10
15 02 2018 02:20
                 2959.283936 11.14797974 3322.224623 183.1083069
15 02 2018 02:30
                 3375.707031 11.80296993 3487.931274 182.8379974
15 02 2018 02:40 3405.514893 11.74682999 3476.972668 184.7232056
15 02 2018 02:50 3342.456055 11.68616962 3464.482684 184.6759033
15 02 2018 03:00 3061.289063 11.0526104 3290.702499 184.7015076
15 02 2018 03:10 3013.695068 11.0171299 3278.456549 189.2138062
                             10.70979977 3160.060781 188.1125031
15 02 2018 03:20 2742.5
15 02 2018 03:30 2513.969971 10.11655045 2862.466446 187.7465973
15 02 2018 03:40 2115.217041 9.364697456 2381.240275 188.2259064
15 02 2018 03:50 2255.60498 9.816329002 2672.509428 187.3592072
15 02 2018 04:00 2151.75708 9.648664474 2553.571895 185.1808929
15 02 2018 04:10 2192.98999 9.630620003 2540.194249 187.9604034
15 02 2018 04:20 2192.322998 9.494729996 2466.528295 187.6300964
15 02 2018 04:30 2056.781982 9.248011589 2304.942049 186.3959961
15 02 2018 04:40
                 1620.213989 8.481116295 1816.361669 186.8822937
15 02 2018 04:50
                 1088.041016 7.127140045 1074.264641 190.477005
15 02 2018 05:00 818.2918701 6.594637871 843.5096928 192.7169952
15 02 2018 05:10 917.9536743 6.959392071 997.8128334 192.1390076
15 02 2018 05:20 1023.364014 7.288458824 1151.31609 188.3899994
15 02 2018 05:30 1019.205994 7.402869225 1208.184446 181.6934967
15 02 2018 05:40 660.3364868 6.244342804 709.5680027 185.0014954
15 02 2018 05:50 577.3261719 5.75153923 544.3551105 203.8654938
15 02 2018 06:00 628.8759155 6.046186924 639.6800933 211.9221039
15 02 2018 06:10 211.2400055 4.498766899 221.7387398 205.7041931
15 02 2018 06:20 343.3323059 5.4398489
                                       451.861644 189.6161957
15 02 2018 06:30 700.2550049 6.7872262 923.0142094 172.8735046
15 02 2018 06:40 998.1641235 7.403409958 1208.457767 163.3264008
                 1360.646973 8.248066902 1675.091874 158.1398926
15 02 2018 06:50
                 1346.703979 8.132491112 1606.757089 155.1876068
15 02 2018 07:00
15 02 2018 07:10 967.9207153 7.007575035 1019.402449 152.4600983
15 02 2018 07:20 646.119812 6.219244003 700.4833545 156.3094025
15 02 2018 07:30 656.1094971 6.53063488 818.0262801 147.3881989
15 02 2018 07:40 475.3330078 5.876923084 584.2495849 140.8746033
15 02 2018 07:50 303.3843079 4.83914423 297.4437335 146.0178986
15 02 2018 08:00 289.5770874 4.804841042 289.4632156 150.4514008
15 02 2018 08:10 468.9356995 5.554007053 484.671005 160.1985931
15 02 2018 08:20 453.3935852 5.299191952 413.045649 165.4472961
15 02 2018 08:30
                 152.6107941 3.968468904 122.0255665 170.0350952
15 02 2018 08:40
                 175.9940033 4.16803503 154.8448847 186.1186066
                 167.2698059 4.16586113 154.4243269 190.8992004
15 02 2018 08:50
15 02 2018 09:00 47.79745865 3.353600979 37.3179235 202.3482971
15 02 2018 09:10
                 24.19724083 2.816464901 0
                                               184.9588928
15 02 2018 09:20 0
                       2.464189053 0
                                         188.7677002
15 02 2018 09:30 39.14524078 3.657510996 71.62600864 186.0001068
15 02 2018 09:40
                 14.53532982 2.826318979 0
                                               194.4916992
15 02 2018 09:50 0
                       2.423604965 0
                                         187.1674957
15 02 2018 10:00
                 16.34674072 3.680042028 74.75791774 157.5879974
15 02 2018 10:10
                 55.13547897 3.073899984 18.80169611 195.7528992
15 02 2018 10:20 0
                       1.841879964 0
                                         83.05211639
15 02 2018 10:30 0
                       3.316288948 34.12434223 114.8134995
15 02 2018 10:40 42.68334961 3.500709057 52.07945459 64.77271271
```

```
15 02 2018 10:50 189.3484039 4.317556858 184.3488423 69.33336639
15 02 2018 11:00 450.3942871 5.647596836 512.4780348 69.42302704
15 02 2018 11:10 419.8226013 5.483191013 464.1774677 67.40795898
15 02 2018 11:20 444.4610901 5.576274872 491.2117198 71.68546295
15 02 2018 11:30 392.5463867 5.354848862 428.1974728 70.99842072
15 02 2018 11:40 224.4676971 4.540878773 230.7028517 73.06786346
15 02 2018 11:50
                 252.4450073 4.70876503 267.5442313 75.36779785
                 266.5177917 4.852502823 300.574049 72.12651062
15 02 2018 12:00
15 02 2018 12:10
                 335.0664063 5.128513813 368.2101114 65.17832947
                 459.0184021 5.436481953 450.91203
15 02 2018 12:20
                                                     70.89240265
15 02 2018 12:30
                 485.8693848 5.638438225 509.7198901 71.83544922
15 02 2018 12:40 454.7800903 5.66001606 516.2310881 67.67030334
15 02 2018 12:50 518.960083 5.894161224 589.8608995 70.74256134
15 02 2018 13:00 786.3590698 6.753260136 908.6788561 69.97125244
15 02 2018 13:10 750.5568848 6.523900986 815.3718042 71.34726715
15 02 2018 13:20 739.2650757 6.470794201 794.6139668 71.07060242
15 02 2018 13:30 878.8007813 6.995461941 1013.94724 70.12148285
15 02 2018 13:40 828.0067139 6.833879948 942.9279518 68.27596283
15 02 2018 13:50 864.9160156 6.774096012 917.4564539 70.97402191
15 02 2018 14:00 1071.405029 7.294102192 1154.076945 71.50737762
15 02 2018 14:10 1193.271973 7.572912216 1295.736543 71.05451965
15 02 2018 14:20 1231.505005 7.616463184 1318.611497 69.96398926
15 02 2018 14:30
                 1234.327026 7.642580986 1332.447046 69.50267792
15 02 2018 14:40
                 1501.744995 8.153040886 1618.816819 71.7564621
15 02 2018 14:50
                 1628.135986 8.431361198 1785.839801 70.40196228
15 02 2018 15:00 1665.791992 8.454581261 1800.060908 72.44180298
15 02 2018 15:10 1638.709961 8.381747246 1755.592825 72.02528381
15 02 2018 15:20 1725.956055 8.430673599 1785.419305 72.39901733
15 02 2018 15:30 2027.553955 8.961294174 2119.069316 73.50222778
15 02 2018 15:40 1756.224976 8.48593235 1819.325786 71.50377655
15 02 2018 15:50 1881.756958 8.707442284 1957.369106 72.88343048
15 02 2018 16:00 2047.428955 9.026627541 2161.170638 74.44815063
15 02 2018 16:10 2063.455078 8.986699104 2135.419884 72.64795685
15 02 2018 16:20 2189.667969 9.166513443 2251.841078 73.05476379
15 02 2018 16:30 2106.518066 9.124004364 2224.218998 73.72064209
                 2045.81604 8.903903961 2082.23562 72.77850342
15 02 2018 16:40
15 02 2018 16:50
                 2034.343994 9.000098228 2144.054224 71.58753204
15 02 2018 17:00
                 2044.593994 9.042398453 2171.358705 70.27114868
15 02 2018 17:10 2192.61499 9.220381737 2286.91984 69.94003296
15 02 2018 17:20 2412.39502 9.55626297 2483.852274 70.24822235
15 02 2018 17:30 2165.514893 9.193206787 2269.213629 69.71330261
15 02 2018 17:40 2431.429932 9.691583633 2584.934323 71.37238312
15 02 2018 17:50 2457.468018 9.703450203 2593.493017 70.94790649
15 02 2018 18:00 2657.870117 10.12578011 2867.861232 72.18611908
15 02 2018 18:10 2436.366943 9.670084
                                       2569.303873 73.19803619
15 02 2018 18:20 2201.224121 9.209980011 2280.140124 74.48390198
15 02 2018 18:30 2299.493896 9.477258682 2455.057608 74.09835052
15 02 2018 18:40 2572.949951 10.37541008 3004.279306 72.9887619
15 02 2018 18:50 2591.590088 10.17733955 2897.527961 72.99835968
15 02 2018 19:00 2458.61792 9.830939293 2682.424309 69.0256424
15 02 2018 19:10
                 2175.587891 9.21665287 2284.489085 68.86746979
15 02 2018 19:20
                 2568.200928 10.05333042 2824.81805 69.64753723
15 02 2018 19:30
                 2368.191895 9.518468857 2454.454632 69.58573914
15 02 2018 19:40 2603.916016 9.886129379 2719.24351 72.11824036
15 02 2018 19:50
                 2596.113037 10.00189972 2793.282627 73.76605225
15 02 2018 20:00 2651.970947 10.08356953 2842.978066 72.16306305
15 02 2018 20:10 2811.63501 10.45880985 3045.920577 70.16902161
15 02 2018 20:20 3021.103027 10.87285042 3225.677571 69.43695068
15 02 2018 20:30 3146.461914 11.16114044 3326.417358 68.85619354
```

```
15 02 2018 20:40 2844.11792 10.6020298 3113.058105 70.01735687
                 2980.539063 11.01881981 3279.046281 73.46060181
15 02 2018 20:50
15 02 2018 21:00
                 2863.635986 10.71350002 3161.622407 73.39951324
15 02 2018 21:10
                 2949.141113 10.85007
                                         3216.897434 70.20319366
15 02 2018 21:20
                 2929.635986 10.81272984 3202.236364 70.80951691
15 02 2018 21:30
                 3206.052979 11.4828701 3417.557994 72.42398834
                 3182.625977 11.36201954 3385.827015 72.97543335
15 02 2018 21:40
                 2653.795898 10.23956013 2932.280945 71.0311203
15 02 2018 21:50
                 2622.955078 10.2341404 2929.298835 70.15442657
15 02 2018 22:00
15 02 2018 22:10
                 2688.150879 10.26988029 2948.807022 67.41493988
15 02 2018 22:20
                 2894.821045 10.73404026 3170.228905 66.37486267
15 02 2018 22:30 3006.903076 10.69752979 3154.857911 66.85292053
15 02 2018 22:40 3176.39502 11.21004009 3341.667088 65.93389893
15 02 2018 22:50 3148.115967 11.01780987 3278.693918 63.82545853
15 02 2018 23:00 3026.5
                             10.70207024 3156.78761 65.36813354
15 02 2018 23:10 3247.74292 11.3439703 3380.834073 70.00302887
15 02 2018 23:20 3156.389893 10.96805
                                         3261.04445 65.70848083
15 02 2018 23:30 3120.169922 10.93735027 3249.870968 67.16259766
15 02 2018 23:40 2970.649902 10.64914989 3133.973142 69.01920319
15 02 2018 23:50 2907.582031 10.57672977 3101.591513 69.35951233
16 02 2018 00:00 2629.126953 9.911678314 2735.951919 69.7568512
16 02 2018 00:10 2885.208008 10.45744038 3045.252165 71.37638855
16 02 2018 00:20
                 2977.064941 10.57938004 3102.80049 69.43557739
16 02 2018 00:30
                 2898.153076 10.43268013 3033.079274 66.89341736
16 02 2018 00:40 2897.822998 10.46498966 3048.930489 68.7040863
16 02 2018 00:50 2844.344971 10.44884014 3041.042939 69.38651276
16 02 2018 01:00 2731.208008 9.957091331 2765.132697 67.64823151
16 02 2018 01:10 2567.952881 9.805234909 2664.933385 68.52770233
16 02 2018 01:20 2670.316895 9.999443054 2791.755658 70.09555817
16 02 2018 01:30 2441.208008 9.464039803 2446.380732 65.81585693
16 02 2018 01:40 2564.592041 9.621835709 2533.640407 64.60932922
16 02 2018 01:50 2552.125
                           9.860876083 2702.520025 64.83000183
16 02 2018 02:00 2868.999023 10.39708042 3015.283365 63.12665939
16 02 2018 02:10 2920.378906 10.39237022 3012.90263 61.12290955
16 02 2018 02:20 2764.431885 10.09350967 2848.886492 63.07762909
16 02 2018 02:30
                 2815.147949 10.29938984 2964.63715 64.19930267
16 02 2018 02:40
                 2880.728027 10.29442024 2961.988706 61.73952103
16 02 2018 02:50
                 2408.47998 9.308941841 2344.748399 58.08378983
16 02 2018 03:00 2681.278076 9.929501534 2747.483207 60.37736893
16 02 2018 03:10 2965.324951 10.73948956 3172.494576 60.86597061
16 02 2018 03:20 2859.865967 10.41633034 3024.94944 60.62347031
16 02 2018 03:30 2530.351074 9.781367302 2648.495214 60.06130981
16 02 2018 03:40 2614.558105 9.914726257 2737.931123 60.65177155
16 02 2018 03:50 2522.329102 9.594311714 2512.928492 59.0226593
16 02 2018 04:00
                 2296.176025 9.189897537 2267.05881 58.18635941
16 02 2018 04:10
                 2538.110107 9.855828285 2699.15223 59.85697937
                 2488.856934 9.505111694 2443.940816 58.07030869
16 02 2018 04:20
16 02 2018 04:30 2366.878906 9.464080811 2446.407647 56.69498062
16 02 2018 04:40 2655.594971 9.890534401 2722.139375 59.31019974
16 02 2018 04:50
                 2936.447021 10.67780018 3146.412516 59.21395874
16 02 2018 05:00
                 2864.462891 10.55352974 3090.929816 62.31719971
16 02 2018 05:10 2904.1521
                             10.57308006 3099.923611 60.56325912
16 02 2018 05:20
                 2572.444092 9.699071884 2590.340829 56.1927681
16 02 2018 05:30 2625.37207 9.766812325 2638.377075 56.94118118
16 02 2018 05:40 2709.186035 10.09171009 2847.819051 56.0130806
16 02 2018 05:50 2531.406006 9.500905991 2440.616887 53.28041077
16 02 2018 06:00 2741.805908 10.17125988 2894.071013 56.27217865
16 02 2018 06:10 2811.330078 10.2635603 2945.384206 54.93468857
16 02 2018 06:20 2447.688965 9.48878479 2462.624703 54.65404129
```

```
16 02 2018 06:30 2667.231934 9.845365524 2692.145042 53.63195038
16 02 2018 06:40 2372.300049 9.257285118 2310.995118 52.41765976
16 02 2018 06:50
                 2568.694092 9.779727936 2647.359141 50.58758926
16 02 2018 07:00 2130.072021 8.948708534 2110.97931 49.67811966
16 02 2018 07:10 1679.61499 8.073453903 1572.337167 51.62517929
16 02 2018 07:20
                 1787.909058 8.277176857 1692.492752 52.44654083
16 02 2018 07:30
                 1600.162964 7.885765076 1465.273391 53.75268173
                 2457.321045 9.550278664 2479.231885 54.35501099
16 02 2018 07:40
16 02 2018 07:50 2230.804932 9.242671013 2301.457057 53.8380394
16 02 2018 08:00
                 2124.906006 8.919348717 2092.133795 51.57427979
16 02 2018 08:10
                 1738.587036 8.274827957 1691.085933 53.20716095
16 02 2018 08:20 1150.661987 7.216261864 1116.390401 55.57081985
16 02 2018 08:30 1394.753052 7.632159233 1326.915823 57.17391968
16 02 2018 08:40 1419.619995 7.693449974 1359.641601 53.06111908
16 02 2018 08:50 1358.766968 7.599473953 1309.658682 50.30099106
16 02 2018 09:00 1298.397949 7.405731201 1209.631563 50.40126038
16 02 2018 09:10
                 1464.042969 7.785676003 1409.755513 53.82976151
16 02 2018 09:20 1314.432007 7.456188202 1235.345953 49.336689
16 02 2018 09:30 1131.987061 7.086803913 1055.548117 46.45418167
16 02 2018 09:40 1100.56897 7.061056137 1043.712448 44.56299973
16 02 2018 09:50
                 1134.262939 7.171652794 1095.170453 39.91641998
                 1051.912964 6.956935883 996.7201052 42.47489166
16 02 2018 10:00
16 02 2018 10:10
                 1502.078003 7.771091938 1401.762866 48.78799057
16 02 2018 10:20
                 1615.360962 8.187802315 1639.306999 50.19168091
16 02 2018 10:30 1314.004028 7.445176125 1229.701134 50.72288895
16 02 2018 10:40 1458.881958 7.7264328 1377.44569 49.57902145
16 02 2018 10:50 1638.229004 7.95093298 1502.024425 49.71352005
16 02 2018 11:00 1627.03894 8.039245605 1552.550543 51.53831863
16 02 2018 11:10 1624.269043 8.047497749 1557.312942 51.35332108
16 02 2018 11:20
                 1836.261963 8.319598198 1717.981144 53.14326096
16 02 2018 11:30
                 1959.734009 8.52145195 1841.238638 55.83966064
16 02 2018 11:40
                 1784.567017 8.167578697 1627.372461 56.30131912
16 02 2018 11:50
                 1979.192993 8.578838348 1876.828655 55.81492996
16 02 2018 12:00 2025.300049 8.664670944 1930.468304 56.74087906
16 02 2018 12:10 1788.839966 8.240656853 1670.674276 56.73575974
16 02 2018 12:20
                 2162.98291 8.963339806 2120.38488 59.37977982
16 02 2018 12:30
                 2399.125977 9.39136982 2398.716252 56.84790039
                 1945.781982 8.503651619 1830.24589 54.74293137
16 02 2018 12:40
16 02 2018 12:50 1751.765015 8.092956543 1583.669976 52.41973114
16 02 2018 13:00
                 1877.593994 8.411986351 1774.005182 56.73777008
16 02 2018 13:10
                 1957.944946 8.606882095 1894.30184 57.11914825
16 02 2018 13:20 2163.919922 8.847234726 2046.013763 58.70151901
16 02 2018 13:30 2481.503906 9.580330849 2502.304736 57.5751915
16 02 2018 13:40
                 2417.405029 9.520338058 2455.920746 59.94892883
16 02 2018 13:50
                 2266.666016 9.099529266 2208.341233 55.11016083
                 1669.175049 7.991817951 1525.314653 53.66955948
16 02 2018 14:00
16 02 2018 14:10
                 2001.848022 8.620434761 1902.764538 55.88764191
                 1942.430054 8.338306427 1729.269838 52.58150864
16 02 2018 14:20
16 02 2018 14:30
                 1868.468994 8.239600182 1670.044723 52.19433975
16 02 2018 14:40
                 2021.38501 8.580166817 1877.655205 54.13605118
16 02 2018 14:50
                 1964.719971 8.484895706 1818.687624 54.60248947
16 02 2018 15:00
                 2052.657959 8.668967247 1933.165443 50.19667816
16 02 2018 15:10
                 2127.077881 8.750067711 1984.285026 50.62879181
16 02 2018 15:20
                 2265.416016 9.047103882 2174.400237 51.97771072
16 02 2018 15:30
                 2250.250977 9.032006264 2164.644255 53.3752594
16 02 2018 15:40 2243.045898 8.902774811 2081.512404 53.62889862
16 02 2018 15:50 2243.592041 9.015042305 2153.692589 52.77706909
16 02 2018 16:00 2223.710938 8.991481781 2138.500987 52.49755859
16 02 2018 16:10 2215.587891 8.9463377 2109.45611 52.30495071
```

```
16 02 2018 16:20 2278.36499 9.047112465 2174.405785 54.15032959
                 2038.709961 8.62898159 1908.107521 51.04515076
16 02 2018 16:30
16 02 2018 16:40
                 1954.780029 8.435816765 1788.56544 48.66970062
16 02 2018 16:50
                 1932.833008 8.57733345 1875.892476 50.41180038
16 02 2018 17:00
                 2195.291016 8.926837921 2096.93734 52.90353012
16 02 2018 17:10
                 2093.604004 8.821464539 2029.594145 50.47877884
                 1797.348999 8.028989792 1546.641442 47.17480087
16 02 2018 17:20
                 2016.239014 8.388754845 1759.853285 46.30860901
16 02 2018 17:30
                 2143.375977 8.70016861 1952.786649 45.56315994
16 02 2018 17:40
16 02 2018 17:50
                 2228.574951 9.157809258 2246.180686 46.0631485
16 02 2018 18:00
                 1679.432007 7.907055855 1477.229063 44.42842102
16 02 2018 18:10
                 1869.082031 8.423289299 1780.90578 49.30855179
16 02 2018 18:20
                 1643.371948 8.087156296 1580.295586 49.34487152
16 02 2018 18:30
                 1714.550049 8.09264183 1583.486802 51.21907043
16 02 2018 18:40
                 1878.119995 8.377081871 1752.758549 55.23855972
16 02 2018 18:50 2121.104004 8.890886307 2073.901457 58.77960968
16 02 2018 19:00
                 1851.697021 8.355164528 1739.466849 57.83102036
16 02 2018 19:10
                 1900.845947 8.446876526 1795.337633 55.78065109
16 02 2018 19:20
                 1388.857056 7.51236105 1264.347386 51.85298157
                 1592.125977 7.908473015 1478.026634 53.80580902
16 02 2018 19:30
                 1648.819946 8.036932945 1551.217121 54.47864914
16 02 2018 19:40
                 2115.095947 8.830026627 2035.045792 57.56039047
16 02 2018 19:50
16 02 2018 20:00
                 2066.948975 8.71218586 1960.359262 54.28023911
                 1478.155029 7.65926981 1341.333114 50.97906876
16 02 2018 20:10
16 02 2018 20:20
                 1925.529053 8.468940735 1808.875617 55.18743896
16 02 2018 20:30 1743.61499 8.227728844 1662.978737 54.02276993
16 02 2018 20:40 1869.859009 8.438083649 1789.952759 54.50320053
16 02 2018 20:50 1888.817993 8.336091042 1727.931544 60.41270065
16 02 2018 21:00 1770.207031 8.206329346 1650.273363 61.81444931
                 1306.817017 7.389978886 1201.681701 61.49110031
16 02 2018 21:10
16 02 2018 21:20
                 1223.509033 7.288580894 1151.375761 61.6196785
16 02 2018 21:30
                 1425.467041 7.579108238 1298.975901 58.90995026
16 02 2018 21:40
                 1236.536987 7.266918182 1140.819347 53.76152039
16 02 2018 21:50
                 1140.134033 7.055401802 1041.124828 52.39588165
16 02 2018 22:00 1185.733032 7.17830801 1098.319055 53.1583519
16 02 2018 22:10
                 1283.133057 7.393342018 1203.375915 52.66400909
16 02 2018 22:20
                 1481.557983 7.735658169 1382.449288 53.59127045
16 02 2018 22:30
                 1358.387939 7.449502945 1231.916879 48.56455994
16 02 2018 22:40 1058.672974 6.927730083 983.7844946 45.97179031
16 02 2018 22:50
                 1034.339966 6.962223053 999.0732403 44.28020096
16 02 2018 23:00 1279.982056 7.35471487 1184.01729 44.4011116
16 02 2018 23:10 1214.465942 7.22947216 1122.726716 47.61544037
16 02 2018 23:20
                 1077.91394 6.899096966 971.2051771 48.24285126
16 02 2018 23:30
                 1444.295044 7.6908741 1358.256779 51.85816956
16 02 2018 23:40
                 1499.296997 7.654619217 1338.853342 50.72589111
16 02 2018 23:50
                 1650.750977 8.068016052 1569.183993 53.03993988
17 02 2018 00:00
                 1442.337036 7.656847
                                         1340.040893 55.32683945
                 1665.593018 8.033647537 1549.323772 57.073349
17 02 2018 00:10
17 02 2018 00:20
                 1758.973999 8.205435753 1649.743717 55.2678299
17 02 2018 00:30
                 1633.697998 8.000391006 1530.220622 53.45923996
17 02 2018 00:40
                 1811.073975 8.408177376 1771.681982 54.54891968
17 02 2018 00:50
                 1908.071045 8.528288841 1845.466788 56.1497612
17 02 2018 01:00
                 1361.19104 7.528533936 1272.683324 52.86907959
17 02 2018 01:10
                 1520.590942 7.790774822 1412.555787 53.3260498
17 02 2018 01:20
                 1607.18103 7.93563509 1493.355751 54.61574173
17 02 2018 01:30
                 1486.19397 7.75824213 1394.741567 52.36680984
17 02 2018 01:40 1466.959961 7.596921921 1308.317063 49.30487823
17 02 2018 01:50 1217.18103 7.331981182 1172.725734 46.7869606
17 02 2018 02:00 895.8895874 6.617256165 852.6258712 44.81280899
```

```
17 02 2018 02:10 899.0869751 6.587689877 840.7209733 41.00217056
                 987.4816284 6.801417828 929.0442721 40.36894989
17 02 2018 02:20
17 02 2018 02:30
                 1260.786987 7.284079075 1149.176534 37.02833176
17 02 2018 02:40
                 1215.103027 7.156589985 1088.066296 39.53866959
17 02 2018 02:50
                 1185.115967 7.237380028 1126.531268 51.24795914
17 02 2018 03:00
                 1647.359009 8.038455009 1552.094644 52.14151001
17 02 2018 03:10
                 1179.155029 7.206865788 1111.898201 47.45355988
                 1036.089966 6.859345913 953.9081706 39.71173096
17 02 2018 03:20
17 02 2018 03:30
                 1025.144043 6.959218979 997.7358022 43.27124023
                 944.5015869 6.700854778 886.8269489 45.0021019
17 02 2018 03:40
17 02 2018 03:50
                 1198.506958 7.12406683 1072.831053 40.27925873
17 02 2018 04:00
                 1314.155029 7.244551182 1129.988884 33.29766083
17 02 2018 04:10
                 1140.369995 7.03903389 1033.657615 39.56940079
17 02 2018 04:20
                 1453.642944 7.606112957 1313.152801 39.97946167
17 02 2018 04:30
                 1325.295044 7.409863949 1211.723379 47.25201035
17 02 2018 04:40
                 1674.343018 8.117049217 1597.721456 48.62236023
17 02 2018 04:50
                 1610.980957 7.905900002 1476.578717 45.07825851
17 02 2018 05:00
                 1763.034058 8.084728241 1578.884008 34.71474075
                 1887.715942 8.2877388 1698.824455 35.70877838
17 02 2018 05:10
                 1936.843994 8.184361458 1637.27378 31.54631042
17 02 2018 05:20
17 02 2018 05:30
                 2575.62207 9.455537796 2440.800955 28.24436951
17 02 2018 05:40
                 2708.701904 9.738460541 2618.462413 29.84676933
17 02 2018 05:50
                 2810.193115 10.2414999 2933.346195 28.35025024
17 02 2018 06:00
                 2659.967041 9.960987091 2767.60532 27.92988014
17 02 2018 06:10
                 2355.737061 9.435853958 2427.885736 33.8144989
17 02 2018 06:20
                 2581.312012 9.791126251 2655.23946 32.36471939
17 02 2018 06:30 2789.825928 10.29634953 2963.017714 30.37265015
17 02 2018 06:40 2680.525879 9.875400543 2712.163966 36.48033142
17 02 2018 06:50 2584.344971 9.951645851 2761.66839 35.62347031
                 2888.711914 10.39836979 3015.933997 33.99362946
17 02 2018 07:00
17 02 2018 07:10 3119.417969 11.13560009 3318.246208 35.74029922
17 02 2018 07:20 3223.795898 11.5169096 3425.970665 36.65420914
17 02 2018 07:30 2809.915039 10.13300037 2872.063622 36.18989182
17 02 2018 07:40 2503.146973 9.543654442 2474.102363 35.10456848
17 02 2018 07:50 2325.266113 9.416926384 2415.471145 37.69231033
17 02 2018 08:00
                 2149.833984 8.895158768 2076.635901 41.95726013
17 02 2018 08:10
                 1786.255981 8.152224541 1618.336981 36.54887009
17 02 2018 08:20
                 1664.817017 7.997961044 1528.829288 40.51332092
17 02 2018 08:30
                 1613.031006 8.006237984 1533.570966 41.39535904
17 02 2018 08:40
                 1910.963013 8.389183998 1760.114327 39.5261116
17 02 2018 08:50 2111.944092 8.689944267 1946.350554 36.29716873
17 02 2018 09:00 2283.874023 9.284925461 2329.048484 34.87187958
17 02 2018 09:10 2186.156982 9.061556816 2183.747529 38.65031815
17 02 2018 09:20
                 1910.581055 8.479647636 1815.458097 37.45149994
17 02 2018 09:30
                 1804.120972 8.31661129 1716.181516 34.96604919
17 02 2018 09:40
                 1865.655029 8.399850845 1766.607339 35.63682175
17 02 2018 09:50
                 2242.172119 9.29428196 2335.163542 36.5750618
17 02 2018 10:00
                 2309.289063 9.410437584 2411.216219 38.60417175
17 02 2018 10:10
                 2258.351074 9.272790909 2321.12064 34.88925934
17 02 2018 10:20
                 2022.542969 8.686337471 1944.08161
                                                     34.46691895
                 2212.60498 8.956354141 2115.89307
17 02 2018 10:30
                                                     35.08618164
17 02 2018 10:40
                 2520.010986 9.836689949 2686.307465 36.16392899
17 02 2018 10:50
                 2206.586914 8.844734192 2044.419068 38.44900131
17 02 2018 11:00
                 2024.333984 8.362282753 1743.779425 35.73215866
17 02 2018 11:10
                 1804.712036 8.253628731 1678.410812 37.88417053
17 02 2018 11:20
                 1764.464966 8.179471016 1634.385873 35.14422989
17 02 2018 11:30
                 2192.318115 9.077233315 2193.89466 35.21268845
17 02 2018 11:40 1682.182983 8.031182289 1547.903794 35.21778107
17 02 2018 11:50 2020.358032 8.645409584 1918.390395 36.94929886
```

```
17 02 2018 12:00 1860.640991 8.489089966 1821.270109 35.3373909
17 02 2018 12:10
                 1727.849976 8.244317055 1672.855747 39.17926025
17 02 2018 12:20
                 1291.621948 7.422104836 1217.934134 40.09717178
17 02 2018 12:30 1156.092041 7.168757915 1093.802748 40.15196991
17 02 2018 12:40 1193.862061 7.240125179 1127.854016 48.68917847
17 02 2018 12:50
                 1367.921997 7.694252968 1360.073469 53.66139984
17 02 2018 13:00
                 1771.240967 8.290145874 1700.268793 57.06528091
                 1752.328979 8.281457901 1695.058009 52.89025116
17 02 2018 13:10
17 02 2018 13:20
                 1196.042969 7.206285
                                       1111.620928 49.50690079
                 1070.090942 6.967750072 1001.536871 46.1391716
17 02 2018 13:30
17 02 2018 13:40
                 1051.137939 6.872713089 959.703168 45.69197083
17 02 2018 13:50
                 1092.08606 6.969668865 1002.393056 43.90935135
17 02 2018 14:00 1216.047974 7.22935915 1122.672409 38.52637863
17 02 2018 14:10 1332.560059 7.494137764 1254.940831 36.48257065
17 02 2018 14:20 1343.774048 7.569502831 1293.956224 38.55356979
17 02 2018 14:30 1073.432007 6.902130127 972.5329442 36.85515976
17 02 2018 14:40 1495.692017 7.830495834 1434.474415 36.32656097
17 02 2018 14:50 1517.265015 7.932155132 1491.387329 35.65465164
17 02 2018 15:00 1848.209961 8.50909996 1833.608162 35.58132935
                 1780.922974 8.358901978 1741.730671 35.34320068
17 02 2018 15:10
17 02 2018 15:20
                 1772.656006 8.263838768 1684.510556 34.79676819
17 02 2018 15:30 2029.840942 8.848360062 2046.731538 33.98410034
17 02 2018 15:40
                 2279.735107 9.28768158 2330.849585 34.82955933
17 02 2018 15:50
                 2424.435059 9.67886734 2575.7088
                                                     34.56492996
17 02 2018 16:00 2008.904053 8.853192329 2049.814428 37.26519012
17 02 2018 16:10 1948.447021 8.698967934 1952.030516 37.02449036
17 02 2018 16:20 1645.239014 7.933864117 1492.353845 40.76171112
17 02 2018 16:30 1729.130981 8.058034897 1563.404031 39.26416016
17 02 2018 16:40 1306.098999 7.399215221 1206.338622 47.42694092
17 02 2018 16:50
                 1716.563965 8.073467255 1572.344912 49.24763107
17 02 2018 17:00 1636.121948 7.87802887 1460.941651 47.97990036
17 02 2018 17:10 1328.156982 7.26556778 1140.163473 48.35097885
17 02 2018 17:20 1863.848999 8.331858635 1725.375913 49.76951981
17 02 2018 17:30 1452.844971 7.684863091 1355.028383 52.08224106
17 02 2018 17:40 1701.749023 7.801342964 1418.369522 51.26895905
                 1302.702026 7.134861946 1077.872286 41.92898941
17 02 2018 17:50
17 02 2018 18:00
                 1291.814941 7.401097775 1207.289348 48.06118011
                 1484.771973 7.459177017 1236.881206 52.05540848
17 02 2018 18:10
17 02 2018 18:20 1005.432007 6.607471943 848.6752745 46.41304016
                 1069.722046 6.82130003 937.5326793 49.70172119
17 02 2018 18:30
17 02 2018 18:40 747.675415 6.198608875 693.0649835 49.07641983
17 02 2018 18:50 1175.185059 6.943074226 990.5673595 50.76805115
17 02 2018 19:00
                 1134.936035 6.936597824 987.7009029 54.1420517
17 02 2018 19:10 925.008728 6.485970974 800.5141952 53.23223114
17 02 2018 19:20
                 1163.993042 7.047509193 1037.519818 53.66675949
17 02 2018 19:30
                 1374.697021 7.39859581 1206.025921 59.84738159
                 1601.98999 7.757586002 1394.383578 62.2244606
17 02 2018 19:40
                 1666.029053 7.817664146 1427.373698 60.53462982
17 02 2018 19:50
                 1256.506958 7.041659832 1034.853269 60.85116959
17 02 2018 20:00
17 02 2018 20:10
                 1229.942993 7.101277828 1062.239529 65.75862885
17 02 2018 20:20
                 1221.973999 7.035810947 1032.191347 66.14832306
17 02 2018 20:30
                 1040.811035 6.787947178 923.3199776 67.07839203
17 02 2018 20:40
                 827.9390259 6.352533817 749.5049624 68.34145355
17 02 2018 20:50
                 530.3724976 5.501458168 469.4194658 68.81846619
17 02 2018 21:00
                 680.5194702 6.023961067 632.1030406 68.66226196
17 02 2018 21:10 521.0640259 5.600709915 498.4429143 70.87863922
17 02 2018 21:20 347.6221008 4.954410076 324.8781463 71.82533264
17 02 2018 21:30 159.0794067 3.979049921 124.0126973 74.38732147
17 02 2018 21:40 155.3674011 4.139510155 149.3449625 84.31130981
```

```
17 02 2018 21:50 59.77172089 3.68722105 75.77289536 110.7969971
                 130.9951935 4.303857803 181.5969478 116.0588989
17 02 2018 22:00
                  94.66235352 3.892987967 108.3698156 89.8217392
17 02 2018 22:10
17 02 2018 22:20
                 18.71573067 3.164448977 23.42584452 94.98522186
17 02 2018 22:30
                  27.19998932 3.134157896 21.73291996 86.1485672
17 02 2018 22:40
                  15.2342701 3.316582918 34.14863291 81.07227325
17 02 2018 22:50
                 -0.581198812
                                    2.918972969 0
                                                      99.6946106
                        3.243311882 28.52203398 109.3883972
17 02 2018 23:00
                 0
17 02 2018 23:10
                  0
                        3.232796907 27.78505305 88.04192352
17 02 2018 23:20
                  26.70228958 3.866552114 103.802673 82.81289673
17 02 2018 23:30
                  32.33694839 3.642323971 69.56077374 79.16188812
17 02 2018 23:40
                  -0.888135374
                                    3.597723961 63.70908142 90.62991333
17 02 2018 23:50
                        2.941483974 0
                                          91.09108734
18 02 2018 00:00
                  15.67199039 3.72637105 81.45306576 84.10144806
18 02 2018 00:10
                  2.616255999 2.63457489 0
                                                88.4969635
18 02 2018 00:20
                        3.153237104 22.78211615 86.67971802
18 02 2018 00:30
                 0
                        3,230622053 27,63482821 88,63262177
18 02 2018 00:40 0
                        3.193557978 25.19103054 92.89427948
                        2.902870893 0
18 02 2018 00:50 0
                                          81.00817108
18 02 2018 01:00 0
                        3.541563034 56.79325868 85.30349731
18 02 2018 01:10
                        3.200357914 25.62291674 92.30726624
                 0
18 02 2018 01:20
                        2.976888895 0
                  0
                                          89.52410889
18 02 2018 01:30
                  0
                        3.087384939 19.40720826 105.0048981
18 02 2018 01:40
                  3.060461044 3.569425106 60.16119951 91.30673218
18 02 2018 01:50
                 0
                        3.191606045 25.06842354 106.6962967
18 02 2018 02:00
                        2.475771904 0
                                          108.2879028
18 02 2018 02:10 0
                        2.858917952 0
                                          103.3643036
18 02 2018 02:20
                        3.616122961 66.084535
                                                115.7074966
                 0
18 02 2018 02:30
                 0
                        2.505080938 0
                                          112.3302002
                        3.361311913 38.00568505 129.5876007
18 02 2018 02:40
                 0
18 02 2018 02:50
                 28.8137207 3.769241095 87.95426396 141.1710968
18 02 2018 03:00
                  39.53414917 4.013009071 125.4190772 147.8341064
18 02 2018 03:10
                  52.29632187 3.685683012 75.55475182 143.4116974
18 02 2018 03:20
                  81.48445129 3.710922003 79.18231161 151.0200958
18 02 2018 03:30
                  59.13835144 3.572036982 60.48328807 175.6515045
18 02 2018 03:40
                  0.744800091 2.276688099 0
                                                174.3511047
18 02 2018 03:50
                  0
                        1.481564045 0
                                          149.2606049
18 02 2018 04:00
                  0
                        1.747794986 0
                                          125.4436035
18 02 2018 04:10
                        1.267235041 0
                                          117.6160965
18 02 2018 04:20
                        1.087983966 0
                                          138,7404022
18 02 2018 04:30
                        1.623249054 0
                                          175.2333984
                  0
18 02 2018 04:40
                                          169.2115936
                  0
                        2.050889969 0
18 02 2018 04:50
                        2.031508923 0
                                          154.6903076
                  0
18 02 2018 05:00
                  0
                        2.0496521
                                          169.886795
                                    0
18 02 2018 05:10
                  0
                        2.071708918 0
                                          176.1074982
18 02 2018 05:20
                  0
                        1.475044012 0
                                          160.1143951
18 02 2018 05:30
                  0
                        1.344939947 0
                                          142.2563934
18 02 2018 05:40
                                          134.1891937
                  0
                        1.199478984 0
18 02 2018 05:50
                  0
                        1.090986013 0
                                          117.254097
18 02 2018 06:00
                  0
                        1.019546986 0
                                          121.1072006
18 02 2018 06:10
                        0.642524481 0
                                          134.1542969
18 02 2018 06:20
                        0.543037176 0
                                          125.6572037
18 02 2018 06:30
                        0.606082916 0
                                          157.2245026
18 02 2018 06:40
                        0.995433927 0
                                          131.6846008
18 02 2018 06:50
                        0.505522311 0
                                          158.6934967
                  0
18 02 2018 07:00
                  0
                        0.970892012 0
                                          131.6790009
18 02 2018 07:10
                  0
                        0.745950222 0
                                          138.1045074
18 02 2018 07:20
                                          128.2984009
                  0
                        0.982766271 0
18 02 2018 07:30 0
                        0.72998929 0
                                          213.7709045
```

```
18 02 2018 07:40
                         0.794884086 0
                                           310.0042114
                  0
18 02 2018 07:50
                   0
                         0.690787613 0
                                           295.6437073
18 02 2018 08:00
                         0.711883008 0
                                           301.9563904
                  0
18 02 2018 08:10
                  0
                         0.742377102 0
                                           86.31342316
18 02 2018 08:20
                  0
                         0.682018876 0
                                           49.07852173
18 02 2018 08:30
                         1.061666965 0
                                           21.38085938
18 02 2018 08:40
                  0
                         1.369232059 0
                                           86.60494232
                         3.036254883 17.26530957 117.9016037
18 02 2018 08:50
                  0
18 02 2018 09:00
                   0
                         3.499469995 51.94066197 110.1836014
18 02 2018 09:10
                  2.951527119 3.020788908 16.69981935 131.6634064
18 02 2018 09:20
                   1.052459955 2.875699043 0
                                                  135.6246033
                   -0.435533613
18 02 2018 09:30
                                     2.922843933 0
                                                        137.3059998
18 02 2018 09:40
                         3.108824015 20.42978176 108.7505035
18 02 2018 09:50
                   0
                         2.700968027 0
                                           95.06286621
18 02 2018 10:00
                         3.071782112 18.70924132 136.2666931
                   0
18 02 2018 10:10
                   0
                         2.950114012 0
                                           154.9709015
18 02 2018 10:20
                  0
                         2.571166992 0
                                           150.5847015
18 02 2018 10:30
                  0
                         2.479401112 0
                                           144.0283966
18 02 2018 10:40
                  0
                         1.921849966 0
                                           169.4683075
18 02 2018 10:50
                  0
                         0.960486829 0
                                           168.8173981
18 02 2018 11:00
                         0.985467374 0
                                           138.4476929
                  0
18 02 2018 11:10
                  0
                         1.47873199 0
                                           143.4302063
18 02 2018 11:20
                         2.237865925 0
                                           148.5063934
                                           139.6217041
18 02 2018 11:30
                  0
                         2.748568058 0
18 02 2018 11:40
                         3.145431042 22.34580837 149.2106018
18 02 2018 11:50
                         2.669008017 0
                                           151.8112946
18 02 2018 12:00
                         2.001436949 0
                                           181.2855988
18 02 2018 12:10
                         2.699987888 0
                                           188.3531036
                   0
18 02 2018 12:20
                   0
                         2.02466011
                                     0
                                           211.0919952
18 02 2018 12:30
                  0
                         2.93094492
                                     0
                                           212.6987
18 02 2018 12:40
                  0
                         2.99702692
                                     0
                                           190.7292938
18 02 2018 12:50
                   0
                         2.192794085 0
                                           203.6876068
18 02 2018 13:00
                         2.451589108 0
                                           219.7823029
                         2.445245028 0
                                           207.4862976
18 02 2018 13:10
                   0
18 02 2018 13:20
                         2.529182911 0
                                           211.5850983
                   0
18 02 2018 13:30
                   0
                         2.269835949 0
                                           210.6820984
18 02 2018 13:40
                   0
                         2.076705933 0
                                           205.2693024
18 02 2018 13:50
                   0
                         1.332872033 0
                                           192.9104004
18 02 2018 14:00
                         1.033892989 0
                                           176.7458954
18 02 2018 14:10
                         1.409631014 0
                                           149,6206055
18 02 2018 14:20
                         0.472165197 0
                                           333.6116028
                  0
18 02 2018 14:30
                   0
                         0.581870019 0
                                           194.9320068
18 02 2018 14:40
                                           168.6089935
                   0
                         0.748483121 0
18 02 2018 14:50
                  0
                         0.70794481 0
                                           249.2660065
18 02 2018 15:00
                   0
                         0.241920099 0
                                           316.9996948
18 02 2018 15:10
                         0.37973401
                                           31.31051064
18 02 2018 15:20
                   0
                         0.852680326 0
                                           115.4729004
18 02 2018 15:30
                                           126.6598969
                   0
                         1.252480984 0
18 02 2018 15:40
                   0
                         1.167199016 0
                                           107.6785965
18 02 2018 15:50
                   0
                         0.982226372 0
                                           99.96143341
18 02 2018 16:00
                   0
                         1.457504988 0
                                           75.32436371
18 02 2018 16:10
                         1.670673013 0
                                           121.5047989
18 02 2018 16:20
                         2.119918108 0
                                           134.1510925
18 02 2018 16:30
                         1.033679962 0
                                           109.4654007
                  0
18 02 2018 16:40
                         0.64514643
                                           113.072403
                  0
                                     0
18 02 2018 16:50
                  0
                         0.529358089 0
                                           70.47280121
18 02 2018 17:00
                  0
                         0.64291513 0
                                           92.80828857
18 02 2018 17:10
                  0
                                           100.2658005
                         0.393620193 0
18 02 2018 17:20
                        0.377335608 0
                                           150.452301
```

```
18 02 2018 17:30 0
                       0.609950423 0
                                         153,2102966
18 02 2018 17:40 0
                       1.064355969 0
                                         134.1156006
18 02 2018 17:50
                                         117.1874008
                 0
                       1.222921968 0
18 02 2018 18:00 0
                       1.580327988 0
                                         94.77308655
18 02 2018 18:10 0
                       2.03729701 0
                                         83.43476868
18 02 2018 18:20
                 0
                       2.228810072 0
                                         77.98922729
18 02 2018 18:30 0
                       1.847314954 0
                                         94.57431793
18 02 2018 18:40
                 0
                       2.351526976 0
                                         75.92971039
18 02 2018 18:50
                 0
                       1.864092946 0
                                         87.51967621
18 02 2018 19:00 0
                       2.035682917 0
                                         83.25701904
18 02 2018 19:10 0
                       3.204180956 25.86897961 71.89499664
18 02 2018 19:20 0
                       2.297384024 0
                                         70.81590271
18 02 2018 19:30 0
                       2.751547098 0
                                         56.90213013
18 02 2018 19:40 0
                       2.865911961 0
                                         63.58813858
18 02 2018 19:50 0
                       3.368477106 38.65329761 79.84702301
18 02 2018 20:00 28.13643074 3.594055891 63.24198065 76.84400177
18 02 2018 20:10
                 53.222229 3.79536891 92.06074133 76.2873764
18 02 2018 20:20
                 45.56380081 3.46777606 48.47398932 76.58824158
                 78.01780701 3.86800909 104.0514734 75.62970734
18 02 2018 20:30
                 20.20698929 2.658286095 0
18 02 2018 20:40
                                               87.59552765
18 02 2018 20:50 8.855195045 2.402620077 0
                                               88.66285706
18 02 2018 21:00 0
                                         93.68154907
                       1.737118006 0
18 02 2018 21:10 0
                       2.176206112 0
                                         103.0763016
18 02 2018 21:20 0
                       2.419291973 0
                                         108.6019974
18 02 2018 21:30 0
                       2.743048906 0
                                         114.4101028
18 02 2018 21:40 0
                       3.614578962 65.88311087 117.9194031
18 02 2018 21:50 60.37207031 3.512190104 53.37717949 113.5460968
18 02 2018 22:00 87.6785965 3.735116005 82.75535542 112.485199
18 02 2018 22:10 65.96405792 3.509346008 53.05374076 109.9020004
18 02 2018 22:20 198.4730988 4.311047077 183.0398817 110.6989975
18 02 2018 22:30 115.3967972 3.825119019 96.86952018 107.6837997
18 02 2018 22:40 90.96618652 3.582612991 61.79864754 110.4019012
18 02 2018 22:50
                 115.1669998 3.832794905 98.13322522 107.9888
18 02 2018 23:00 105.188797 3.734919071 82.72589358 109.7451019
18 02 2018 23:10 92.39369202 3.660085917 71.9798227 108.485199
18 02 2018 23:20 112.759201 3.704811096 78.29464958 114.8915024
                 121.7966003 3.414926052 43.05072396 105.0623016
18 02 2018 23:30
18 02 2018 23:40 227.1912994 3.805721998 93.71813902 95.85006714
18 02 2018 23:50 399.3218994 4.318621159 184.5630657 90.37934875
19 02 2018 00:00 739.822876 6.48973608 801.98189
                                                     76.60263062
19 02 2018 00:10 814.22052
                             6.657273769 868.897407 76.4390564
19 02 2018 00:20 913.4995117 7.019673824 1024.869867 76.23880768
19 02 2018 00:30 931.4848022 6.669380188 873.8561148 75.30506134
19 02 2018 00:40
                 1662.774048 8.681675911 1941.1503 73.02960968
19 02 2018 00:50
                 1684.187988 8.594908714 1886.835248 71.50450134
                 1534.051025 8.187215805 1638.96035 71.84616089
19 02 2018 01:00
                 1578.035034 8.408395767 1771.815154 70.29244995
19 02 2018 01:10
                 1341.456055 8.029569626 1546.975239 66.21000671
19 02 2018 01:20
19 02 2018 01:30 1363.821045 8.021186829 1542.152794 66.96690369
19 02 2018 01:40
                 1508.922974 8.077916145 1574.92682 70.80097198
19 02 2018 01:50
                 1590.140015 8.235549927 1667.632545 70.8586731
19 02 2018 02:00
                 1580.844971 8.583979607 1880.028112 66.3166275
19 02 2018 02:10 1392.199951 8.174525261 1631.467553 64.13937378
19 02 2018 02:20 1059.886963 7.371664047 1192.484683 66.19122314
19 02 2018 02:30 937.9846802 6.877852917 961.9371966 66.79250336
19 02 2018 02:40 1276.040039 7.751660824 1391.153087 66.72810364
19 02 2018 02:50 1550.020996 8.224007607 1660.766394 71.00112915
19 02 2018 03:00 1836.156006 8.80878067 2021.525022 71.43073273
19 02 2018 03:10 1769.527954 8.80679512 2020.262628 72.54763031
```

```
19 02 2018 03:20 2220.530029 9.520403862 2455.972336 70.6605072
                 2328.764893 9.715209007 2601.926203 68.67048645
19 02 2018 03:30
                 2332.072021 9.819359779 2674.572
19 02 2018 03:40
                                                     66.64803314
19 02 2018 03:50
                 2421.201904 10.0141201 2800.850279 66.51473999
                 2936.353027 11.23684025 3349.807152 69.14266205
19 02 2018 04:00
19 02 2018 04:10
                 3154.63501 11.51671028 3425.922066 68.58338165
                 3102.739014 11.45411015 3410.271957 69.39511871
19 02 2018 04:20
                 3270.802979 11.93515968 3511.505416 70.41007233
19 02 2018 04:30
                 3285.206055 12.01274967 3523.918673 72.36576843
19 02 2018 04:40
19 02 2018 04:50
                 3480.417969 12.01158047 3523.739293 71.33939362
19 02 2018 05:00
                 3324.818115 11.6171999 3449.448632 71.91352081
19 02 2018 05:10 2986.731934 11.1342802 3317.820061 71.48296356
19 02 2018 05:20
                 2530.772949 10.19587994 2908.0026
                                                     68.25627899
19 02 2018 05:30
                 1714.352051 8.686342239 1944.084609 70.53807831
19 02 2018 05:40
                 1499.373047 8.183568001 1636.805077 73.1599884
19 02 2018 05:50
                 1777.468018 8.950460434 2112.105017 77.27037048
19 02 2018 06:00
                 2111.886963 9.630327225 2539.976249 76.53865051
19 02 2018 06:10 2895.112061 11.08866024 3302.855097 75.98565674
19 02 2018 06:20 2645.352051 11.12096977 3313.501193 78.11461639
19 02 2018 06:30 2826.968018 11.1985302 3338.124014 79.31936646
19 02 2018 06:40 3090.636963 11.39216995 3394.019011 78.19828796
19 02 2018 06:50
                 3047.946045 11.38348961 3391.679491 78.36135101
19 02 2018 07:00
                 2451.924072 9.908427238 2733.837509 77.75884247
19 02 2018 07:10
                 2523.183105 10.10414028 2855.172051 76.50614166
19 02 2018 07:20 2725.26709 10.75247955 3177.865794 76.66647339
19 02 2018 07:30 2463.566895 10.44962025 3041.425576 78.44905853
19 02 2018 07:40 2152.082031 9.769438744 2640.208149 76.57565308
19 02 2018 07:50 2725.740967 10.55869007 3093.31348 77.69450378
19 02 2018 08:00 2838.167969 10.36734962 3000.152954 71.81207275
19 02 2018 08:10 2139.863037 8.96945858 2124.320974 69.87093353
19 02 2018 08:20 2748.471924 10.24849987 2937.181231 68.99202728
19 02 2018 08:30 3217.548096 11.14682961 3321.85642 67.34626007
19 02 2018 08:40 3539.187988 11.95452976 3514.701694 67.48061371
19 02 2018 08:50
                 3388.391113 11.76704025 3480.983764 67.23169708
                 3259.839111 11.35229969 3383.146528 63.28617096
19 02 2018 09:00
19 02 2018 09:10
                 3121.521973 11.09331989 3304.404736 65.78959656
                 3476.86499 12.1515398 3543.573126 64.70213318
19 02 2018 09:20
                 3520.420898 12.25137043 3555.739304 63.32690811
19 02 2018 09:30
19 02 2018 09:40 3459.961914 11.78800011 3485.065068 63.44139862
19 02 2018 09:50 3408.718994 11.60400009 3446.468893 64.56491852
19 02 2018 10:00 3578.217041 12.42831993 3573.379046 67.47515106
19 02 2018 10:10 3595.260986 12.94542027 3597.649219 66.393013
19 02 2018 10:20 3482.644043 12.12061024 3539.47204 66.89775848
19 02 2018 10:30 3593.758057 12.64083004 3588.156165 68.42286682
19 02 2018 10:40
                 3534.962891 11.96148968 3515.834268 70.30079651
19 02 2018 10:50
                 3598.735107 13.11536026 3600 71.22633362
19 02 2018 11:00
                 3564.73999 12.3228302 3563.459434 69.39009857
                 3511.314941 12.11913967 3539.273102 67.33778381
19 02 2018 11:10
19 02 2018 11:20
                 3427.708984 11.49145031 3419.700016 65.60650635
19 02 2018 11:30
                 3470.825928 11.66322041 3459.579395 66.78359985
19 02 2018 11:40
                 3399.039063 11.48163033 3417.247287 63.24803162
19 02 2018 11:50
                 3517.384033 11.85334015 3497.279644 60.95476151
19 02 2018 12:00
                 3508.75708 11.99493027 3521.159455 62.98664093
19 02 2018 12:10
                 3143.066895 10.83852005 3212.398369 58.49243927
19 02 2018 12:20
                 3530.177002 12.12530041 3540.104126 59.69377136
19 02 2018 12:30
                 3432.660889 11.94470024 3513.087856 59.56188965
19 02 2018 12:40
                 3169.071045 11.07231998 3297.382704 57.71850967
19 02 2018 12:50 3341.733887 11.33638954 3378.717055 57.83253098
19 02 2018 13:00 3425.479004 11.65715981 3458.268047 58.26795959
```

```
11.66520977 3460.008337 59.29721832
19 02 2018 13:10
                 3318.9021
                 3114.146973 10.99392033 3270.291236 57.51377106
19 02 2018 13:20
19 02 2018 13:30
                 2401.194092 9.501206398 2440.854525 55.24205017
19 02 2018 13:40
                 2625.375
                             9.805585861 2665.173674 57.65676117
19 02 2018 13:50
                 2824.180908 10.4110899 3022.328139 54.52762985
19 02 2018 14:00
                 2283.653076 9.398097992 2403.126341 54.11392975
19 02 2018 14:10
                 2024.477051 8.826431274 2032.756105 49.72962952
19 02 2018 14:20
                 2077.910889 9.001314163 2144.838125 52.21503067
19 02 2018 14:30
                 1692.081055 8.250641823 1676.628081 58.80784988
                 2440.604004 9.753576279 2629.11379 60.64501953
19 02 2018 14:40
19 02 2018 14:50
                 2833.164063 10.51904011 3074.817924 59.07498169
19 02 2018 15:00
                 3287.979004 11.43537045 3405.435933 59.62504959
19 02 2018 15:10
                 3427.842041 11.67593956 3462.3091
                                                     59.87934113
19 02 2018 15:20 3482.678955 12.12014961 3539.409765 61.51390839
19 02 2018 15:30 3597.89209 12.81890011 3595.342666 60.81912994
19 02 2018 15:40 3577.988037 12.49368
                                       3578.656512 61.69440842
19 02 2018 15:50
                 3338.12207 11.83471012 3493.874959 61.70652008
19 02 2018 16:00 3471.166992 12.24225044 3554.695089 63.63587952
19 02 2018 16:10 3524.875
                            12.35093021 3566.272621 63.01221085
                 3469.351074 11.8050499 3488.326315 62.36647034
19 02 2018 16:20
                 3376.221924 11.70730019 3468.910659 61.2395401
19 02 2018 16:30
                 3093.684082 10.91991997 3243.429414 62.04058838
19 02 2018 16:40
19 02 2018 16:50
                 2804.39502 10.54586983 3087.378625 64.50964355
19 02 2018 17:00
                 2694.490967 10.25860977 2942.695032 67.67405701
19 02 2018 17:10 3159.437012 11.10558033 3308.459122 66.34976959
19 02 2018 17:20 2966.446045 10.40163994 3017.582097 67.83499146
19 02 2018 17:30 2674.272949 10.14937973 2881.538806 69.20082855
19 02 2018 17:40 2297.818115 9.390286446 2398.0062
                                                    71.17842102
19 02 2018 17:50
                 1910.495972 8.624355316 1905.214862 69.70767212
19 02 2018 18:00
                 1663.552979 8.222365379 1659.790454 69.18182373
                 1651.979004 8.042555809 1554.460069 67.9526825
19 02 2018 18:10
                 1384.837036 7.635431767 1328.651193 70.06915283
19 02 2018 18:20
19 02 2018 18:30
                 2269.251953 9.269371033 2318.886934 65.59694672
19 02 2018 18:40 2241.929932 9.203698158 2276.047077 62.14796829
19 02 2018 18:50 2418.987061 9.535734177 2467.948418 63.59394073
19 02 2018 19:00
                 3220.326904 11.23705959 3349.873142 62.67781067
                 3254.673096 11.31567955 3372.873064 64.80596161
19 02 2018 19:10
19 02 2018 19:20
                 3213.162109 11.24133015 3351.15592 64.88197327
19 02 2018 19:30
                 2961.670898 10.65649033 3137.180092 63.95557022
19 02 2018 19:40
                 3212.208008 11.17463017 3330.67583 60.8615303
19 02 2018 19:50 3446.61499 11.79496956 3486.404516 62.50846863
19 02 2018 20:00 2436.965088 9.78238678 2649.201252 65.90608978
19 02 2018 20:10 1844.814941 8.521791458 1841.448523 64.33442688
19 02 2018 20:20
                 1985.243042 8.829237938 2034.543462 68.93824005
19 02 2018 20:30
                 2862.699951 10.66893005 3142.58356 69.96988678
19 02 2018 20:40
                 3447.191895 11.82310963 3491.72361 70.31874084
19 02 2018 20:50
                 3336.313965 11.53931999 3431.385499 69.28058624
                 2959.083984 10.48103046 3056.69509 67.04329681
19 02 2018 21:00
19 02 2018 21:10
                 3017.655029 10.77023029 3185.138172 67.89929199
19 02 2018 21:20
                 2842.966064 10.09786987 2851.468701 64.08976746
19 02 2018 21:30
                 2603.215088 9.853333473 2697.484653 63.02996063
19 02 2018 21:40
                 2984.406982 10.83609009 3211.447745 63.74847031
19 02 2018 21:50
                 3497.062988 12.51605034 3580.312117 71.05600739
19 02 2018 22:00
                 3264.072021 11.62804985 3451.873131 69.59922028
19 02 2018 22:10
                 3066.01709 10.98781013 3268.121148 67.75435638
19 02 2018 22:20
                 2725.337891 10.42362022 3028.583342 70.10710144
19 02 2018 22:30 2270.052979 9.375965118 2388.621575 69.17780304
19 02 2018 22:40 2587.684082 10.09620953 2850.486087 71.88659668
19 02 2018 22:50 2908.455078 10.88251019 3229.363374 72.59874725
```

```
19 02 2018 23:00 2355.85498 9.734877586 2615.926282 70.18408203
                 1635.012939 8.212048531 1653.664929 67.23457336
19 02 2018 23:10
19 02 2018 23:20
                 1778.703003 8.578584671 1876.670834 64.9136734
19 02 2018 23:30 1628.266968 8.24173069 1671.314157 61.74515152
19 02 2018 23:40 2008.453003 8.938946724 2104.709167 60.32440948
19 02 2018 23:50
                 1989.342041 8.778204918 2002.108382 60.13911057
20 02 2018 00:00
                 1996.041016 8.84057045 2041.764369 60.31328964
                 1934.087036 8.735852242 1975.297084 61.8055191
20 02 2018 00:10
                 1538.274048 7.848197937 1444.301303 59.35562897
20 02 2018 00:20
20 02 2018 00:30
                 1814.235962 8.413392067 1774.862852 59.32754135
20 02 2018 00:40
                 2330.620117 9.447189331 2435.322708 63.77920914
20 02 2018 00:50 2177.633057 9.295427322 2335.912237 63.11138916
20 02 2018 01:00
                 1960.360962 8.737393379 1976.270939 64.04369354
20 02 2018 01:10
                 1955.592041 8.820457458 2028.953165 66.90305328
20 02 2018 01:20
                 2226.028076 9.358010292 2376.860595 69.3127594
20 02 2018 01:30
                 1879.411011 8.683283806 1942.161238 68.24241638
20 02 2018 01:40
                 1808.968994 8.541264534 1853.500372 69.95922089
20 02 2018 01:50
                 1915.452026 8.780978203 2003.86745 69.25499725
20 02 2018 02:00 2016.355957 8.915254593 2089.508909 70.13356018
20 02 2018 02:10 1941.286987 8.750148773 1984.336311 70.82981873
20 02 2018 02:20 2129.602051 9.103664398 2211.022434 71.86649323
20 02 2018 02:30 1876.199951 8.687033653 1944.5195
                                                     71.40672302
20 02 2018 02:40
                 1915.381958 8.721247673 1966.075106 68.92368317
20 02 2018 02:50
                 1685.284058 8.24292469 1672.025761 69.46044159
20 02 2018 03:00 1486.281982 7.969634056 1512.65558 69.29090881
20 02 2018 03:10 1848.72998 8.615682602 1899.795792 72.39663696
20 02 2018 03:20 1705.597046 8.324475288 1720.921218 68.79031372
20 02 2018 03:30 1829.578003 8.501899719 1829.165212 69.88670349
20 02 2018 03:40 2161.185059 9.193947792 2269.696176 70.27030945
20 02 2018 03:50
                 1963.214966 8.856646538 2052.018851 69.0164032
20 02 2018 04:00 1860.954956 8.483319283 1817.717322 69.24797058
20 02 2018 04:10 1672.293945 8.278158188 1693.080639 69.04728699
20 02 2018 04:20
                 1618.843994 8.221874237 1659.498626 68.26486969
20 02 2018 04:30
                 1458.14502 7.845609188 1442.861989 70.87286377
                 1667.166992 8.224263191 1660.918304 68.90149689
20 02 2018 04:40
20 02 2018 04:50
                 1403.06897 7.715888023 1371.739148 72.70776367
20 02 2018 05:00
                 1187.151978 7.461209774 1237.926141 74.49791718
                 1029.718994 7.07853508 1051.737694 75.90875244
20 02 2018 05:10
20 02 2018 05:20
                 1205.45105 7.535027027 1276.039926 74.81915283
20 02 2018 05:30
                 1063.344971 7.19056797 1104.135012 76.92749023
20 02 2018 05:40 808.4354858 6.240632057 708.2206162 77.8646698
20 02 2018 05:50 882.0900879 6.414773941 773.0548952 78.98838043
20 02 2018 06:00
                 1263.744019 7.800261021 1417.773724 77.19555664
20 02 2018 06:10
                 1051.082031 7.402054787 1207.77286 75.65170288
20 02 2018 06:20
                 977.0557251 7.249279976 1132.272816 75.95207214
20 02 2018 06:30
                 1025.128052 7.433575153 1223.774296 74.69718933
20 02 2018 06:40
                 711.9661255 6.604586124 847.512136 73.13913727
                 956.2382813 7.273861885 1144.195864 75.14862823
20 02 2018 06:50
20 02 2018 07:00
                 793.9680176 6.851358891 950.4559503 74.87468719
20 02 2018 07:10
                 687.6898804 6.270587921 719.1399711 75.15828705
20 02 2018 07:20
                 696.4456177 6.470624924 794.548301 74.30406189
20 02 2018 07:30
                 668.6810303 6.3698349 756.0088617 74.59916687
20 02 2018 07:40
                 857.7047729 6.996460915 1014.396429 74.04676819
20 02 2018 07:50
                 627.3823242 6.298192024 729.287615 73.68977356
20 02 2018 08:00
                 650.7028198 6.263207912 716.4408879 71.45362091
20 02 2018 08:10
                 730.2094727 6.466486931 792.9440794 69.72730255
20 02 2018 08:20 911.0015869 6.967169762 1001.278021 70.16905212
20 02 2018 08:30 865.0258179 6.913546085 977.5404307 72.06903839
20 02 2018 08:40 753.5269775 6.600769043 845.9750989 71.15194702
```

```
20 02 2018 08:50 747.7747803 6.588255882 840.9479472 70.30841064
                 735.8994141 6.465019226 792.3755321 72.55394745
20 02 2018 09:00
20 02 2018 09:10
                 664.6207275 6.380960941 760.2086145 72.67398071
20 02 2018 09:20 492.3273926 5.803851128 560.8047942 76.90281677
20 02 2018 09:30 413.8559875 5.574991226 490.8334066 73.30480957
20 02 2018 09:40 385.5791931 5.462842941 458.3742485 71.35930634
                 317.7710876 5.27012682 405.2387819 73.07478333
20 02 2018 09:50
20 02 2018 10:00 337.8421936 5.333874226 422.4559417 72.7441864
20 02 2018 10:10 92.79421997 3.88883996 107.6457967 78.41831207
                 92.44431305 3.908068895 111.0253341 74.42919159
20 02 2018 10:20
20 02 2018 10:30
                 49.12731171 3.426959038 44.2462108 81.33289337
20 02 2018 10:40 4.409657001 2.762991905 0
                                               96.28542328
20 02 2018 10:50 0
                       2.478097916 0
                                         118.361702
20 02 2018 11:00 0
                       2.495240927 0
                                         109.8843994
20 02 2018 11:10 0
                       3.104643106 20.22459379 97.4914093
20 02 2018 11:20 50.38306046 3.073595047 18.78833998 79.93338776
20 02 2018 11:30 104.536499 3.853260994 101.5486977 79.26345825
20 02 2018 11:40 173.6613007 4.389667988 199.0041782 77.66905975
20 02 2018 11:50 277.3729858 5.177447796 380.8189918 76.43147278
20 02 2018 12:00 442.6512146 5.718957901 534.248442 74.97289276
20 02 2018 12:10 464.6138916 5.737940788 540.1240488 75.39533234
                 330.1939087 5.227290154 393.863024 76.50147247
20 02 2018 12:20
20 02 2018 12:30
                 301.0035095 5.042182922 346.4305625 75.33265686
20 02 2018 12:40
                 426.7844849 5.792178154 557.1102149 76.15693665
20 02 2018 12:50
                 365.944397 5.614851952 502.6539892 72.97949982
20 02 2018 13:00 176.3282013 4.539231777 230.3502378 74.10489655
20 02 2018 13:10 173.3455048 4.478556156 217.4745058 72.73667908
20 02 2018 13:20 176.9931946 4.556243896 234.0004833 77.63191223
20 02 2018 13:30 230.0240021 4.872996807 305.4011517 74.4986496
20 02 2018 13:40
                 172.1289978 4.529059887 228.1761614 73.82668304
20 02 2018 13:50 172.7677002 4.390058041 199.0842373 79.94111633
20 02 2018 14:00 132.6253967 4.073586941 136.7838491 80.52414703
20 02 2018 14:10
                 263.7374878 4.719697952 270.0069243 77.40368652
20 02 2018 14:20 306.1400146 4.675618172 260.1262844 79.18359375
20 02 2018 14:30 178.979599 3.895543098 108.8171744 82.08789063
                 233.8824005 4.582060814 239.57417
20 02 2018 14:40
                                                     76.3841629
                 107.0672989 3.768537045 87.84512053 84.42003632
20 02 2018 14:50
20 02 2018 15:00
                 121.7753983 3.595674992 63.44789538 80.84484863
20 02 2018 15:10 59.71865845 3.325330973 34.87781047 89.72392273
20 02 2018 15:20 75.40450287 3.380449057 39.75368859 90.77689362
20 02 2018 15:30 103.0827026 3.49060607 50.95493947 81.93890381
20 02 2018 15:40 32.53145981 3.090456009 19.54917545 91.13523865
20 02 2018 15:50 89.46565247 3.623162031 67.00765837 106.3699036
20 02 2018 16:00 204.6567993 4.55841589 234.4678064 125.3102036
20 02 2018 16:10 248.1595001 4.841174126 297.9185819 129.850296
20 02 2018 16:20 213.4085999 4.997460842 335.3760581 126.8988037
                 124.1830978 4.291408062 179.1047649 125.6079025
20 02 2018 16:30
20 02 2018 16:40 50.64072037 3.644551039 69.86131656 116.7967987
20 02 2018 16:50 87.26309967 4.081982136 138.3720976 119.5269012
20 02 2018 17:00
                 77.11873627 3.871990919 104.7331625 118.0699997
20 02 2018 17:10
                 20.69846916 3.3886621 40.52184542 115.324501
20 02 2018 17:20
                 11.47506046 2.642497063 0
                                               97.82064056
20 02 2018 17:30
                 1.934396982 2.545312881 0
                                               96.0849762
20 02 2018 17:40
                 11.66600037 3.180583954 24.38753167 95.59558105
20 02 2018 17:50
                 3.240334988 2.393836021 0
                                            100.879097
20 02 2018 18:00
                 -0.1582001 2.045150995 0
                                               95.31723785
20 02 2018 18:10 0
                       1.896677017 0
                                         100.3227997
20 02 2018 18:20 0
                      1.923859
                                 0
                                         102.9852982
                    2.474293947 0
20 02 2018 18:30 0
                                         112.813797
```

```
20 02 2018 18:40 0 3.04499197 17.60168523 120.281601
20 02 2018 18:50 0
                                     2.572921991 0 119.7048035
                                  2.124387026 0
                                                              106.9026031
108.2319031
20 02 2018 19:00 0
20 02 2018 19:10 0 1.625599027 0
20 02 2018 19:20 0 1.629649043 0
20 02 2018 19:30 0 2.008558989 0

      1.023399027
      0
      108.2319031

      1.629649043
      0
      107.1043015

      2.008558989
      0
      100.6722031

      2.265335083
      0
      108.0382004

      2.938457966
      0
      115.9860001

20 02 2018 19:40 0
20 02 2018 19:50 0
20 02 2018 20:00 0 2.930437900 0 113.9300001
20 02 2018 20:10 1.50733304 2.697207928 0 92.33805084
20 02 2018 20:20 3.445266008 2.926743031 0 87.65154266
20 02 2018 20:30 -2.471405029 3.069952965 18.62996826 86.89277649
20 02 2018 20:40 0 2.355941057 0 84.69833374
20 02 2018 20:50 0
                                       2.396348 0
                                                                 83.3080368
20 02 2018 21:00 0
                                       2.426695108 0
                                                                87.6676178

      20
      02
      2018
      21:10
      0
      2.713532925
      0
      86.53336334

      20
      02
      2018
      21:20
      0
      2.835447073
      0
      88.92308044

20 02 2018 21:10 0
20 02 2018 21:30 24.12812042 3.718760014 80.329597 78.12693787
20 02 2018 21:40 30.99489975 3.524626017 54.80662912 73.01019287
20 02 2018 21:50 -0.42233479 2.508794069 0 82.42603302
20 02 2018 22:00 0 3.359682083 37.85952273 83.33747864

      20
      02
      2018
      22:00
      0
      3.359682083
      37.85952273
      83.337

      20
      02
      2018
      22:10
      0
      2.203866005
      0
      83.48802948

      20
      02
      2018
      22:20
      0
      2.387872934
      0
      90.10209656

      20
      02
      2018
      22:30
      0
      2.224165916
      0
      101.2766037

      20
      02
      2018
      22:40
      0
      2.254961967
      0
      105.5254974

      20
      02
      2018
      22:50
      0
      2.424688101
      0
      106.774498

      20
      02
      2018
      23:10
      0
      2.146157026
      0
      104.4772034

      20
      02
      2018
      23:10
      0
      2.191859961
      107.3664017

      20
      02
      2018
      23:20
      0
      2.930855036
      111.5475006

20 02 2018 23:30 11.02842999 3.075512886 18.87258803 103.7473984
20 02 2018 23:40 -0.04046673 2.176084042 0 96.77565765
20 02 2018 23:50 0 2.295685053 0 85.01244354
21 02 2018 00:00 0
                                       2.62887001 0
                                                              88.01835632
21 02 2018 00:10 84.10093689 4.188650131 158.8446794 92.27863312
21 02 2018 00:20 14.95534039 2.883724928 0 98.96260071
21 02 2018 00:30 0 2.086668968 0 108.8704987
21 02 2018 00:40 0
                                      2.682485104 0
                                                                    107.7895966
21 02 2018 00:50 0 2.621642113 0 107.2434006
21 02 2018 01:00 0 2.696331978 0 115.3980026
21 02 2018 01:10 92.34060669 4.137160778 148.8937437 117.1396027
21 02 2018 01:20 117.6284027 3.802011967 93.12223851 112.5711975
21 02 2018 01:30 137.2545013 4.017744064 126.301426 107.9669037
21 02 2018 01:40 41.75131989 3.160661936 23.20616256 110.3807983
21 02 2018 01:50 41.39400101 3.078047037 18.98481239 110.5932999
21 02 2018 02:00 3.079066992 2.304219007 0 111.6524963
21 02 2018 02:10 4.873277187 2.557801008 0 114.0185013
21 02 2018 02:20 -0.349532396
                                                        2.848922014 0
                                                                                       119.9654007
21 02 2018 02:30 0 3.035659075 17.24281596 128.9658051
21 02 2018 02:40 0
                                       3.129827023 21.50286918 138.264801
21 02 2018 02:50 0
                                       3.045654058 17.62767331 143.8350983
                                       2.620178938 0
21 02 2018 03:00 0
                                                                    139.2075958
21 02 2018 03:10 0
                                       2.983781099 0
                                                                    138.7023926
21 02 2018 03:20 0
                                     2.860794067 0
                                                                 143.134201
21 02 2018 03:30 2.976732016 3.353554964 37.31384786 150.5251007
21 02 2018 03:40 0 2.451910019 0 163.7895966

      21 02 2018 03:50 0
      2.443265915 0
      183.3800049

      21 02 2018 04:00 0
      1.977126956 0
      183.4817047

      21 02 2018 04:10 0
      1.747884035 0
      183.0709076

      21 02 2018 04:20 0
      1.883844018 0
      182.1063995
```

```
21 02 2018 04:30
                         1.779608011 0
                                           159.0953064
                  0
21 02 2018 04:40
                  0
                         2.729477882 0
                                           139.5646057
21 02 2018 04:50
                         2.828304052 0
                                           127,4406967
                  0
21 02 2018 05:00
                  0
                         2.338299036 0
                                           123.157402
21 02 2018 05:10
                  0
                         2.28281498 0
                                           151.3787994
21 02 2018 05:20
                  0
                         2.274844885 0
                                           148.3251953
21 02 2018 05:30
                  0
                         3.428838015 44.43497989 126.7507019
21 02 2018 05:40
                  2.542665005 2.774122
                                           0
                                                  132.5301056
21 02 2018 05:50
                  0
                         1.38546598 0
                                           142.8188934
21 02 2018 06:00
                  0
                         1.946131945 0
                                           144.9640961
21 02 2018 06:10
                  Θ
                         2.38508606 0
                                           150.7173004
21 02 2018 06:20
                         2.272965908 0
                                           155.6094055
21 02 2018 06:30
                         2.19058609 0
                                           169.9015045
                         3.144994974 22.32172257 183.776001
21 02 2018 06:40
21 02 2018 06:50
                         2.780533075 0
                                           175.6376038
                  0
21 02 2018 07:00
                  0
                         2.438934088 0
                                           161.1658936
21 02 2018 07:10
                  0
                         2.017564058 0
                                           138.5791016
21 02 2018 07:20
                  0
                                           135,5037994
                         2.078778028 0
21 02 2018 07:30
                  0
                         3.231798887 27.71602232 157.0570068
                         3.325792074 34.91658442 160.0001068
21 02 2018 07:40
                  0
21 02 2018 07:50
                         2.949402094 0
                                           164.3050995
                  0
21 02 2018 08:00
                  0
                         2.236327887 0
                                           156.4423065
21 02 2018 08:10
                  0
                         1.260354996 0
                                           150.920105
                                           189.9667053
21 02 2018 08:20
                  0
                         1.70433104
                                     Θ
21 02 2018 08:30
                         1.70864296
                                           258.9291992
                                     0
21 02 2018 08:40
                         0.906116426 0
                                           292.9609985
21 02 2018 08:50
                         1.123034
                                           354.6333923
                                     0
21 02 2018 09:00
                         1.066362977 0
                  0
                                           321.8564148
21 02 2018 09:10
                  0
                         1.404289007 0
                                           313.1828918
21 02 2018 09:20
                  0
                         0.772847116 0
                                           328.7810059
21 02 2018 09:30
                  0
                         0.720744014 0
                                           336.3724976
21 02 2018 09:40
                  0
                         0.777844489 0
                                           19.25614929
21 02 2018 09:50
                         1.197018981 0
                                           352.3699951
                                           0.218671501
21 02 2018 10:00
                         1.192736983 0
                  0
21 02 2018 10:10
                         1.533553004 0
                                           350.5198975
                  0
21 02 2018 10:20
                  0
                         2.028523922 0
                                           3.55881691
21 02 2018 10:30
                  0
                         2.011537075 0
                                           27.85796928
21 02 2018 10:40
                         1.628386974 0
                                           51.93590927
21 02 2018 10:50
                         1.335858941 0
                                           66.34545135
21 02 2018 11:00
                         1.595376015 0
                                           53.05455017
21 02 2018 11:10
                         1.694440007 0
                                           46.23382187
                  0
21 02 2018 11:20
                                           34.042099
                  0
                         2.188735962 0
21 02 2018 11:30
                         1.852684975 0
                                           43.58996964
                  0
21 02 2018 11:40
                  0
                         1.750761986 0
                                           39.65882111
21 02 2018 11:50
                  0
                         1.818464041 0
                                           26.90730095
21 02 2018 12:00
                  0
                         2.143444061 0
                                           51.2635994
21 02 2018 12:10
                  0
                         2.974735022 0
                                           67.12737274
21 02 2018 12:20
                                           71.1652832
                  0
                         2.888508081 0
21 02 2018 12:30
                  0
                         2.241419077 0
                                           77.06961823
21 02 2018 12:40
                  0
                         2.368956089 0
                                           87.0141983
21 02 2018 12:50
                  0
                         2.379439116 0
                                           94.90596008
21 02 2018 13:00
                         2.130073071 0
                                           104.0951996
21 02 2018 13:10
                         2.890495062 0
                                           96.93190002
21 02 2018 13:20
                         3.082187891 19.17040047 89.06095886
                  0
21 02 2018 13:30
                         3.828984976 97.50480644 77.02261353
                  0
21 02 2018 13:40
                  0
                         3.800839901 92.93444059 77.90930939
21 02 2018 13:50
                  0
                        4.042761803 130.9800585 82.0838623
21 02 2018 14:00
                  0
                         4.75040102 276.9659168 86.33217621
21 02 2018 14:10
                         4.927737236 318.443462 85.46205902
```

```
21 02 2018 14:20 0
                       4.867344856 304.0668995 83.23695374
21 02 2018 14:30 3.683937073 3.020574093 16.69223444 93.60075378
21 02 2018 14:40
                 15.72500038 3.248666048 28.90409781 83.70262909
21 02 2018 14:50
                 -0.116066903
                                2.633557081 0
                                                     113.1876984
21 02 2018 15:00 0
                       2.184601068 0
                                     113.6399994
21 02 2018 15:10
                       2.569653988 0
                                         105.8431015
21 02 2018 15:20 0
                       2.591073036 0
                                         109.8491974
21 02 2018 15:30 0
                       2.541043997 0
                                         106.5988007
21 02 2018 15:40 0
                       2.586947918 0
                                         108.517601
21 02 2018 15:50 0
                       2.77995491 0
                                         96.322258
21 02 2018 16:00 0
                       2.900685072 0
                                         96.89600372
21 02 2018 16:10 0
                       3.032958031 17.14155553 95.06629944
21 02 2018 16:20 0
                       3.219383955 26.87063214 93.8344574
21 02 2018 16:30 0
                       3.404444933 42.02829416 100.9207993
21 02 2018 16:40 88.60476685 3.474045992 49.14703994 100.611702
21 02 2018 16:50 171.6938019 3.575077057 60.85955553 98.59021759
21 02 2018 17:00 206.0240936 3.994698048 126.984274 90.61077118
21 02 2018 17:10 199.9217072 3.785949945 90.56778359 90.37843323
21 02 2018 17:20 196.5175018 3.94790411 118.2147077 91.0372467
21 02 2018 17:30 309.2130127 4.802092075 288.8272478 82.63419342
21 02 2018 17:40 420.9743042 5.362277985 430.2402993 84.1754837
21 02 2018 17:50 429.0202942 5.662912846 517.1086406 81.85041809
21 02 2018 18:00 463.5101013 5.772655964 550.962139 82.85595703
21 02 2018 18:10 504.7937012 6.094164848 656.216289 80.62299347
21 02 2018 18:20 492.7999878 5.927427769 600.7777659 81.38838196
21 02 2018 18:30 175.3018036 3.957257986 119.9396837 90.80314636
21 02 2018 18:40 192.0632935 4.119504929 145.5112963 99.7527771
21 02 2018 18:50 257.1427917 4.356328964 192.1928299 102.469902
21 02 2018 19:00 172.9891968 3.924587011 113.9756757 110.5808029
21 02 2018 19:10 447.8678894 5.350697041 427.0579249 118.123497
21 02 2018 19:20 586.1054077 5.835884094 571.014818 114.596199
21 02 2018 19:30 318.5539856 4.660192013 256.6987145 107.7207031
21 02 2018 19:40 451.9346008 5.240341187 397.3125707 115.7623978
21 02 2018 19:50 591.7744751 6.113226891 662.8545282 119.3808975
21 02 2018 20:00 487.1908875 5.67990303 522.2720977 117.9518967
21 02 2018 20:10 191.8993073 3.989248991 125.945053 109.9671021
21 02 2018 20:20 199.8200073 3.967998981 121.9377297 108.1818008
21 02 2018 20:30 267.1326904 4.463539124 214.3217887 109.7344971
21 02 2018 20:40 326.6228943 4.670054913 258.8883783 115.7966995
21 02 2018 20:50 1021.388
                            7.150372028 1085.142594 118.1427994
21 02 2018 21:00 1397.581055 8.153996468 1619.378579 118.7313995
21 02 2018 21:10 1562.114014 8.433876991 1787.378621 121.1523972
21 02 2018 21:20 1598.942993 8.511919022 1835.34869 120.558197
21 02 2018 21:30 1445.823975 8.29109478 1700.83831 119.4880981
21 02 2018 21:40 1312.425049 7.875102043 1459.304573 119.4552002
21 02 2018 21:50 1724.062988 8.694898605 1949.46847 120.172699
21 02 2018 22:00 1334.682983 7.861308098 1451.602074 121.8470001
21 02 2018 22:10 979.84552
                             6.992590904 1012.656981 118.8995972
21 02 2018 22:20 1164.312012 7.467607021 1241.218746 119.1755981
21 02 2018 22:30 895.0831299 6.770687103 916.0168661 121.5162964
21 02 2018 22:40
                 1605.92395 8.519015312 1839.732542 120.8848038
21 02 2018 22:50 792.8190918 6.515879154 812.2162265 123.4153976
21 02 2018 23:00 880.2139282 6.930125237 984.8413441 122.4837036
21 02 2018 23:10 921.8560181 6.996245861 1014.299719 121.7192993
21 02 2018 23:20 791.2504272 6.810657024 932.9829304 120.8871994
21 02 2018 23:30 891.0709229 6.845751762 948.037001 122.2326965
21 02 2018 23:40 1544.439941 8.125635147 1602.742581 122.2288971
21 02 2018 23:50 970.2348022 7.05163908 1039.405171 128.4550934
22 02 2018 00:00 788.8103027 6.767691135 914.7527977 132.4703064
```

```
22 02 2018 00:10 743.0938721 6.723505974 896.2326684 135.6546021
22 02 2018 00:20 527.8024292 6.226583004 703.1327499 133.8144989
22 02 2018 00:30
                 424.5940857 5.743768215 541.9349523 132.7648926
22 02 2018 00:40 420.4682007 5.795633793 558.2025079 131.8363037
22 02 2018 00:50 476.3536987 5.922646999 599.2017234 135.6927948
22 02 2018 01:00
                 420.9266968 5.547692776 482.8247888 139.8164063
                 386.5549011 5.622392178 504.907058 139.3733063
22 02 2018 01:10
                332.8039856 5.113585949 364.4019903 142.9319
22 02 2018 01:20
                255.7389984 4.670774937 259.0484799 141.9221039
22 02 2018 01:30
22 02 2018 01:40
                 179.4508972 4.31876421 184.5918638 149.9481964
22 02 2018 01:50
                 226.210495 4.824923992 294.125401 148.9674988
22 02 2018 02:00 208.982605 4.589912891 241.27763
                                                     148.0337982
22 02 2018 02:10 153.3049011 4.256792068 172.2186
                                                     141.4461975
22 02 2018 02:20 222.7171936 4.805078983 289.5182877 133.7911072
22 02 2018 02:30 299.6170044 4.928523064 318.6322864 146.4331055
22 02 2018 02:40 393.0340881 5.23958683 397.1127976 156.7133942
22 02 2018 02:50 563.2960205 5.752672195 544.7084587 164.7093048
22 02 2018 03:00
                 782.4749146 6.486557007 800.7425364 170.6414948
22 02 2018 03:10 797.3944702 6.716791153 893.4381686 172.7825012
22 02 2018 03:20 779.718811 6.685044765 880.2972589 170.3903046
22 02 2018 03:30
                777.5452271 6.685676098 880.5574511 172.6764069
22 02 2018 03:40 893.1102295 7.024538994 1027.073699 177.0326996
22 02 2018 03:50 548.7376709 5.959926128 611.5554666 172.8233032
22 02 2018 04:00
                 199.8972931 4.807538986 290.0878922 181.5578003
22 02 2018 04:10 317.690094 5.26897192 404.9300593 163.4008942
22 02 2018 04:20 703.6381226 6.539268017 821.4368363 163.6938934
22 02 2018 04:30 806.7019043 6.652060032 866.7670787 165.7225952
22 02 2018 04:40 1176.249023 7.373991966 1193.650938 168.052002
22 02 2018 04:50 1135.509033 7.218990803 1117.697363 168.798996
22 02 2018 05:00
                 1209.109985 7.410440922 1212.01562 178.699295
22 02 2018 05:10 979.2545166 7.036430836 1032.473259 184.8531036
22 02 2018 05:20 676.4276733 6.232261181 705.1865505 184.2453003
22 02 2018 05:30
                 648.3959961 6.138770103 671.8106724 184.5292053
22 02 2018 05:40
                 917.2149048 6.91702795 979.0709103 190.3392944
                 629.2401733 7.852845192 1446.887032 198.3316956
22 02 2018 05:50
22 02 2018 06:00
                 0
                       8.655241966 1924.55295 202.4647064
                       5.786695957 555.3798297 193.0292969
22 02 2018 06:10
                 0
22 02 2018 06:20
                       5.094428062 359.5407709 194.2200928
22 02 2018 06:30
                       5.789358139 556.2197332 189.9837036
22 02 2018 06:40
                       6.497676849 805.0824717 186.4351044
22 02 2018 06:50
                       7.609913826 1315.15577 192.8072968
22 02 2018 07:00
                       7.073454857 1049.401068 188.7539978
                 0
22 02 2018 07:10
                 0
                       5.663127899 517.1738214 187.3697052
22 02 2018 07:20
                 0
                       7.009348869 1020.202873 188.9210052
22 02 2018 07:30
                 0
                       6.722462177 895.7979277 191.6300049
22 02 2018 07:40
                       8.116811752 1597.582685 192.2212067
22 02 2018 07:50
                 0
                       8.401678085 1767.720495 190.5814056
22 02 2018 08:00
                 0
                       8.334226608 1726.805571 192.9216003
22 02 2018 08:10
                 0
                       7.904479027 1475.779402 194.2187042
22 02 2018 08:20
                       7.745691776 1387.902935 200.4786072
22 02 2018 08:30
                       8.599789619 1889.877842 195.9913025
                 0
22 02 2018 08:40
                       7.695840836 1360.927692 192.2113037
22 02 2018 08:50
                       7.629135132 1325.313407 194.4524994
22 02 2018 09:00
                       7.831132889 1434.827438 197.2754059
                 0
22 02 2018 09:10
                 0
                       8.19648838 1644.444475 206.0731964
22 02 2018 09:20
                 0
                       6.782310963 920.9312912 210.4989929
22 02 2018 09:30
                 0
                      7.222057819 1119.167465 213.642395
                    9.770515442 2640.958124 215.0570068
22 02 2018 09:40 0
22 02 2018 09:50 0
                    9.28838253 2331.307676 217.5865936
```

```
22 02 2018 10:00
                        8.254528046 1678.947719 217.8746948
                  0
                        10.47056961 3051.639359 218.8296967
22 02 2018 10:10
                  0
22 02 2018 10:20
                  0
                        10.91506958 3241.624257 215.922699
22 02 2018 10:30
                  0
                        9.341344833 2365.949114 217.2843018
                  0
                        9.274483681 2322.226379 220.2666016
22 02 2018 10:40
                        9.268382072 2318.24104 219.6896057
22 02 2018 10:50
                        9.965257645 2770.310289 222.6799927
22 02 2018 11:00
                  0
22 02 2018 11:10
                        9.957784653 2765.573098 223.8565063
                  0
22 02 2018 11:20
                  0
                        10.56678963 3097.040735 224.5655975
22 02 2018 11:30
                        9.285076141 2329.146948 224.4066925
                  0
22 02 2018 11:40
                  0
                        9.150935173 2241.71202 225.584198
22 02 2018 11:50
                        8.387647629 1759.179864 223.9416962
22 02 2018 12:00
                        7.524355888 1270.526474 221.7456055
22 02 2018 12:10
                        7.392609119 1203.006567 221.7574005
22 02 2018 12:20
                  0
                        8.550430298 1859.182178 223.8372955
22 02 2018 12:30
                  0
                        8.560182571 1865.2339 223.4046021
22 02 2018 12:40
                  0
                        7.855206966 1448.202061 226.1688995
22 02 2018 12:50
                  0
                        7.950269222 1501.64778 225.0704041
22 02 2018 13:00
                  0
                        7.333333969 1173.395554 225.6936035
22 02 2018 13:10
                  0
                        6.262341976 716.1245741 231.4528961
22 02 2018 13:20
                        6.310882092 733.9802415 243.2507019
                  0
22 02 2018 13:30
                        7.94405508 1498.123891 249.5207977
                  0
22 02 2018 13:40
                        7.091544151 1057.736539 241.9450989
22 02 2018 13:50
                  0
                        6.446091175 785.0646171 244.9671936
22 02 2018 14:00
                        5.164155006 377.3746306 250.1546936
22 02 2018 14:10
                        4.36360693 193.6744635 263.3904114
22 02 2018 14:20
                        4.36453104 193.8628027 245.6992035
                  29.63689995 3.766757011 87.56952953 260.183197
22 02 2018 14:30
22 02 2018 14:40
                  47.28688049 3.806704998 93.87639624 264.7218018
                  -0.242200002
22 02 2018 14:50
                                    2.365839958 0
                                                       267.2532043
22 02 2018 15:00
                        2.630047083 0
                  0
                                          291.6339111
22 02 2018 15:10
                  0
                        2.117424011 0
                                           292.7232056
22 02 2018 15:20
                        2.620417118 0
                                           286.4890137
22 02 2018 15:30
                  0
                        3.322467089 34.6377487 285.4494934
22 02 2018 15:40
                  46.02135849 3.338984966 36.04038351 285.7052917
22 02 2018 15:50
                  0
                        2.649224997 0
                                           292.8117981
22 02 2018 16:00
                  0
                        3.175821066 24.09931789 287.4313965
22 02 2018 16:10
                  0
                        2.629668951 0
                                           293.0227051
22 02 2018 16:20
                  36.23128891 3.951371908 118.8525817 297.417511
22 02 2018 16:30
                  2.102268934 3.395944118 41.21195139 301.9653931
22 02 2018 16:40
                  14.33088017 3.643693924 69.74555498 294.1170044
22 02 2018 16:50
                  15.71142006 3.421217918 43.67293617 283.0158997
22 02 2018 17:00
                        2.944062948 0
                                           295.3067017
22 02 2018 17:10
                  0
                        2.520577908 0
                                           301.5007019
22 02 2018 17:20
                  0
                                           296.4685059
                        2.970897913 0
22 02 2018 17:30
                  0
                        1.682531953 0
                                           288.385498
22 02 2018 17:40
                  0
                        1.494588017 0
                                           258.1028137
22 02 2018 17:50
                                           237.5977936
                  0
                        0.941884816 0
22 02 2018 18:00
                  0
                        0.535150707 0
                                           205.8493042
22 02 2018 18:10
                  0
                        0.878790379 0
                                           174.3872986
22 02 2018 18:20
                        0.609763086 0
                                           199.009903
22 02 2018 18:30
                        1.557342052 0
                                           291.2950134
22 02 2018 18:40
                        1.50245297 0
                                           251.1145935
22 02 2018 18:50
                        1.318874002 0
                                           230.6900024
22 02 2018 19:00
                        1.013648987 0
                                           242.8645935
                  0
22 02 2018 19:10
                  0
                        0.784518719 0
                                           282.8807068
22 02 2018 19:20
                  0
                        0.680646896 0
                                           134.2528992
22 02 2018 19:30
                  0
                        1.965443015 0
                                           205.1300049
22 02 2018 19:40
                        1.552538037 0
                                          172.967804
```

```
22 02 2018 19:50
                        2.017314911 0
                                          211.6959076
                  0
22 02 2018 20:00
                  0
                        2.266165018 0
                                          249.8872986
22 02 2018 20:10
                                          178.1123047
                  0
                        2.195162058 0
22 02 2018 20:20
                  0
                        2.718101025 0
                                          193,1672058
22 02 2018 20:30
                  0
                        2.618825912 0
                                          211.907196
22 02 2018 20:40
                        2.324610949 0
                                          205.5904999
22 02 2018 20:50
                  0
                        2.63696599 0
                                          216.449295
22 02 2018 21:00
                  0
                        1.009948015 0
                                          232.6457062
22 02 2018 21:10
                  0
                        0.422446907 0
                                          249.0527039
22 02 2018 21:20
                  0
                        0.689162016 0
                                          278.3517151
22 02 2018 21:30
                  0
                        0.483625412 0
                                          19.23788071
22 02 2018 21:40
                        0.748221278 0
                                          6.478820801
22 02 2018 21:50
                        1.057878017 0
                                          22.78240967
                                          11.82499027
22 02 2018 22:00
                        0.767047882 0
22 02 2018 22:10
                        1.385463953 0
                                          52.03501892
                  0
22 02 2018 22:20
                  0
                        1.377295017 0
                                          45.17898178
22 02 2018 22:30
                  0
                        2.23182106 0
                                          62.68777847
22 02 2018 22:40
                  0
                        2.488735914 0
                                          62.07376099
22 02 2018 22:50
                  0
                        2.094965935 0
                                          76.84496307
22 02 2018 23:00
                  0
                        1.705119014 0
                                          79.00933838
22 02 2018 23:10
                        1.877733946 0
                                          80.58931732
                  0
22 02 2018 23:20
                  0
                        1.613324046 0
                                          76.15634155
22 02 2018 23:30
                  0
                        1.364572048 0
                                          79.57776642
                        1.458801985 0
22 02 2018 23:40
                  0
                                          86.10556793
22 02 2018 23:50
                        1.774448037 0
                                          67.95606995
23 02 2018 00:00
                        1.997779012 0
                                          78.34485626
23 02 2018 00:10
                        2.584290028 0
                                          52.05327988
                  0
23 02 2018 00:20
                        2.512442112 0
                                          53.68526077
                  0
23 02 2018 00:30
                  0
                        2.856667042 0
                                          29.62598038
23 02 2018 00:40
                        3.471657991 48.88995659 14.41773033
                  0
23 02 2018 00:50
                  0
                        2.914908886 0
                                          15.19470024
23 02 2018 01:00
                  0
                        2.78728199 0
                                          7.378530979
23 02 2018 01:10
                        2.7717731
                                    0
                                          12.64379025
23 02 2018 01:20
                        3.333501101 35.56987394 4.166493893
23 02 2018 01:30
                  10.52855015 3.254640102 29.33580982 13.74773979
                  66.29086304 3.871016979 104.5661896 32.67256927
23 02 2018 01:40
                  38.02970886 3.534323931 55.93853082 28.49827957
23 02 2018 01:50
                  156.2411957 4.425342083 206.3621393 20.59630013
23 02 2018 02:00
23 02 2018 02:10
                  208.6501007 4.640542984 252.3552835 16.98765945
23 02 2018 02:20
                  127.300499 4.150084019 151.3790853 15.37757015
23 02 2018 02:30
                  118.7257004 4.249970913 170.869088 36.63362885
                  153.7322998 4.480006218 217.7796422 43.77030945
23 02 2018 02:40
23 02 2018 02:50
                  147.952301 4.319562912 184.7526738 44.31217957
23 02 2018 03:00
                  213.4078064 4.754910946 277.9934908 48.43645859
23 02 2018 03:10
                  299.6000977 5.052474022 348.9961318 50.95512009
23 02 2018 03:20
                  436.8464966 5.647696972 512.5082358 54.6186409
23 02 2018 03:30
                  680.984375 6.353023052 749.6884309 65.06072235
23 02 2018 03:40
                  1008.596985 6.961278915 998.6527808 64.20330811
                  1086.92395 7.146137238 1083.154352 66.29055786
23 02 2018 03:50
23 02 2018 04:00
                  1050.822998 7.074453831 1049.860276 60.82989883
23 02 2018 04:10
                  1110.737061 7.145439148 1082.826829 61.55754089
23 02 2018 04:20
                  1166.152954 7.272850037 1143.70341 62.70198059
23 02 2018 04:30
                  1299.149048 7.482389927 1248.851329 64.07003784
23 02 2018 04:40
                  1438.425049 7.774374008 1403.559377 62.63637161
23 02 2018 04:50
                  1455.850952 7.787540913 1410.779368 61.12195969
23 02 2018 05:00
                  1274.977051 7.559341908 1288.659453 58.97499084
23 02 2018 05:10
                  1134.124023 7.252872944 1134.010247 57.87810898
23 02 2018 05:20
                 1123.764038 7.263319016 1139.071845 57.74491119
23 02 2018 05:30 1110.833984 7.186916828 1102.400823 57.13674164
```

```
1069.927002 7.12526083 1073.387879 55.38237
23 02 2018 05:40
23 02 2018 05:50
                  1074.911011 7.004903793 1018.197835 55.71511841
23 02 2018 06:00
                  449.6596985 6.829226017 940.929759 60.63666916
23 02 2018 06:10
                  0
                        7.289536953 1151.843184 68.22873688
23 02 2018 06:20
                        8.259475708 1681.902834 72.30019379
23 02 2018 06:30
                        9.115324974 2218.586158 66.78601074
23 02 2018 06:40
                  0
                        9.172979355 2256.047347 67.35308075
                        7.867033958 1454.79678 63.75616074
23 02 2018 06:50
                  0
23 02 2018 07:00
                  0
                        8.717223167 1963.536013 64.03887177
23 02 2018 07:10
                        8.388487816 1759.690867 65.88394928
                  0
23 02 2018 07:20
                        10.15120983 2882.592499 69.58476257
                  0
23 02 2018 07:30
                        10.40480995 3019.176913 70.98857117
23 02 2018 07:40
                        9.654006004 2557.510067 69.1849823
23 02 2018 07:50
                        9.740303993 2619.765566 70.44055176
23 02 2018 08:00
                        9.583750725 2504.909868 68.57421112
                  0
23 02 2018 08:10
                  0
                        8.925340652 2095.976797 66.57740784
23 02 2018 08:20
                  0
                        7.866269112 1454.369825 60.31324005
23 02 2018 08:30
                  0
                        6.686258793 880.7976391 58.47967911
                        8.244084358 1672.717025 62.52077866
23 02 2018 08:40
23 02 2018 08:50
                  0
                        10.5156002 3073.193675 69.4154129
23 02 2018 09:00
                        9.977268219 2777.886826 69.33084106
                  0
23 02 2018 09:10
                        8.016850471 1539.661008 59.55995178
                  0
23 02 2018 09:20
                        8.433423042 1787.100921 61.63780975
23 02 2018 09:30
                  0
                        8.744757652 1980.926328 63.38212967
23 02 2018 09:40
                        10.39212036 3012.776167 64.07161713
23 02 2018 09:50
                        9.331181526 2359.297284 64.6696701
23 02 2018 10:00
                        9.918269157 2740.227971 64.19246674
                        10.13819027 2875.074598 67.50769043
23 02 2018 10:10
                  0
                        11.02684975 3281.839641 70.1341095
23 02 2018 10:20
                        11.41602993 3400.371142 69.69576263
23 02 2018 10:30
                  0
                        11.18649006 3334.38724 67.78851318
23 02 2018 10:40
                  0
23 02 2018 10:50
                  0
                        10.64360046 3131.539535 65.5849762
23 02 2018 11:00
                        10.62203979 3122.009635 66.15265656
23 02 2018 11:10
                  0
                        10.43194008 3032.71287 65.73464203
23 02 2018 11:20
                        10.37973976 3006.48831 65.60668945
                  0
23 02 2018 11:30
                  0
                        10.75055981 3177.074629 64.37097168
23 02 2018 11:40
                  0
                        10.01616955 2802.11486 63.5697403
23 02 2018 11:50
                        11.28952026 3365.364135 65.40220642
23 02 2018 12:00
                        10.84218025 3213.827597 64.31189728
23 02 2018 12:10
                        10.4089098 3021.235414 61.82384109
23 02 2018 12:20
                        10.7796402 3188.961944 59.48524857
                  0
                        7.86278677 1452.426736 52.28403854
23 02 2018 12:30
                  0
23 02 2018 12:40
                        8.440810204 1791.621911 58.24069977
                  0
23 02 2018 12:50
                  0
                        9.721936226 2606.72951 57.47261047
23 02 2018 13:00
                  0
                        9.190781593 2267.634434 55.33831024
23 02 2018 13:10
                        8.882034302 2068.238765 56.09646988
23 02 2018 13:20
                  0
                        9.381549835 2392.280807 56.40129089
23 02 2018 13:30
                        9.442001343 2431.918758 55.93598938
                  0
23 02 2018 13:40
                  0
                        9.063202858 2184.812572 57.78181076
23 02 2018 13:50
                  0
                        9.125447273 2225.155667 63.73094177
23 02 2018 14:00
                  0
                        9.319526672 2351.67164 63.18645859
23 02 2018 14:10
                        9.31567955 2349.155088 62.68767929
23 02 2018 14:20
                        8.914631844 2089.10971 62.82884979
23 02 2018 14:30
                  2083.443115 10.53849983 3083.947238 59.52713013
23 02 2018 14:40
                  2575.958008 9.807971001 2666.805639 56.72056961
23 02 2018 14:50
                  2551.052002 9.849424362 2694.867624 56.31119919
23 02 2018 15:00
                  2760.814941 10.3598299 2996.287071 58.11587906
23 02 2018 15:10 2846.462891 10.36870003 3000.845523 56.5977211
23 02 2018 15:20 2517.447998 9.779624939 2647.287735 57.30619049
```

```
23 02 2018 15:30 2742.711914 10.13755035 2874.703781 57.43933868
23 02 2018 15:40 2717.177979 10.22049999 2921.755573 57.35848999
23 02 2018 15:50
                 2456.459961 9.602302551 2518.969298 55.38433075
23 02 2018 16:00 2615.884033 9.938964844 2753.564372 58.2602005
23 02 2018 16:10 3105.73999 11.15458012 3324.332087 60.06547928
23 02 2018 16:20 3224.99707 11.65215969 3457.180968 61.09851074
23 02 2018 16:30
                 3301.863037 11.7702198 3481.608022 62.94487
                 2740.50708 10.39085007 3012.132967 61.56444931
23 02 2018 16:40
23 02 2018 16:50 2475.856934 9.886293411 2719.351457 62.65428162
23 02 2018 17:00
                 2066.301025 9.078082085 2194.444303 64.19908905
23 02 2018 17:10
                 1856.546021 8.61712265 1900.695259 63.70072937
23 02 2018 17:20 2120.469971 8.998923302 2143.296817 62.32154846
23 02 2018 17:30
                 1941.131958 8.729782104 1971.462642 62.47072983
23 02 2018 17:40 2189.264893 9.174552917 2257.071181 62.56230927
23 02 2018 17:50 2398.371094 9.697155952 2588.95937 63.35911942
23 02 2018 18:00 2333.980957 9.489463806 2463.070526 62.73640823
23 02 2018 18:10 2299.599121 9.367134094 2382.836309 63.49002075
23 02 2018 18:20 2231.564941 9.290495872 2332.688871 64.72959137
23 02 2018 18:30 2224.727051 9.370469093 2385.020942 67.25684357
23 02 2018 18:40 2182.23291 9.285513878 2329.432996 67.94928741
23 02 2018 18:50 2012.357056 8.888689041 2072.495505 69.02513123
23 02 2018 19:00 1822.588989 8.548606873 1858.051384 71.26531982
23 02 2018 19:10
                 1483.396973 8.051142693 1559.418669 73.38168335
23 02 2018 19:20
                 1322.47998 7.616436005 1318.597144 73.04055023
23 02 2018 19:30 1333.626953 7.729550838 1379.135678 71.26779938
23 02 2018 19:40 896.1386108 6.545266151 823.8113302 73.76551056
23 02 2018 19:50 977.3474121 6.942135811 990.1516932 71.36488342
23 02 2018 20:00 1650.765991 8.401573181 1767.65658 72.90955353
23 02 2018 20:10 1390.697998 7.891914845 1468.721591 71.00350189
23 02 2018 20:20
                 1130.467041 7.316121101 1164.892411 69.79013824
23 02 2018 20:30
                 1142.98999 7.423069
                                       1218.424282 66.37021637
23 02 2018 20:40 1129.645996 7.335928917 1174.681159 64.92777252
23 02 2018 20:50
                 1036.697021 7.172873974 1095.747747 65.52609253
23 02 2018 21:00 1147.095947 7.353030205 1183.177963 67.92434692
23 02 2018 21:10 1245.241943 7.613352776 1316.969621 68.552948
                 1613.27002 8.215071678 1655.458899 68.45622253
23 02 2018 21:20
23 02 2018 21:30
                 1430.245972 7.919127941 1484.03023 67.53536987
23 02 2018 21:40
                 1113.004028 7.309452057 1161.609337 68.22899628
23 02 2018 21:50 1276.786987 7.638885975 1330.484382 68.75717163
23 02 2018 22:00
                 1590.267944 8.183897972 1636.999987 64.64582825
23 02 2018 22:10 1585.953003 8.155516624 1620.272414 64.96414948
23 02 2018 22:20 1745.839966 8.484374046 1818.366518 63.36357117
23 02 2018 22:30
                 1618.003052 8.292407036 1701.626029 66.14634705
23 02 2018 22:40
                 2039.057007 9.022551537 2158.539064 67.94830322
23 02 2018 22:50
                 2050.269043 9.073238373 2191.307975 66.06639099
23 02 2018 23:00
                 2081.093018 9.210339546 2280.374417 65.78421783
23 02 2018 23:10
                 1971.531982 8.89242363 2074.88527 64.86437225
                 1311.774048 7.604771137 1312.446139 63.80171967
23 02 2018 23:20
23 02 2018 23:30 1269.369019 7.575753212 1297.221226 62.23168182
23 02 2018 23:40
                 1004.89502 7.05760479 1042.132498 65.59932709
23 02 2018 23:50
                 945.940979 6.933329105 986.256148 67.41322327
24 02 2018 00:00
                 961.9802246 7.002281189 1017.016038 63.31138992
24 02 2018 00:10
                 1089.214966 7.301861763 1157.880479 59.17047119
24 02 2018 00:20
                 766.4995117 6.49456501 803.8665785 58.93394089
24 02 2018 00:30 883.3875122 6.733890057 900.5645623 57.53113174
24 02 2018 00:40 945.5339966 6.922530174 981.4925072 59.20592117
24 02 2018 00:50
                 1298.584961 7.691335201 1358.504613 58.24650955
24 02 2018 01:00 1606.218994 8.231058121 1664.959102 59.68875885
24 02 2018 01:10 1661.034058 8.333548546 1726.396145 58.68341827
```

```
1224.136963 7.357137203 1185.224859 59.06993866
24 02 2018 01:20
                  1021.874023 7.025666237 1027.584752 60.67673874
24 02 2018 01:30
24 02 2018 01:40
                  1189.208984 7.517597198 1267.042379 59.46279907
24 02 2018 01:50
                  1385.187988 7.846796036 1443.521768 59.61700821
24 02 2018 02:00
                  1341.937988 7.765509129 1398.709932 59.96187973
24 02 2018 02:10
                  1392.844971 7.870670795 1456.827846 60.20800018
24 02 2018 02:20
                  1179.291016 7.428431034 1221.152701 59.93149948
                  1022.909973 7.146029949 1083.104011 61.108181
24 02 2018 02:30
24 02 2018 02:40
                  672.1087036 6.323574066 738.690982 61.69873047
24 02 2018 02:50
                  607.5574951 6.091828823 655.4054529 62.23374176
24 02 2018 03:00
                  624.4157715 6.211877823 697.8299576 63.65047836
24 02 2018 03:10
                  611.161499 6.126976013 667.6666783 65.54768372
24 02 2018 03:20
                  584.2988281 6.045268059 639.3657952 68.3338089
24 02 2018 03:30
                  508.1726074 5.862292767 579.5114282 71.97770691
24 02 2018 03:40
                  433.0537109 5.565495968 488.0398119 71.90643311
24 02 2018 03:50
                  387.3897095 5.241640091 397.6566657 77.38414001
24 02 2018 04:00
                  799.1940918 6.760400772 911.68125
                                                       75.18839264
24 02 2018 04:10
                  771.8695068 6.198423862 692.9986774 77.23581696
24 02 2018 04:20
                  916.611084 6.709024906 890.2126466 76.70838165
24 02 2018 04:30
                  567.5639038 5.552772999 484.3098892 79.98708344
24 02 2018 04:40
                  216.9427032 3.96675992 121.7062969 92.85767365
                  150.4174042 3.657036066 71.56086548 98.60188293
24 02 2018 04:50
24 02 2018 05:00
                  169.1941071 3.927289963 114.4626128 99.36460876
24 02 2018 05:10
                  158.134201 3.862457037 103.1051964 85.97556305
24 02 2018 05:20
                  155.302597 3.809664965 94.35386727 90.94313812
24 02 2018 05:30
                  5.981334209 3.621373892 66.77240561 118.3701019
24 02 2018 05:40
                  33.69781113 4.014531136 125.7025996 127.9246979
24 02 2018 05:50
                        4.022127151 127.1190889 143.9170074
24 02 2018 06:00
                        4.713551998 268.6215354 151.3728943
                  0
24 02 2018 06:10
                        3.008399963 16.27444358 151.2967987
                  0
24 02 2018 06:20
                        3.453069925 46.92002619 150.5776062
                  0
24 02 2018 06:30
                        2.087085962 0
                                           171.5455017
24 02 2018 06:40
                        2.118340969 0
                                           184.2299042
24 02 2018 06:50
                        3.165869951 23.5088657 182.0330048
                  0
24 02 2018 07:00
                                           199.7830963
                  0
                        2.621493101 0
24 02 2018 07:10
                        1.507925987 0
                                           202.8993988
24 02 2018 07:20
                  0
                        0.696677327 0
                                           219.4848938
                        0.635325372 0
24 02 2018 07:30
                                           216.8161011
24 02 2018 07:40
                        1.036965013 0
                                           195.0473938
24 02 2018 07:50
                        1,287783027 0
                                           140.710907
24 02 2018 08:00
                        1.522658944 0
                                           144.3842926
                  0
24 02 2018 08:10
                                           177.3240051
                  0
                        2.102193117 0
24 02 2018 08:20
                                           198.179306
                  0
                        2.749667883 0
                                           196.581604
24 02 2018 08:30
                  0
                        2.391634941 0
                  0
24 02 2018 08:40
                        1.43078804 0
                                           192.434906
24 02 2018 08:50
                        1.057137012 0
                                           224.8103027
24 02 2018 09:00
                  0
                        2.185440063 0
                                           203.0379028
24 02 2018 09:10
                                           185.7131042
                  0
                        2.84685111 0
24 02 2018 09:20
                  0
                        3.186471939 24.74884478 175.6791992
24 02 2018 09:30
                  0
                        2.781874895 0
                                           174.2483063
24 02 2018 09:40
                  0
                        2.491858959 0
                                           178.7998962
24 02 2018 09:50
                        2.300277948 0
                                           179.6663055
24 02 2018 10:00
                        1.916867971 0
                                           194.6739044
24 02 2018 10:10
                        2.885401011 0
                                           215.3928986
                  0
24 02 2018 10:20
                                           222.5046997
                  0
                        2.440196037 0
24 02 2018 10:30
                  0
                        2.333148956 0
                                           206.7490997
24 02 2018 10:40
                  0
                        2.428570986 0
                                           205.0337067
24 02 2018 10:50
                  0
                        2.496257067 0
                                           202.0505066
24 02 2018 11:00
                        2.226258039 0
                                           178.6157074
```

```
24 02 2018 11:10 0
                       2.233103037 0
                                         176.7758026
24 02 2018 11:20 0
                       1.428089023 0
                                         180.6226959
24 02 2018 11:30 0
                                         186,3695068
                       1.607041001 0
24 02 2018 11:40 0
                       1.659549952 0
                                         171.7245026
24 02 2018 11:50 0
                       1.73684299 0
                                         150.4664001
24 02 2018 12:00 0
                       1.969678044 0
                                         129.1799927
24 02 2018 12:10 0
                       2.128357887 0
                                         104.8612976
24 02 2018 12:20
                       3.521059036 54.3940907 86.03788757
                 0
24 02 2018 12:30
                 0
                       2.416625023 0
                                         71.29460907
24 02 2018 12:40
                 58.10612869 3.425231934 44.07319766 65.53305054
24 02 2018 12:50
                 36.53396988 3.307914972 33.43820953 66.91737366
24 02 2018 13:00 7.123126984 2.840400934 0
                                               75.12458038
24 02 2018 13:10
                 39.82299042 3.208420038 26.14455421 74.31448364
24 02 2018 13:20 3.472202063 2.554594994 0
                                               74.68707275
24 02 2018 13:30 34.8684082 3.147773981 22.47573935 74.37274933
24 02 2018 13:40 140.1085052 4.22104311 165.1727151 71.30117035
24 02 2018 13:50 356.6825867 5.494628906 467.4561355 72.08273315
24 02 2018 14:00 664.1121216 6.48986721 802.0330348 72.83194733
24 02 2018 14:10 426.0007935 5.868815899 581.6212565 77.21108246
24 02 2018 14:20
                 318.8222046 5.383552074 436.1169412 74.35391998
24 02 2018 14:30
                 278.9743042 5.158086777 375.8070389 67.96859741
                 292.7182922 5.026431084 342.5194857 68.07694244
24 02 2018 14:40
                 286.7820129 5.34850502 426.456889 74.46917725
24 02 2018 14:50
24 02 2018 15:00
                 328.1585999 5.341394901 424.5102269 73.87857819
24 02 2018 15:10
                 278.2204895 5.207960129 388.7799047 76.26007843
24 02 2018 15:20 249.8345947 5.112761021 364.1920682 79.5815506
24 02 2018 15:30 25.49040985 2.797580004 0
                                               89.88072968
24 02 2018 15:40 156.9019012 4.371891022 195.3645093 77.62210846
24 02 2018 15:50 260.8020935 5.11439991 364.6091746 74.37045288
24 02 2018 16:00 477.3156128 6.092623234 655.681128 71.58371735
24 02 2018 16:10 685.4055786 6.428273201 778.2184779 73.61920166
24 02 2018 16:20
                 798.4749146 6.389737129 763.5308818 65.3970108
24 02 2018 16:30
                 683.163208 6.342218876 745.6427927 58.60054016
                 1102.879028 7.192625046 1105.112865 63.48448944
24 02 2018 16:40
24 02 2018 16:50 917.4536133 6.59594202 844.0337483 76.21227264
24 02 2018 17:00 532.7451782 5.836540222 571.2250472 76.91742706
24 02 2018 17:10 635.303894 6.318941116 736.9694019 75.00182343
24 02 2018 17:20
                 796.9337158 6.555842876 828.0081765 73.93431091
24 02 2018 17:30 1377.11499 7.531909943 1274.427845 72.03761292
24 02 2018 17:40
                 1559.599976 8.050411224 1558.995984 68.72532654
24 02 2018 17:50 1487.983032 7.922589779 1485.983499 67.96260071
24 02 2018 18:00 1407.427979 7.704582214 1365.63585 66.43209839
24 02 2018 18:10 1781.06897 8.188440323 1639.684121 61.9484787
24 02 2018 18:20
                 1826.977051 8.350837708 1736.847457 65.95591736
                 1646.141968 8.091732025 1582.957318 63.42998123
24 02 2018 18:30
                 1242.792969 7.39848423 1205.969598 62.74708939
24 02 2018 18:40
24 02 2018 18:50
                 1107.082031 7.069721222 1047.685945 66.71363068
24 02 2018 19:00
                 960.7294922 6.738070965 902.3122583 69.3156662
24 02 2018 19:10 884.0681152 6.635748863 860.1224505 69.14147186
24 02 2018 19:20
                 819.1782837 6.487513065 801.1151357 68.80493927
24 02 2018 19:30
                 887.0388794 6.62447691 855.5483851 66.90654755
24 02 2018 19:40
                 836.8574829 6.593101978 842.8927611 65.94690704
24 02 2018 19:50
                 809.9105225 6.556353092 828.2109473 64.22972107
24 02 2018 20:00 899.9998779 6.772778034 916.8997067 64.81764984
24 02 2018 20:10
                 1058.737061 7.043326855 1035.612765 62.68112183
24 02 2018 20:20 1168.829956 7.299397945 1156.671853 62.98410034
24 02 2018 20:30 1197.685059 7.325723171 1169.63057 63.64519119
24 02 2018 20:40 1182.410034 7.319155216 1166.38817 62.97988892
24 02 2018 20:50 1120.536011 7.133993149 1077.46599 63.06956863
```

```
24 02 2018 21:00 1145.069946 7.203616142 1110.347388 63.93751144
24 02 2018 21:10
                 1145.015991 7.207355022 1112.131802 64.67302704
24 02 2018 21:20
                 1184.449951 6.877693176 961.8677168 63.65914917
24 02 2018 21:30
                 1035.577026 6.624035835 855.3696952 64.32824707
24 02 2018 21:40
                 767.6187134 5.860006809 578.7731064 61.59642029
24 02 2018 21:50
                 501.5281067 5.136013985 370.1301483 58.74237823
24 02 2018 22:00
                 342.5201111 4.622304916 248.3460355 47.09201813
24 02 2018 22:10 514.0499268 5.152272224 374.3077796 48.32754135
24 02 2018 22:20
                 669.1583252 5.579449177 492.1479122 42.49225998
                 420.0278931 5.076200962 354.9426614 42.00917816
24 02 2018 22:30
24 02 2018 22:40
                 820.28302
                             6.104070187 659.6609168 39.84848022
24 02 2018 22:50
                 1244.207031 6.974689007 1004.635286 34.00540161
24 02 2018 23:00
                 1668.246948 8.818404198 2027.646479 34.99959946
24 02 2018 23:10
                 1559.667969 8.514268875 1836.799955 35.44490051
24 02 2018 23:20
                 1776.875
                             9.487870216 2462.024225 37.03731918
24 02 2018 23:30
                 1562.217041 8.502784729 1829.711112 38.99097061
24 02 2018 23:40
                 1387.651978 8.082244873 1577.440874 39.73146057
24 02 2018 23:50
                 1658.854004 8.774236679 1999.592092 38.32313156
25 02 2018 00:00 1639.786987 8.980539322 2131.452998 38.57315063
                 1654.417969 9.137244225 2232.816177 39.6916008
25 02 2018 00:10
25 02 2018 00:20
                 1570.031006 8.974212646 2127.380262 40.43383026
25 02 2018 00:30
                 1677.954956 9.611825943 2526.139066 38.90275955
25 02 2018 00:40
                 1670.350952 10.08426952 2843.39513 39.24185944
25 02 2018 00:50
                 1625.892944 10.16631031 2891.248546 38.79801178
25 02 2018 01:00
                 1693.110962 11.01690006 3278.376293 39.36392975
25 02 2018 01:10 1491.365967 10.07703972 2839.080333 40.37940979
25 02 2018 01:20
                 1540.772949 10.63092041 3125.949347 40.15615082
25 02 2018 01:30 1199.755005 10.05556011 2826.166678 39.42375183
25 02 2018 01:40 963.6370239 9.557901382 2485.115017 38.63093948
25 02 2018 01:50
                 767.4650269 9.185743332 2264.354231 38.80511093
25 02 2018 02:00 955.4987183 10.0712204 2835.595708 39.4623909
25 02 2018 02:10 806.0999146 9.550818443 2479.64917 38.78100967
25 02 2018 02:20
                 621,4052124 8,90982914 2086,031637 38,82902908
25 02 2018 02:30
                 426.6564026 7.965918064 1510.540157 39.35366058
25 02 2018 02:40 482.131012 8.355116844 1739.437974 40.64210892
                 550.0974731 8.695285797 1949.712204 40.56568146
25 02 2018 02:50
                 683.7543945 9.584231377 2505.275676 38.33300018
25 02 2018 03:00
25 02 2018 03:10
                 651.3671875 9.759032249 2632.939341 38.26351929
25 02 2018 03:20
                 600.1389771 10.13619041 2873.915318 37.94153976
25 02 2018 03:30
                 398.1491089 8.963712692 2120.624705 37.59994888
25 02 2018 03:40 403.8595886 9.12226963 2223.092978 43.68138123
25 02 2018 03:50 382.7745056 9.36220932 2379.610611 44.37438965
25 02 2018 04:00 364.0668945 9.066768646 2187.120087 44.37062073
25 02 2018 04:10
                 310.4623108 8.107592583 1592.19937 44.05786133
25 02 2018 04:20
                 264.2098083 7.094474792 1059.091001 44.60210037
25 02 2018 04:30
                 260.9002991 6.867535114 957.4558122 42.4245491
                 273.0732117 7.726627827 1377.55136 44.17036057
25 02 2018 04:40
25 02 2018 04:50
                 284.4034119 8.550065041 1858.955646 43.59440994
25 02 2018 05:00 270.7427063 8.437312126 1789.480548 44.3695488
25 02 2018 05:10
                 262.6478882 8.447504997 1795.722741 43.38623047
25 02 2018 05:20
                 256.9772949 8.685206413 1943.370251 44.3554306
25 02 2018 05:30
                 254.7021027 9.14708519 2239.209869 43.98012161
25 02 2018 05:40
                 205.2351074 8.199888229 1646.457237 44.20941925
25 02 2018 05:50
                 208.559906 8.755450249 1987.691179 44.3207283
25 02 2018 06:00
                 209.8307953 9.226337433 2290.802955 44.3196106
25 02 2018 06:10 182.240799 9.076154709 2193.196219 44.04943848
25 02 2018 06:20 157.2476044 9.004260063 2146.737562 44.98078918
25 02 2018 06:30 137.142807 9.205581665 2277.274197 44.04109955
25 02 2018 06:40 115.3912964 8.221019745 1658.990954 43.36980057
```

```
25 02 2018 06:50 105.6230011 8.246629715 1674.234697 42.37335968
25 02 2018 07:00 73.70113373 8.064932823 1567.397471 40.34529114
25 02 2018 07:10 48.45275116 7.670446873 1347.304021 37.02452087
25 02 2018 07:20
                 109.5166016 8.303935051 1708.552348 37.81731033
25 02 2018 07:30 81.00009155 7.731863976 1380.390168 37.10074997
25 02 2018 07:40 61.81555176 7.678551197 1351.643216 32.3351593
25 02 2018 07:50
                 78.3866272 8.245150566 1673.352683 31.87472916
25 02 2018 08:00 92.69907379 8.866622925 2058.388913 32.15330887
25 02 2018 08:10 143.2669067 10.87007999 3224.61639 31.96787071
25 02 2018 08:20
                 158.2583008 10.43292999 3033.202949 32.25376129
25 02 2018 08:30
                 209.0372925 10.71354008 3161.639293 32.70315933
25 02 2018 08:40
                 189.9129028 9.365514755 2381.775607 31.49920082
25 02 2018 08:50
                 132.1233978 8.654027939 1923.791719 32.27006149
25 02 2018 09:00
                 92.94193268 7.953611851 1503.545015 32.99541855
25 02 2018 09:10 90.62509155 8.068582535 1569.512335 32.79647064
25 02 2018 09:20 41.84326172 7.474072933 1244.553049 34.69807816
25 02 2018 09:30
                 17.39211082 6.797883034 927.5400866 38.77634048
25 02 2018 09:40 0
                       5.195848942 385.610839 42.44633865
25 02 2018 09:50 0
                       5.77348423 551.2222014 48.15642166
25 02 2018 10:00 0
                       5.224623203 393.1598644 54.08184814
                       5.152003765 374.2386245 37.53668976
25 02 2018 10:10 0
25 02 2018 10:20 67.53250122 7.236721039 1126.213891 38.33813095
25 02 2018 10:30
                 124.1107025 7.164254189 1091.677183 40.84450912
25 02 2018 10:40
                 149.1513062 7.261640072 1138.25729 43.46229172
25 02 2018 10:50
                 120.1846008 6.915102959 978.224581 43.49539948
25 02 2018 11:00 128.4447937 7.192002773 1104.817
                                                     44.04389954
25 02 2018 11:10 152.440094 7.085100174 1054.762272 46.91287994
25 02 2018 11:20 157.8793945 7.071702957 1048.596071 46.20333099
25 02 2018 11:30 190.6499939 7.759131908 1395.227119 47.15393829
                 187.5758057 7.254332066 1134.716341 47.81570816
25 02 2018 11:40
25 02 2018 11:50
                 262.7385864 7.814315796 1425.523937 51.23852158
25 02 2018 12:00
                 194.4194946 5.995646
                                       623.5316116 45.26472855
25 02 2018 12:10
                 209.9633942 6.722630978 895.8682243 42.39445114
25 02 2018 12:20 205.3713074 6.718566895 894.176666 38.99116898
25 02 2018 12:30 218.7812042 6.989777088 1011.39345 40.19549942
25 02 2018 12:40
                 218.2512054 6.738265991 902.3938328 47.09740067
25 02 2018 12:50
                 165.9268951 5.937900066 604.2385397 45.4244194
25 02 2018 13:00
                 127.8989029 5.628502846 506.7369656 41.7457695
25 02 2018 13:10 189.1923065 7.114748955 1068.49213 46.85242081
25 02 2018 13:20 226.9898071 7.630335808 1325.949484 46.75688934
25 02 2018 13:30 195.5742035 6.723527908 896.2418055 47.9504509
25 02 2018 13:40 207.6855011 7.216423988 1116.468018 46.81066132
25 02 2018 13:50 200.7835999 6.961997032 998.9725747 52.86801147
25 02 2018 14:00 200.9617004 6.731975079 899.7647495 58.94736862
25 02 2018 14:10
                 232.9716034 7.378110886 1195.71641 60.38119888
25 02 2018 14:20
                 225.5415955 6.820586205 937.2271036 57.26488113
25 02 2018 14:30 248.1616974 7.055644035 1041.235597 56.19178009
25 02 2018 14:40 268.7260132 7.605559826 1312.86147 56.40546036
25 02 2018 14:50 244.7145996 7.083827019 1054.175281 51.03853989
25 02 2018 15:00
                 198.1291046 6.522733212 814.9119866 51.69264984
25 02 2018 15:10
                 224.8280029 6.973106861 1003.928284 49.45125961
                 311.7601929 8.650735855 1921.727946 58.7923317
25 02 2018 15:20
25 02 2018 15:30
                 297.2424011 8.754226685 1986.916746 62.32170105
25 02 2018 15:40 260.1828918 8.077331543 1574.587435 65.40139771
25 02 2018 15:50 225.1219025 7.556157112 1287.002062 63.99111176
25 02 2018 16:00 191.1734924 7.19917202 1108.228881 61.60171127
25 02 2018 16:10 186.3699036 8.303801537 1708.472065 60.7870903
25 02 2018 16:20 121.4307022 7.699034214 1362.646573 63.76205063
25 02 2018 16:30 117.4291 8.62637043 1906.474679 67.07615662
```

```
25 02 2018 16:40 73.81381226 8.241724014 1671.310179 71.41271973
                 47.15702057 8.178546906 1633.840415 71.56246185
25 02 2018 16:50
25 02 2018 17:00
                  46.48614883 8.703736305 1955.033928 69.11309052
25 02 2018 17:10
                 64.11580658 9.456157684 2441.207755 68.72351074
25 02 2018 17:20
                  37.09389877 9.191984177 2268.417491 69.51342773
25 02 2018 17:30
                  67.23255157 10.69244003 3152.688593 68.67888641
                  45.8348999 10.51220036 3071.585243 69.20776367
25 02 2018 17:40
                  48.16537857 11.42514992 3402.768792 68.72057343
25 02 2018 17:50
25 02 2018 18:00
                  16.85363007 10.45090961 3042.05764 70.1314621
                  5.571640968 9.750267029 2626.78854 71.58090973
25 02 2018 18:10
25 02 2018 18:20
                  2.226866961 10.8426199 3213.999052 73.53666687
25 02 2018 18:30
                  2.698601007 11.27206039 3360.272791 73.71317291
25 02 2018 18:40
                  0.381332904 10.99676037 3271.29699 73.47988129
25 02 2018 18:50
                        10.15604973 2885.374278 75.07003784
25 02 2018 19:00
                  0
                        9.851836205 2696.482871 75.84723663
25 02 2018 19:10
                  0
                        9.664891243 2565.504638 72.94927216
25 02 2018 19:20
                  0
                        8.899855614 2079.642942 74.05431366
                        8.306729317 1710.232908 73.14983368
25 02 2018 19:30
                  0
                  0
                        7.57278204 1295.668539 77.775383
25 02 2018 19:40
                        7.468635082 1241.748463 76.39940643
25 02 2018 19:50
                  0
                        7.779430866 1406.329853 75.13820648
25 02 2018 20:00
                  0
25 02 2018 20:10
                        8.454224586 1799.842156 77.45806885
                  0
25 02 2018 20:20
                        8.559984207 1865.110742 74.37756348
25 02 2018 20:30
                  0
                        8.866959572 2058.603952 71.68911743
25 02 2018 20:40
                        9.630651474 2540.217681 73.29237366
25 02 2018 20:50
                        9.508564949 2446.665218 74.84493256
25 02 2018 21:00
                        9.313739777 2347.886318 76.00980377
                        9.478962898 2456.17638 73.90202332
25 02 2018 21:10
                  0
                        9.463218689 2445.841811 71.68666077
25 02 2018 21:20
                        9.76994133 2640.558274 76.02069855
25 02 2018 21:30
                  0
                        9.043766975 2172.243216 73.01354218
25 02 2018 21:40
                  0
25 02 2018 21:50
                  0
                        9.373515129 2387.016443 74.25528717
25 02 2018 22:00
                        9.681075096 2577.314516 75.44728851
25 02 2018 22:10
                  0
                        10.01564026 2801.788396 73.48454285
                        9.0206604
25 02 2018 22:20
                  0
                                    2157.318314 75.42077637
                        8.514584541 1836.99494 73.49181366
25 02 2018 22:30
                  0
25 02 2018 22:40
                  0
                        8.376362801 1752.321858 71.6245575
25 02 2018 22:50
                        9.165877342 2251.427342 73.25110626
25 02 2018 23:00
                        8.300861359 1706.704494 70.70276642
                        8.096996307 1586.022125 75.40554047
25 02 2018 23:10
25 02 2018 23:20
                        9.548212051 2477.633287 78.96720123
                        9.22888279 2292.462805 76.78495026
25 02 2018 23:30
                  0
25 02 2018 23:40
                        9.327689171 2357.012001 76.9331131
                  0
25 02 2018 23:50
                  0
                        8.287633896 1698.76152 74.28585052
26 02 2018 00:00
                  0
                        8.569943428 1871.297439 76.04524231
26 02 2018 00:10
                        8.993927956 2140.077225 77.36466217
26 02 2018 00:20
                  0
                        9.198620796 2272.739614 76.98863983
26 02 2018 00:30
                        8.911857605 2087.33156 73.71775055
                  0
26 02 2018 00:40
                  0
                        8.911608696 2087.172039 77.25921631
26 02 2018 00:50
                  0
                        9.285421371 2329.372545 77.27575684
                        9.700153351 2591.120049 78.36353302
26 02 2018 01:00
                  0
26 02 2018 01:10
                        10.20343018 2912.239152 75.92916107
26 02 2018 01:20
                        9.742815018 2621.538772 77.954422
26 02 2018 01:30
                        10.04951954 2822.50949 75.92681885
                  0
26 02 2018 01:40
                        9.946121216 2758.14408
                                               74.04866028
                  0
26 02 2018 01:50
                  0
                        9.769920349 2640.54366 71.83628845
26 02 2018 02:00
                  0
                        10.05580044 2826.311947 74.99384308
                  0
                        10.64101028 3130.400962 76.16017151
26 02 2018 02:10
26 02 2018 02:20
                       9.876926422 2713.173121 73.19384766
```

```
26 02 2018 02:30
                        9.985014915 2782.749441 73.45424652
                  0
                        9.302640915 2340.628212 71.97569275
26 02 2018 02:40
                  0
26 02 2018 02:50
                  0
                        9.64768219 2552.846596 76.9569931
26 02 2018 03:00
                  0
                        10.30064964 2965.307417 76.33281708
26 02 2018 03:10
                        10.94067001 3251.089775 76.68596649
26 02 2018 03:20
                        11.23299026 3348.647204 77.8526535
26 02 2018 03:30
                  0
                        11.60624981 3446.979091 77.81259918
                        11.17020035 3329.281767 78.53781128
26 02 2018 03:40
                  0
26 02 2018 03:50
                  0
                        10.82304955 3206.321865 76.53276825
26 02 2018 04:00
                        10.45180988 3042.498695 75.66306305
                  0
26 02 2018 04:10
                        11.21527004 3343.267633 76.8588562
                  0
26 02 2018 04:20
                        11.06622028 3295.324622 75.66998291
26 02 2018 04:30
                        10.41084957 3022.207745 77.27097321
26 02 2018 04:40
                        10.25146961 2938.803955 77.78536987
26 02 2018 04:50
                        10.22377014 2923.568943 76.27929688
                  0
26 02 2018 05:00
                  0
                        10.42846012 3030.987912 73.86209106
26 02 2018 05:10
                  0
                        9.762908936 2635.651431 78.03341675
26 02 2018 05:20
                  0
                        9.837608337 2686.9266
                                                78,485672
                        10.10805988 2857.480937 80.51553345
26 02 2018 05:30
26 02 2018 05:40
                  0
                        9.83302784 2683.835872 79.521492
26 02 2018 05:50
                        9.524963379 2459.543163 78.01750946
                  0
26 02 2018 06:00
                        8.70615387 1956.55717 83.73091888
                  0
26 02 2018 06:10
                        8.057801247 1563.268846 82.12071228
26 02 2018 06:20
                  0
                        8.215391159 1655.648531 86.07553101
26 02 2018 06:30
                        7.753479958 1392.144458 86.5337677
26 02 2018 06:40
                        7.494034767 1254.88735 84.38559723
26 02 2018 06:50
                        7.620944023 1320.97896 88.68074036
26 02 2018 07:00
                        8.350195885 1736.459036 86.39927673
                  0
26 02 2018 07:10
                        7.833912849 1436.368495 83.96482849
                        8.383358955 1756.572362 91.83410645
26 02 2018 07:20
                  0
                  0
                        8.291300774 1700.961953 96.33299255
26 02 2018 07:30
26 02 2018 07:40
                  0
                        7.473564148 1244.290449 99.07684326
26 02 2018 07:50
                        7.487253189 1251.369624 99.83460999
26 02 2018 08:00
                  0
                        7.072101116 1048.77899 101.1735992
26 02 2018 08:10
                  0
                        7.188848019 1103.317858 98.18975067
                        7.22450304 1120.340453 97.34324646
26 02 2018 08:20
26 02 2018 08:30
                  0
                        7.748684883 1389.53215 102.0662003
26 02 2018 08:40
                        6.612998962 850.9055953 98.35661316
26 02 2018 08:50
                        6.49072504 802.367662 100.4626007
26 02 2018 09:00
                        5.871490002 582.4874388 101.7910004
26 02 2018 09:10
                        5.450067997 454.750097 104.1383972
                        5.040865898 346.1028206 103.9863968
26 02 2018 09:20
                  0
26 02 2018 09:30
                        5.68256712 523.0842918 113.0932007
                  0
26 02 2018 09:40
                  0
                        5.684473991 523.6660613 115.9358978
26 02 2018 09:50
                  0
                        6.283464909 723.863505 115.129097
26 02 2018 10:00
                        6.699886799 886.4263319 119.865799
26 02 2018 10:10
                  0
                        7.479669094 1247.444015 119.8451996
26 02 2018 10:20
                  0
                        7.243650913 1129.554422 122.7057037
26 02 2018 10:30
                  964.5180054 6.892226219 968.2016825 120.7249985
                  521.1635742 5.41943121 446.1186728 115.3881989
26 02 2018 10:40
26 02 2018 10:50
                  322.0592957 4.673309803 259.6123926 103.2006989
26 02 2018 11:00
                  274.3822021 4.523701191 227.0333647 109.530098
26 02 2018 11:10
                  348.5975037 5.010785103 338.6535686 110.9229965
26 02 2018 11:20
                  419.4009094 4.956048012 325.2750119 107.8158035
26 02 2018 11:30
                  686.3599854 6.029708862 634.0574686 110.2219009
26 02 2018 11:40
                  228.4978027 4.338193893 188.5136686 109.6988983
26 02 2018 11:50
                  860.4807129 6.494345188 803.7807278 115.8764038
26 02 2018 12:00 873.4666748 6.627511024 856.7781792 117.5876007
26 02 2018 12:10 1144.317993 7.254723072 1134.905606 122.8249969
```

```
26 02 2018 12:20 1063.754028 7.231520176 1123.711205 122.6966019
26 02 2018 12:30 408.9978943 4.989027977 333.3087059 114.5661011
26 02 2018 12:40
                 727.6599731 6.221189022 701.1849477 116.0958023
26 02 2018 12:50 537.2210083 5.459831238 457.5185191 116.4440002
26 02 2018 13:00 370.4418945 4.842861176 298.3134515 109.9934006
26 02 2018 13:10 469.2828064 5.24434185 398.3728461 109.4148026
                 957.0333252 6.648572922 865.3439875 112.5799026
26 02 2018 13:20
26 02 2018 13:30
                 761.0336914 6.041772842 638.1710798 108.1978989
26 02 2018 13:40
                 1012.846008 6.802643776 929.5663062 108.1797028
26 02 2018 13:50
                 1550.444946 7.823640823 1430.678672 106.9937973
26 02 2018 14:00
                 1247.857056 7.242948055 1129.215306 106.580101
26 02 2018 14:10 1022.734009 6.595676899 843.9271971 107.2241974
26 02 2018 14:20 897.4884033 6.234063148 705.839047 106.827301
26 02 2018 14:30
                 1667.03894 7.971241951 1513.571369 112.5972977
26 02 2018 14:40 2524.24707 10.10313988 2854.582005 113.5137024
26 02 2018 14:50 1581.765015 7.992741108 1525.842565 110.2941971
26 02 2018 15:00
                 1120.081055 7.08734417 1055.797388 106.6713028
26 02 2018 15:10 1314.948975 7.51440382 1265.398338 109.9126968
26 02 2018 15:20 1375.265991 7.316765785 1165.210117 106.7493973
26 02 2018 15:30 1363.802002 7.590051174 1304.709272 109.4217987
26 02 2018 15:40 1275.609009 7.373957157 1193.633493 113.3522034
26 02 2018 15:50 2037.322021 9.139874458 2234.524751 120.1622009
26 02 2018 16:00 2505.928955 9.558553696 2485.617493 118.3151016
26 02 2018 16:10 2449.368896 9.630587578 2540.170107 120.1707001
26 02 2018 16:20 1850.458984 8.494815826 1824.797692 121.2987976
26 02 2018 16:30 1596.092041 7.961015224 1507.751333 133.8439026
26 02 2018 16:40 1629.828003 7.913437843 1480.822556 141.9118958
26 02 2018 16:50 1293.397949 7.428268909 1221.070142 156.1011963
26 02 2018 17:00 1396.619995 7.605904102 1313.042794 168.2465057
26 02 2018 17:10 1257.30603 7.29575491 1154.886345 187.1396942
26 02 2018 17:20 2090.816895 8.876501083 2064.701015 192.7985992
26 02 2018 17:30 2886.891113 10.41534042 3024.454858 194.5959015
26 02 2018 17:40 2534.854004 9.714382172 2601.334763 201.2003021
26 02 2018 17:50 2989.668945 10.46700001 3049.907411 196.0731964
26 02 2018 18:00 3084.126953 10.48390007 3058.076819 194.3827057
26 02 2018 18:10 3373.7229
                            11.48499012 3418.0886
                                                     199.3506927
26 02 2018 18:20
                 3263.133057 11.60000992 3445.561616 199.990799
26 02 2018 18:30 3255.971924 11.18612957 3334.274877 194.3484039
26 02 2018 18:40 3548.9729
                             12.74594975 3592.961171 200.5912933
26 02 2018 18:50 3496.489014 12.3427496 3565.466511 203.9817047
26 02 2018 19:00 3545.315918 12.6085701 3586.352682 208.2386017
26 02 2018 19:10 3535.645996 12.40701008 3571.515562 205.4658966
26 02 2018 19:20 3352.854004 11.77379036 3482.306856 208.1269073
26 02 2018 19:30 3523.532959 12.18325043 3547.613966 211.3209991
26 02 2018 19:40 3533.206055 12.26813984 3557.624397 208.0661926
26 02 2018 19:50 3579.675049 13.48326015 3600 213.7127991
                 3602.188965 13.53837967 3600 217.5357056
26 02 2018 20:00
                 3603.031982 14.59904957 3600 221.227005
26 02 2018 20:10
26 02 2018 20:20 3599.250977 15.04473019 3600 218.5252991
26 02 2018 20:30
                 3590.678955 14.58804035 3600 217.9011993
26 02 2018 20:40
                 3378.737061 12.99075031 3597.918808 217.8529968
26 02 2018 20:50
                 3601.086914 14.35431957 3600 221.7552032
26 02 2018 21:00
                 3542.052002 13.21063042 3600 219.9676971
26 02 2018 21:10
                 3556.073975 13.06548023 3600 217.9956055
26 02 2018 21:20
                 3462.821045 12.31571007 3562.726756 215.0090027
26 02 2018 21:30 3576.784912 12.96667957 3597.812007 214.7725983
26 02 2018 21:40 3590.225098 13.58990955 3600 210.6459045
26 02 2018 21:50 3559.612061 15.5538702 3600 215.9734955
26 02 2018 22:00 3503.370117 15.50963974 3600 214.4250946
```

```
26 02 2018 22:10 3491.691895 15.95324993 3600 215.0361938
                 3518.135986 14.18344021 3600 213.4822998
26 02 2018 22:20
26 02 2018 22:30
                 3591.62207 14.16891956 3600
                                              213.1694031
26 02 2018 22:40
                 3589.625977 14.67450047 3600 215.4942932
26 02 2018 22:50
                 3597.168945 15.27171993 3600
                                              218.5648041
26 02 2018 23:00
                 3570.225098 16.13287926 3600
                                              216.8027039
26 02 2018 23:10
                 3542.264893 14.08609009 3600
                                              217.891098
                 3588.444092 14.87644005 3600
                                              219.6587982
26 02 2018 23:20
26 02 2018 23:30
                 3591.022949 13.90202045 3600 222.9846039
                 3232.251953 13.10534
                                         3600 223,4308014
26 02 2018 23:40
                 2743.862061 10.2943697 2961.961733 227.6977997
26 02 2018 23:50
27 02 2018 00:00 3254.169922 11.34261036 3380.455165 228.4109039
27 02 2018 00:10 3558.268066 13.14834023 3600 227.6304016
27 02 2018 00:20 3055.72998 11.29891014 3368.075868 224.2539978
27 02 2018 00:30 3000.790039 10.8781004 3227.683513 226.9302979
27 02 2018 00:40 3383.572021 12.26154995 3556.889005 230.9008026
27 02 2018 00:50
                 3471.412109 12.21969986 3552.055376 230.7006989
27 02 2018 01:00 3460.659912 11.84998035 3496.670205 234.3703003
27 02 2018 01:10 3020.460938 10.93867016 3250.355857 236.3777008
                 2446.121094 9.553370476 2481.620636 237.5198975
27 02 2018 01:20
27 02 2018 01:30
                 2276.016113 9.426944733 2422.04161 233.6959076
                 2061.967041 8.784960747 2006.394266 239.6396942
27 02 2018 01:40
27 02 2018 01:50
                 2421.208008 9.442353249 2432.149641 245.8569031
27 02 2018 02:00
                 2560.077881 9.864784241 2705.121742 245.8099976
27 02 2018 02:10
                 2360.436035 9.51339817 2450.471012 245.1228027
27 02 2018 02:20
                 2106.480957 9.00713253 2148.589983 248.1903076
27 02 2018 02:30 725.5526123 6.221703053 701.3704329 254.7102966
27 02 2018 02:40 456.2648926 5.429334164 448.8994466 263.4266968
27 02 2018 02:50 551.918396 5.981433868 618.7501695 265.8804016
27 02 2018 03:00 426.045105 5.427989006 448.5212072 269.0598145
27 02 2018 03:10 514.7774048 5.68259716 523.0934542 265.0137939
27 02 2018 03:20
                 379.3680115 5.308497906 415.5604606 256.752594
27 02 2018 03:30
                 476.4891052 5.536099911 479.4448818 258.5203857
27 02 2018 03:40
                 401.2825928 5.449996948 454.7299823 262.0238953
                 534.6914063 5.968617916 614.4570547 265.7623901
27 02 2018 03:50
                 246.9880066 5.060906887 351.1045748 264.8764038
27 02 2018 04:00
                 1.171733975 3.465035915 48.1818215 273.2041931
27 02 2018 04:10
27 02 2018 04:20
                 0
                       4.042558193 130.941867 270.372406
27 02 2018 04:30
                       4.155657768 152.4535163 295.6860962
27 02 2018 04:40
                 0
                       2,436744928 0
                                         307.5663147
27 02 2018 04:50
                       2.50425005 0
                                         311.7286072
                 0
27 02 2018 05:00 0
                       2.020123005 0
                                         274.8435974
27 02 2018 05:10
                       2.248907089 0
                                         243.6851959
                 0
27 02 2018 05:20
                 0
                       4.244307995 169.7505627 219.6820068
27 02 2018 05:30
                 347.3561096 5.653398991 514.2295684 206.9983978
27 02 2018 05:40
                 1345.956055 7.494607925 1255.184983 208.7463074
27 02 2018 05:50
                 1058.098022 8.237659454 1668.888718 220.9804993
27 02 2018 06:00
                 0
                       5.117650986 365.4372247 234.7449036
27 02 2018 06:10
                 0
                       3.492292881 51.14155465 209.3925018
27 02 2018 06:20
                 0
                       4.414413929 204.1004301 199.0404053
27 02 2018 06:30
                 0
                       4.449052811 211.2930662 198.0290985
27 02 2018 06:40
                       4.631590843 250.3846786 180.7843933
27 02 2018 06:50
                       3.777885914 89.30086884 184.6051941
27 02 2018 07:00
                       3.751342058 85.20413693 180.9866943
                 0
27 02 2018 07:10
                       3.381850958 39.88404297 182.0265961
                 0
27 02 2018 07:20
                 0
                       3.992211103 126.5093852 164.8833008
27 02 2018 07:30
                 0
                       4.915093899 315.4116747 161.7675934
27 02 2018 07:40 0
                    4.955470085 325.1349597 163.883194
27 02 2018 07:50 0
                       3.867805958 104.0167651 173.3022003
```

```
27 02 2018 08:00 0
                        1.10976398 0
                                          254.9411011
27 02 2018 08:10
                 0
                        2.949692011 0
                                          188.5108948
27 02 2018 08:20
                       5.842160225 573.0275591 175.3134003
                 0
27 02 2018 08:30 0
                       2.708197117 0
                                        164.7837067
27 02 2018 08:40
                 0
                       7.082613945 1053.616189 184.729599
27 02 2018 08:50
                       8.576209068 1875.19311 192.3721008
                       5.593914032 496.4260843 198.2881927
27 02 2018 09:00
                 0
27 02 2018 09:10
                       6.233644962 705.6875898 211.539093
                 0
27 02 2018 09:20
                  0
                       9.031515121 2164.327026 200.8070068
27 02 2018 09:30
                                    3221.51485 202.4293976
                 0
                       10.86201
27 02 2018 09:40
                       10.40909004 3021.325807 205.1782074
                 0
27 02 2018 09:50
                       10.74398994 3174.360165 209.4687958
27 02 2018 10:00
                       11.78796005 3485.057344 213.8493958
27 02 2018 10:10
                       11.12042046 3313.322118 210.2052002
27 02 2018 10:20
                        11.03724003 3285.432409 208.794693
                 0
27 02 2018 10:30
                 0
                       11.04098034 3286.719765 204.9530029
27 02 2018 10:40
                 0
                       9.92485714 2744.488204 198.7138977
27 02 2018 10:50
                 0
                       8.369326591 1748.050965 197.9738007
27 02 2018 11:00 0
                       10.17416954 2895.726836 202.1867981
27 02 2018 11:10
                       10.1990099 2909.760903 206.9501953
27 02 2018 11:20
                 1716.682983 8.405953407 1770.326044 198.1793976
                 1901.584961 8.185605049 1638.008498 198.9291992
27 02 2018 11:30
                 1531.775024 7.466020107 1240.401393 202.3470001
27 02 2018 11:40
27 02 2018 11:50
                 1843.421997 8.240179062 1670.389601 210.6083069
27 02 2018 12:00
                 1985.046997 8.476467133 1813.501879 207.2955933
27 02 2018 12:10 2394.091064 9.392398834 2399.390693 208.1078949
27 02 2018 12:20 2742.961914 10.16843033 2892.458367 206.9571075
27 02 2018 12:30 2271.38501 9.375199318 2388.119844 209.1589966
27 02 2018 12:40 2072.534912 9.028643608 2162.472499 217.8652039
27 02 2018 12:50 2470.50293 9.781066895 2648.287101 238.4640045
27 02 2018 13:00 2179.602051 9.109380722 2214.729812 236.9611969
27 02 2018 13:10 1137.527954 7.290555954 1152.341523 223.2344971
27 02 2018 13:20 924.7213745 6.939094067 988.805122 215.6092072
27 02 2018 13:30 868.3314819 6.733907223 900.5717339 215.5493927
27 02 2018 13:40 713.8895874 6.150353909 675.8952561 220.1213989
                 789.8505859 6.422980785 776.1917036 209.858902
27 02 2018 13:50
27 02 2018 14:00 970.1010742 6.752315998 908.2823276 211.0975037
                 282.2355957 4.528151989 227.9824199 215.9095001
27 02 2018 14:10
27 02 2018 14:20 114.9001007 3.707808971 78.72937029 252.5531006
27 02 2018 14:30 19.60321045 3.174762964 24.03578235 271.5667114
27 02 2018 14:40 262.2005005 4.593420029 242.0397335 250.7245941
27 02 2018 14:50 829.427124 6.083834171 652.634915 243.3896942
                 1499.48999 7.902767181 1474.816763 246.7438049
27 02 2018 15:00
27 02 2018 15:10 605.2285156 5.634447098 508.5204816 250.105896
27 02 2018 15:20
                 150.7176971 3.173182964 23.94124199 273.415802
27 02 2018 15:30
                       1.797690988 0
                                          271.7470093
27 02 2018 15:40
                 0
                        3.723794937 81.07176687 270.9642029
27 02 2018 15:50
                       4.385004997 198.0477549 272.5046082
                 0
27 02 2018 16:00
                 104.2242966 3.83575511 98.6230918 264.2974854
                  241.0747986 4.616466045 247.0669868 256.4696045
27 02 2018 16:10
27 02 2018 16:20
                 75.35236359 3.509778976 53.10289563 258.8572083
27 02 2018 16:30
                       2.145574093 0
                                          271.7120972
27 02 2018 16:40
                        3.57535696 60.89427327 310.3757019
27 02 2018 16:50
                       3.94877696 118.3750804 306.2695923
                 0
27 02 2018 17:00
                       2.876322031 0
                                          300.8222961
                 0
27 02 2018 17:10
                 0
                       1.688941002 0
                                          278.5600891
27 02 2018 17:20
                 0
                       2.22934103 0
                                          317.8487854
27 02 2018 17:30 0
                    2.875907898 0
1.697512984 0
                       2.875907898 0
                                          332.6767883
27 02 2018 17:40 0
                                         338.5823975
```

```
27 02 2018 17:50 0
                       1.201709032 0
                                        5.959415913
27 02 2018 18:00 0
                       1.496098042 0
                                        78.57492828
27 02 2018 18:10 0
                       1.304046988 0
                                        127.8613968
                                        145.8591003
27 02 2018 18:20 0
                       2.442450047 0
27 02 2018 18:30 0
                       2.993283987 0
                                        158.6284027
27 02 2018 18:40 0
                       4.875311852 305.9483257 216.2333984
27 02 2018 18:50 164.0847015 4.054284096 133.1443929 195.9481049
27 02 2018 19:00 316.4985962 4.881155014 307.331108 198.3159943
27 02 2018 19:10 425.7338867 5.318065166 418.15364
                                                    197.8659058
                 614.9766235 5.95853281 611.0910841 195.3475952
27 02 2018 19:20
27 02 2018 19:30 442.3447876 5.424407959 447.5150581 191.7064972
27 02 2018 19:40 837.8208008 6.678572178 877.6323543 186.8887024
27 02 2018 19:50
                 1025.536987 7.044522762 1036.157842 181.5914001
27 02 2018 20:00
                 1087.603027 7.238953114 1127.289129 175.9859009
27 02 2018 20:10 1330.004028 7.58544302 1302.293
                                                    176.5242004
27 02 2018 20:20 1573 7.875368118 1459.453359 179.8887024
27 02 2018 20:30 1910.097046 8.34608078 1733.969445 180.9745026
27 02 2018 20:40 2425.50293 9.621271133 2533.218255 183.7579041
27 02 2018 20:50 2979.779053 10.97049999 3261.926748 183.4356995
27 02 2018 21:00 3023.248047 10.97021008 3261.822414 185.1412964
27 02 2018 21:10 3489.237061 12.04798031 3529.214653 184.8802032
27 02 2018 21:20 3603.884033 12.73814964 3592.660559 183.4577942
27 02 2018 21:30
                 3603.568115 12.99246979 3597.923293 182.0458984
27 02 2018 21:40
                 3603.512939 13.88990021 3600 182.9732056
27 02 2018 21:50 3603.863037 13.77735996 3600 182.1446991
27 02 2018 22:00 3603.896973 13.6262598 3600 181.4219971
27 02 2018 22:10 3603.831055 13.75284004 3600 178.3005066
27 02 2018 22:20 3603.452881 13.75615025 3600 176.7926941
27 02 2018 22:30 3603.416992 14.16738987 3600 177.8253937
27 02 2018 22:40 3603.162109 14.68614006 3600 179.482193
27 02 2018 22:50 3596.133057 15.11705017 3600 177.990097
27 02 2018 23:00 3513.965088 16.10084915 3600 178.3177032
27 02 2018 23:10 3481.398926 16.98781967 3600 176.5984039
27 02 2018 23:20 3460.667969 17.78741074 3600 179.8710938
27 02 2018 23:30 3460.914063 17.66053963 3600 177.8309937
27 02 2018 23:40
                 3460.641113 17.82899094 3600
                                              176.3919983
27 02 2018 23:50
                 3460.61792 18.00097084 3600
                                              175.5713959
28 02 2018 00:00 3460.383057 18.45051003 3600 175.9593964
28 02 2018 00:10 3460.697998 18.35629082 3600 175.0545959
28 02 2018 00:20 3460.77002 18.89499092 3600 176.5175018
28 02 2018 00:30 3460.133057 18.98226929 3600 179.0263062
28 02 2018 00:40 3460.832031 19.38245964 3600 176.8318024
28 02 2018 00:50 3460.729004 18.61174011 3600 172.5267029
28 02 2018 01:00 3460.670898 18.08243942 3600 173.521698
28 02 2018 01:10 3460.718018 18.26688004 3600 175.1766052
28 02 2018 01:20 3460.699951 18.51258087 3600 174.0285034
28 02 2018 01:30 3461.075928 19.27352905 3600 178.0628052
28 02 2018 01:40 3461.12793 17.57813072 3600 178.3220062
28 02 2018 01:50 3461.324951 18.08694077 3600 177.7122955
28 02 2018 02:00
                 3461.108887 18.2213192 3600
                                              175.7203979
28 02 2018 02:10 3461.14502 18.6814003 3600 172.7283936
28 02 2018 02:20 3460.680908 20.02113914 3600 175.8896027
28 02 2018 02:30 3461.191895 21.28778076 3600 179.4375
28 02 2018 02:40 3461.172119 19.50597954 3600 178.1744995
28 02 2018 02:50 3461.246094 18.88825989 3600 175.5706024
28 02 2018 03:00 3461.103027 17.15175056 3600 174.7642975
28 02 2018 03:10 3461.183105 17.41546059 3600 172.969696
28 02 2018 03:20 3460.976074 17.77869987 3600 174.8565063
28 02 2018 03:30 3461.200928 18.6609993 3600 175.5711975
```

```
28 02 2018 03:40 3461.363037 19.81930923 3600 181.5711975
28 02 2018 03:50 3461.39209 19.77256012 3600 185.2173004
28 02 2018 04:00 3461.044922 17.72454071 3600 182.5054016
28 02 2018 04:10 3461.278076 16.72731972 3600 183.4915924
28 02 2018 04:20 3461.173096 16.32913971 3600 181.7841949
28 02 2018 04:30 3461.037109 14.84078026 3600 183.9134064
28 02 2018 04:40 3472.462891 14.27116966 3600 187.2552948
28 02 2018 04:50 3491.499023 13.15520954 3600 184.289093
28 02 2018 05:00 3494.778076 12.03950024 3527.959159 181.1000061
28 02 2018 05:10 3585.331055 12.50658035 3579.620585 182.723999
28 02 2018 05:20 2121.716064 8.795683861 2013.202018 188.2048035
28 02 2018 05:30 641.0241699 5.884901047 586.8426966 192.5545044
28 02 2018 05:40 1819.983032 8.351973534 1737.534921 183.346405
28 02 2018 05:50 3025.125977 10.7728796 3186.216931 191.5686951
28 02 2018 06:00 3398.221924 11.96512985 3516.42329 203.0765076
28 02 2018 06:10 3201.625977 11.61802006 3449.632682 210.6186981
28 02 2018 06:20 3104.9021 11.08395958 3301.286929 212.8031006
28 02 2018 06:30 3265.146973 11.70773029 3468.999929 223.2357941
28 02 2018 06:40 1879.418945 8.733476639 1973.79619 241.475296
28 02 2018 06:50 3410.658936 12.00981045 3523.467292 227.9931946
28 02 2018 07:00 3056.180908 11.17051983 3329.38245 231.1463013
28 02 2018 07:10 3138.587891 11.7877903 3485.024609 236.722702
28 02 2018 07:20 3377.177002 12.63251972 3587.706444 241.714798
28 02 2018 07:30 3307.104004 11.96683025 3516.69765 231.1300049
                                         3575.271806 225.052002
28 02 2018 07:40 3556.170898 12.45084
28 02 2018 07:50 3540.342041 13.16812992 3600 224.2619934
28 02 2018 08:00 2132.055908 9.130720139 2228.57913 233.8123932
28 02 2018 08:10 1858.685059 8.526971817 1844.652043 228.3789063
28 02 2018 08:20 1793.275024 8.4484272 1796.287892 225.9378052
28 02 2018 08:30 1783.352051 8.135848999 1608.724938 220.3437958
28 02 2018 08:40 1497.509033 7.728682995 1378.665185 216.5287933
28 02 2018 08:50 1933.821045 8.354969978 1739.349039 203.1945038
28 02 2018 09:00 2121.312988 8.693070412 1948.317762 203.0399017
28 02 2018 09:10 1718.536987 8.355365753 1739.588705 202.3818054
28 02 2018 09:20 1276.546021 7.327370167 1170.444614 227.1613007
28 02 2018 09:30 1384.452026 7.397884846 1205.667073 230.7097015
                 1302.494995 7.418715954 1216.212448 239.4389038
28 02 2018 09:40
28 02 2018 09:50
                 1608.30603 8.009048462 1535.182644 247.6277008
28 02 2018 10:00 1993.01001 8.698073387 1951.467226 252.1835022
28 02 2018 10:10 3148.964111 11.11116982 3310.29646 270.6964111
28 02 2018 10:20 2942.624023 10.65692997 3137.371732 267.1724854
28 02 2018 10:30 2551.464111 9.710116386 2598.279702 268.5111084
28 02 2018 10:40 2256.820068 9.31344986 2347.696695 278.5712891
28 02 2018 10:50 2204.529053 9.105833054 2212.428809 281.7862854
28 02 2018 11:00 2345 9.885695457 2718.957908 284.6950989
28 02 2018 11:10 2454.72998 10.72786045 3167.650577 283.5603943
28 02 2018 11:20 2187.396973 9.630001068 2539.733361 287.6306152
28 02 2018 11:30 1475.697021 7.694588184 1360.253779 291.8562012
28 02 2018 11:40 896.9752197 6.405515194 769.5248809 290.5949097
28 02 2018 11:50 524.4196167 5.807536125 561.9739983 274.9515076
28 02 2018 12:00
                 1274.972046 7.326570988 1170.049563 274.1565857
28 02 2018 12:10 1690.166992 8.383910179 1756.907423 274.2800903
28 02 2018 12:20 1151.514038 7.254940987 1135.011096 275.9240112
28 02 2018 12:30 989.7557983 6.865221024 956.4524999 289.7366943
28 02 2018 12:40 360.6328125 5.146519184 372.827072 289.638092
28 02 2018 12:50 319.0365906 5.410511017 443.6213692 290.4931946
28 02 2018 13:00 315.8998108 5.457163811 456.7612978 302.3078918
28 02 2018 13:10 216.5758057 5.08946085 358.2851091 310.3431091
28 02 2018 13:20 3.417191029 3.039307117 17.38143172 322.5242004
```

```
28 02 2018 13:30
                        4.04995203 132.3299529 5.723278046
                  0
28 02 2018 13:40
                        3,382536888 39,94793808 355,2029114
                  0
28 02 2018 13:50
                  0
                        2.681499004 0
                                          20.11096001
28 02 2018 14:00 0
                        3,451042891 46,70854763 6,110560894
                  0
28 02 2018 14:10
                        3.400475979 41.64571209 13.71611023
28 02 2018 14:20
                        3.524816036 54.82866291 27.59979057
28 02 2018 14:30
                  0
                        4.542006016 230.9442849 7.377282143
                  31.32691956 4.982713223 331.764141 12.81280041
28 02 2018 14:40
28 02 2018 14:50
                  45.68296814 5.360332012 429.7047379 14.42191029
28 02 2018 15:00
                                    4.591374874 241.5952259 7.084191799
                  -0.071799859
28 02 2018 15:10
                        3.735409975 82.79934571 344.4273071
                  0
28 02 2018 15:20
                        4.192496777 159.5933611 319.7654114
28 02 2018 15:30
                        3.319674015 34.40488655 3.845696926
28 02 2018 15:40
                        4.376461029 196.2984817 352.2648926
28 02 2018 15:50
                  0
                        4.445591927 210.5712992 19.15193939
28 02 2018 16:00
                  0
                        4.180058956 157.1752293 19.3494606
28 02 2018 16:10
                  0
                        3.78864789 90.99397205 37.19382858
28 02 2018 16:20
                  0
                        3.173120975 23.93754099 34.39707184
                  0
28 02 2018 16:30
                        2.844903946 0
                                          344.8276978
28 02 2018 16:40
                  0
                        3.649427891 70.52221933 30.83160019
28 02 2018 16:50
                        3.532618999 55.73844787 53.86574936
                  0
28 02 2018 17:00
                  0
                        3.062170982 18.29868992 47.8870697
28 02 2018 17:10
                        2.844975948 0
                                          50.75875092
28 02 2018 17:20
                  0
                        2.662322998 0
                                          48.12350082
28 02 2018 17:30
                        3.128920078 21.45507343 40.33385086
28 02 2018 17:40
                        2.763215065 0
                                          34.9709816
28 02 2018 17:50
                        3.928618908 114.7024511 41.16753006
28 02 2018 18:00
                        3.928299904 114.6448538 52.23854065
                  0
28 02 2018 18:10
                  0
                        4.184255123 157.9901747 44.96664047
                        3.630295992 67.95131473 34.63187027
28 02 2018 18:20
                  0
                  0
                        3.632226944 68.2081349 29.76399994
28 02 2018 18:30
                  0
28 02 2018 18:40
                        3.235233068 27.95422591 32.11605072
28 02 2018 18:50
                        3.953341961 119.2158143 25.3819294
28 02 2018 19:00
                  0
                        4.046620846 131.7042635 50.05149841
28 02 2018 19:10
                        5.033030987 344.1558697 41.21385956
                  0
28 02 2018 19:20
                  0
                        4.098436832 141.4946361 34.8228302
28 02 2018 19:30
                  0
                        4.165184021 154.2933826 34.9708786
28 02 2018 19:40
                        4.634645939 251.056607 30.14421082
28 02 2018 19:50
                        5.111174107 363.7883936 39.05619812
28 02 2018 20:00
                        5,629746914 507,1099551 37,23239136
28 02 2018 20:10
                        5.873721123 583.210701 29.56785011
28 02 2018 20:20
                        5.345941067 425.7544031 27.06866074
                  0
28 02 2018 20:30
                  0
                        6.185057163 688.2179401 36.94419098
28 02 2018 20:40
                  0
                        5.456330776 456.5249506 51.24979019
28 02 2018 20:50
                  0
                        4.51107502 224.3475943 37.71310043
28 02 2018 21:00
                        4.44700098 210.8650729 40.31061935
28 02 2018 21:10
                  0
                        5.328856945 421.0881904 39.06052017
28 02 2018 21:20
                        4.325987816 186.0475181 40.25154114
                  0
28 02 2018 21:30
                  0
                        4.211466789 163.2964301 38.49150848
28 02 2018 21:40
                        4.281435966 177.1145204 53.71231079
28 02 2018 21:50
                        4.873703003 305.5680242 30.47360992
28 02 2018 22:00
                        5.129181862 368.3809483 27.54517937
28 02 2018 22:10
                        6.506640911 808.5910194 32.2390213
28 02 2018 22:20
                        5.560797215 486.6605338 30.15633011
28 02 2018 22:30
                  0
                        5.845129013 573.9810552 28.07122993
28 02 2018 22:40
                  0
                        5.811078072 563.0991174 26.77197075
28 02 2018 22:50
                  0
                       6.029695034 634.0527623 23.02795982
28 02 2018 23:00
                  0
                      5.897406101 590.920635 27.19915962
                       5.687528133 524.5985944 27.23539925
28 02 2018 23:10 0
```

```
28 02 2018 23:20
                  0
                        4.01817894 126.3825135 24.59333038
28 02 2018 23:30
                  0
                        3.883169889 106.6605608 19.56226921
28 02 2018 23:40
                  0
                        5.280743122 408.08198
                                                 29.27833939
28 02 2018 23:50
                  0
                        4.531401157 228.6760102 36.11381149
                  0
01 03 2018 00:00
                        4.684497833 262.1063485 51.16915894
01 03 2018 00:10
                        4.377705097 196.5529345 37.42440033
01 03 2018 00:20
                  0
                        3.969310999 122.183057 26.12659073
                        4.819458961 292.8539125 37.09207916
01 03 2018 00:30
                  0
01 03 2018 00:40
                  0
                        5.434207916 450.2712378 32.17700958
01 03 2018 00:50
                        5.599915981 498.20707
                  0
                                                 28.51563072
01 03 2018 01:00
                        5.864426136 580.2009552 29.60561943
                  0
01 03 2018 01:10
                        5.481966019 463.8270337 28.33992004
01 03 2018 01:20
                        6.521284103 814.3416035 17.44741058
01 03 2018 01:30
                        6.490253925 802.1838767 20.35493088
01 03 2018 01:40
                        5.627789021 506.5230177 13.61201954
                  0
01 03 2018 01:50
                  0
                        6.324977875 739.2130885 13.62992954
01 03 2018 02:00
                  0
                        6.398347855 766.7986785 15.33036995
01 03 2018 02:10
                  0
                        6.573998928 835.2417804 14.82542992
                        5.205535889 388.1445988 17.14012909
01 03 2018 02:20
01 03 2018 02:30
                  0
                        5.354609013 428.1316007 21.3938694
                        3.922697067 113.6358964 24.99312973
01 03 2018 02:40
                  0
01 03 2018 02:50
                        4.314087868 183.6510266 20.75826073
                  0
01 03 2018 03:00
                  0
                        4.138027191 149.060115 17.09543037
01 03 2018 03:10
                  0
                        3.667910099 73.0614352 26.41452026
01 03 2018 03:20
                        3.935327053 115.9174014 11.82252026
01 03 2018 03:30
                        3.350229979 37.02024234 30.64281082
01 03 2018 03:40
                        4.177535057 156.6854803 48.95587158
01 03 2018 03:50
                        3.680429935 74.8125497 38.61148071
                  0
                        3.645895958 70.04319773 61.27421188
01 03 2018 04:00
                  0
01 03 2018 04:10
                  0
                        3.434448004 45.00194156 48.56887054
01 03 2018 04:20
                        3.466011047 48.28565722 50.19766998
                  0
01 03 2018 04:30
                  0
                        3.990525961 126.1881651 45.18238068
01 03 2018 04:40
                        3.803633928 93.38248496 46.21902084
01 03 2018 04:50
                  0
                        4.069724083 136.0541513 15.97883987
01 03 2018 05:00
                  0
                        4.180127144 157.1884651 24.47193909
01 03 2018 05:10
                  0
                        4.345411777 189.9758297 21.90685081
01 03 2018 05:20
                  0
                        3.98368597 124.8889981 35.03499985
01 03 2018 05:30
                        3.824911118 96.83542391 46.22673035
01 03 2018 05:40
                        3.386888027 40.35500452 50.10317993
01 03 2018 05:50
                        3,117675066 20,8733958 45,44493866
01 03 2018 06:00
                        3.779800892 89.60078302 53.01408005
01 03 2018 06:10
                        3.512397051 53.40076465 49.68439865
                  0
01 03 2018 06:20
                        3.55685997 58.62696115 56.42823029
                  0
01 03 2018 06:30
                  0
                        2.768383026 0
                                           54.86968994
01 03 2018 06:40
                  0
                        3.555183887 58.42421631 72.92475891
01 03 2018 06:50
                        2.467669964 0
                                           80.05375671
01 03 2018 07:00
                  0
                        1.502225995 0
                                           70.05116272
01 03 2018 07:10
                  0
                        1.335093975 0
                                           20.89188004
01 03 2018 07:20
                  0
                        1.507913947 0
                                           44.47737122
01 03 2018 07:30
                  0
                        1.495918989 0
                                           65.81115723
01 03 2018 07:40
                  0
                        1.522688031 0
                                           68.47799683
01 03 2018 07:50
                        0.914517283 0
                                           87.36715698
01 03 2018 08:00
                        0.700203478 0
                                           62.35406113
01 03 2018 08:10
                                           62.71846008
                  0
                        1.109379053 0
01 03 2018 08:20
                  0
                        1.434409022 0
                                           170.0066071
01 03 2018 08:30
                  0
                        1.746626973 0
                                           176.0767059
01 03 2018 08:40
                  0
                        2.519784927 0
                                           144.5903015
01 03 2018 08:50
                  0
                        2.992203951 0
                                           197.0908966
01 03 2018 09:00
                        2.85493803 0
                                           188.2411041
```

```
01 03 2018 09:10
                  0
                        2.366580009 0
                                          201.0072021
01 03 2018 09:20
                        3.333187103 35.54307897 213.6165924
                  0
01 03 2018 09:30
                  0
                        3,677329063 74,37650284 205,7559967
01 03 2018 09:40
                  0
                        3.722282887 80.84845782 199.6152039
01 03 2018 09:50
                        4.541118145 230.754114 214.0959015
                        4.108724117 143.4532874 214.4813995
01 03 2018 10:00
01 03 2018 10:10
                        3.635420084 68.63413734 200.4765015
01 03 2018 10:20
                        3.344899893 36.55327145 189.0690002
                  0
01 03 2018 10:30
                  0
                       4.075325012 137.1123981 193.2523041
01 03 2018 10:40
                        3.003505945 16.11317358 183.8968964
01 03 2018 10:50
                       4.45563221 212.6671284 189.8912964
01 03 2018 11:00
                       4.670608997 259.0115793 195.5802002
01 03 2018 11:10
                        4.191781998 159.4541859 197.3401031
01 03 2018 11:20
                        5.131960869 369.091994 199.2165985
01 03 2018 11:30
                       4.757643223 278.6167066 194.8401031
01 03 2018 11:40
                        4.211825848 163.3666961 203.6067963
01 03 2018 11:50
                  0
                       4.027423859 128.1083336 190.2380066
01 03 2018 12:00
                  0
                        3.798028946 92.48494215 195.983902
01 03 2018 12:10
                        3.60788393 65.01411557 200.1685028
                        3.127506018 21.38081533 199.9730072
01 03 2018 12:20
01 03 2018 12:30
                        3.309792995 33.59111186 200.7306976
                  0
01 03 2018 12:40
                  0
                        2.91533494 0
                                          187.6325073
01 03 2018 12:50
                       4.361929893 193.332795 173.2537994
01 03 2018 13:00
                  0
                       4.440526962 209.5162588 178.7026062
01 03 2018 13:10
                       4.19259882 159.6132321 190.4902039
01 03 2018 13:20
                       3.591486931 62.91612494 200.5487061
01 03 2018 13:30
                       4.589199066 241.1226101 189.5381927
01 03 2018 13:40
                       4.261725903 173.1962339 182.9138947
01 03 2018 13:50
                       4.509977818 224.1146588 185.1790924
                  0
01 03 2018 14:00
                  0
                       4.506061077 223.2837285 183.1325073
01 03 2018 14:10
                  0
                       5.141982079 371.6612035 186.8800049
                  0
                       5.747825146 543.1976655 182.6378021
01 03 2018 14:20
01 03 2018 14:30
                       5.373491764 433.3329738 183.4351044
01 03 2018 14:40
                  0
                       5.018233776 340.4916999 190.2153931
01 03 2018 14:50
                       5.482956886 464.1104804 196.3321075
                  0
                       5.693935871 526.5580662 196.3130035
01 03 2018 15:00
                  0
                       6.016439915 629.5509517 196.2059937
01 03 2018 15:10
                 0
01 03 2018 15:20
                       5.75818491 546.4295933 194.3551025
01 03 2018 15:30
                       5.654818058 514.6584477 199.9539032
01 03 2018 15:40
                       6.354059219 750.0770909 203.2684021
01 03 2018 15:50
                       7.569488049 1293.948508 205.7687073
01 03 2018 16:00 137.5783997 8.194876671 1643.490688 199.6759033
01 03 2018 16:10
                 284.2168884 8.584049225 1880.071449 200.1694031
01 03 2018 16:20
                 396.6679077 8.67669487 1938.019541 201.2303925
                 725.6403809 9.194405556 2269.994282 203.5567017
01 03 2018 16:30
01 03 2018 16:40
                 1528.517944 9.330274582 2358.703787 205.7207031
01 03 2018 16:50
                 1821.39502 9.299724579 2338.72149 208.824707
01 03 2018 17:00
                 1731.375
                             8.673816681 1936.211185 210.1060028
                 1947.654053 9.237607002 2298.153182 212.0554962
01 03 2018 17:10
01 03 2018 17:20
                 2061.914063 9.655900002 2558.904067 213.5473938
01 03 2018 17:30
                 2111.23999 9.439748764 2430.44089 209.4680939
                             9.441122055 2431.341869 208.0222931
01 03 2018 17:40
                 2147.1521
01 03 2018 17:50
                 2277.9021
                              9.661714554 2563.175815 203.7037964
01 03 2018 18:00
                2512.01709 9.889401436 2721.395165 201.2978973
01 03 2018 18:10 2713.668945 10.59867001 3111.54494 198.4602966
01 03 2018 18:20 2848.50293 11.0479002 3289.093154 199.8746948
01 03 2018 18:30 2560.510986 10.22572994 2924.654198 199.5397034
01 03 2018 18:40 2604.457031 10.18402958 2901.319299 201.8134003
01 03 2018 18:50 2786.439941 10.38185978 3007.568043 204.709198
```

```
2886.14209 10.41866016 3026.112411 202.9911041
01 03 2018 19:00
                 3228.114014 11.03386974 3284.269703 201.8442993
01 03 2018 19:10
01 03 2018 19:20
                 3298.464111 11.35653019 3384.315571 205.0209045
01 03 2018 19:30
                 3451.975098 11.75566006 3478.734332 207.2848969
01 03 2018 19:40
                 3225.177002 11.21907043 3344.427015 210.565506
01 03 2018 19:50
                 3199.35791 11.15165043 3323.397827 209.6587982
                 3107.228027 11.04689026 3288.747435 207.4835968
01 03 2018 20:00
                 3329.319092 11.63078976 3452.481856 208.6033936
01 03 2018 20:10
01 03 2018 20:20
                 3529.600098 12.04831028 3529.26326 208.9501038
01 03 2018 20:30
                 3600.906982 12.47171974 3576.956728 208.2418976
01 03 2018 20:40
                 3572.626953 12.99907017 3597.936618 207.2082977
01 03 2018 20:50
                 3603.386963 13.09140015 3600 211.9698944
01 03 2018 21:00
                 3602.930908 12.7426796 3592.836226 214.1083069
01 03 2018 21:10
                 3603.429932 12.76089954 3593.512431 216.2082062
01 03 2018 21:20
                 3602.925049 12.92584038 3597.442339 212.3713074
01 03 2018 21:30
                 3599.208984 13.55333042 3600 208.8755035
01 03 2018 21:40
                 3543.699951 13.43873024 3600 206.5357971
01 03 2018 21:50
                 3499.864014 13.67728996 3600 205.6139069
01 03 2018 22:00
                 3486.509033 13.82124043 3600 202.3728027
                 3460.383057 13.91246033 3600 197.5722961
01 03 2018 22:10
01 03 2018 22:20
                 3460.043945 14.56830025 3600 197.5809021
                 3460.64209 14.18955994 3600 194.2779999
01 03 2018 22:30
01 03 2018 22:40
                 3460.476074 14.22039032 3600
                                               196.4640045
01 03 2018 22:50
                 3460.370117 14.3476696 3600
                                               195.3999939
01 03 2018 23:00
                 3460.644043 14.77987003 3600 193.3648987
01 03 2018 23:10
                 3460.38501 15.17757034 3600
                                               192.0301971
01 03 2018 23:20
                 3460.126953 15.17123032 3600
                                               192.9862976
01 03 2018 23:30
                 3460.62207 14.66211987 3600
                                               193.3898926
                 3460.684082 14.55245018 3600
01 03 2018 23:40
                                               194.9725952
01 03 2018 23:50
                 3460.427002 15.37493992 3600
                                               197.7718048
02 03 2018 00:00
                 3460.383057 15.85091019 3600 202.1286926
02 03 2018 00:10
                 3461.041016 15.98087978 3600 204.2765961
02 03 2018 00:20
                 3460.718018 15.74158001 3600
                                               202,6069031
02 03 2018 00:30
                 3460.714111 15.12320995 3600
                                               200.0079041
                 3460.849121 15.51348972 3600
02 03 2018 00:40
                                               200.6878052
02 03 2018 00:50
                 3460.876953 16.00551033 3600
                                               203.0330963
02 03 2018 01:00
                 3460.543945 16.05448914 3600
                                               203.1053009
02 03 2018 01:10
                 3460.558105 15.59527016 3600
                                               201.6338043
02 03 2018 01:20
                 3460.937988 15.24118996 3600
                                               199.3453064
02 03 2018 01:30
                 3461.035889 15.45952034 3600
                                               196.0814056
02 03 2018 01:40
                 3460.860107 15.95621967 3600
                                               196.7984924
02 03 2018 01:50
                 3460.669922 16.03923035 3600
                                               196.6497955
02 03 2018 02:00
                 3460.87207 15.60358047 3600
                                               197.0543976
02 03 2018 02:10
                 3460.854004 14.62543011 3600
                                               199.8789063
02 03 2018 02:20
                 3460.667969 15.2736702 3600 199.7606049
02 03 2018 02:30
                 3460.468994 15.35153008 3600
                                              199.5312042
02 03 2018 02:40
                 3460.945068 15.1609602 3600
                                               199.9658966
                 3460.967041 15.17226982 3600
                                               198.6481934
02 03 2018 02:50
02 03 2018 03:00
                 3460.787109 15.79386997 3600
                                               198.9904022
                                               198.8829041
02 03 2018 03:10
                 3460.958984 16.43935966 3600
02 03 2018 03:20
                 3460.931885 16.32279968 3600
                                               196.7201996
02 03 2018 03:30
                 3460.779053 16.02437019 3600
                                               198.6578979
02 03 2018 03:40
                 3461.087891 15.59910011 3600
                                               199.429306
02 03 2018 03:50
                 3460.979004 15.64556026 3600
                                               196.4385071
02 03 2018 04:00
                 3461.23291 16.10313988 3600
                                               197.3197021
02 03 2018 04:10
                 3461.104004 15.79146004 3600
                                               195.831604
02 03 2018 04:20
                 3461.457031 15.53079987 3600 194.1687012
02 03 2018 04:30 3460.840088 16.01917076 3600 198.9376984
02 03 2018 04:40 3460.908936 16.02584076 3600 200.7126007
```

```
02 03 2018 04:50 3461.349121 16.59267044 3600
                                               202.3428955
02 03 2018 05:00 3461.61499 16.78125954 3600 201.0957947
                 3461.540039 16.33766937 3600 197.7868042
02 03 2018 05:10
02 03 2018 05:20 3461.016113 16.98263931 3600 198.3894958
02 03 2018 05:30 3461.175049 17.2702198 3600 198.1492004
02 03 2018 05:40
                 3461.2771
                            17.41704941 3600 198.6707001
                 3461.233887 17.22425079 3600 199.0653076
02 03 2018 05:50
                 3461.934082 16.72020912 3600 196.7675018
02 03 2018 06:00
02 03 2018 06:10 3462.76001 16.56809998 3600 195.6558075 02 03 2018 06:20 3476.51001 15.86835003 3600 194.3128967
02 03 2018 06:30 3461.812012 16.0627594 3600 192.5677948
02 03 2018 06:40 3465.291016 15.19449997 3600 192.3917999
02 03 2018 06:50 3470.687988 15.77493
                                         3600 192.7451019
02 03 2018 07:00 3508.393066 15.33763027 3600 193.6925049
02 03 2018 07:10 3528.531006 14.87040997 3600 194.3717041
02 03 2018 07:20 3545.196045 14.44871044 3600 196.1873016
02 03 2018 07:30 3593.86499 14.97749996 3600 195.3040009
02 03 2018 07:40 3533.302002 14.52171993 3600 194.8336945
02 03 2018 07:50 3555.058105 14.00380039 3600 195.2254944
02 03 2018 08:00 3558.073975 13.85126972 3600 194.9452972
02 03 2018 08:10
                 3561.995117 12.43023014 3573.542643 190.0151062
                 3519.260986 13.07299995 3600 189.3907928
02 03 2018 08:20
02 03 2018 08:30
                 3298.12207 12.31632042 3562.789878 188.0231018
02 03 2018 08:40
                 3576.197998 13.11787033 3600 187.9503937
02 03 2018 08:50 3501.241943 12.31398964 3562.548512 190.110199
02 03 2018 09:00 3531.514893 12.90563011 3597.171377 194.8766022
02 03 2018 09:10 3508.718018 12.73213005 3592.422467 193.2624969
02 03 2018 09:20 3472.138916 12.15270042 3543.723939 191.5503998
02 03 2018 09:30 3510.736084 12.78822041 3594.435534 193.183197
02 03 2018 09:40 3571.641113 12.90157032 3597.109898 191.6098022
02 03 2018 09:50 3458.447998 12.25306988 3555.932404 191.6338959
02 03 2018 10:00 2959.049072 11.03983974 3286.327525 188.1710968
02 03 2018 10:10 2908.678955 11.24818993 3353.208344 192.664093
02 03 2018 10:20 3122.678955 11.83045006 3493.087716 191.5924072
02 03 2018 10:30 2905.909912 10.97889996 3264.941266 188.9631042
02 03 2018 10:40 3348.910889 11.63276005 3452.918718 188.4998016
                 2042.970947 8.78321743 2005.288074 191.0289001
02 03 2018 10:50
02 03 2018 11:00
                 2647.506104 10.34597015 2989.120313 190.7156067
02 03 2018 11:10 3197.572998 11.43062973 3404.201404 191.9322052
02 03 2018 11:20 3032.511963 10.70940018 3159.891937 190.779007
02 03 2018 11:30 2929.072021 10.61594963 3119.296122 189.199707
02 03 2018 11:40 3217.355957 11.23519039 3349.310458 188.5789948
02 03 2018 11:50 2170.351074 9.078469276 2194.695047 184.1307068
02 03 2018 12:00 2835.138916 10.53695011 3083.22388 190.2064972
02 03 2018 12:10 3361.7771
                            11.98384953 3519.416241 192.3840942
02 03 2018 12:20
                 3326.534912 11.71862984 3471.25075 195.1508026
02 03 2018 12:30
                 2644.14209 10.1905899 2905.024279 199.9851074
02 03 2018 12:40
                 2832.829102 10.52655029 3078.353143 200.1062927
02 03 2018 12:50 2556.149902 9.872247696 2710.076396 199.6045074
02 03 2018 13:00 2795.851074 10.52390957 3077.1118
                                                     199.1829987
02 03 2018 13:10
                 2711.410889 10.21920967 2921.039201 198.4452057
02 03 2018 13:20 3419.514893 11.91413021 3507.961355 201.5596008
02 03 2018 13:30 2993.068115 10.9370203 3249.749683 205.0238037
02 03 2018 13:40 2849.2771
                             10.62693977 3124.185922 204.6380005
02 03 2018 13:50
                 2258.836914 9.348712921 2370.772664 201.491806
02 03 2018 14:00 2834.906006 10.38897991 3011.18522 203.2454071
02 03 2018 14:10 3097.660889 11.09897995 3306.280591 207.5681
02 03 2018 14:20 467.4078064 12.70571041 3591.31453 215.3524017
02 03 2018 14:30 0 12.85468006 3596.228391 216.8862
```

```
14.15851974 3600 216.9954071
02 03 2018 14:40
                 0
                        14.04152966 3600
02 03 2018 14:50
                 0
                                         215.4855042
02 03 2018 15:00
                       14.12362957 3600 214.7039948
                 0
02 03 2018 15:10
                 979.6243286 14.54724979 3600 208.5469971
                  3470.465088 15.40466022 3600 205.2662048
02 03 2018 15:20
02 03 2018 15:30
                  3466.623047 16.48834038 3600
                                              202.4405975
02 03 2018 15:40
                  3494.841064 15.58036995 3600
                                               201.1732025
                  3462.75293 15.71403027 3600
02 03 2018 15:50
                                               198.6455994
02 03 2018 16:00
                 3462.822021 15.4751997 3600
                                               198.6228943
                  3463.860107 16.17122078 3600
                                               197.820694
02 03 2018 16:10
02 03 2018 16:20
                  3461.491943 16.52960968 3600
                                               195.4971008
02 03 2018 16:30
                 3461.570068 16.80463028 3600
                                               193.3108978
02 03 2018 16:40
                 3461.779053 16.68795013 3600
                                               192.8567963
02 03 2018 16:50
                 3462.059082 15.64682007 3600
                                               192.7662048
                 3462.10791 16.14937019 3600
02 03 2018 17:00
                                               194.9880981
02 03 2018 17:10
                 3461.676025 16.38373947 3600
                                               193.5513
02 03 2018 17:20
                 3461.581055 16.37338066 3600
                                               191.7758026
02 03 2018 17:30
                 3461.991943 16.89226913 3600
                                               191.9290924
02 03 2018 17:40
                 3462.041016 16.9258194 3600
                                               194.0715942
02 03 2018 17:50
                 3461.919922 17.78121948 3600
                                               195.0370941
                 3461.575928 16.96162987 3600
02 03 2018 18:00
                                               188.7519989
02 03 2018 18:10
                 3461.669922 17.78350067 3600
                                                185.9828033
                                                188.0634003
02 03 2018 18:20
                  3461.824951 19.14051056 3600
02 03 2018 18:30
                  3461.998047 18.90129089 3600
                                                187.7238007
02 03 2018 18:40
                 3461.856934 17.58349037 3600
                                               183.995697
02 03 2018 18:50
                 3461.721924 18.55950928 3600
                                                183.9217072
02 03 2018 19:00
                 3461.423096 18.95669937 3600
                                               185.1573029
02 03 2018 19:10
                 3461.436035 18.82626915 3600
                                               185.3000031
02 03 2018 19:20
                 3461.718994 17.62727928 3600
                                               184.4542999
                  3461.926025 16.7868309 3600
                                               185.3054962
02 03 2018 19:30
02 03 2018 19:40
                 3462.13208 16.00037956 3600
                                               185.6123047
02 03 2018 19:50
                  3462.271973 16.71095085 3600
                                               189.5153961
02 03 2018 20:00
                  3461.730957 15.75047016 3600
                                               191.8898926
02 03 2018 20:10
                 3462.342041 16.2130394 3600
                                               194.6300049
                 3467.008057 15.82201958 3600
                                               197.1822968
02 03 2018 20:20
                  3465.595947 15.57938004 3600
02 03 2018 20:30
                                                196.0630035
02 03 2018 20:40
                  3461.593994 15.95493984 3600
                                               192.7868958
02 03 2018 20:50
                  3461.891113 16.4389801 3600
                                               192.0942993
02 03 2018 21:00
                 3461.603027 17.49015045 3600
                                               194.7133026
02 03 2018 21:10
                 3461.547119 18.34572983 3600
                                               196.5919037
02 03 2018 21:20
                 3461.675049 19.14151955 3600
                                               201.0269012
02 03 2018 21:30
                 3462.654053 18.00126076 3600
                                               203.7169952
02 03 2018 21:40
                  3464.725098 16.70935059 3600
                                               199.3047028
02 03 2018 21:50
                 3482.462891 15.77435017 3600
                                               197.7200012
02 03 2018 22:00
                 3485.809082 14.93082047 3600
                                               195.1338959
02 03 2018 22:10
                 3472.419922 16.77825928 3600
                                               199.0632019
02 03 2018 22:20
                 3464.180908 16.51423073 3600
                                               198.4037933
                 3472.106934 16.23555946 3600
                                               196.5946045
02 03 2018 22:30
02 03 2018 22:40
                 3471.691895 15.73937988 3600
                                                196.6340942
                                                192.7079926
02 03 2018 22:50
                  3476.163086 14.98596954 3600
02 03 2018 23:00
                  3462.637939 16.31380081 3600
                                               191.001297
02 03 2018 23:10
                  3462.058105 16.67469978 3600
                                               191.9743958
02 03 2018 23:20
                  3462.012939 17.23856926 3600
                                               188.2162018
02 03 2018 23:30
                 3462.072998 17.37277031 3600
                                               187.7266998
02 03 2018 23:40
                 3462.404053 17.75276947 3600
                                               187.3126068
02 03 2018 23:50
                 3462.075928 17.79431915 3600
                                               189.7958984
03 03 2018 00:00
                 3461.310059 17.18486023 3600
                                               192.5522003
03 03 2018 00:10 3461.810059 16.81135941 3600
                                               188.274704
03 03 2018 00:20 3461.915039 16.55920982 3600
                                               184.7648926
```

```
03 03 2018 00:30
                 3462.047119 16.98160934 3600
                                                185.4763031
03 03 2018 00:40
                  3462.009033 16.78869057 3600
                                                189.217804
03 03 2018 00:50
                  3461.446045 15.53783035 3600
                                                191.6949005
                                                193.1793976
03 03 2018 01:00
                  3461.853027 16.36870003 3600
03 03 2018 01:10
                  3461.645996 17.65777969 3600
                                                192.3002014
03 03 2018 01:20
                  3462.074951 18.48111916 3600
                                                191.4481049
03 03 2018 01:30
                  3461.77002 18.05500031 3600
                                                190.3710022
03 03 2018 01:40
                  3461.537109 18.28792953 3600
                                                191.0782013
03 03 2018 01:50
                  3461.733887 18.38260078 3600
                                                189.4848022
                                                190.8303986
03 03 2018 02:00
                  3461.860107 19.37449074 3600
03 03 2018 02:10
                  3462.1521
                              19.69168091 3600
                                                192.3995972
                  3462.034912 19.40957069 3600
03 03 2018 02:20
                                                193.321701
03 03 2018 02:30
                  3461.687012 19.31011963 3600
                                                193.2478943
03 03 2018 02:40
                  3461.366943 19.59973907 3600
                                                194.2807007
03 03 2018 02:50
                  3462.022949 20.19400024 3600
                                                197.1486969
03 03 2018 03:00
                  3461.955078 20.36763
                                          3600
                                                195.8437042
03 03 2018 03:10
                  3461.930908 19.81409073 3600
                                                196.457901
03 03 2018 03:20
                  3461.738037 19.50760078 3600
                                                198.344696
                  3461.709961 19.48295975 3600
03 03 2018 03:30
                                                200.3744049
03 03 2018 03:40
                  3496.556885 18.73879051 3600
                                                201.3110046
03 03 2018 03:50
                  3558.849121 19.8819294 3600
                                                201.9512024
                  3461.579102 20.07088089 3600
                                                204.9172058
03 03 2018 04:00
03 03 2018 04:10
                  3461.868896 21.24315071 3600
                                                207.4161072
03 03 2018 04:20
                  3461.554932 20.53470993 3600
                                                207.9324036
03 03 2018 04:30
                  3461.797119 20.91691971 3600
                                                206.7667999
03 03 2018 04:40
                  3461.804932 20.4184494 3600
                                                206.0666962
03 03 2018 04:50
                  3461.676025 20.15060997 3600
                                                203.4900055
03 03 2018 05:00
                  3461.829102 19.64505005 3600
                                                204.9613037
                  3461.573975 19.43224907 3600
03 03 2018 05:10
                                                203.1322937
                              18.75229073 3600
03 03 2018 05:20
                  3462.4021
                                                202.4828033
                  3462.187012 18.65876961 3600
                                                200.9228973
03 03 2018 05:30
03 03 2018 05:40
                  3462.197021 19.00008011 3600
                                                198.8462067
03 03 2018 05:50
                  3462,677979 18,63961029 3600
                                                199.7770996
03 03 2018 06:00
                  3462.535889 17.72001076 3600
                                                197.6566925
                  3462.343994 18.17152977 3600
03 03 2018 06:10
                                                196.9848938
03 03 2018 06:20
                  3462.434082 17.89849091 3600
                                                193.4801025
03 03 2018 06:30
                  3506.219971 16.49188995 3600
                                                188.9479065
03 03 2018 06:40
                  3601.934082 17.15225983 3600
                                                189.8367004
03 03 2018 06:50
                  3601.86499 17.08939934 3600
                                                187.7046051
03 03 2018 07:00
                  3601.250977 17.82184982 3600
                                                187.9172974
03 03 2018 07:10
                  3601.697021 19.13524055 3600
                                                190.7241974
03 03 2018 07:20
                  3586.155029 18.92325974 3600
                                                190.0518951
03 03 2018 07:30
                  3462.025879 17.8536396 3600
                                                194.2158966
                                                199.8576965
03 03 2018 07:40
                  3462.281982 18.57298088 3600
03 03 2018 07:50
                  3462.363037 19.84630013 3600
                                                200.9340057
03 03 2018 08:00
                  3462.405029 18.21696091 3600
                                                202.5388947
                  3462.488037 18.01844025 3600
03 03 2018 08:10
                                                203.6651001
                  3499.625977 19.36590958 3600
03 03 2018 08:20
                                                202.3636017
                  3517.72998 19.25152016 3600
03 03 2018 08:30
                                                203.4333954
03 03 2018 08:40
                  3461.861084 19.53236961 3600
                                                204.7749023
03 03 2018 08:50
                  3463.23999 17.62495995 3600
                                                209.0334015
03 03 2018 09:00
                  3482.512939 16.41587067 3600
                                                215.233902
03 03 2018 09:10
                  3521.316895 18.3517704 3600
                                                217.5576019
03 03 2018 09:20
                  3474.2229
                              20.43840981 3600
                                                217.4248047
03 03 2018 09:30
                  3475.51001 20.85214996 3600
                                                219.8014984
03 03 2018 09:40
                  3462.580078 22.24537086 3600
                                                216.0048981
03 03 2018 09:50
                  3528.508057 20.29846001 3600
                                                210.6750031
03 03 2018 10:00
                  3462.226074 17.05084991 3600
                                                206.1087952
03 03 2018 10:10 3462.379883 19.48879051 3600
                                                207.9900055
```

```
03 03 2018 10:20 3463.230957 17.84968948 3600 208.2897949
                 3463.206055 20.22448921 3600 211.8538055
03 03 2018 10:30
                 3466.179932 20.65612984 3600 218.1011963
03 03 2018 10:40
03 03 2018 10:50 3474.256104 20.0874691 3600 215.0661926
03 03 2018 11:00 3472.787109 19.94426918 3600 218.8477936
03 03 2018 11:10 3514.87207 16.78482056 3600 220.3417053
                 3529.697021 16.04582977 3600 224.2310944
03 03 2018 11:20
03 03 2018 11:30
                 3319.753906 14.42018986 3600
                                              241.0874939
                                              250.3959045
03 03 2018 11:40
                 3591.7771
                           16.09506989 3600
                 3577.674072 15.80020046 3600
                                              251.4398041
03 03 2018 11:50
03 03 2018 12:00
                 3596.860107 16.44922066 3600
                                              250.0307007
03 03 2018 12:10
                 3598.49292 15.33541965 3600 252.1941986
03 03 2018 12:20
                 3557.106934 14.12343979 3600 252.1154938
03 03 2018 12:30
                 3405.866943 12.69962978 3591.044982 258.2987976
03 03 2018 12:40 3587.585938 15.23206997 3600 265.461792
03 03 2018 12:50 3594.371094 16.23707962 3600
                                              261.2619019
03 03 2018 13:00 3599.897949 14.83775043 3600 258.4703064
03 03 2018 13:10 3597.014893 14.93270016 3600 261.5704041
03 03 2018 13:20 3601.850098 15.64898968 3600 258.8674927
03 03 2018 13:30 3540.020996 16.40648079 3600 260.0036011
03 03 2018 13:40 3569.76001 13.89414024 3600 255.341095
                 3593.941895 15.61588955 3600
03 03 2018 13:50
                                              253.5130005
03 03 2018 14:00
                 3535.891113 13.70310974 3600
                                              258.1394958
                                              253.466095
03 03 2018 14:10
                 3584.248047 14.17959976 3600
03 03 2018 14:20
                 3555.371094 13.60112
                                         3600 243.9577942
03 03 2018 14:30
                 3589.51001 13.91818047 3600 254.3000031
03 03 2018 14:40 3600.961914 14.39066982 3600 255.364502
03 03 2018 14:50 3600.697021 15.22577953 3600 257.1495972
03 03 2018 15:00 3602.504883 14.82761955 3600 254.4380035
03 03 2018 15:10 3572.398926 13.80550003 3600 254.8930054
03 03 2018 15:20 3602.583008 14.90275955 3600 256.7156067
03 03 2018 15:30 3597.179932 13.1964798 3600 252.6329041
03 03 2018 15:40 3514.729004 12.05463028 3530.190686 255.1735992
03 03 2018 15:50 3592.829102 13.13529968 3600 251.6437988
03 03 2018 16:00 3593.888916 12.91399956 3597.290672 247.7247009
03 03 2018 16:10 3548.789063 12.55113029 3582.754844 247.986496
03 03 2018 16:20
                 3582.537109 12.75164032 3593.17486 248.3181
03 03 2018 16:30
                 3542.118896 12.53328991 3581.53593 246.5648041
03 03 2018 16:40
                 3577.816895 13.15808964 3600 244.6950073
03 03 2018 16:50
                 3584.35791 13.76875019 3600 246.5924988
03 03 2018 17:00 3601.209961 14.53244972 3600 248.4940948
03 03 2018 17:10 3589.062988 13.7649498 3600 245.1544037
03 03 2018 17:20 3272.968018 12.06826019 3532.167854 242.7144928
03 03 2018 17:30 3276.88208 11.70503998 3468.440982 238.0464935
03 03 2018 17:40 3576.329102 12.57993031 3584.620911 234.8480988
03 03 2018 17:50
                 3602.966064 14.23153019 3600 230.4600983
                            14.92024994 3600 227.3968964
03 03 2018 18:00
                 3602.7771
                 3602.73999 15.41843033 3600 223.5133972
03 03 2018 18:10
03 03 2018 18:20
                 3602.826904 16.11594009 3600 222.5563049
03 03 2018 18:30
                 3602.437988 16.34070015 3600 223.5534973
03 03 2018 18:40
                 3602.712891 15.55558014 3600 220.6903992
03 03 2018 18:50
                 3603.176025 14.1993103 3600 215.3386993
03 03 2018 19:00
                 3603.437012 14.42335033 3600 213.0151978
03 03 2018 19:10
                 3603.129883 14.61781979 3600 209.2621002
03 03 2018 19:20
                 3603.054932 15.69192028 3600
                                              210.2205963
03 03 2018 19:30
                 3602.937012 16.79972076 3600 211.0164948
03 03 2018 19:40
                 3603.103027 16.46715927 3600 211.1132965
03 03 2018 19:50 3602.60791 16.2436409 3600 212.3540955
03 03 2018 20:00 3602.978027 16.27524948 3600 213.7241974
```

```
03 03 2018 20:10
                 3603.022949 16.8705101 3600
                                               215.0276031
                 3602.897949 17.34577942 3600
03 03 2018 20:20
                                               214.2079926
03 03 2018 20:30
                 3603.263916 17.14312935 3600
                                               213.3784027
03 03 2018 20:40
                 3603.206055 16.7895298 3600 210.4824066
03 03 2018 20:50
                 3602.885986 16.72105026 3600 207.0673065
03 03 2018 21:00
                  3603.212891 16.67675018 3600 207.733902
03 03 2018 21:10
                 3602.851074 17.20038033 3600
                                               208.2648926
03 03 2018 21:20
                 3602.667969 16.88022995 3600
                                               208.697998
03 03 2018 21:30
                 3602.620117 17.00731087 3600
                                               205.5805969
                  3602.790039 16.34837914 3600
                                               206.485199
03 03 2018 21:40
                 3602.720947 16.66904068 3600
03 03 2018 21:50
                                               210.3069
03 03 2018 22:00
                 3602.416016 15.76422977 3600
                                               210.3670959
03 03 2018 22:10
                  3602.407959 14.9682703 3600
                                               213.6311035
03 03 2018 22:20
                 3602.895996 14.84514046 3600
                                               215.0265961
03 03 2018 22:30
                 3602.922119 15.21669006 3600
                                               217.7604065
03 03 2018 22:40
                 3603.248047 14.12485981 3600 214.8684998
03 03 2018 22:50
                 3556.468994 12.66466045 3589.38875 215.886795
03 03 2018 23:00
                 3582.718994 12.70098019 3591.105315 219.1018982
03 03 2018 23:10
                 3447.384033 12.02363014 3525.57678 212.8506012
                 2847.954102 10.28495979 2956.927451 197.7931976
03 03 2018 23:20
                 3282.812988 11.53271961 3429.800865 187.7630005
03 03 2018 23:30
                 3603.108887 15.57427025 3600 191.497406
03 03 2018 23:40
03 03 2018 23:50
                  3603.070068 17.02457047 3600
                                               195.5187073
04 03 2018 00:00
                 3603.091064 15.94528961 3600
                                               194.610199
04 03 2018 00:10
                 3603.113037 16.68242073 3600 196.7080994
04 03 2018 00:20
                 3602.936035 17.6578598 3600
                                               194.7501984
04 03 2018 00:30
                 3602.822021 17.80068016 3600
                                               193.3565979
04 03 2018 00:40
                 3602.897949 18.19868088 3600
                                               196.2550049
                 3602.791992 18.47683907 3600
04 03 2018 00:50
                                               198.7266998
04 03 2018 01:00
                 3602.826904 18.82958984 3600
                                               197.4020996
                 3602.76709 19.27467918 3600 199.6273041
04 03 2018 01:10
04 03 2018 01:20
                 3602.761963 19.54092026 3600 202.5953064
04 03 2018 01:30
                  3602.822021 18.83806992 3600
                                               203.1717987
                                               206.7731934
04 03 2018 01:40
                 3602.50708 19.38298035 3600
                 3602.793945 18.45158958 3600
04 03 2018 01:50
                                               205.9915924
04 03 2018 02:00
                  3602.897949 18.28638077 3600
                                               207.9781952
04 03 2018 02:10
                  3602.998047 17.75258064 3600
                                               208.5395966
04 03 2018 02:20
                 3603.299072 17.08337975 3600
                                               203.9035034
04 03 2018 02:30
                 3603.272949 17.65159035 3600
                                               198.4421997
04 03 2018 02:40
                 3602.808105 17.74856949 3600
                                               192.418396
                 3602.446045 19.16007996 3600
04 03 2018 02:50
                                               198.1118927
04 03 2018 03:00
                 3602.4729
                             19.65316963 3600
                                               200.3869934
04 03 2018 03:10
                 3602.733887 19.55555916 3600
                                               202.6508026
                                               206.1551056
04 03 2018 03:20
                 3602.850098 19.09305954 3600
04 03 2018 03:30
                 3603.376953 17.51721001 3600
                                               205.5391998
04 03 2018 03:40
                 3603.188965 16.63740921 3600
                                               209.8860931
04 03 2018 03:50
                 3602.831055 17.32920074 3600
                                               206.2207031
                                               204.9842072
04 03 2018 04:00
                 3602.522949 17.5503006 3600
                                               204.8457031
04 03 2018 04:10
                 3602.476074 18.57761002 3600
04 03 2018 04:20
                  3602.673096 18.57728958 3600
                                               203.2514038
                  3602.520996 19.0035305 3600
04 03 2018 04:30
                                               203.6889954
04 03 2018 04:40
                  3602.893066 18.02383041 3600
                                               208.9172974
04 03 2018 04:50
                  3602.803955 16.65884018 3600
                                               212.4694061
04 03 2018 05:00
                 3602.831055 17.24056053 3600
                                               209.1679993
04 03 2018 05:10
                 3602.657959 16.57407951 3600
                                               208.8822937
04 03 2018 05:20
                 3602.993896 16.53640938 3600
                                               209.1524963
04 03 2018 05:30
                 3603.250977 16.10990906 3600 209.6537933
04 03 2018 05:40
                 3603.125977 16.17727089 3600 211.925293
04 03 2018 05:50 3602.612061 16.28370094 3600 207.6703949
```

```
04 03 2018 06:00
                 3602.918945 16.8478508 3600
                                                207.8533936
04 03 2018 06:10
                  3602.780029 17.50101089 3600
                                                208.5509033
04 03 2018 06:20
                  3560.87207 16.61128998 3600
                                                204,4622955
04 03 2018 06:30
                 3461.212891 17.85605049 3600
                                                206.5426025
04 03 2018 06:40
                  3461.298096 17.80789948 3600
                                                208.1410065
04 03 2018 06:50
                  3461.740967 18.08267021 3600
                                                204.1779022
04 03 2018 07:00
                  3461.320068 17.83568954 3600
                                                199.1923065
                  3461.437988 17.55182076 3600
04 03 2018 07:10
                                                199.3283997
                  3479.12793 15.90021038 3600
04 03 2018 07:20
                                                203.9329071
04 03 2018 07:30
                                                207.4741974
                  3468.835938 18.14801979 3600
04 03 2018 07:40
                  3559.436035 17.89307022 3600
                                                210.7796936
04 03 2018 07:50
                  3497.709961 18.0709095 3600
                                                211.8567047
04 03 2018 08:00
                  3509.676025 16.99654961 3600
                                                214.1880951
04 03 2018 08:10
                 3547.52002 16.39002037 3600
                                                212.0478973
04 03 2018 08:20
                  3508.937988 16.41764069 3600
                                                212.8618011
04 03 2018 08:30
                  3581.091064 14.50131035 3600
                                                212.8834076
04 03 2018 08:40
                  3475.089111 15.13525009 3600
                                                205.6291962
04 03 2018 08:50
                  3529.738037 15.80821991 3600
                                                209.9965973
                  3469.647949 17.66674995 3600
04 03 2018 09:00
                                                214.0326996
                  3505.748047 19.30481911 3600
04 03 2018 09:10
                                                217.6824036
04 03 2018 09:20
                  3466.145996 20.6819191 3600
                                                218.6479034
                  3467.995117 19.84314919 3600
04 03 2018 09:30
                                                219.4822998
04 03 2018 09:40
                  3469.840088 18.87161064 3600
                                                221.2126007
                                                220.3171997
04 03 2018 09:50
                  3486.330078 17.93572998 3600
04 03 2018 10:00
                  3465.281982 19.40910912 3600
                                                223.1851044
04 03 2018 10:10
                  3466.717041 18.65671921 3600
                                                222.5361938
04 03 2018 10:20
                 3475.590088 18.41958046 3600
                                                226.2519073
                 3476.849121 18.02773094 3600
04 03 2018 10:30
                                                225.6006012
                 3489.894043 16.25873947 3600
04 03 2018 10:40
                                                227.0993958
                  3487.562012 16.63208008 3600
04 03 2018 10:50
                                               224.8199005
04 03 2018 11:00
                 3527.047119 14.61312008 3600
                                               225.1416931
04 03 2018 11:10
                  3488.284912 15.90332985 3600 219.8287048
04 03 2018 11:20
                  3484.428955 12.91359997 3597.285205 242.1352997
04 03 2018 11:30
                 3521.846924 13.62024975 3600 245.3237
04 03 2018 11:40
                  3510.0979
                              13.39838982 3600
                                                255.0713959
                  3543.438965 14.67687035 3600 260.765686
04 03 2018 11:50
                  1878.557983 8.849251747 2047.300328 299.5971985
04 03 2018 12:00
                  285.6556091 4.884496212 308.1229086 309.9953003
04 03 2018 12:10
04 03 2018 12:20
                 81.74162292 3.709146023 78.92371926 312.5033875
04 03 2018 12:30
                 116.3637009 4.302465916 181.3179081 316.7724915
                 257.6524048 4.773499012 282.2433936 335.3067017
04 03 2018 12:40
04 03 2018 12:50
                 64.14347076 3.608483076 65.09159075 336.5025024
04 03 2018 13:00
                 48.35242081 3.509937048 53.12084897 343.199707
04 03 2018 13:10
                 137.5592041 4.179427147 157.0526004 322.5155945
04 03 2018 13:20
                  395.9359131 5.273557186 406.1564382 319.6221008
04 03 2018 13:30
                  110.2197037 4.134768009 148.4344655 342.7419128
                 148.9550018 4.36307621 193.5663212 355.3570862
04 03 2018 13:40
                 173.2527008 4.298028946 180.4290972 5.398706913
04 03 2018 13:50
04 03 2018 14:00
                 215.8269043 4.554071903 233.5334518 8.953462601
04 03 2018 14:10
                  507.4908142 5.727752209 536.966018 346.6802979
04 03 2018 14:20
                  379.9367065 5.547708988 482.8295244 2.600922108
04 03 2018 14:30
                  562.2440796 6.398737907 766.9468964 343.3804016
04 03 2018 14:40
                  373.6489868 5.349211216 426.650477 356.6817017
04 03 2018 14:50
                 360.4880066 5.342138767 424.7136821 5.743267059
04 03 2018 15:00
                 222.9855957 4.416197777 204.4691501 5.572756767
04 03 2018 15:10
                 206.2740021 6.161272049 679.7582556 23.68806076
04 03 2018 15:20
                 982.0479126 7.766693115 1399.357081 11.53711033
04 03 2018 15:30 494.593689 5.711150169 531.8421508 17.53356934
04 03 2018 15:40 448.1954956 5.860414982 578.9048989 16.68471909
```

```
04 03 2018 15:50 411.995697 5.762475014 547.7711226 14.33257961
04 03 2018 16:00 534.300293 6.089579105 654.6251253 354.8418884
04 03 2018 16:10 436.3244019 5.642549992 510.9571596 4.43447113
04 03 2018 16:20 378.1805115 5.385237217 436.5841397 7.954823017
04 03 2018 16:30 84.59654999 4.83757782 297.0775068 33.00418854
04 03 2018 16:40
                        4.578092098 238.7146514 21.46430969
04 03 2018 16:50
                 191.6667023 4.750178814 276.9153235 4.18106699
                 87.35472107 3.8561759
04 03 2018 17:00
                                         102.0406025 5.410109997
                 24.03959084 3.562956095 59.3681602 27.65671921
04 03 2018 17:10
04 03 2018 17:20
                 4.133257866 2.999368906 0
                                                0.290497214
04 03 2018 17:30
                 2.759129047 3.169384003 23.71556332 14.02194023
04 03 2018 17:40
                 157.2814026 4.43641901 208.6616605 59.57403183
04 03 2018 17:50
                 331.3483887 5.249164104 399.6526468 53.29713058
04 03 2018 18:00
                 393.3241882 5.391849995 438.4199286 60.39656067
04 03 2018 18:10 545.0355225 6.062763214 645.3655132 66.90292358
04 03 2018 18:20 683.6928711 6.546649933 824.3597022 59.72941971
04 03 2018 18:30 828.6914063 6.770843983 916.0830863 59.20531845
04 03 2018 18:40 658.5341797 6.270430088 719.0821856 63.7740593
04 03 2018 18:50 650.7952271 6.263239861 716.4525596 67.7387085
                 666.9041138 6.400680065 767.6851529 67.16368103
04 03 2018 19:00
04 03 2018 19:10
                 579.9031982 6.087887764 654.0388298 68.21276855
                 463.1680908 5.733911991 538.8740571 68.02993774
04 03 2018 19:20
04 03 2018 19:30
                  285.3757019 4.998878956 335.7242444 73.33087921
04 03 2018 19:40
                 324.0181885 5.226784229 393.7295882 70.58894348
04 03 2018 19:50
                 301.5422974 4.970376015 328.7551804 79.39199829
04 03 2018 20:00
                 45.04854965 3.650315046 70.64285424 105.884697
04 03 2018 20:10
                 0.104332797 3.094788074 19.75200071 90.25982666
04 03 2018 20:20
                 0
                        2.349606991 0
                                         128.8412018
04 03 2018 20:30
                        3.350253105 37.02227838 177.3571014
                 0
04 03 2018 20:40
                 0
                        2.332500935 0
                                         196.8753967
                       3.051024914 17.84108059 200.7779999
04 03 2018 20:50
                 0
04 03 2018 21:00 0
                       2.250197887 0
                                         179.9156952
04 03 2018 21:10
                       2.199789047 0
                 0
                                         190.302597
04 03 2018 21:20
                       2.304003
                                         202.1844025
                 0
                                   0
04 03 2018 21:30
                                         185.6118011
                 0
                       1.748582959 0
04 03 2018 21:40
                 0
                       3.250447035 29.0322025 172.6694031
04 03 2018 21:50
                 0
                       2.610483885 0
                                          239.8372955
04 03 2018 22:00
                 0
                       3.530951977 55.54326339 201.0534058
04 03 2018 22:10
                        3.699191093 77.4835698 214.4176941
04 03 2018 22:20
                        2.885473013 0
                                         218.0968933
04 03 2018 22:30
                        2.618338108 0
                                         230.9163971
                 0
04 03 2018 22:40
                        2.59186101 0
                                         244.0587006
                 0
04 03 2018 22:50
                        3.596877098 63.60104876 262.5526123
                 0
04 03 2018 23:00
                 0
                       2.015707016 0
                                         233.9602966
04 03 2018 23:10
                       1.955157042 0
                 0
                                          215.1697998
04 03 2018 23:20
                 0
                        4.035816193 129.6783159 183.6156006
04 03 2018 23:30
                 0
                        4.297222137 180.2675912 189.3986969
04 03 2018 23:40
                 13.95139027 4.357845783 192.5013784 180.8934937
04 03 2018 23:50
                 -0.163733706
                                   2.894877911 0
                                                     190.0126038
05 03 2018 00:00
                 0
                        2.70679903 0
                                         197.5762939
05 03 2018 00:10
                 70.9611969 4.065254211 135.2106489 189.6730957
05 03 2018 00:20
                 66.08817291 3.931282997 115.1840976 181.4951019
05 03 2018 00:30
                 101.6964035 3.999083042 127.8240114 196.0278015
05 03 2018 00:40
                 91.03897858 3.90237689 110.0187846 200.4026947
05 03 2018 00:50
                 45.77243042 3.211409092 26.34059528 203.5227966
05 03 2018 01:00
                 66.16014099 3.465518951 48.23323798 224.1298065
05 03 2018 01:10
                 194.8294067 4.565941811 236.0893332 208.1166992
05 03 2018 01:20 205.0876007 4.795628071 287.3338866 208.0614014
05 03 2018 01:30 112.9586029 3.861741066 102.9835273 215.6369019
```

```
16.18980026 3.015254021 16.50674347 218.0478973
05 03 2018 01:40
                        3,467520952 48,44673773 228,5903931
05 03 2018 01:50
                  0
05 03 2018 02:00
                        3,622685909 66,94496843 223,2928009
                  0
05 03 2018 02:10
                        3.461280107 47.78331045 226.1580048
                  0
05 03 2018 02:20
                  0
                        2.752563
                                     0
                                           223.9761963
05 03 2018 02:30
                        3.413832903 42.94326662 206.2736053
05 03 2018 02:40
                  0
                        2.395651102 0
                                           205.3865967
05 03 2018 02:50
                  0
                        1.711828947 0
                                           228.8580017
05 03 2018 03:00
                  0
                        1.999789953 0
                                           215.1058044
05 03 2018 03:10
                  0
                        1.854629993 0
                                           242.0469055
05 03 2018 03:20
                  0
                        1.71586597 0
                                           235.138504
05 03 2018 03:30
                        2.620187044 0
                                           196.4194031
05 03 2018 03:40
                        2.490139008 0
                                           220.0531006
05 03 2018 03:50
                        3.041750908 17.47548012 217.6437988
                  0
05 03 2018 04:00
                        3.384644032 40.14469149 204.476593
                  0
05 03 2018 04:10
                  0
                        3.304409981 33.1543543 186.0523071
05 03 2018 04:20
                  0
                        3.250320911 29.02311386 178.5357056
05 03 2018 04:30
                  0
                        3.135324001 21.79537487 187.263504
05 03 2018 04:40
                  0
                        3.807142019 93.94680376 194.5018005
05 03 2018 04:50
                  0
                        4.180472851 157.2555736 197.6703033
                        3.703799963 78.14834985 198.5323944
05 03 2018 05:00
                  0
                        3.52324295 54.64642923 188.5435944
05 03 2018 05:10
                  0
05 03 2018 05:20
                  0
                        4.00669384 124.2438059 190.1403046
05 03 2018 05:30
                  0
                        3.597601891 63.69350207 185.1757965
05 03 2018 05:40
                        4.402625084 201.6682571 196.1123047
05 03 2018 05:50
                  164.4960022 4.578815937 238.8713423 205.9586945
05 03 2018 06:00
                  115.9641037 4.246181011 170.120332 204.8536987
                  27.79174995 3.441230059 45.69407905 202.0590057
05 03 2018 06:10
05 03 2018 06:20
                        2.101144075 0
                                           206.0850067
05 03 2018 06:30
                  0
                        1.810719013 0
                                           226.2846985
05 03 2018 06:40
                  0
                        1.243116975 0
                                           204.8634033
05 03 2018 06:50
                  0
                        1.579699993 0
                                           224.3213959
05 03 2018 07:00
                        1.279765964 0
                                           177.3350067
                  0
05 03 2018 07:10
                        1.295721054 0
                                           173.5812988
                  0
05 03 2018 07:20
                                           227.6817017
                  0
                        0.865819395 0
05 03 2018 07:30
                        0.761577725 0
                                           212.202301
                  0
05 03 2018 07:40
                  0
                        0.914765
                                     0
                                           141.9481049
05 03 2018 07:50
                        1.934512973 0
                                           131.6004944
05 03 2018 08:00
                        3.789974928 91.20402863 140.2787018
05 03 2018 08:10
                        3.095916986 19.80534903 144.0233002
05 03 2018 08:20
                        3.048928976 17.75725081 147.6972961
                  0
05 03 2018 08:30
                  0
                        2.682050943 0
                                           147.2366028
05 03 2018 08:40
                        2.975296021 0
                  0
                                           150.9626007
05 03 2018 08:50
                  0
                        3.122626066 21.12700629 155.4358063
05 03 2018 09:00
                  0
                        2.250854015 0
                                           167.1692963
05 03 2018 09:10
                        2.87605691 0
                                           180.547699
05 03 2018 09:20
                  0
                        2.70323801 0
                                           205.1575012
05 03 2018 09:30
                  0
                        1.478222966 0
                                           140.9138031
05 03 2018 09:40
                  0
                        2.160902023 0
                                           86.04181671
05 03 2018 09:50
                  0
                        2.085568905 0
                                           143.6152954
05 03 2018 10:00
                        1.93838203 0
                                           154.7570038
05 03 2018 10:10
                        3.28234911 31.41285309 162.4983978
05 03 2018 10:20
                        2.853629112 0
                                           158.5281067
05 03 2018 10:30
                        3.929375887 114.8391915 153.4393005
                  0
05 03 2018 10:40
                        4.631235123 250.3064814 150.720993
                  0
05 03 2018 10:50
                  0
                        4.644405842 253.2071966 138.4411011
05 03 2018 11:00
                  0
                        4.23246479 167.4166877 147.9622955
                        4.40190506 201.5199646 147.2089996
05 03 2018 11:10
                  0
05 03 2018 11:20
                        3.584697962 62.0600713 151.6699982
```

```
05 03 2018 11:30
                        4.204511166 161.9365378 138.813797
                  0
05 03 2018 11:40
                  0
                        3.013324022 16.44057108 129.8984985
                  0
                        3.100451946 20.02170976 121.1975021
05 03 2018 11:50
05 03 2018 12:00
                 0
                        3.776783943 89.12854973 138.6351929
05 03 2018 12:10
                  0
                        4.587839127 240.8273634 132.1141968
05 03 2018 12:20
                        4.476305008 217.0010439 138.4653931
05 03 2018 12:30
                  0
                        2.60690403 0
                                          109.0428009
05 03 2018 12:40
                  0
                        3.448148012 46.40766765 89.56728363
05 03 2018 12:50
                  0
                        3.84262991 99.76617026 77.71360016
                       4.201447964 161.3384281 79.1754837
05 03 2018 13:00
                  0
05 03 2018 13:10
                 0
                       4.497533798 221.4778708 80.09459686
05 03 2018 13:20
                       4.337818146 188.4376299 113.8188019
05 03 2018 13:30
                        4.069694996 136.0486594 109.1960983
05 03 2018 13:40
                        4.848028183 299.5240948 119.3171997
05 03 2018 13:50
                 0
                        3.5192101
                                  54.18105346 118.2432022
05 03 2018 14:00
                 0
                       4.539169788 230.3369696 123.3673019
05 03 2018 14:10
                 0
                       4.618461132 247.5037809 122.8843994
05 03 2018 14:20
                 0
                        5.473126888 461.302488 129.8872986
                 0
                        5.859985828 578.7663325 122.0617981
05 03 2018 14:30
05 03 2018 14:40
                        5.425127983 447.7172674 116.4620972
                 365.4089966 5.571963787 489.9417825 113.8524017
05 03 2018 14:50
                 403.1296082 5.277925014 407.3263181 113.4978027
05 03 2018 15:00
05 03 2018 15:10
                 532.5717163 6.033400059 635.3144517 115.4225998
05 03 2018 15:20
                 530.2600708 6.059929848 644.3916305 118.9290009
05 03 2018 15:30
                 512.1071777 6.163267136 680.4655247 119.1996994
05 03 2018 15:40
                 128.7792969 3.84680891 100.4647116 100.231102
05 03 2018 15:50
                 71.13276672 3.523607016 54.68856904 103.8239975
05 03 2018 16:00
                 230.0341034 4.757104874 278.4938721 110.351799
05 03 2018 16:10 539.2086182 6.122141838 665.9724292 118.4555969
                 1005.468994 7.337189198 1175.305885 125.0326004
05 03 2018 16:20
05 03 2018 16:30 950.9257813 7.221073151 1118.695346 127.0422974
05 03 2018 16:40
                 963.9061279 7.138381004 1079.519014 132.9067993
05 03 2018 16:50
                 1349.562012 7.995841026 1527.615922 139.566803
05 03 2018 17:00
                 2261.601074 9.695781708 2587.967708 141.1781006
                 2420.118896 9.885954857 2719.128649 145.3824005
05 03 2018 17:10
                 2175.667969 10.09259987 2848.346955 141.1331024
05 03 2018 17:20
05 03 2018 17:30
                 1931.124023 9.365732193 2381.918031 142.710907
05 03 2018 17:40
                 1632.715942 8.673606873 1936.079383 147.2411041
05 03 2018 17:50
                 1213.322998 7.710018158 1368.56842 148.4541016
05 03 2018 18:00
                 950.4154053 7.141692162 1081.069966 150.4248962
05 03 2018 18:10
                 929.4074097 7.050607204 1038.933898 152.5590973
05 03 2018 18:20
                 1244.869995 8.040685654 1553.381114 148.0915985
05 03 2018 18:30
                 913.2753906 7.405889988 1209.711887 143.7075958
05 03 2018 18:40
                 1048.130981 7.661591053 1342.571857 142.457901
05 03 2018 18:50
                 1257.708984 8.135860443 1608.731647 138.4290924
05 03 2018 19:00
                 1659.43103 8.796007156 2013.407362 136.7093048
05 03 2018 19:10
                 1533.353027 8.521636009 1841.352423 137.2046967
                 1162.233032 7.301650047 1157.776588 145.8572998
05 03 2018 19:20
05 03 2018 19:30
                 1144.612061 7.296105862 1155.05827 159.930603
05 03 2018 19:40
                 1023.781982 7.154341221 1087.008321 163.0444031
05 03 2018 19:50
                 1099.052002 7.413589954 1213.611502 157.738205
05 03 2018 20:00
                 2064.802002 9.098706245 2207.807658 163.0731964
05 03 2018 20:10
                 2459.268066 10.15390968 2884.145129 166.5209961
05 03 2018 20:20
                 2552.564941 10.12495041 2867.377321 169.3276062
05 03 2018 20:30
                 2601.740967 10.13788033 2874.895008 171.5926056
05 03 2018 20:40
                 2613.336914 10.33082962 2981.229581 169.482193
05 03 2018 20:50
                 2333.740967 10.06731033 2833.248521 164.838501
05 03 2018 21:00 3062.560059 11.25879002 3356.360272 165.2926941
05 03 2018 21:10 3534.86499 12.33172035 3564.362965 172.5189056
```

```
05 03 2018 21:20 3460.677979 12.07378006 3532.959669 173.5664978
                 3296.729004 12.20573997 3550.379927 171.2989044
05 03 2018 21:30
05 03 2018 21:40
                 3528,591064 13,06626034 3600 170,9871063
05 03 2018 21:50 3559.177002 13.68552971 3600 172.5695038
05 03 2018 22:00 3506.832031 14.92039967 3600 173.3401947
05 03 2018 22:10 3473.812012 14.56958008 3600 173.1439972
05 03 2018 22:20
                 3485.639893 15.09902
                                         3600 172.9631042
05 03 2018 22:30
                 3475.833008 15.18017006 3600 170.5558929
                 3475.366943 15.57046986 3600 171.2492981
05 03 2018 22:40
                 3461.820068 15.80113983 3600 173.1483002
05 03 2018 22:50
05 03 2018 23:00
                 3461.62207 16.43870926 3600 173.1455994
05 03 2018 23:10 3461.769043 16.99657059 3600 175.953598
05 03 2018 23:20
                 3461.99292 17.10399055 3600 184.7071991
05 03 2018 23:30 3462.39209 15.8777504 3600 192.221405
05 03 2018 23:40 3463.591064 14.95230961 3600 195.8253937
05 03 2018 23:50 3467.918945 14.75074959 3600 190.527298
06 03 2018 00:00
                 3462,666992 15,39896965 3600 196,0480957
06 03 2018 00:10 3164.541992 11.95034981 3514.017465 211.6784973
06 03 2018 00:20 1917.176025 8.487541199 1820.316354 206.6994934
06 03 2018 00:30 1638.723022 7.731667995 1380.283857 174.4235992
06 03 2018 00:40 2264.960938 9.145330429 2238.069579 161.5429993
06 03 2018 00:50 2045.531982 9.204820633 2276.778367 156.8997955
06 03 2018 01:00 2024.005005 9.573152542 2496.822976 146.9463043
06 03 2018 01:10 1256.108032 7.801750183 1418.593802 145.6376953
06 03 2018 01:20 1474.666992 8.508752823 1833.393874 141.1405945
06 03 2018 01:30 1666.661987 8.690278053 1946.56057 139.322998
06 03 2018 01:40 1609.374023 8.342553139 1731.836366 142.9427948
06 03 2018 01:50 1535.442993 8.3014431 1707.054166 141.0511932
06 03 2018 02:00 1264.234009 7.445631027 1229.933954 150.2774963
06 03 2018 02:10 1995.401978 8.842587471 2043.050264 161.0939941
06 03 2018 02:20 2797.481934 10.48962021 3060.824487 167.8287048
06 03 2018 02:30 2769.0979
                            10.44857025 3040.910522 167.5375977
06 03 2018 02:40 3402.608887 11.59315014 3443.99475 170.4902039
06 03 2018 02:50 3574.762939 11.97004986 3517.215766 173.0839996
                 3503.974121 11.9141798 3507.969803 176.729599
06 03 2018 03:00
06 03 2018 03:10
                 3603.691895 13.12928963 3600 179.488205
06 03 2018 03:20
                 3578.580078 14.23208046 3600 179.8789063
06 03 2018 03:30
                 3599.665039 14.6307497 3600 180.2151947
06 03 2018 03:40 3588.789063 14.12115002 3600 178.9488983
06 03 2018 03:50 3580.581055 14.19863033 3600 181.5294037
06 03 2018 04:00 3512.593018 14.39280033 3600 184.2415924
06 03 2018 04:10 3563.87793 13.6973896 3600 185.5032043
06 03 2018 04:20
                 3537.955078 13.26210022 3600 184.5307007
06 03 2018 04:30 3525.174072 13.24553967 3600 185.2666931
06 03 2018 04:40 3497.865967 12.56735039 3583.821216 182.5010071
06 03 2018 04:50 3480.991943 12.67881966 3590.08117 182.1817017
                 3500.150879 13.23690033 3600 184.1931
06 03 2018 05:00
                 3272.10791 11.51214981 3424.807981 186.451004
06 03 2018 05:10
06 03 2018 05:20 2346.089111 9.770702362 2641.088284 186.6136932
06 03 2018 05:30
                 2691.611084 10.24470043 2935.101417 187.2801056
06 03 2018 05:40
                 3365.076904 11.88623047 3503.139904 183.9915924
06 03 2018 05:50
                 3488.849121 13.38619041 3600 188.4868927
06 03 2018 06:00
                 3462.052002 14.02550983 3600 191.074707
06 03 2018 06:10 3465.304932 14.29154968 3600 190.5444031
06 03 2018 06:20
                 3482.540039 13.42129993 3600 186.4075928
06 03 2018 06:30 3598.569092 13.94653988 3600 188.6705017
06 03 2018 06:40 3602.865967 14.95464993 3600 191.1127014
06 03 2018 06:50 3602.63208 14.94719982 3600 190.7050934
06 03 2018 07:00 3600.778076 15.17041016 3600 196.3775024
```

```
06 03 2018 07:10 3602.227051 16.90789986 3600
                                              200.2751007
                 3602.62207 16.83827972 3600
06 03 2018 07:20
                                              200.4714966
                            13.53382015 3600 188.1231995
06 03 2018 07:30
                 3561.62207
06 03 2018 07:40 3149.61499 11.57353973 3439.465786 202.6903076
06 03 2018 07:50 2833.884033 10.8064003 3199.717781 218.8648071
06 03 2018 08:00 3190.720947 11.86732006 3499.793943 227.8878937
06 03 2018 08:10
                 3572.319092 14.07841015 3600 220.281601
06 03 2018 08:20 3600.270996 15.8915596 3600 212.1239014
06 03 2018 08:30
                 3592.177979 16.23525047 3600
                                              208.2247009
                 3484.920898 17.25798988 3600
06 03 2018 08:40
                                              205.4105988
06 03 2018 08:50 3465.49292 18.30875969 3600
                                              205.0807953
06 03 2018 09:00 3461.062012 17.46007919 3600 204.8119049
06 03 2018 09:10 3464.073975 16.65851021 3600 206.1741028
06 03 2018 09:20 3502.081055 16.0219593 3600 205.3446045
06 03 2018 09:30 3555.958008 15.75409985 3600
                                              211.4620972
06 03 2018 09:40 3478.862061 15.33961964 3600 206.2281036
06 03 2018 09:50 3476.139893 15.43760014 3600 203.6609039
06 03 2018 10:00 3467.084961 15.89768982 3600 203.7662964
06 03 2018 10:10 3576.212891 15.2508297 3600 204.8074036
                 3602.315918 15.31365967 3600 205.5337982
06 03 2018 10:20
                 3601.531982 14.97399998 3600
06 03 2018 10:30
                                              207.8786011
                 3580.011963 14.4586401 3600
06 03 2018 10:40
                                              209.7490997
06 03 2018 10:50
                 3601.712891 14.17893028 3600
                                              206.9515991
                                              206.790802
06 03 2018 11:00
                 3599.225098 15.82398987 3600
06 03 2018 11:10 3602.590088 16.12989044 3600 211.1132965
06 03 2018 11:20 3602.450928 16.68254089 3600 213.035202
06 03 2018 11:30 3602.238037 16.78762054 3600 212.4069061
06 03 2018 11:40 3601.750977 15.17376041 3600 213.5621948
06 03 2018 11:50 3605.758057 14.97439957 3600 213.1177063
                 3602.415039 15.5128603 3600 213.0075073
06 03 2018 12:00
06 03 2018 12:10 3601.975098 14.12884998 3600 209.940506
06 03 2018 12:20
                 3471.553955 12.86448956 3596.438952 207.415802
06 03 2018 12:30
                 3477.322021 12.18927956 3548.363587 200.2911072
06 03 2018 12:40 2592.899902 10.2011404 2910.956099 209.5411987
06 03 2018 12:50 3423.704102 13.68482971 3600 216.4284973
06 03 2018 13:00 3437.240967 13.00510025 3600
                                              220.0355988
06 03 2018 13:10
                 3554.121094 13.24158955 3600 222.7171021
06 03 2018 13:20 3470.650879 13.38834953 3600 225.0363007
06 03 2018 13:30 3596.552002 13.86034012 3600 221.2341003
06 03 2018 13:40 3441.227051 11.9107399 3507.382756 218.1896973
06 03 2018 13:50 3477.441895 12.43441963 3573.899465 217.2530975
06 03 2018 14:00 3468.399902 11.93914986 3512.16917 210.2700043
06 03 2018 14:10 3546.248047 12.88401031 3596.816774 212.2953033
06 03 2018 14:20 3596.861084 13.41343021 3600 215.3946991
06 03 2018 14:30 3548.745117 12.86767006 3596.504247 211.1087036
06 03 2018 14:40 3596.454102 13.26663971 3600 214.6931
                 3572.946045 13.22321987 3600 209.7597046
06 03 2018 14:50
06 03 2018 15:00 3407.274902 12.05895042 3530.820761 208.9317017
06 03 2018 15:10 3563.8479
                            13.64214039 3600 213.5106049
06 03 2018 15:20
                 3568.437012 12.6497097 3588.625323 212.6896973
06 03 2018 15:30
                 3569.287109 13.14737988 3600 214.4539948
06 03 2018 15:40
                 3589.850098 12.88887978 3596.90249 210.8594971
06 03 2018 15:50
                 3562.129883 14.03629971 3600 210.338501
06 03 2018 16:00
                 3568.099121 14.36688042 3600 213.8285065
06 03 2018 16:10
                 3591.379883 13.70917034 3600 213.6154022
06 03 2018 16:20 3592.322998 13.58578014 3600 216.3426971
06 03 2018 16:30 3599.177979 14.07050991 3600 219.6333008
06 03 2018 16:40 3599.939941 14.08613014 3600 220.0957031
06 03 2018 16:50 3538.893066 12.83532047 3595.772119 216.6461945
```

```
06 03 2018 17:00
                  3498.214111 12.24007034 3554.443485 216.660202
06 03 2018 17:10
                  3570.822998 13.43122959 3600
                                                219.7151947
                  3585.949951 14.69598007 3600
06 03 2018 17:20
                                                219.3383942
                                                215.6959991
06 03 2018 17:30
                  3585.731934 15.41289043 3600
06 03 2018 17:40
                  3515.124023 15.8076601 3600
                                               216.3146973
06 03 2018 17:50
                  3486.50293 16.21301079 3600
                                                217.031601
06 03 2018 18:00
                  3510.315918 16.37344933 3600
                                                217.0950012
06 03 2018 18:10
                  3530.262939 17.27049065 3600
                                                217.0794983
06 03 2018 18:20
                  3497.009033 17.12162018 3600
                                                216.8934937
                                                217.5646057
06 03 2018 18:30
                  3535.498047 16.04777908 3600
06 03 2018 18:40
                  3531.981934 15.43216991 3600
                                                215.9423981
06 03 2018 18:50
                  3519.805908 14.29979992 3600
                                                209.4842072
06 03 2018 19:00
                  3478.779053 14.11775017 3600
                                                208.2308044
06 03 2018 19:10
                  3463.008057 15.0665102
                                          3600
                                                205.3813934
06 03 2018 19:20
                  3475.334961 16.1739502
                                          3600
                                                203.0986023
06 03 2018 19:30
                  3465.580078 17.29853058 3600
                                                205.4967041
06 03 2018 19:40
                  3461.447021 17.34482002 3600
                                                205.3838959
06 03 2018 19:50
                  3461.842041 17.45968056 3600
                                                204.3450928
06 03 2018 20:00
                  3461.812012 16.63163948 3600
                                                203.6221924
06 03 2018 20:10
                  3461.678955 17.34398079 3600
                                                205.1148987
06 03 2018 20:20
                  3477.928955 16.3469696 3600
                                                206.6266022
06 03 2018 20:30
                  3484.260986 16.91004944 3600
                                                201.7967987
06 03 2018 20:40
                  3461.775879 18.86537933 3600
                                                199.631897
                                                201.2234039
06 03 2018 20:50
                  3462.202881 17.22031021 3600
06 03 2018 21:00
                  3461.829102 16.41680908 3600
                                                197.5449066
06 03 2018 21:10
                  3461.520996 17.64053917 3600
                                                201.972702
06 03 2018 21:20
                  3461.769043 19.33886909 3600
                                                204.0379028
06 03 2018 21:30
                  3462.193115 18.4236908
                                          3600
                                                203.3426056
06 03 2018 21:40
                  3462.033936 19.3561306
                                          3600
                                                201.6501007
06 03 2018 21:50
                  3462.083984 18.64032936 3600
                                                196.0778961
06 03 2018 22:00
                  3461.636963 18.73364067 3600
                                                193.7046051
06 03 2018 22:10
                  3461.766113 18.17164993 3600
                                                191.4389038
06 03 2018 22:20
                  3462.016113 17.97924995 3600
                                                190.8854065
06 03 2018 22:30
                  3462.262939 18.39410973 3600
                                                195.0646057
06 03 2018 22:40
                  3462.388916 18.67383003 3600
                                                195.8311005
06 03 2018 22:50
                  3462.144043 18.73884964 3600
                                                193.0867004
06 03 2018 23:00
                  3462.074951 19.36469078 3600
                                                190.4024963
06 03 2018 23:10
                  3461.871094 20.27833939 3600
                                                190.8121033
06 03 2018 23:20
                  3462.300049 19.89163971 3600
                                                193.0747986
06 03 2018 23:30
                  3462.429932 19.04487038 3600
                                                192.3267059
06 03 2018 23:40
                  3462.215088 18.66543961 3600
                                                190.4832001
06 03 2018 23:50
                  3462.079102 18.79746056 3600
                                                189.6347961
07 03 2018 00:00
                  3461.812988 19.7486496 3600
                                                187.4429932
                                                187.7828064
07 03 2018 00:10
                  3462.076904 20.71463013 3600
07 03 2018 00:20
                  3461.950928 21.14557076 3600
                                                186.9707031
07 03 2018 00:30
                  3461.930908 21.34966087 3600
                                                190.1414948
07 03 2018 00:40
                  3462.200928 20.47249031 3600
                                                189.1024933
                  3462.190918 19.99263
07 03 2018 00:50
                                          3600
                                                191.5534058
07 03 2018 01:00
                  3461.604004 21.14793968 3600
                                                190.2505035
07 03 2018 01:10
                  3462.156006 21.12918091 3600
                                                190.3863068
                  3462.315918 20.95557022 3600
07 03 2018 01:20
                                                190.9844055
07 03 2018 01:30
                  3462.354004 19.54224014 3600
                                                188.2722015
07 03 2018 01:40
                  3462.456055 18.29674911 3600
                                                190.509903
07 03 2018 01:50
                  3462.185059 18.09832001 3600
                                                192.2174988
07 03 2018 02:00
                  3461.920898 18.88430977 3600
                                                193.0939026
07 03 2018 02:10
                  3462.00293 19.09223938 3600
                                                193.412796
07 03 2018 02:20
                  3462.399902 19.34671974 3600
                                                194.3890076
07 03 2018 02:30
                  3462.422119 20.03191948 3600
                                                194.7722015
07 03 2018 02:40 3462.471924 19.85026932 3600
                                                196.6268005
```

```
07 03 2018 02:50 3462.4021
                             20.54884911 3600
                                               198.4924927
07 03 2018 03:00
                 3462.354004 20.46328926 3600
                                               197.7102051
                 3462.139893 21.22962952 3600
07 03 2018 03:10
                                               198.0260925
                                               198.9394989
07 03 2018 03:20
                 3462.323975 21.6140995 3600
07 03 2018 03:30
                 3462.63208 21.3122406 3600 198.1309967
07 03 2018 03:40
                 3462.878906 20.34889984 3600 194.4160004
07 03 2018 03:50
                 3462.572021 19.53780937 3600
                                               191.5326996
                 3462.475098 19.86084938 3600
07 03 2018 04:00
                                               191.2335052
07 03 2018 04:10
                 3462.541016 20.31181908 3600
                                               192.6755066
                                               187.9051971
07 03 2018 04:20
                 3462.295898 19.43825912 3600
07 03 2018 04:30
                 3462.310059 18.87718964 3600
                                               186.0422974
07 03 2018 04:40
                 3462.678955 18.11922073 3600
                                               188.6168976
07 03 2018 04:50
                 3462.35498 18.08344078 3600
                                               188.5794067
07 03 2018 05:00
                 3462.881104 17.88907051 3600
                                               189.713501
07 03 2018 05:10
                 3462.814941 18.0803299 3600
                                               192.3889008
07 03 2018 05:20
                 3462.603027 18.25849915 3600
                                               192.6916046
07 03 2018 05:30
                 3462.586914 17.95605087 3600
                                               195.4250946
07 03 2018 05:40 3551.483887 18.83456993 3600 197.0628052
07 03 2018 05:50 3601.612061 18.1321106 3600
                                               198.5991974
                 3602.084961 18.20239067 3600
07 03 2018 06:00
                                               199.3695068
                 3602.417969 17.34766006 3600
                                               201.1423035
07 03 2018 06:10
                 3602.114014 17.16081047 3600
                                               203.5794067
07 03 2018 06:20
07 03 2018 06:30
                  3602.493896 16.96039963 3600
                                               203.9781952
07 03 2018 06:40
                 3602.24292 17.30986977 3600
                                               205.5267029
07 03 2018 06:50
                 3602.629883 16.57408905 3600
                                               207.0681
07 03 2018 07:00
                 3601.906982 17.61376953 3600
                                               208.0428009
07 03 2018 07:10
                 3602.083984 16.77989006 3600
                                               209.0079041
07 03 2018 07:20
                 3602.667969 15.35721016 3600
                                               209.2176971
07 03 2018 07:30
                 3602.577881 15.75374031 3600
                                               212.2754974
                 3602.419922 16.45108986 3600
07 03 2018 07:40
                                               215.800293
07 03 2018 07:50
                 3602.375
                           17.34951019 3600 216.8945007
07 03 2018 08:00
                 1799.511963 18.01345062 3600 219.5160065
07 03 2018 08:10
                 2379.756104 19.43317986 3600
                                               219.8267975
07 03 2018 08:20
                 757.3900146 18.90155983 3600
                                               221.4776001
                 2340.975098 19.1301899 3600
07 03 2018 08:30
                                               221.0265961
07 03 2018 08:40
                  3601.962891 19.36257935 3600
                                               220.2330933
07 03 2018 08:50
                  3601.86792 19.79417038 3600
                                               220.6311951
07 03 2018 09:00
                 3601.803955 19.17753983 3600
                                               222.5762939
07 03 2018 09:10
                 3601.345947 19.93759918 3600
                                               221.7411041
07 03 2018 09:20
                 3601.531006 19.94601059 3600
                                               219.5310059
07 03 2018 09:30
                 3601.439941 20.12170029 3600
                                               217.9217987
07 03 2018 09:40
                 3601.516113 20.70313072 3600
                                               218.2904968
07 03 2018 09:50
                 3602.001953 21.03990936 3600
                                               215.8157043
07 03 2018 10:00
                 3602.477051 19.69042015 3600
                                               213.3954926
07 03 2018 10:10
                 3602.23999 19.53270912 3600
                                              213.1864014
07 03 2018 10:20
                 3602.049072 20.34730911 3600
                                               211.3596039
07 03 2018 10:30
                 3602.675049 19.38404083 3600
                                               212.0511932
                 3602.615967 17.6508007 3600
07 03 2018 10:40
                                               213.4976959
07 03 2018 10:50
                 3602.460938 17.92210007 3600
                                               214.1116943
07 03 2018 11:00
                  3602.659912 18.35617065 3600
                                               216.3193054
07 03 2018 11:10
                  3603.103027 19.35586929 3600
                                               216.2619019
07 03 2018 11:20
                  3602.846924 17.35236931 3600
                                               216.3544006
07 03 2018 11:30
                  3602.971924 17.42465019 3600
                                               219.6842041
07 03 2018 11:40
                 3601.645996 15.9575901 3600
                                               218.7901001
07 03 2018 11:50
                 3597.725098 14.69194984 3600
                                               217.353302
07 03 2018 12:00
                 3600.216064 15.26618958 3600
                                               217.0514069
07 03 2018 12:10
                 3602.812012 16.04107094 3600 217.6318054
07 03 2018 12:20
                 3602.605957 16.14357948 3600 216.0805969
07 03 2018 12:30 3597.429932 14.95958996 3600 219.3973999
```

```
07 03 2018 12:40 3600.960938 15.35103035 3600 220.6304016
07 03 2018 12:50
                 3602.403076 14.88350964 3600 221.3865051
                 3596.096924 13.96364975 3600 219.6035004
07 03 2018 13:00
07 03 2018 13:10 3588.294922 13.63383961 3600 222.3094025
07 03 2018 13:20 3594.938965 15.03964996 3600 223.517807
07 03 2018 13:30 3537.541016 14.47906017 3600
                                              223.1649017
07 03 2018 13:40
                 3586.350098 14.14688969 3600
                                              223.509201
07 03 2018 13:50
                 3581.930908 14.00319004 3600 222.7942047
07 03 2018 14:00
                 3170.741943 12.49613953 3578.842282 222.9342041
                 3343.351074 12.26675034 3557.469917 224.1591034
07 03 2018 14:10
07 03 2018 14:20 3183.718994 11.62434006 3451.046662 222.9701996
07 03 2018 14:30 3315.211914 12.00500011 3522.725378 221.8540955
07 03 2018 14:40 3481.50708 12.59339046 3585.450161 219.0720978
07 03 2018 14:50 3510.281006 13.07419014 3600 218.3822021
07 03 2018 15:00 3428.36792 12.6847496 3590.362336 222.1707001
07 03 2018 15:10 3128.87793 11.83640957 3494.188105 222.7689056
07 03 2018 15:20 3391.906982 12.5441103 3582.280976 222.7667999
07 03 2018 15:30 2575.865967 9.995114326 2789.060482 220.8479004
07 03 2018 15:40 2705.790039 10.51902962 3074.812975 222.7480011
07 03 2018 15:50 2237.375977 9.540291786 2471.492396 223.0634003
07 03 2018 16:00 1761.42395 8.517823219 1838.995857 220.5960999
                 2586.655029 10.49522018 3063.505926 221.8047028
07 03 2018 16:10
07 03 2018 16:20
                 2602.150879 10.42957973 3031.543247 219.588501
07 03 2018 16:30
                 2935.970947 10.96829033 3261.131058 218.7778931
07 03 2018 16:40 3100.440918 11.42693996 3403.237434 218.8782043
07 03 2018 16:50 3344.988037 12.44217968 3574.553213 217.5155945
07 03 2018 17:00 3324.868896 12.0864296 3534.754919 222.4664001
07 03 2018 17:10 3124.511963 11.71257019 3470.002107 222.7658997
07 03 2018 17:20 2938.99292 11.07948971 3299.791191 223.8166046
                             10.49701977 3064.365837 222.7467041
07 03 2018 17:30 2618.9021
07 03 2018 17:40 2671.23999 10.56945038 3098.261408 224.2433929
07 03 2018 17:50
                 2359.562012 9.870092392 2708.647455 220.0991058
07 03 2018 18:00
                 2658.074951 10.41442013 3023.994816 222.6952057
07 03 2018 18:10 3263.341064 11.88484955 3502.897705 220.3820953
07 03 2018 18:20 3463.51001 12.48859024 3578.269136 224.6941986
07 03 2018 18:30 3147.543945 11.40598011 3397.709643 224.6065979
07 03 2018 18:40
                 3224.861084 11.8200798 3491.157748 226.1004028
07 03 2018 18:50
                 3473.343018 12.31624985 3562.782582 222.9167023
07 03 2018 19:00 3463.136963 12.74969006 3593.102159 227.9839935
07 03 2018 19:10 3209.667969 11.5767498 3440.212192 227.8126984
07 03 2018 19:20 3166.506104 11.76054955 3479.703693 228.1885071
                           12.93889999 3597.586398 227.7391052
07 03 2018 19:30 3539.7229
07 03 2018 19:40 3465.478027 12.2389698 3554.31618 226.717804
07 03 2018 19:50 3108.593018 10.93404007 3248.653105 229.2536926
07 03 2018 20:00 3424.566895 12.35978985 3567.133741 224.5010986
07 03 2018 20:10 3565.524902 13.54629993 3600 225.7749023
07 03 2018 20:20
                 3601.784912 14.64058971 3600 223.4102936
                 3602.860107 15.7410202 3600 224.1809998
07 03 2018 20:30
07 03 2018 20:40
                 3575.044922 15.21739006 3600 224.802597
07 03 2018 20:50
                 3545.968994 15.41868973 3600 222.3177948
07 03 2018 21:00
                 3594.481934 15.99462986 3600 223.9409027
07 03 2018 21:10
                 3586.99707 16.39163971 3600 221.8784027
07 03 2018 21:20
                 3589.564941 15.99851036 3600 224.3695984
07 03 2018 21:30
                 3599.925049 16.32836914 3600 223.0908966
07 03 2018 21:40
                 3567.000977 15.48044968 3600
                                              222.4152069
07 03 2018 21:50
                 3587.685059 15.9927702 3600 224.7971039
07 03 2018 22:00
                 3591.812988 15.45635986 3600 222.4830933
07 03 2018 22:10 3587.355957 15.24166965 3600 220.1636963
07 03 2018 22:20 3599.958008 14.36548996 3600 221.7969055
```

```
07 03 2018 22:30 3602.374023 14.21584988 3600 220.7749939
                 3598.906006 15.19126987 3600 222.9651031
07 03 2018 22:40
                 3601.646973 15.36015034 3600 225.1246033
07 03 2018 22:50
07 03 2018 23:00 3600.746094 15.57942963 3600 224.414093
07 03 2018 23:10 3602.516113 15.56165981 3600 223.6134033
07 03 2018 23:20
                 3598.115967 15.09654999 3600 222.1692047
07 03 2018 23:30
                 3596.025879 14.09152031 3600 219.4976959
                 3599.802002 13.73377037 3600 218.8842926
07 03 2018 23:40
07 03 2018 23:50
                 3560.724121 13.28625965 3600 218.9812012
                 3593.225098 13.34335995 3600
08 03 2018 00:00
                                              220.3161926
08 03 2018 00:10 3573.239014 13.05766964 3600 218.8547058
08 03 2018 00:20 3496.447998 13.18249989 3600 217.3932953
08 03 2018 00:30 3458.058105 12.65139961 3588.71328 216.9557037
08 03 2018 00:40 3244.696045 11.72004986 3471.542377 216.5411987
08 03 2018 00:50 3323.284912 11.9843502 3519.495462 217.3885956
08 03 2018 01:00 3262.738037 11.82462978 3492.0069 216.6188049
08 03 2018 01:10 3402.041992 12.07756996 3533.500358 217.5894012
08 03 2018 01:20 3516.22998 13.10037994 3600 218.7380066
08 03 2018 01:30 3439.839111 12.67978954 3590.127513 219.8533936
08 03 2018 01:40 3462.183105 12.58609009 3585.003784 217.9801025
08 03 2018 01:50 3350.434082 12.35171032 3566.348941 219.5626984
08 03 2018 02:00 3472.150879 12.4558897 3575.685461 220.6970978
08 03 2018 02:10 3330.886963 12.13111019 3540.882038 221.0317993
08 03 2018 02:20 3491.707031 12.81171989 3595.142608 222.853302
08 03 2018 02:30 3524.655029 12.69836044 3590.988025 224.4492035
08 03 2018 02:40 3584.805908 13.6486702 3600 222.9830017
08 03 2018 02:50 3556.934082 13.09037018 3600 221.9181976
08 03 2018 03:00 3243.125
                             11.69470024 3466.280282 216.8697052
08 03 2018 03:10 2980.52002 11.31046963 3371.388931 217.6719055
08 03 2018 03:20 3053.916016 11.47992039 3416.818252 219.3809967
08 03 2018 03:30 3187.466064 11.47984982 3416.800533 215.5691071
08 03 2018 03:40 3121.312012 11.61034966 3447.906388 218.7068939
08 03 2018 03:50 2951.62793 11.3915596 3393.855009 218.4497986
08 03 2018 04:00 2862.38208 11.10974026 3309.827202 218.1741943
08 03 2018 04:10 2777.481934 10.97134018 3262.229
                                                     215.0926056
08 03 2018 04:20 3048.511963 11.51976967 3426.667171 216.5209961
08 03 2018 04:30
                 2937.092041 11.18725014 3334.624061 214.5332947
08 03 2018 04:40 2381.604004 9.954611778 2763.556423 211.7028961
08 03 2018 04:50 2422.542969 9.932112694 2749.164014 207.4208069
08 03 2018 05:00 2594.427002 10.26531982 2946.338296 207.6898041
08 03 2018 05:10 2601.836914 10.47789001 3055.180409 207.600296
08 03 2018 05:20 2202.456055 9.486721039 2461.269725 205.3430023
08 03 2018 05:30 2071.330078 9.357832909 2376.74443 205.0951996
08 03 2018 05:40
                 1384.082031 8.249000549 1675.648824 200.3479004
08 03 2018 05:50
                 1757.197021 8.31707859 1716.463017 192.6367035
08 03 2018 06:00 1514.359009 8.231015205 1664.933568 200.308197
08 03 2018 06:10
                 1325.296021 7.81431818 1425.525253 197.5993042
                 1524.311035 8.300546646 1706.51534 197.7897034
08 03 2018 06:20
08 03 2018 06:30 1659.446045 8.186765671 1638.694326 209.1260071
08 03 2018 06:40
                 1482.762939 7.74382019 1386.884736 214.3580017
08 03 2018 06:50
                 1662.262939 8.186115265 1638.309977 207.0758972
08 03 2018 07:00 2133.510986 9.106754303 2213.026287 234.2518005
08 03 2018 07:10
                 1753.46106 8.348887444 1735.667295 231.7391968
08 03 2018 07:20
                 1289.82605 7.609337807 1314.852101 242.7288971
08 03 2018 07:30 1805.967041 8.607603073 1894.751741 245.655304
08 03 2018 07:40 1652.099976 8.125818253 1602.849739 226.6564026
08 03 2018 07:50 2475.163086 9.934227943 2750.524002 231.408905
08 03 2018 08:00 3324.61792 12.70291996 3591.191509 231.9853058
08 03 2018 08:10 2831.136963 10.72467041 3166.315916 232.9989014
```

```
2538.675049 9.838393211 2687.455505 242.1464996
08 03 2018 08:20
                 1812.969971 8.375656128 1751.892738 237.5182953
08 03 2018 08:30
08 03 2018 08:40
                 2655.580078 9.89849472 2727.356534 227.6071014
08 03 2018 08:50 2531.980957 9.89221096 2723.239893 230.2131042
08 03 2018 09:00 3432.562012 12.05191994 3529.793785 225.6652985
08 03 2018 09:10 3291.804932 11.7895298 3485.35981 234.2171021
08 03 2018 09:20
                 3514.219971 13.70652008 3600 231.4394073
                 3471.291016 12.17523003 3546.607539 228.4705963
08 03 2018 09:30
08 03 2018 09:40
                 3532.303955 13.30354977 3600 222.712204
08 03 2018 09:50
                 3581.860107 14.66940022 3600
                                              223.5426025
08 03 2018 10:00
                 3587.009033 15.61970043 3600 222.8912964
08 03 2018 10:10 3573.99292 13.54012966 3600 221.9429016
08 03 2018 10:20 3408.291016 12.10980034 3538.00128 220.3395996
08 03 2018 10:30 2252.592041 9.312532425 2347.096649 229.1011047
08 03 2018 10:40 2036.141968 8.941228867 2106.174646 237.0184937
08 03 2018 10:50 2912.863037 10.81783962 3204.262513 244.183197
08 03 2018 11:00 2254.681885 9.141755104 2235.746532 243.7971039
08 03 2018 11:10 2689.9729
                             10.03001022 2810.620795 247.8294983
08 03 2018 11:20 2159.26001 8.903621674 2082.05481 245.8957977
08 03 2018 11:30 1460.490967 7.760063171 1395.73541 241.441803
08 03 2018 11:40 950.0717773 6.791062832 924.6420426 236.7382965
                 1698.312012 8.341122627 1730.971661 243.7317963
08 03 2018 11:50
08 03 2018 12:00
                 3257.637939 11.26723003 3358.852943 252.1819
08 03 2018 12:10 3032.208008 10.73462009 3170.470335 269.0620117
08 03 2018 12:20 2939.614014 10.37773037 3005.463767 260.3530884
08 03 2018 12:30 2852.259033 10.35400963 2993.284015 254.6528931
08 03 2018 12:40 3104.316895 10.87621975 3226.965697 256.4121094
08 03 2018 12:50 2920.233887 10.42234993 3027.951168 256.2861023
08 03 2018 13:00 2345.613037 9.455161095 2440.553748 259.0979004
08 03 2018 13:10 2752.054932 10.0722599 2836.218927 257.9973145
08 03 2018 13:20 3209.449951 11.37129021 3388.365618 259.9432068
08 03 2018 13:30 3037.478027 10.97531986 3263.658455 260.3581848
08 03 2018 13:40 2862.808105 10.63455009 3127.553755 259.1947021
08 03 2018 13:50 2408.654053 9.627123833 2537.589061 259.3370972
08 03 2018 14:00 2502.61792 10.00957012 2798.038092 264.2817078
08 03 2018 14:10
                 1690.037964 8.306551933 1710.126205 265.1975098
08 03 2018 14:20
                 1820.822021 8.528085709 1845.341117 266.6700134
                 2084.718018 9.121259689 2222.437467 268.5197144
08 03 2018 14:30
08 03 2018 14:40 2094.866943 9.117148399 2219.769341 270.9345093
08 03 2018 14:50 2477.794922 9.828451157 2680.740796 273.0629883
08 03 2018 15:00 2107.846924 9.086676598 2200.011311 272.5375061
08 03 2018 15:10 2239.970947 9.472957611 2452.234196 270.596405
08 03 2018 15:20 1580.499023 8.054000854 1561.070798 267.5163879
08 03 2018 15:30 2095.553955 9.07598114 2193.083829 263.8843994
08 03 2018 15:40
                 1523.427002 7.959496021 1506.887703 262.8902893
08 03 2018 15:50
                 1057.447998 7.097413063 1060.450121 273.0567932
08 03 2018 16:00 941.1157227 6.736048222 901.4664592 276.8299866
08 03 2018 16:10 812.369812 6.480063915 798.2146979 288.3096924
08 03 2018 16:20 1270.71106 7.783164978 1408.377582 296.4025879
08 03 2018 16:30 945.7363892 7.022102833 1025.969784 298.5822144
08 03 2018 16:40 532.3021851 5.610029221 501.2157788 293.6541138
08 03 2018 16:50 672.2838745 6.288330078 725.6527968 291.8297119
08 03 2018 17:00
                 887.5756226 6.826527119 939.7721638 292.6312866
08 03 2018 17:10
                 909.7974243 7.010264874 1020.616367 298.1682129
08 03 2018 17:20
                 772.6699219 6.618083954 852.9606085 296.8492126
08 03 2018 17:30 554.8862305 5.847791195 574.8368498 294.0539856
08 03 2018 17:40 590.0266113 6.158985138 678.948057 298.3555908
08 03 2018 17:50 520.3516235 5.77123785 550.5170344 295.5349121
08 03 2018 18:00 338.7426147 5.277221203 407.1376997 291.5422974
```

```
08 03 2018 18:10 305.6051025 5.120111942 366.0645917 285.4585876
08 03 2018 18:20 59.24016953 3.432570934 44.81167895 278.0161133
08 03 2018 18:30
                 89.83651733 3.799998999 92.79983978 266.2166138
08 03 2018 18:40
                 142.8703003 4.229835987 166.8996243 272.9245911
                 162.0350952 4.381455898 197.3206221 270.1530151
08 03 2018 18:50
08 03 2018 19:00
                 158.1475983 4.391322136 199.3437544 268.3718872
08 03 2018 19:10
                 349.4867859 5.35263586 427.5898844 270.8742981
                 316.4248962 5.274851799 406.5030188 275.5999146
08 03 2018 19:20
                 176.3549957 4.442130089 209.8500313 270.5444031
08 03 2018 19:30
                 184.277298 4.5522542
                                         233.1428251 260.2903137
08 03 2018 19:40
08 03 2018 19:50
                 190.9857025 4.629278183 249.8764377 259.5036011
08 03 2018 20:00
                 206.4698029 4.746823788 276.1518384 254.4951935
08 03 2018 20:10
                 136.6094971 4.314126968 183.6588883 248.8497009
08 03 2018 20:20
                 170.7602997 4.463779926 214.3722385 245.5195007
08 03 2018 20:30 148.7201996 4.13956213 149.3549479 252.0001068
08 03 2018 20:40
                 127.3180008 4.061330795 134.4710261 253.3553009
08 03 2018 20:50
                 91.88725281 3.699713945 77.55881468 251.168396
08 03 2018 21:00
                 83.57578278 3.836858034 98.80596664 255.9044037
08 03 2018 21:10
                 120.7297974 4.13847208 149.1455581 249.8545074
                  28.93853951 3.339349985 36.07187252 248.3903961
08 03 2018 21:20
                 86.76849365 3.992744923 126.611236 248.1036072
08 03 2018 21:30
                  38.18952942 3.696475029 77.09339821 248.0881958
08 03 2018 21:40
08 03 2018 21:50
                  2.888735056 2.653058052 0
                                                250.0827026
08 03 2018 22:00
                 0
                        2.488406897 0
                                         251.5438995
08 03 2018 22:10
                 0
                        1.612385988 0
                                          280.1166992
08 03 2018 22:20
                        1.764737964 0
                                          287.146698
08 03 2018 22:30
                        1.809348941 0
                                          299.3310852
                 0
08 03 2018 22:40
                        2.319122076 0
                                          287.9880066
                 0
08 03 2018 22:50
                 0
                        2.504055023 0
                                          281.9306946
                        3.265801907 30.15771329 282.7626038
08 03 2018 23:00
                 0
08 03 2018 23:10
                        3.442176104 45.79121184 283.5367126
                 0
08 03 2018 23:20
                        3.98122406 124.4232224 291.7409058
                 0
08 03 2018 23:30
                 18.27560997 3.53156805 55.61534499 299.4772034
08 03 2018 23:40
                 17.0512104 3.437932014 45.35658041 311.7883911
                 5.978265762 3.17333293 23.95019811 322.4555969
08 03 2018 23:50
09 03 2018 00:00
                  0
                        3.503798008 52.42653088 339.9995117
09 03 2018 00:10
                  0
                        3.006532907 16.21246735 349.5592041
09 03 2018 00:20
                        3.087848902 19.42855922 347.4711914
                        3.24822402 28.87238177 333.9789124
09 03 2018 00:30
09 03 2018 00:40
                        2.952033997 0
                                          320.0411072
09 03 2018 00:50
                        3.276590109 30.97105055 317.4136047
                 0
                        3.529441118 55.3667476 328.6199951
09 03 2018 01:00
                 0
09 03 2018 01:10
                        3.198436022 25.50010108 323.9985962
                 0
09 03 2018 01:20
                 0
                        3.231760025 27.71333754 321.2309875
09 03 2018 01:30
                 0
                        3.20373702 25.84028654 308.0320129
09 03 2018 01:40
                  0
                        3.37551403 39.29731194 308.4563904
09 03 2018 01:50
                 0
                        4.07881403 137.7723531 304.4992981
09 03 2018 02:00
                 69.57298279 4.123031139 146.1856387 303.930603
                  11.9207201 3.084877968 19.29243652 298.9295044
09 03 2018 02:10
09 03 2018 02:20
                  0
                        2.916148901 0
                                          307.6401978
09 03 2018 02:30
                  0
                        3.253544092 29.25617948 322.7384033
09 03 2018 02:40
                        2.678061008 0
                                          323.8135071
09 03 2018 02:50
                        3.068808079 18.58062266 339.9966125
09 03 2018 03:00
                        3.54383111 57.06277762 339.2990112
                  0
09 03 2018 03:10
                        3.531950951 55.66017553 337.3761902
                  0
09 03 2018 03:20
                 0
                        3.772941113 88.52915267 336.9417114
09 03 2018 03:30
                 0
                       3.079935074 19.06909165 345.8363953
09 03 2018 03:40 0
                       1.433192968 0
                                         343.6145935
09 03 2018 03:50 0
                       1.740602016 0
                                          343.0376892
```

```
09 03 2018 04:00
                         2.206942081 0
                                            357.112915
                  0
09 03 2018 04:10
                   0
                         2.211513996 0
                                            349.1852112
09 03 2018 04:20
                         2,466396093 0
                                            350.7420044
                   0
09 03 2018 04:30
                  0
                         2.116625071 0
                                            3.066267967
09 03 2018 04:40
                   0
                         1.629263043 0
                                            18.98624992
09 03 2018 04:50
                         3.02145505 16.72338712 3.066320896
09 03 2018 05:00
                   0
                         2.684307098 0
                                            10.1257
                                            32.34304047
09 03 2018 05:10
                   0
                         2.326988935 0
09 03 2018 05:20
                   0
                         2.658041954 0
                                            18.38562012
09 03 2018 05:30
                   0
                         4.261242867 173.1004646 3.712285995
09 03 2018 05:40
                         4.158521175 153.006076 2.957866907
                   0
                         3.482471943 50.06143623 5.074965
09 03 2018 05:50
09 03 2018 06:00
                         2.695151091 0
                                            18.13833046
09 03 2018 06:10
                         2.096554041 0
                                            16.80872917
09 03 2018 06:20
                         1.758293986 0
                                            11.56422043
                   0
09 03 2018 06:30
                   0
                         1.176939964 0
                                            5.469244957
09 03 2018 06:40
                  0
                         0.463838309 0
                                            26.71977997
09 03 2018 06:50
                  0
                         0.380060196 0
                                            285.0651855
09 03 2018 07:00
                   0
                         0.665357172 0
                                            321.8409119
09 03 2018 07:10
                   0
                         1.011291981 0
                                            29.59597969
                         1.847816944 0
09 03 2018 07:20
                                            22.08189011
                   0
09 03 2018 07:30
                   0
                         0.684450328 0
                                            13.65229988
09 03 2018 07:40
                   0
                         0.48494339 0
                                            23.92756081
                                            269.3163147
09 03 2018 07:50
                   0
                         1.067703009 0
09 03 2018 08:00
                         0.693997979 0
                                            257.5780029
09 03 2018 08:10
                         0.792145312 0
                                            275.877594
09 03 2018 08:20
                         2.753395081 0
                                            245.0003967
09 03 2018 08:30
                         1.809785962 0
                                            237.9871063
                   0
09 03 2018 08:40
                   0
                         1.578230977 0
                                            216.5178986
09 03 2018 08:50
                   0
                         1.966516018 0
                                            200.8244019
09 03 2018 09:00
                  0
                         2.448623896 0
                                            174.3181
09 03 2018 09:10
                   0
                         1.582857013 0
                                            164.0888977
09 03 2018 09:20
                                            166,3072968
                   0
                         1.42037499
                                     0
09 03 2018 09:30
                         2,472476959 0
                                            162.3088989
                   0
09 03 2018 09:40
                         2.5670259
                   0
                                     0
                                            171.6421051
09 03 2018 09:50
                   0
                         3.815094948 95.23342025 167.1539001
09 03 2018 10:00
                   0
                         3.361978054 38.06554666 159.5964966
09 03 2018 10:10
                         3.028098106 16.96229969 163.5106049
                   0
09 03 2018 10:20
                         2.995274067 0
                                            170.5518951
09 03 2018 10:30
                         3.428734064 44.42452187 169.4582062
09 03 2018 10:40
                         3.149704933 22.58348322 150.841507
                   0
09 03 2018 10:50
                   0
                         2.811680079 0
                                            157.1884003
09 03 2018 11:00
                         2.656302929 0
                   0
                                            162.3144989
09 03 2018 11:10
                  0
                         2.434828997 0
                                            164.7360992
09 03 2018 11:20
                   0
                         2.261398077 0
                                            204.6694031
                         3.035341978 17.23086773 194.4255981
09 03 2018 11:30
09 03 2018 11:40
                   0
                         3.467936039 48.49108417 175.9723053
09 03 2018 11:50
                   0
                         2.519207001 0
                                            193.0469971
09 03 2018 12:00
                   0
                         2.406302929 0
                                            212.1307983
09 03 2018 12:10
                   0
                         2.565850019 0
                                            231.7702942
09 03 2018 12:20
                   0
                         2.220217943 0
                                            195.7610016
09 03 2018 12:30
                         1.713873982 0
                                            223.6443024
09 03 2018 12:40
                         2.614556074 0
                                            245.0399017
09 03 2018 12:50
                         2.748651028 0
                                            240.2353973
                   0
09 03 2018 13:00
                         1.939602017 0
                                            237.5628967
                   0
09 03 2018 13:10
                   0
                         2.515309095 0
                                            231.8096008
09 03 2018 13:20
                  0
                         2.210715055 0
                                            215.7588959
09 03 2018 13:30
                  0
                         2.593283892 0
                                            232.6194
09 03 2018 13:40
                   0
                         2.607562065 0
                                            192.233902
```

```
1.715057015 0
09 03 2018 13:50
                                           199.7256012
                  0
09 03 2018 14:00
                  0
                        2.87183404 0
                                           211.6038055
09 03 2018 14:10
                        2.340744019 0
                                           210.8493958
                  0
09 03 2018 14:20
                  0
                        2.70144701 0
                                           216,9600067
09 03 2018 14:30
                  0
                        3.091389894 19.59264565 202.7550049
09 03 2018 14:40
                        3.083784103 19.24267339 212.5348969
09 03 2018 14:50
                  0
                        2.043654919 0
                                           245.1817932
09 03 2018 15:00
                  0
                        0.79393518 0
                                           257.2392883
09 03 2018 15:10
                  0
                        0.79911238 0
                                           255.2631073
09 03 2018 15:20
                  0
                        0.599742711 0
                                           319.7430115
09 03 2018 15:30
                  0
                        0.849737227 0
                                           303.1246948
09 03 2018 15:40
                        1.452335954 0
                                           332.8857117
09 03 2018 15:50
                        1.283951998 0
                                           334.4930115
09 03 2018 16:00
                  0
                        1.583294988 0
                                           345.6809998
09 03 2018 16:10
                                           347.6072083
                  0
                        1.449938059 0
09 03 2018 16:20
                  0
                        1.280236959 0
                                           335.651001
09 03 2018 16:30
                  0
                        2.035712957 0
                                           344.8165894
09 03 2018 16:40
                  0
                                           337.1453857
                        1.150753021 0
09 03 2018 16:50
                  0
                        0.968348682 0
                                           316.6633911
09 03 2018 17:00
                  0
                        1.150917053 0
                                           335.5057983
09 03 2018 17:10
                                           353.5819092
                  0
                        1.792351961 0
09 03 2018 17:20
                  0
                        1.966217041 0
                                           355.9067078
09 03 2018 17:30
                  0
                        2.451853991 0
                                           1.986744046
                                           345.2406921
09 03 2018 17:40
                  0
                        2.02392602 0
09 03 2018 17:50
                  0
                        1.709751964 0
                                           305.1546021
09 03 2018 18:00
                        2.774276972 0
                                           300.512207
09 03 2018 18:10
                        3.607718945 64.99279147 323.0568848
                  0
                        3.536936998 56.24609117 329.6654968
09 03 2018 18:20
                  0
                        4.11396122 144.4523352 327.8400879
09 03 2018 18:30
                  0
09 03 2018 18:40
                  0
                        4.496050835 221.1642627 323.2414856
                  180.7189941 4.723883152 270.9517789 315.0610962
09 03 2018 18:50
09 03 2018 19:00
                  98.55922699 4.064326763 135.035747 319.1805115
09 03 2018 19:10
                  178.4748993 4.475646019 216.8625021 316.979187
09 03 2018 19:20
                  242.5440063 4.781758785 284.1394869 315.9478149
                  190.8444061 4.557826996 234.341072 315.8178101
09 03 2018 19:30
                  251.8262939 4.862877846 303.0139974 315.899292
09 03 2018 19:40
09 03 2018 19:50
                  314.9099121 5.119449139 365.8955769 315.0956116
09 03 2018 20:00
                  218.9458008 4.813846111 291.5502156 317.841095
09 03 2018 20:10
                  106.4371033 4.193054199 159.7019151 315.1029968
09 03 2018 20:20
                  72.03954315 3.92343092 113.7677625 315.2459106
09 03 2018 20:30
                  10.19995022 3.153939962 22.82187976 313.8677979
09 03 2018 20:40
                        3.490180016 50.90787631 325.7698059
                  0
09 03 2018 20:50
                        3.147054911 22.43576888 325.4150085
                  0
09 03 2018 21:00
                  0
                        3.157516003 23.02541537 328.3251038
09 03 2018 21:10
                  0
                        3.608198881 65.05483452 337.4460144
09 03 2018 21:20
                        3.228312969 27.47615997 340.3385925
09 03 2018 21:30
                  0
                        2.399331093 0
                                           341.5994873
09 03 2018 21:40
                  0
                        3.001610994 16.05175944 351.7383118
09 03 2018 21:50
                  0
                        3.690354109 76.21843513 356.569397
09 03 2018 22:00
                  0
                        3.376707077 39.40728422 356.1893005
09 03 2018 22:10
                  0
                        3.406044006 42.18314701 351.3806152
09 03 2018 22:20
                        3.367206097 38.53782049 349.2799988
09 03 2018 22:30
                        3.699258089 77.49320886 350.7843018
09 03 2018 22:40
                        3.933506966 115.5870433 355.9556885
                  0
09 03 2018 22:50
                        3.539680958 56.57023355 352.60849
                  0
09 03 2018 23:00
                  0
                        3.830786943 97.80173782 350.5942078
09 03 2018 23:10
                  0
                        3.700290918 77.64189901 348.1447144
                  0
                        3.706319094 78.51314397 348.0621033
09 03 2018 23:20
09 03 2018 23:30
                        3.743212938 83.97205176 350.8999023
```

```
4.411149979 203.4262455 355.3579102
09 03 2018 23:40
                  0
                  17,08213043 4,289381027 178,6997782 358,1079102
09 03 2018 23:50
10 03 2018 00:00
                  84.53820801 4.045226097 131.4424407 359.4390869
10 03 2018 00:10
                  69.33862305 3.929399967 114.8435429 4.702187061
                  34.59827042 3.610719919 65.38134299 8.122829437
10 03 2018 00:20
                  6.236670971 3.189713001 24.95009787 15.01021004
10 03 2018 00:30
10 03 2018 00:40
                  0
                        2.975925922 0
                                           28.70079994
                        2.860424995 0
10 03 2018 00:50
                  0
                                           31.92977905
10 03 2018 01:00
                  0
                        2.794274092 0
                                           33.76868057
10 03 2018 01:10
                  0
                        2.850666046 0
                                           40.35239029
10 03 2018 01:20
                  0
                        2.685154915 0
                                           40.96231842
10 03 2018 01:30
                        2.884609938 0
                                           39.23601913
10 03 2018 01:40
                        2.828891993 0
                                           38.33621979
10 03 2018 01:50
                  0
                        2.913619041 0
                                           45.18291092
10 03 2018 02:00
                        3.258678913 29.63090763 44.87778091
                  0
10 03 2018 02:10
                  0
                        3.331082106 35.36385623 43.21118927
10 03 2018 02:20
                  0
                        3.465883017 48.27201534 39.60533905
10 03 2018 02:30
                  0
                        3.70510602 78.33735259 38.34379959
10 03 2018 02:40
                        4.185079098 158.1503034 39.61663818
10 03 2018 02:50
                  0
                        4.192468166 159.5877899 44.20825958
                        3.952964067 119.1460913 45.85478973
10 03 2018 03:00
                  0
10 03 2018 03:10
                        3.685791016 75.57005787 47.57329941
                  0
10 03 2018 03:20
                        3.629884005 67.89659689 53.12080002
10 03 2018 03:30
                  0
                        3.533967018 55.8966067 51.37255859
10 03 2018 03:40
                        3.309468985 33.5646917 49.13079834
10 03 2018 03:50
                        3.889892101 107.8291834 57.91456985
10 03 2018 04:00
                        3.437381029 45.3003661 57.67422867
10 03 2018 04:10
                        3.751053095 85.16015914 60.13423157
                  0
10 03 2018 04:20
                        3.678359985 74.52130111 59.74557877
                        3.512805939 53.4473845 65.06871796
10 03 2018 04:30
                  0
                        3.149462938 22.56994762 68.5189209
10 03 2018 04:40
                  0
10 03 2018 04:50
                        3.084029913 19.25383932 74.74365234
10 03 2018 05:00
                        3.294713974 32.37935329 69.5714035
10 03 2018 05:10
                  0
                        3.781414986 89.85402993 63.36219025
                        3.283796072 31.52469114 63.51573944
10 03 2018 05:20
                  0
10 03 2018 05:30
                        3.223815918 27.16959459 112.4222031
10 03 2018 05:40
                  0
                        3.2832129
                                     31.47957655 115.8787003
                        3.20144105 25.6923933 89.11154175
10 03 2018 05:50
10 03 2018 06:00
                        2.984273911 0
                                           86.08925629
10 03 2018 06:10
                        2.78956604
                                     0
                                           92.54425049
10 03 2018 06:20
                        1.61995697 0
                                           5.849554062
10 03 2018 06:30
                                           54.85039139
                  0
                        0.898658276 0
10 03 2018 06:40
                  0
                        0.862440109 0
                                           67.67220306
10 03 2018 06:50
                  0
                        1.618229032 0
                                           75.71148682
                  0
10 03 2018 07:00
                        2.359504938 0
                                           0
10 03 2018 07:20
                        2.991030931 0
                                           0
10 03 2018 07:30
                  0
                        3.05802989 18.12635393 0
                        3.23091507 27.65502378 93.12329865
10 03 2018 07:40
                  0
10 03 2018 07:50
                  0
                        2.132066011 0
                                           84.67903137
10 03 2018 08:00
                  0
                        2.459017038 0
                                           85.25792694
10 03 2018 08:10
                        3.230171919 27.60383038 80.00567627
10 03 2018 08:20
                        3.178333998 24.25092911 88.26493073
10 03 2018 08:30
                        3.031805992 17.09872144 82.58209229
10 03 2018 08:40
                        2.8326509
                                           79.63136292
                  0
                                     0
10 03 2018 08:50
                                           69.92140198
                  0
                        2.553431034 0
10 03 2018 09:00
                  0
                        2.777112007 0
                                           66.85375977
10 03 2018 09:10
                  0
                        2.910393
                                           52.92042923
                                     0
                  0
10 03 2018 09:20
                        2.036133051 0
                                           34.07534027
10 03 2018 09:30
                        2.149574995 0
                                           43.21519089
```

```
10 03 2018 09:40
                        2.089982986 0
                                          64.82949829
                  0
10 03 2018 09:50
                  0
                        2.081151962 0
                                          58.42784119
10 03 2018 10:00
                        2,209276915 0
                                          58,42208099
                  0
10 03 2018 10:10
                  0
                        2.252427101 0
                                          56.99222183
10 03 2018 10:20
                  0
                        2.69405508 0
                                          46.8117218
10 03 2018 10:30
                        1.874730945 0
                                          23.78376961
10 03 2018 10:40
                  0
                        2.047239065 0
                                          67.02587891
                        2.151333094 0
10 03 2018 10:50
                  0
                                          60.37425995
10 03 2018 11:00
                  0
                        2.208313942 0
                                          30.82877922
10 03 2018 11:10
                  0
                        2.588335037 0
                                          26.75035095
10 03 2018 11:20
                        2.20027709 0
                  0
                                          29.41589928
10 03 2018 11:30
                        2.219007969 0
                                          45.09331894
10 03 2018 11:40
                        1.541744947 0
                                          77.0059967
10 03 2018 11:50
                        1.258098006 0
                                          82.69696045
10 03 2018 12:00
                        1.815691948 0
                                          104.8892975
                  0
10 03 2018 12:10
                  0
                        1.87232399 0
                                          51.06584167
10 03 2018 12:20
                  0
                        1.351142049 0
                                          54.65068054
10 03 2018 12:30
                  0
                        2.131711006 0
                                          41.35211182
10 03 2018 12:40
                  0
                        1.847944975 0
                                          47.31694031
10 03 2018 12:50
                  0
                        0.947931707 0
                                          126.1324005
10 03 2018 13:00
                        1.056234002 0
                                          91.69523621
                  0
10 03 2018 13:10
                  0
                        1.980386972 0
                                          38.37242889
10 03 2018 13:20
                  0
                        1.839635015 0
                                          31.50513077
10 03 2018 13:30
                  0
                        1.285421968 0
                                          22.57423019
10 03 2018 13:40
                        2.198028088 0
                                          33.90224838
10 03 2018 13:50
                        2.210674047 0
                                          45.70983887
10 03 2018 14:00
                        1.134946942 0
                                          67.97257233
10 03 2018 14:10
                        2.017760038 0
                                          209.473999
                  0
10 03 2018 14:20
                  0
                        0.902770579 0
                                          224.952301
10 03 2018 14:30
                  0
                        2.201132059 0
                                          246.1584015
                        3.083890915 19.24752413 220.7247009
10 03 2018 14:40
                  0
10 03 2018 14:50
                  0
                        2.125266075 0
                                          236.5496979
10 03 2018 15:00
                        2.879463911 0
                  0
                                          224.8704987
10 03 2018 15:10
                        2.626130104 0
                                          228.572403
                  0
10 03 2018 15:20
                  0
                        2.661616087 0
                                          229.0079041
10 03 2018 15:30
                  0
                        3.602735996 64.35080637 219.838501
10 03 2018 15:40
                  0
                        4.39177084 199.4358945 214.8863068
                  143.8827972 4.839069843 297.426338 218.3961029
10 03 2018 15:50
10 03 2018 16:00
                  271.9830017 5.163750172 377.2699575 216.1690979
                  277.3143005 5.042040825 346.395195 221.6833038
10 03 2018 16:10
10 03 2018 16:20
                  345.9346924 5.419683933 446.1895291 219.628006
10 03 2018 16:30 344.4227905 5.478372097 462.7997126 215.1880951
10 03 2018 16:40
                  305.5909119 5.278404236 407.4547714 218.0140991
10 03 2018 16:50
                  323.0234985 5.304979801 414.6088662 221.647995
10 03 2018 17:00
                  303.2558899 5.12190485 366.5219588 227.6790009
10 03 2018 17:10
                  299.6473999 5.158339024 375.8721418 231.6622009
                  277.7275085 5.037596226 345.2897411 231.3171997
10 03 2018 17:20
                  196.6105042 4.622214794 248.326277 229.7973938
10 03 2018 17:30
                  329.390686 5.36777401 431.7546818 227.8713074
10 03 2018 17:40
10 03 2018 17:50
                  436.3644104 5.85195303 576.176193 225.264801
10 03 2018 18:00
                  639.737915 6.474474907 796.0425648 223.2044067
10 03 2018 18:10
                  758.1951904 6.854522228 951.8223114 224.1098938
10 03 2018 18:20
                  754.190979 6.765004158 913.6200012 226.2033997
10 03 2018 18:30
                  689.5230713 6.571163177 834.1095383 229.1676941
10 03 2018 18:40
                  784.583374 6.87566185 960.9844546 227.0112
10 03 2018 18:50
                  686.0114136 6.601528168 846.2806468 227.7198944
10 03 2018 19:00
                  571.8848877 6.147360802 674.8384773 227.9967957
10 03 2018 19:10 459.5022888 5.703155994 529.3846367 231.8040924
10 03 2018 19:20 429.7330933 5.628172874 506.6380604 231.6932068
```

```
10 03 2018 19:30 339.5920105 5.141418934 371.5166118 236.6018982
                 376.1676941 5.411810875 443.9848364 231.9351044
10 03 2018 19:40
10 03 2018 19:50
                 506.0987854 5.915215015 596.7564615 231.7543945
10 03 2018 20:00 627.2792969 6.304385185 731.5755947 230.0608063
                 775.6378784 6.713768005 892.1817435 227.9456024
10 03 2018 20:10
10 03 2018 20:20
                 1013.676025 7.418974876 1216.34393 219.8578949
                 1148.610962 7.669967175 1347.047439 220.6215057
10 03 2018 20:30
                 1378.11499 8.213029861 1654.247172 220.655899
10 03 2018 20:40
                 1639.384033 8.761803627 1991.713769 223.4615021
10 03 2018 20:50
10 03 2018 21:00
                 1672.155029 8.782741547 2004.986138 223.6804962
10 03 2018 21:10
                 1524.078003 8.478601456 1814.814546 225.3858032
10 03 2018 21:20
                 1498.499023 8.334015846 1726.678305 226.9537048
10 03 2018 21:30
                 1437.572021 8.161192894 1623.611915 225.2359009
10 03 2018 21:40
                 1517.852051 8.374819756 1751.384909 222.7758942
10 03 2018 21:50
                 1636.584961 8.57763195 1876.078157 222.8717041
10 03 2018 22:00
                 1616.276001 8.682237625 1941.503451 221.321106
10 03 2018 22:10
                 1749.522949 9.058298111 2181.639329 220.5299072
10 03 2018 22:20
                 1931.30603 9.403360367 2406.576108 221.3070984
10 03 2018 22:30 1961.709961 9.469146729 2449.732715 220.6183929
                             9.988844872 2785.146526 222.8845062
10 03 2018 22:40 2238.5
10 03 2018 22:50 2337.829102 10.1153698 2861.774495 222.3648071
10 03 2018 23:00 2505.833008 10.62045002 3121.302222 219.7592926
10 03 2018 23:10
                 2613.833984 10.76360989 3182.434901 220.5502014
10 03 2018 23:20
                 2892.418945 10.98939991 3268.686594 220.4929047
10 03 2018 23:30 2895.566895 11.06861019 3296.131985 218.9698029
10 03 2018 23:40 2461.35791 10.19157982 2905.582234 221.1325989
10 03 2018 23:50 2778.695068 10.70236015 3156.910649 219.8892975
11 03 2018 00:00 3072.592041 11.2058897 3340.392756 219.4044952
11 03 2018 00:10 2738.958008 10.60107994 3112.630609 218.7662048
11 03 2018 00:20 2472.516113 10.07398987 2837.255368 217.5393066
11 03 2018 00:30 2575.298096 10.31285954 2971.780166 218.4172058
11 03 2018 00:40 2655.802979 10.54839039 3088.548882 218.4467926
11 03 2018 00:50 2778.093994 10.72445011 3166.223653 218.6006927
11 03 2018 01:00 2940.12207 11.12504005 3314.826019 219.2828979
11 03 2018 01:10 3056.751953 11.42148972 3401.808531 218.4201965
                 3268.990967 11.98176003 3519.085158 216.8424072
11 03 2018 01:20
                 3461.238037 12.37386036 3568.47596 216.5469971
11 03 2018 01:30
                 3555.98999 12.74534035 3592.938006 214.9940033
11 03 2018 01:40
11 03 2018 01:50
                 3576.125
                             12.77200031 3593.900628 215.3556061
11 03 2018 02:00 3434.110107 12.4451704 3574.80268 217.1793976
11 03 2018 02:10 3362.542969 12.35797024 3566.957891 220.4797058
11 03 2018 02:20 3243.927979 11.81787014 3490.744023 219.4033966
11 03 2018 02:30 3378.524902 12.1117897 3538.273407 216.9994965
11 03 2018 02:40 3393.379883 12.06993008 3532.407936 215.4167938
11 03 2018 02:50 3204.193115 11.60968971 3447.757339 213.4266968
11 03 2018 03:00 3112.615967 11.6153698 3449.037481 212.2234039
                 3269.813965 11.91248989 3507.681666 212.3587952
11 03 2018 03:10
                 3118.977051 11.88731003 3503.329013 212.2476959
11 03 2018 03:20
11 03 2018 03:30 2979.245117 11.54125023 3431.847315 214.4176025
                 3045.579102 11.67022038 3461.085429 214.2366028
11 03 2018 03:40
11 03 2018 03:50
                 3021.01001 11.87448025 3501.068287 212.0101013
11 03 2018 04:00
                 2941.136963 11.68336964 3463.889709 212.1593933
11 03 2018 04:10
                 3166.537109 11.89461994 3504.604104 214.1018066
11 03 2018 04:20
                 3033.035889 11.56863022 3438.320392 213.8377075
11 03 2018 04:30
                 3108.785889 11.54364967 3432.420382 214.2561035
11 03 2018 04:40 3112.938965 11.49120045 3419.637844 214.5670929
11 03 2018 04:50 3115.410889 11.66246986 3459.417372 212.039093
11 03 2018 05:00 3003.224121 11.46640015 3413.405568 211.6519928
11 03 2018 05:10 3216.673096 11.61991024 3450.056369 214.3647003
```

```
11 03 2018 05:20 3197.100098 11.29718018 3367.577649 217.3914948
11 03 2018 05:30 3076.572998 11.00438976 3273.989684 217.0222931
11 03 2018 05:40
                 2784.707031 10.65867043 3138.129909 217.4470978
11 03 2018 05:50 2588.666016 10.52108002 3075.779639 215.418396
11 03 2018 06:00 2830.224121 11.08393002 3301.277051 214.9481049
11 03 2018 06:10 2994.962891 11.64908028 3456.509132 213.1634064
11 03 2018 06:20 2564.593994 10.94316006 3252.002284 212.3815002
                 1883.385986 8.965917587 2122.042926 209.4024963
11 03 2018 06:30
11 03 2018 06:40 1883.83606 8.940176964 2105.499138 204.6864014
11 03 2018 06:50
                 1870.011963 8.945508957 2108.923721 206.1334991
11 03 2018 07:00
                 1748.314941 8.778025627 2001.994674 206.7221069
11 03 2018 07:10 1447.83606 8.143679619 1613.318149 204.6376953
11 03 2018 07:20 1486.144043 8.235739708 1667.745539 203.6849976
11 03 2018 07:30 1249.218018 7.514618874 1265.509011 198.1085052
11 03 2018 07:40 1400.293945 7.831850052 1435.224909 200.3921967
11 03 2018 07:50 1206.63501 7.5844841 1301.790541 200.4622955
11 03 2018 08:00 1131.160034 7.544505119 1280.949742 200.7962952
11 03 2018 08:10 1041.421021 7.348862171 1181.103157 196.9342041
11 03 2018 08:20 697.9703979 6.397988796 766.662253 204.3907928
11 03 2018 08:30 401.0293884 5.098794937 360.6462837 202.6333008
11 03 2018 08:40
                435.3866882 5.506208897 470.7877743 208.4555969
                499.114502 5.684523106 523.6810503 199.4499969
11 03 2018 08:50
                 331.6870117 4.866735935 303.9232888 198.8168945
11 03 2018 09:00
11 03 2018 09:10 400.6922913 5.362588882 430.3258939 205.9658051
11 03 2018 09:20 417.5864868 5.323203087 419.5495129 207.3318024
11 03 2018 09:30
                522.4196167 5.978966236 617.9221875 207.1753998
11 03 2018 09:40 733.1456299 6.55652523 828.2793653 204.8054962
11 03 2018 09:50 649.3046265 6.141915798 672.9184617 208.5879059
11 03 2018 10:00 660.9987793 6.123701096 666.5186344 209.2221985
11 03 2018 10:10 648.5072021 6.080410004 651.4503621 211.2751007
11 03 2018 10:20 488.3517151 5.767449856 549.3290857 212.6573029
11 03 2018 10:30 427.1687012 5.362808228 430.3862878 208.7734985
11 03 2018 10:40
                 427.5639038 5.483181953 464.1748755 210.6367035
11 03 2018 10:50 419.145813 5.412907124 444.2914873 212.5382996
11 03 2018 11:00 376.4902954 5.230965137 394.8329292 211.0782013
11 03 2018 11:10 581.7028809 5.980106831 618.3048179 214.0137939
                 323.2727966 5.086614132 357.5663646 212.8674927
11 03 2018 11:20
                 388.3259888 5.236666203 396.3397889 210.9828033
11 03 2018 11:30
11 03 2018 11:40 454.65979
                            5.678312778 521.7876124 209.6121063
11 03 2018 11:50
                427.9862061 5.42042923 446.3985214 208.0018005
11 03 2018 12:00 464.2926025 5.834433079 570.5500569 207.7221985
11 03 2018 12:10 476.3916931 5.880568981 585.4338037 204.595993
11 03 2018 12:20 707.5480957 6.461726189 791.1007673 204.1716003
11 03 2018 12:30 833.7276001 6.816018105 935.2730287 205.3580017
11 03 2018 12:40 849.7733154 6.857312202 953.028409 203.1891022
11 03 2018 12:50 581.472229 5.960439205 611.7265234 203.6421967
11 03 2018 13:00 604.539917 5.989398956 621.4272165 208.1470947
11 03 2018 13:10 437.098114 5.473509789 461.4117005 206.8838959
11 03 2018 13:20 466.2376099 5.668728828 518.8729988 208.9297028
11 03 2018 13:30
                 516.7573242 5.92219305 599.0521987 208.9273071
11 03 2018 13:40
                 456.0234985 5.759346008 546.7924903 213.0475006
11 03 2018 13:50
                 329.8868103 5.204618931 387.9044238 211.8937988
11 03 2018 14:00 63.48672104 3.038511992 17.35103761 217.1546021
11 03 2018 14:10 101.5615005 3.797805071 92.44919676 216.0016022
11 03 2018 14:20 48.21448898 3.436841965 45.24541504 221.8878937
11 03 2018 14:30 0.788799286 1.929033041 0
                                               218.8679962
11 03 2018 14:40 53.30118179 3.567933083 59.97769755 224.014801
11 03 2018 14:50 55.2477417 3.633816957 68.42005749 221.9338989
11 03 2018 15:00 37.98482895 3.481687069 49.9757808 227.1213074
```

```
11 03 2018 15:10 7.153816223 2.733381033 0
                                               232.4255981
11 03 2018 15:20 155.5782013 4.014483929 125.6938046 220.8493958
11 03 2018 15:30 265.1585083 4.971470833 329.0217363 220.5912018
11 03 2018 15:40 247.4680939 4.907520771 313.6013036 223.9078979
11 03 2018 15:50 344.6211853 5.35741806 428.9033934 231.2050934
11 03 2018 16:00 346.0407104 5.343292236 425.0292633 238.6334991
11 03 2018 16:10 383.0067139 5.304243088 414.4097308 240.6277008
11 03 2018 16:20 531.2053223 6.075181961 649.6441949 252.1293945
11 03 2018 16:30 282.0223999 5.239510059 397.0924694 250.9786987
11 03 2018 16:40 314.350708 5.162048817 376.8302048 250.4859009
11 03 2018 16:50 290.0632935 5.099153996 360.7372496 255.7624969
11 03 2018 17:00 333.4401855 5.343812943 425.1717628 249.3423004
11 03 2018 17:10 515.7753296 6.099829197 658.1848095 248.048996
11 03 2018 17:20 456.2858887 5.926447868 600.4545324 249.3739929
11 03 2018 17:30 533.428772 6.215766907 699.2301325 250.644104
11 03 2018 17:40 259.3424072 5.064552784 352.0178623 256.4093933
11 03 2018 17:50 201.819397 4.964330196 327.2848212 250.2478027
11 03 2018 18:00 268.3049927 5.258976936 402.262954 244.4440002
11 03 2018 18:10 435.8208923 5.918684006 597.8970998 239.7438965
11 03 2018 18:20
                 386.7905884 5.596834183 497.292166 239.232193
11 03 2018 18:30 99.99365997 3.976922989 123.6118177 244.3372955
                 34.5451889 3.672559977 73.70887302 247.2084961
11 03 2018 18:40
11 03 2018 18:50
                 12.64214039 3.258706093 29.63290237 247.1860046
11 03 2018 19:00 0
                       2.982764006 0
                                         266.0840149
11 03 2018 19:10 0
                       2.914972067 0
                                         267.6328125
                       3.148503065 22.51635091 308.7297058
11 03 2018 19:20 0
11 03 2018 19:30 0
                       2.591959
                                 0
                                         291.5805054
11 03 2018 19:40 0
                       2.593796015 0
                                         264.1391907
11 03 2018 19:50 0
                       2.525909901 0
                                         274.7810059
11 03 2018 20:00 0
                       2.476562977 0
                                         265.0365906
11 03 2018 20:10 0
                       3.43928504 45.49482898 243.1038971
11 03 2018 20:20 43.37677002 4.18930912 158.9728874 240.6968994
11 03 2018 20:30 87.98921967 4.178967953 156.9634871 236.8220978
11 03 2018 20:40 389.4660034 5.790917873 556.712154 226.2266998
11 03 2018 20:50 364.3366089 5.463596821 458.5885806 224.4440002
                 105.294899 4.085515022 139.0414495 227.6898041
11 03 2018 21:00
11 03 2018 21:10
                 66.08872986 3.953480005 119.2412898 229.6472931
11 03 2018 21:20
                 35.3020401 3.672693014 73.72744775 228.928894
11 03 2018 21:30
                 -0.221866593
                                   2.078790903 0
                                                     234,4553986
11 03 2018 21:40 0
                       2.0992589 0
                                         222.8419037
11 03 2018 21:50 0
                       3.316313028 34.12633146 209.2200012
11 03 2018 22:00 0
                       2.729933023 0
                                         212.8898926
11 03 2018 22:10 0
                       2.360157967 0
                                         209.6916046
11 03 2018 22:20 0
                       1.859205008 0
                                         204.3578033
11 03 2018 22:30 0
                       2.851504087 0
                                         195.5610046
11 03 2018 22:40 0
                       2.275934935 0
                                         198.6688995
11 03 2018 22:50 0
                       3.318567038 34.3129418 194.5007935
11 03 2018 23:00 6.805201054 4.107933998 143.3026746 190.5195007
11 03 2018 23:10 184.1473999 4.738945007 274.3619097 188.1470032
11 03 2018 23:20
                 300.3218079 5.262627125 403.2360086 194.0222015
11 03 2018 23:30
                 387.1369019 5.671433926 519.6947493 193.4736023
11 03 2018 23:40 391.2337952 5.638457775 509.7257692 188.4095001
11 03 2018 23:50 456.219696 5.892024994 589.1638351 185.4808044
12 03 2018 00:00 593.6989136 6.31149292 734.206557 191.5458069
12 03 2018 00:10 628.0446167 6.439180851 782.4053468 190.5787048
12 03 2018 00:20 671.5471802 6.508382797 809.2738322 193.600296
12 03 2018 00:30 725.6002197 6.609460831 849.477452 197.2046967
12 03 2018 00:40 644.4921875 6.266936779 717.8039098 200.3809052
12 03 2018 00:50 670.1096191 6.344666004 746.5580137 201.5858002
```

```
12 03 2018 01:00 699.8814697 6.444839954 784.5827259 203.558197
12 03 2018 01:10
                 786.6339722 6.662438869 871.0109376 203.3309021
12 03 2018 01:20
                 835,2694702 6,715493202 892,8986078 201,9506989
12 03 2018 01:30 972.2374878 7.088175774 1056.18116 203.1170044
                 1108.041992 7.494639874 1255.201575 204.906601
12 03 2018 01:40
12 03 2018 01:50
                 1327.154053 8.108037949 1592.459241 207.9082031
12 03 2018 02:00
                 1601.782959 8.70968914 1958.785268 210.5310974
                 1670.185059 8.926522255 2096.734822 208.6741028
12 03 2018 02:10
12 03 2018 02:20
                 1536.197021 8.564249992 1867.759836 207.9172974
12 03 2018 02:30
                 1718.793945 8.936219215 2102.957997 208.4747925
12 03 2018 02:40
                 1558.446045 8.685868263 1943.786501 208.2902985
12 03 2018 02:50 1319.662964 8.072049141 1571.522324 207.5119019
12 03 2018 03:00 1293.796997 7.942752838 1497.385948 205.467804
12 03 2018 03:10 1313.848999 7.990052223 1524.305161 205.9918976
12 03 2018 03:20 1317.112061 7.998617172 1529.204909 208.9477997
12 03 2018 03:30 1256.500977 8.122879982 1601.130564 210.4281006
12 03 2018 03:40
                 1254.137939 8.086426735 1579.871387 211.2048035
12 03 2018 03:50 1418.540039 8.440995216 1791.735193 212.2572937
12 03 2018 04:00 1596.885986 8.767012596 1995.01345 212.2982941
12 03 2018 04:10
                 1814.432983 9.06193924 2183.994961 212.9835052
12 03 2018 04:20
                 1854.078979 9.251745224 2307.378841 213.4420013
12 03 2018 04:30 1799.593018 9.184277534 2263.400045 212.1734924
12 03 2018 04:40
                 1763.712036 9.106826782 2213.073295 210.8220062
12 03 2018 04:50
                 1659.171021 8.631258965 1909.531991 209.0233002
12 03 2018 05:00 1851.515015 9.153072357 2243.101196 209.6192017
12 03 2018 05:10 1975.459961 9.554251671 2482.300821 207.6472015
12 03 2018 05:20 1889.621948 9.312982559 2347.391056 201.7310028
12 03 2018 05:30 2104.736084 10.10048962 2853.017393 199.5113983
12 03 2018 05:40 2151.10498 9.951940536 2761.856104 194.0178986
12 03 2018 05:50 2063.241943 9.945900917 2758.003344 187.1990051
12 03 2018 06:00 2006.051025 9.666418076 2566.622705 183.7012939
12 03 2018 06:10 1612.646973 8.536455154 1850.521392 179.6401062
12 03 2018 06:20
                 1184.286987 7.525405884 1271.068297 179.8399048
12 03 2018 06:30 1140.553955 7.086306095 1055.318461 178.7467957
12 03 2018 06:40 1652.014038 8.358287811 1741.358584 180.5834045
                 1237.06604 7.409690857 1211.635716 181.2422028
12 03 2018 06:50
12 03 2018 07:00
                 1166.125977 7.354672909 1183.996379 181.5292969
                 1564.103027 8.404951096 1769.715068 181.0516052
12 03 2018 07:10
12 03 2018 07:20 1043.109009 6.972259998 1003.549982 180.134201
12 03 2018 07:30 1488.350952 8.047877312 1557.532158 181.7066956
12 03 2018 07:40 1565.082031 8.044137001 1555.372587 180.539505
12 03 2018 07:50 724.690979 6.080605984 651.5181254 185.6363983
12 03 2018 08:00 682.2935181 6.081748009 651.9130811 187.4279938
12 03 2018 08:10
                 1003.958984 7.100872993 1062.051996 189.5966949
12 03 2018 08:20 928.6542969 6.990286827 1011.622271 192.7622986
12 03 2018 08:30
                 1078.852051 7.261452198 1138.166166 185.8887939
                 996.1154785 6.894481182 969.186784 189.2510986
12 03 2018 08:40
                             7.887127876 1466.037157 191.8598022
12 03 2018 08:50
                 1341.875
12 03 2018 09:00
                 1305.448975 7.682342052 1353.675717 191.3226013
12 03 2018 09:10
                 1058.251953 7.259235859 1137.091551 191.5357971
12 03 2018 09:20
                 1105.921021 7.346475124 1179.916046 184.7781067
12 03 2018 09:30
                 403.1564026 5.196857929 385.8743934 198.3865051
12 03 2018 09:40
                 376.6955872 5.175075054 380.2031228 205.8703003
12 03 2018 09:50
                 146.0997925 3.876429081 105.4959653 209.7001953
12 03 2018 10:00 661.6016235 6.278252125 721.9492005 195.5628967
12 03 2018 10:10 805.0488892 6.402718067 768.4602849 192.6324005
12 03 2018 10:20 298.8534851 4.484199047 218.6626415 205.1089935
12 03 2018 10:30 180.7339935 4.147164822 150.8169678 210.3146057
12 03 2018 10:40 164.5227051 4.281483173 177.1239296 202.3829956
```

```
12 03 2018 10:50 286.2478943 4.524487972 227.2010444 213.3677979
                 794.180603 6.482016087 798.9742111 195.8858032
12 03 2018 11:00
                 749.309021 6.273851871 720.3355627 199.8005981
12 03 2018 11:10
12 03 2018 11:20
                 406.751709 5.427311897 448.3308751 206.2472992
12 03 2018 11:30
                 313.9732056 4.691827774 263.7447567 214.3993988
12 03 2018 11:40
                 576.7579956 5.982162952 618.9949293 210.7243958
                 218.716507 4.432437897 207.8343824 222.5167999
12 03 2018 11:50
12 03 2018 12:00 646.119873 6.303462982 731.2346368 217.1143036
12 03 2018 12:10 497.0845947 5.707274914 530.6500593 212.7413025
                 819.508728 6.640658855 862.1194176 209.5682068
12 03 2018 12:20
12 03 2018 12:30
                 826.5526123 6.847434044 948.7623484 210.4472961
12 03 2018 12:40
                 557.255188 6.070957184 648.1867658 207.8220062
12 03 2018 12:50
                 213.5682983 4.375234127 196.0476249 204.2270966
12 03 2018 13:00
                 177.8562012 4.42628479 206.5575653 216.9414978
12 03 2018 13:10 408.976593 5.317218781 417.9239118 213.0496063
12 03 2018 13:20 654.1920166 6.167294979 681.8947149 210.7397003
12 03 2018 13:30 524.8826904 5.701951027 529.0147603 208.7707062
12 03 2018 13:40 599.0250244 6.09131813 655.2282688 207.6132965
12 03 2018 13:50 531.1533203 5.890785217 588.7595076 209.2501068
12 03 2018 14:00
                 1261.504028 7.780132771 1406.714641 204.569397
12 03 2018 14:10
                 1306.402954 7.731473923 1380.178584 203.7230072
                 685.4857178 6.284797192 724.3532327 203.7566986
12 03 2018 14:20
12 03 2018 14:30
                 611.5794067 6.141419888 672.7437514 199.642807
12 03 2018 14:40
                 1326.467041 7.850055218 1445.334398 193.4987946
12 03 2018 14:50
                 1575.38501 8.323646545 1720.421484 192.7929993
12 03 2018 15:00 1803.880005 8.915434837 2089.624454 195.7389069
12 03 2018 15:10
                 1834.161987 8.696194649 1950.284352 196.5462952
                 1748.386963 8.564061165 1867.642546 196.3923035
12 03 2018 15:20
                 1689.665039 8.564416885 1867.863504 197.1567993
12 03 2018 15:30
                 1694.009033 8.490262032 1821.992
12 03 2018 15:40
                                                     191.0052948
12 03 2018 15:50
                 2403.794922 9.948659897 2759.764779 195.5072021
12 03 2018 16:00
                 2757.916992 10.89848042 3235.408526 198.8852997
12 03 2018 16:10
                 2574.697021 10.38568974 3009.51549 198.1112976
12 03 2018 16:20 2596.680908 10.36841965 3000.701769 200.0442963
                             10.38171005 3007.491828 199.5440979
12 03 2018 16:30 2590.2229
                 2395.062988 9.903279305 2730.482459 198.537796
12 03 2018 16:40
                 2189.35791 9.607727051 2523.057119 199.2279968
12 03 2018 16:50
12 03 2018 17:00
                 2420.330078 10.11861038 2863.672718 200.6661987
12 03 2018 17:10 2742.929932 10.97052002 3261.933954 199.1950989
12 03 2018 17:20 2686.416016 10.68655014 3150.170108 196.0328979
12 03 2018 17:30 3003.856934 11.39641953 3395.15878 198.1862946
12 03 2018 17:40 3504.396973 12.49687958 3578.897998 197.3981018
12 03 2018 17:50
                 3496.218994 12.83098984 3595.662644 199.4217987
12 03 2018 18:00
                 3314.048096 12.41940022 3572.607633 201.3072052
12 03 2018 18:10
                 3432.301025 12.52877045 3581.219473 199.9427948
12 03 2018 18:20
                 3570.14209 13.32581043 3600 200.1118927
                 3430.208008 12.26387024 3557.148731 194.9918976
12 03 2018 18:30
12 03 2018 18:40
                 3503.664063 12.47109032 3576.906917 192.6058044
                 3527.97998 12.6278801 3587.450884 192.7658997
12 03 2018 18:50
12 03 2018 19:00
                 3124.02002 11.93634033 3511.702102 192.3193054
12 03 2018 19:10
                 2701.38501 11.20536041 3340.229978 192.6260986
12 03 2018 19:20
                 2854.414063 11.35136032 3382.886448 195.3890991
12 03 2018 19:30
                 3111.563965 11.90616035 3506.598003 195.6208954
12 03 2018 19:40
                 3260.175049 12.26002026 3556.717302 197.8367004
12 03 2018 19:50
                 3410.389893 12.63035011 3587.587338 197.6795044
12 03 2018 20:00 3491.378906 12.73871994 3592.68284 193.9611969
12 03 2018 20:10 3598.218018 13.80282021 3600 190.5063019
12 03 2018 20:20 3323.207031 12.22706985 3552.927149 189.6519928
12 03 2018 20:30 2797.944092 11.07600975 3298.62362 187.1605988
```

```
12 03 2018 20:40 3535.816895 13.04226017 3600 193.1889954
                 3597.801025 13.17105961 3600 192.0865021
12 03 2018 20:50
12 03 2018 21:00
                 3550.054932 13.00154972 3600 189.1820068
12 03 2018 21:10 3588.422119 13.07211018 3600 190.272995
12 03 2018 21:20 3603.920898 14.04224014 3600 194.3562927
12 03 2018 21:30 3319.205078 12.39410973 3570.353104 190.4113007
12 03 2018 21:40 3388.60498 12.61056995 3586.469009 191.6600037
12 03 2018 21:50 3446.968994 12.41683006 3572.383062 189.156601
12 03 2018 22:00 3511.253906 12.64906025 3588.591407 187.4309998
                 3499.621094 13.71522999 3600 188.8614044
12 03 2018 22:10
12 03 2018 22:20 3474.445068 14.18572044 3600 188.3755951
12 03 2018 22:30 3466.355957 15.85019016 3600 188.0213928
12 03 2018 22:40 3462.312012 16.50363922 3600 185.7794037
12 03 2018 22:50 3461.947021 17.4140892 3600 185.7785034
12 03 2018 23:00 3461.159912 17.80727959 3600 188.7129974
12 03 2018 23:10 3461.033936 18.6352005 3600 191.0975037
12 03 2018 23:20 3461.263916 17.36904907 3600 188.5811005
12 03 2018 23:30 3491.441895 16.54063034 3600 184.584198
12 03 2018 23:40 3491.699951 16.78251076 3600 185.0679932
12 03 2018 23:50 3507.781006 16.30423927 3600 187.2803955
13 03 2018 00:00 3357.384033 12.70349026 3591.216744 190.7066956
13 03 2018 00:10 1920.255005 9.105202675 2212.019992 196.4644928
13 03 2018 00:20 2565.958984 10.28061962 2954.596924 189.5682068
13 03 2018 00:30 3550.690918 13.43202972 3600 185.1880035
13 03 2018 00:40 3551.437988 13.02591038 3600 187.4907074
13 03 2018 00:50 2012.396973 9.35476017 2374.73224 205.2272949
13 03 2018 01:00 1810.390015 8.850179672 2047.892277 200.300705
13 03 2018 01:10 2962.621094 11.19347954 3336.560293 196.9116058
13 03 2018 01:20 3404.543945 12.33590984 3564.784416 189.4468994
13 03 2018 01:30 3544.209961 13.7245903 3600 193.0361023
13 03 2018 01:40 3516.297119 14.38753986 3600 189.1716003
13 03 2018 01:50 3499.753906 14.53604031 3600 191.8209991
13 03 2018 02:00 3469.62207 16.22421074 3600 198.8999939
13 03 2018 02:10 3464.791992 15.28339005 3600 197.5653076
13 03 2018 02:20 3477.163086 15.3090601 3600 194.0370941
                 3508.666992 14.6156702 3600 195.1307983
13 03 2018 02:30
13 03 2018 02:40
                 3478.064941 15.81369972 3600 187.1206055
13 03 2018 02:50 3463.010986 16.20417976 3600 185.2144928
13 03 2018 03:00 3461.86499 17.66309929 3600 181.4886017
13 03 2018 03:10 3522.403076 19.6509304 3600 182.7230988
13 03 2018 03:20 3587.159912 14.91413021 3600 201.0444946
13 03 2018 03:30 3507.802979 13.70576
                                        3600 203.1992035
13 03 2018 03:40 3538.879883 13.58619976 3600 192.8444977
13 03 2018 03:50 3463.220947 14.35665989 3600 193.0529938
13 03 2018 04:00 3462.587891 14.08924007 3600 190.6152954
13 03 2018 04:10 3462.341064 15.00119972 3600 192.545105
                 3463.111084 14.63399982 3600 184.9002075
13 03 2018 04:20
13 03 2018 04:30 3469.483887 13.71617985 3600 181.1071014
13 03 2018 04:40 3483.145996 12.6886797 3590.545813 182.2373962
13 03 2018 04:50
                 3467.000977 12.48670006 3578.124265 185.6865997
13 03 2018 05:00 3473.2229
                           13.22636986 3600 189.0908051
13 03 2018 05:10 3462.522949 13.89756966 3600 192.7084045
13 03 2018 05:20 3468.316895 14.88047981 3600 195.6029053
13 03 2018 05:30 3536.362061 13.14039993 3600 197.3625031
13 03 2018 05:40 3030.998047 11.07938957 3299.757632 192.245697
13 03 2018 05:50 2983.431885 10.57962036 3102.910029 197.4315033
13 03 2018 06:00 3342.251953 12.40997028 3571.778648 196.7153015
13 03 2018 06:10 3486.989014 13.89216995 3600 196.0467072
13 03 2018 06:20 3506.675049 14.47630978 3600 201.355896
```

```
13 03 2018 06:30 3518.358887 14.09041023 3600 203.9826965
13 03 2018 06:40 3476.512939 13.99855042 3600 199.8457947
13 03 2018 06:50 3321.214111 12.47646999 3577.330685 200.3818054
13 03 2018 07:00 2655.034912 10.12040997 2864.725483 201.3363953
13 03 2018 07:10 3150.928955 11.51896
                                         3426.470156 200.0063934
13 03 2018 07:20 3172.641113 11.54475975 3432.685128 201.2720947
13 03 2018 07:30 2740.165039 10.29969025 2964.79702 201.9423981
13 03 2018 07:40 2733.500977 10.69322968 3153.025575 202.7816925
                 2602.217041 9.956677437 2764.869716 204.608902
13 03 2018 07:50
13 03 2018 08:00
                 2457.541016 10.07441044 2837.507197 213.1401062
13 03 2018 08:10 1274.088013 7.655891895 1339.531684 224.5471954
13 03 2018 08:20 1877.635986 8.563497543 1867.292468 229.6941071
13 03 2018 08:30 2869.595947 10.6968298 3154.55995 226.6893005
13 03 2018 08:40 3452.759033 12.3551302 3566.682383 229.0570068
13 03 2018 08:50 3468.352051 12.21640968 3551.663346 231.405899
13 03 2018 09:00 2655.529053 10.20751953 2914.526752 230.2073975
13 03 2018 09:10 2253.663086 9.348080635 2370.358697 230.7285004
13 03 2018 09:20 2500.440918 9.860652924 2702.371314 231.8052063
13 03 2018 09:30 2216.431885 9.452671051 2438.919715 228.5348969
13 03 2018 09:40 1546.213013 10.68525028 3149.613118 219.1735992
13 03 2018 09:50 565.8881836 13.47113991 3600 208.0128021
13 03 2018 10:00
                 3582.041992 13.39766979 3600 208.781601
13 03 2018 10:10
                 3597.409912 13.78203964 3600 205.6916962
13 03 2018 10:20 3565.2771
                            13.38521004 3600 202.9573975
13 03 2018 10:30 3598.103027 13.66808987 3600 199.6414032
13 03 2018 10:40 3600.524902 13.71926022 3600 202.7637024
13 03 2018 10:50 3559.36792 12.99775028 3597.934447 198.6343994
13 03 2018 11:00 3588.157959 12.9792099 3597.877863 196.5995941
13 03 2018 11:10 3602.116943 14.24143982 3600 201.9125061
13 03 2018 11:20 3602.850098 15.08893013 3600 196.1499939
13 03 2018 11:30 3601.729004 13.67432022 3600 195.4429016
13 03 2018 11:40 3558.947998 12.86540031 3596.457798 194.6575012
13 03 2018 11:50 3432.404053 12.06389999 3531.538766 191.3925934
13 03 2018 12:00 3544.50708 12.48908043 3578.306616 194.7763062
13 03 2018 12:10 3375.964111 11.82689953 3492.42911 197.043396
13 03 2018 12:20 3087.322021 10.9211998 3243.904806 201.472702
                 2327.583984 9.530035973 2463.506931 204.605896
13 03 2018 12:30
13 03 2018 12:40
                 1243.333984 7.302142143 1158.018074 207.6033936
13 03 2018 12:50 1182.904053 7.065337181 1045.674361 197.6885071
13 03 2018 13:00 1082.255981 7.121416092 1071.59555 197.4548035
13 03 2018 13:10 1780.348999 8.204873085 1649.410252 197.2725067
13 03 2018 13:20 2126.959961 9.333805084 2361.014205 187.9945068
13 03 2018 13:30 1088.968018 6.959040165 997.6562284 226.2682037
13 03 2018 13:40 2493.021973 10.16366005 2889.734254 267.4949951
13 03 2018 13:50 2777.504883 11.30630016 3370.197128 253.0491943
13 03 2018 14:00 3369.803955 11.83080006 3493.152517 238.3764038
13 03 2018 14:10 3047.649902 10.92510033 3245.351288 235.6042938
                 2521.435059 11.19484997 3336.985131 247.8110962
13 03 2018 14:20
13 03 2018 14:30 2448.966064 11.90328979 3506.104226 248.5903015
13 03 2018 14:40
                 2146.781006 12.07431984 3533.036825 254.4682007
13 03 2018 14:50
                 2677.680908 11.48803043 3418.847994 256.2561951
13 03 2018 15:00 2150.053955 9.35147953 2372.584086 247.1587982
13 03 2018 15:10
                 1602.019043 8.123675346 1601.595848 238.1992035
13 03 2018 15:20 983.8828735 7.568776131 1293.576952 239.3179932
13 03 2018 15:30
                 1179.612061 9.295455933 2335.930939 245.0046997
13 03 2018 15:40 865.1251831 10.07938004 2840.478799 243.9618073
13 03 2018 15:50 1469.287964 9.758314133 2632.436396 238.6656952
13 03 2018 16:00 2583.468018 10.07448959 2837.554588 227.0948944
13 03 2018 16:10 3161.23999 11.16117001 3326.426734 224.7756042
```

```
13 03 2018 16:20 2942.51001 10.90106964 3236.38294 225.8800964
13 03 2018 16:30
                 3055.093018 10.85157013 3217.479434 227.1029053
                 3053.163086 11.37952042 3390.604616 227.8069
13 03 2018 16:40
13 03 2018 16:50 2849.961914 10.92467022 3245.19196 225.5471954
13 03 2018 17:00 2770.731934 10.79856014 3196.584618 227.4980011
13 03 2018 17:10 2391.075928 10.24520969 2935.38043 221.9214935
13 03 2018 17:20 2407.299072 10.03689003 2814.826703 217.4239044
13 03 2018 17:30
                 2391.954102 9.925616264 2744.97821 218.2003021
13 03 2018 17:40
                 2750.271973 10.56884003 3097.981561 225.0314941
                 2639.818115 10.31355953 2972.149966 227.8820038
13 03 2018 17:50
13 03 2018 18:00
                 2139.61792 9.190365791 2267.363696 227.8110046
13 03 2018 18:10
                 2186.169922 9.333093643 2360.548608 224.3737946
13 03 2018 18:20
                 2315.969971 9.560129166 2486.830445 225.7194977
13 03 2018 18:30
                 2356.480957 9.729194641 2611.894739 220.1567993
13 03 2018 18:40 3007.966064 11.14031982 3319.766931 226.9132996
13 03 2018 18:50 3101.111084 11.91228962 3507.647485 228.9120941
13 03 2018 19:00 2737.725098 12.52466011 3580.928967 228.6381073
13 03 2018 19:10 2572.282959 11.00924969 3275.698002 221.647995
13 03 2018 19:20 3439.281982 11.95946026 3515.50489 221.8339996
                 3421.800049 11.74112034 3475.825952 222.0113068
13 03 2018 19:30
                 3461.445068 12.1177597 3539.086093 226.414505
13 03 2018 19:40
                 3500.345947 12.53229046 3581.466215 227.8907013
13 03 2018 19:50
13 03 2018 20:00
                 3602.566895 13.52995014 3600 227.1813049
13 03 2018 20:10
                 3603.133057 14.10929966 3600 225.0536041
13 03 2018 20:20
                 3603.37793 14.28487015 3600 225.5294037
13 03 2018 20:30
                 3603.243896 13.68671036 3600 227.8536072
13 03 2018 20:40
                 3603.155029 13.52890015 3600 225.9866028
13 03 2018 20:50
                 3603.224121 13.75887012 3600 225.4615936
                 3601.875977 14.20808029 3600 223.7722931
13 03 2018 21:00
13 03 2018 21:10
                 3603.36499 14.43280029 3600 220.6085052
13 03 2018 21:20
                 3603.170898 14.71994972 3600 220.4062042
13 03 2018 21:30
                 3603.210938 15.14853001 3600 223.4673004
13 03 2018 21:40
                 3603.452881 14.18820953 3600 225.0975037
13 03 2018 21:50
                 3600.594971 13.91668987 3600
                                               223.3851929
13 03 2018 22:00
                 3602.968994 13.81777954 3600
                                               219.3052063
13 03 2018 22:10
                 3602.293945 13.84599018 3600
                                               217.5334015
13 03 2018 22:20
                 3603.207031 15.69569969 3600
                                               215.7825928
                                               215.7120056
13 03 2018 22:30
                 3603.154053 15.9078598 3600
13 03 2018 22:40
                 3603.035889 15.65501022 3600
                                               216.615799
13 03 2018 22:50
                 3603.184082 14.63403988 3600
                                               216.2268066
13 03 2018 23:00
                 3603.305908 14.70242977 3600
                                               215.7256927
                 3603.322998 14.62324047 3600
13 03 2018 23:10
                                               215.9411926
13 03 2018 23:20
                 3603.629883 14.49063015 3600
                                               213.7803955
13 03 2018 23:30
                 3602.927002 14.78818035 3600
                                               213.5500031
13 03 2018 23:40
                 3603.516113 14.53761959 3600 211.8428955
13 03 2018 23:50
                 3603.342041 14.69089031 3600 210.6045074
14 03 2018 00:00
                 3603.679932 15.09035015 3600
                                               210.0572052
                 3603.658936 14.86499023 3600
14 03 2018 00:10
                                               209.3054962
                                               209.3338013
14 03 2018 00:20
                 3603.535889 14.2512598 3600
14 03 2018 00:30
                 3603.530029 14.21037006 3600
                                               210.0653076
14 03 2018 00:40
                 3602.487061 14.38850021 3600
                                               210.1898041
14 03 2018 00:50
                 3603.160889 14.86818027 3600
                                               209.9409943
14 03 2018 01:00
                 3603.446045 15.01064968 3600
                                               209.381897
14 03 2018 01:10
                 3603.511963 14.72694016 3600
                                               210.582901
14 03 2018 01:20
                 3603.374023 14.3719101 3600
                                               211.1710052
14 03 2018 01:30
                 3603.799072 14.57629013 3600
                                               213.7501984
14 03 2018 01:40
                 3603.647949 14.68972015 3600 210.3569946
14 03 2018 01:50 3603.524902 14.86995983 3600 208.7583008
14 03 2018 02:00 3603.60791 14.12407017 3600 211.0545044
```

```
14 03 2018 02:10
                 3601.893066 14.04417038 3600
                                               206.5023041
                 3603.427002 14.78938007 3600
14 03 2018 02:20
                                               206.941803
14 03 2018 02:30
                 3603.14209 14.32497025 3600
                                               205.7846985
14 03 2018 02:40
                 3603.475098 14.53328037 3600
                                              207.0601044
14 03 2018 02:50
                 3603.513916 14.54854012 3600
                                              208.4804993
14 03 2018 03:00
                 3603.410889 14.07664967 3600
                                               209.0534973
14 03 2018 03:10
                 3603.628906 14.20273972 3600
                                               204.8159943
14 03 2018 03:20
                 3599.121094 13.75704956 3600
                                               204.0274048
14 03 2018 03:30
                 3603.407959 14.33139038 3600
                                               204.3235931
                 3603.602051 14.34547043 3600
14 03 2018 03:40
                                               202.378006
                 3603.397949 15.02812004 3600
14 03 2018 03:50
                                               203.8892975
14 03 2018 04:00
                 3602.967041 14.68319035 3600
                                              204.1175995
14 03 2018 04:10
                 3603.749023 13.9254303 3600
                                               202.3457031
14 03 2018 04:20
                 3603.754883 13.76294041 3600
                                              203.3764038
14 03 2018 04:30
                 3603.870117 13.84869003 3600
                                               202.4570007
14 03 2018 04:40
                 3603.801025 14.55327988 3600
                                               205.4416046
14 03 2018 04:50
                 3603.813965 14.33498001 3600
                                              206.0592041
14 03 2018 05:00
                 3602.312988 14.00860977 3600 202.6291046
                 3603.780029 13.92665005 3600 198.9360046
14 03 2018 05:10
14 03 2018 05:20
                 3603.475098 13.53544998 3600
                                              198.1087036
14 03 2018 05:30
                 3603.439941 14.06334972 3600
                                              197.0364075
                                              198.2975006
14 03 2018 05:40
                 3603.420898 13.61515999 3600
14 03 2018 05:50
                 3584.469971 13.45738029 3600
                                              197.7881927
                                              196.3744965
14 03 2018 06:00
                 3597.350098 13.49351978 3600
14 03 2018 06:10
                 3603.099121 14.10834026 3600
                                              196.0041962
14 03 2018 06:20
                 3601.246094 13.60523987 3600
                                              194.8654938
14 03 2018 06:30
                 3592.12793 13.61487961 3600
                                              195.4064941
                 3597.870117 13.94643974 3600
14 03 2018 06:40
                                              196.5791016
                 3591.164063 13.65997982 3600 198.0852051
14 03 2018 06:50
14 03 2018 07:00
                 3585.695068 12.87662029 3596.680184 197.656601
                           11.57499981 3439.805529 198.0397034
                 3285.5979
14 03 2018 07:10
14 03 2018 07:20
                 3177.488037 11.54681015 3433.173506 199.9730988
14 03 2018 07:30
                 3489.400879 12.06587029 3531.823435 199.0175934
14 03 2018 07:40 3168.004883 11.96790981 3516.871578 201.1585999
14 03 2018 07:50
                 3214.548096 11.43558979 3405.492944 200.766098
                 2725.778076 10.6084404 3115.937165 201.5287018
14 03 2018 08:00
14 03 2018 08:10
                 1794.024048 8.391713142 1761.653031 199.5431061
                 1776.293945 8.317418098 1716.667548 202.4532013
14 03 2018 08:20
14 03 2018 08:30
                 2422.391113 9.595573425 2513.883812 200.5395966
14 03 2018 08:40
                 2963.884033 11.22574043 3346.454367 204.1587067
                                       3516.156608 210.2006073
14 03 2018 08:50
                 3233.235107 11.96348
14 03 2018 09:00 2857.343994 10.94923019 3254.220723 206.4197998
14 03 2018 09:10
                 3181.950928 11.48958015 3419.234374 207.8040009
14 03 2018 09:20
                 2778.506104 10.64857006 3133.719234 210.526001
14 03 2018 09:30
                 3213.990967 11.71140957 3469.762177 211.4190979
14 03 2018 09:40
                 2571.596924 10.17203999 2894.515201 214.3798065
                 3138.937988 11.35575008 3384.100275 214.8536072
14 03 2018 09:50
                 3083.434082 11.14340973 3320.759874 213.6040039
14 03 2018 10:00
14 03 2018 10:10
                 2533.936035 10.03804016 2815.528394 222.4221039
14 03 2018 10:20
                 1748.137939 8.373662949 1750.682612 229.622406
14 03 2018 10:30
                 14 03 2018 10:40
                 1427.531982 7.71962595 1373.76046 227.4035034
14 03 2018 10:50
                 1888.470947 8.617485046 1900.921635 240.3865967
14 03 2018 11:00
                 1981.785034 8.757260323 1988.836984 235.7830963
14 03 2018 11:10
                 2494.01001 9.617847443 2530.655834 239.4732056
14 03 2018 11:20
                 2590.113037 10.05095005 2823.376592 239.2666016
14 03 2018 11:30 2484.647949 9.574184418 2497.612109 238.4347992
14 03 2018 11:40 2493.417969 9.450340271 2437.390258 230.5950928
14 03 2018 11:50 2028.745972 8.959671974 2118.026191 235.0457001
```

```
14 03 2018 12:00 2737.194092 10.24615002 2935.895414 231.7532043
                 2073.451904 9.047631264 2174.741181 233.3036041
14 03 2018 12:10
14 03 2018 12:20
                 1238.699951 7.349095821 1181.219399 229.7825012
14 03 2018 12:30
                 2261.941895 9.33029747 2358.718765 231.7816925
14 03 2018 12:40
                 3291.034912 11.33831024 3379.254553 211.194397
14 03 2018 12:50
                 3465.217041 12.19299984 3548.823176 199.3766937
                 3009.454102 11.49365997 3420.249303 193.8262939
14 03 2018 13:00
                 1283.264038 7.291199207 1152.656179 205.2133026
14 03 2018 13:10
14 03 2018 13:20
                 1877.781006 8.723022461 1967.195132 218.486496
                 2952.834961 10.92230034 3244.313294 214.8849945
14 03 2018 13:30
14 03 2018 13:40
                 3453.226074 12.18463993 3547.787255 207.9062042
14 03 2018 13:50 3537.215088 12.74783039 3593.032316 205.2843018
14 03 2018 14:00 3578.905029 14.46883965 3600 211.7039948
14 03 2018 14:10 3412.552979 12.25751972 3556.435815 199.5364075
14 03 2018 14:20 3125.500977 11.37950993 3390.601771 191.9476013
14 03 2018 14:30 2172.136963 9.353273392 2373.758678 232.8777008
14 03 2018 14:40
                 1898.098999 8.715836525 1962.661387 225.4259033
14 03 2018 14:50 3466.579102 14.12784958 3600 210.5747986
14 03 2018 15:00 3603.51001 15.27598953 3600 196.923996
14 03 2018 15:10 3178.666992 11.87561035 3501.26859 205.3170929
14 03 2018 15:20 2872.059082 10.97653961 3264.095844 193.4355011
14 03 2018 15:30 2930.930908 10.97924042 3265.063106 192.3715973
                 3467.37207 12.27408981 3558.282388 206.6618958
14 03 2018 15:40
14 03 2018 15:50
                 3152.559082 11.46883965 3414.024006 200.7332001
14 03 2018 16:00 2508.312988 10.26702976 2947.264641 199.7837067
14 03 2018 16:10 2750.896973 10.93330956 3248.383996 196.7144012
14 03 2018 16:20 2587.139893 10.20203018 2911.454861 207.5554962
14 03 2018 16:30 2231.187012 9.00207901 2145.331245 230.8242035
14 03 2018 16:40 1121.251953 7.159204006 1089.296968 259.2172852
14 03 2018 16:50 970.2166138 6.858222008 953.4219191 263.2013855
14 03 2018 17:00 666.4094849 6.535968781 820.1324763 262.4880066
14 03 2018 17:10 2026.609009 8.553926468 1861.350959 252.0261993
14 03 2018 17:20 2672.014893 9.864784241 2705.121742 241.5789948
14 03 2018 17:30 2797.532959 10.3990097 3016.256736 243.3722992
14 03 2018 17:40 1033.333008 6.953859806 995.352661 247.5491943
                 2823.636963 10.27949047 2953.989722 233.2870941
14 03 2018 17:50
14 03 2018 18:00
                 2732.039063 10.08094978 2841.41587 227.2135925
                 3047.48291 10.88720989 3231.148602 241.4046021
14 03 2018 18:10
14 03 2018 18:20 2417.144043 9.556744576 2484.223553 246.1291962
14 03 2018 18:30 2482.677979 9.963247299 2769.037657 249.1972046
14 03 2018 18:40 2083.239014 8.945305824 2108.793232 237.3170013
14 03 2018 18:50 1740.313965 7.915279865 1481.86057 225.7501068
14 03 2018 19:00 3198.677002 12.62780952 3587.446972 216.5751953
14 03 2018 19:10
                 3603.0979
                            13.41110039 3600 225.1945953
14 03 2018 19:20
                 2122.379883 9.054163933 2178.965302 218.9338989
14 03 2018 19:30
                 690.4105835 6.242335796 708.8390668 220.5937958
14 03 2018 19:40
                 946.2349854 6.870130062 958.5816692 231.4754944
                 1185.534058 7.325591087 1169.565303 246.0451965
14 03 2018 19:50
14 03 2018 20:00 1535.954956 8.274922371 1691.14247 262.0517883
14 03 2018 20:10
                 1254.579956 7.748125076 1389.227352 276.1769104
14 03 2018 20:20
                 362.282196 5.393813133 438.9656651 271.1037903
14 03 2018 20:30
                 609.8521729 6.243828773 709.381268 265.8442993
14 03 2018 20:40
                 861.7052002 7.073217869 1049.292149 256.0693054
14 03 2018 20:50
                 828.2376709 7.031723976 1030.333911 240.3218994
14 03 2018 21:00
                 870.227478 7.011104107 1020.9953
                                                     239.2337036
14 03 2018 21:10
                 905.2581787 7.028597832 1028.914598 240.9640961
14 03 2018 21:20 659.8355713 6.516060829 812.2876133 227.7386932
14 03 2018 21:30 780.8931274 6.979738235 1006.893708 206.4972992
14 03 2018 21:40 1446.071045 8.570579529 1871.692815 194.2433014
```

```
14 03 2018 21:50 2011.545044 9.526832581 2461.004861 184.085495
14 03 2018 22:00
                 2275.812988 9.844158173 2691.334131 184.0572968
14 03 2018 22:10
                 2527.516113 10.45440006 3043.766435 182.5596924
14 03 2018 22:20 2724.227051 10.77188015 3185.810172 179.3697052
14 03 2018 22:30 2346.415039 9.7442379 2622.542616 176.5352936
14 03 2018 22:40 1828.80603 8.332146645 1725.549773 180.5426025
14 03 2018 22:50
                 1473.051025 7.761147022 1396.327116 190.2433929
                 1806.114014 8.613926888 1898.69934 194.0868988
14 03 2018 23:00
14 03 2018 23:10
                 2496.254883 9.950899124 2761.192601 199.5325928
                 2685.429932 10.47463989 3053.610033 198.6985016
14 03 2018 23:20
14 03 2018 23:30
                 2398.968994 9.772854805 2642.586263 197.8973999
14 03 2018 23:40 2841.344971 10.71704006 3163.113212 196.2601013
14 03 2018 23:50 3117.829102 11.26519012 3358.251853 192.8656006
15 03 2018 00:00 3393.945068 11.8246603 3492.012583 192.6616058
15 03 2018 00:10 3357.414063 11.78859043 3485.178862 193.3811035
15 03 2018 00:20 3289.145996 11.49872971 3421.505926 195.3733063
15 03 2018 00:30 3298.831055 11.50864983 3423.950203 197.3652954
15 03 2018 00:40 3177.251953 11.33633995 3378.703167 197.3612976
15 03 2018 00:50 3466.022949 11.92276955 3509.426672 201.3623047
15 03 2018 01:00 3543.327881 12.19731045 3549.352864 201.3551025
15 03 2018 01:10 3506.072021 12.1472702 3543.016415 201.0596008
15 03 2018 01:20 3304.809082 11.74617958 3476.842343 201.8766022
15 03 2018 01:30
                 3293.166992 11.90705967 3506.7524
                                                     199.3820038
15 03 2018 01:40
                 2784.813965 11.02363014 3280.7214
                                                     198,9279022
15 03 2018 01:50 2756.003906 10.75636959 3179.466164 201.8421021
15 03 2018 02:00 2938.080078 11.10009956 3306.650812 205.986496
15 03 2018 02:10 2830.321045 10.77334023 3186.404315 208.0328979
15 03 2018 02:20 2639.271973 10.34014988 2986.094621 205.8143005
15 03 2018 02:30 2719.24707 10.44023991 3036.813601 209.7949982
15 03 2018 02:40 2445.947998 10.13654995 2874.123823 211.9122925
15 03 2018 02:50 2142.708984 9.5945158 2513.083057 213.5489044
15 03 2018 03:00 2222.490967 9.791016579 2655.163845 213.3677979
15 03 2018 03:10 2738.00708 10.67854023 3146.731073 209.6302032
15 03 2018 03:20 2859.018066 10.94676971 3253.322529 209.0928955
15 03 2018 03:30 2642.52002 10.61795998 3120.192902 208.7153931
15 03 2018 03:40 2363.805908 10.23015976 2927.103116 205.3444061
                 2243.38501 10.09969044 2852.54517 203.9044037
15 03 2018 03:50
15 03 2018 04:00
                 2469.977051 10.50667953 3068.966838 203.9113007
15 03 2018 04:10 2622.931885 10.83815002 3212.253703 203.8014984
15 03 2018 04:20 2590.285889 10.80018997 3197.237177 204.0021973
15 03 2018 04:30 2391.010986 10.20788956 2914.733503 205.8390045
15 03 2018 04:40 2454.22998 10.40740967 3020.482748 204.9483948
15 03 2018 04:50 2518.75293 10.40835953 3020.959396 201.5363007
15 03 2018 05:00 2251.237061 9.693123817 2586.047914 204.5570984
15 03 2018 05:10
                 1947.942017 9.12097168 2222.250538 205.694397
15 03 2018 05:20
                 1913.81604 9.03574276 2167.057957 203.4389038
15 03 2018 05:30 2196.074951 9.602060318 2518.786511 202.6931
15 03 2018 05:40 2449.479004 10.0580101 2827.646787 200.186203
15 03 2018 05:50 2256.746094 9.52439785 2459.100675 200.5321045
15 03 2018 06:00 1962.577026 8.976187706 2128.651509 199.8157043
15 03 2018 06:10 1884.272949 8.906311989 2083.778149 199.1777039
15 03 2018 06:20 2642.329102 10.35412979 2993.346111 198.1858978
15 03 2018 06:30 2877.49707 10.91067982 3239.985771 202.3242035
15 03 2018 06:40 2445.197998 9.873535156 2710.929244 197.2023926
15 03 2018 06:50 2507.530029 9.97521019 2776.591814 194.7366943
15 03 2018 07:00 2716.310059 10.37302017 3003.05774 199.3426971
15 03 2018 07:10 2884.129883 10.50234032 3066.903131 202.8793945
15 03 2018 07:20 2141.308105 9.274403572 2322.17405 196.2451019
15 03 2018 07:30 1441.18396 7.923611164 1486.560044 190.2037964
```

```
15 03 2018 07:40 1427.323975 7.705663204 1366.218731 197.4747009
15 03 2018 07:50
                  1378.954956 7.783113003 1408.349068 214.5413055
15 03 2018 08:00
                  1711.322998 8.474946022 1812.566559 220.1656036
15 03 2018 08:10
                  1813.834961 8.745517731 1981.406993 219.4615021
15 03 2018 08:20
                  2459.303955 9.780912399 2648.180059 217.7592926
15 03 2018 08:30
                  1993.821045 8.863243103 2056.230305 219.695694
15 03 2018 08:40
                  927.8911133 6.660168171 870.0814029 223.2514954
                  312.6530151 4.763076782 279.8575832 232.4037933
15 03 2018 08:50
15 03 2018 09:00
                  502.9529114 5.726369858 536.5383423 233.7436066
                  618.2094116 6.115009785 663.4773957 236.2669983
15 03 2018 09:10
15 03 2018 09:20
                  1313.041016 7.861135006 1451.505556 240.582901
15 03 2018 09:30
                  1419.578979 8.012541771 1537.187031 237.5283051
15 03 2018 09:40
                  1300.745972 7.59615612 1307.914642 235.5364075
15 03 2018 09:50
                  1463.79895 7.839150906 1439.274591 233.095993
15 03 2018 10:00
                  1179.357056 7.198566914 1107.940636 229.2433929
15 03 2018 10:10
                  1300.972046 7.572581768 1295.563922 229.4055939
15 03 2018 10:20
                  1359.305054 7.610927105 1315.690059 227.5933075
15 03 2018 10:30
                  1061.728027 7.16435194 1091.723289 226.8860016
                  674.7282715 6.536303997 820.2649493 217.3916016
15 03 2018 10:40
15 03 2018 10:50
                  561.8363037 6.252275944 712.45352
                                                       208.0384064
                  506.776886 6.164093971 680.7587672 198.9651031
15 03 2018 11:00
                  439.8821106 5.826818943 568.114787 199.3551941
15 03 2018 11:10
15 03 2018 11:20
                  346.1648865 5.279213905 407.6718442 200.5740967
15 03 2018 11:30
                  205.6757965 4.536602974 229.7877678 193.6408997
15 03 2018 11:40
                  90.75379944 3.69549489 76.95288787 189.9857025
15 03 2018 11:50
                  1.38112998 2.845278978 0
                                                181.7693024
15 03 2018 12:00
                  132.4790955 4.024905205 127.6377781 200.8986053
                  109.5522995 3.836519957 98.74988963 208.6289063
15 03 2018 12:10
                  108.5895996 3.979948997 124.1823709 217.1148987
15 03 2018 12:20
                  74.30461121 3.762933969 86.97934637 187.9299927
15 03 2018 12:30
                  98.20700836 3.84612298 100.3498632 208.4194946
15 03 2018 12:40
15 03 2018 12:50
                  136.4479065 4.140754223 149.5840053 212.1183014
15 03 2018 13:00
                  118.6159973 4.041943073 130.8264991 209.1094055
15 03 2018 13:10
                  23.66399956 3.199342012 25.55792343 211.155899
15 03 2018 13:20
                  0
                        1.720466971 0
                                          228.4463043
15 03 2018 13:30
                  0
                        2.633935928 0
                                          284.6578979
                        3.097640991 19.88721277 276.3756104
15 03 2018 13:40
                  0
15 03 2018 13:50
                  0
                        2.853179932 0
                                          281.3117981
15 03 2018 14:00
                        1.79461205
                                          288.4952087
15 03 2018 14:10
                  0
                        2.191113949 0
                                          332,2658081
15 03 2018 14:20
                        2.7557199
                                          341.5589905
                  0
                                    0
15 03 2018 14:30
                  0
                        2.178946018 0
                                          19.18897057
15 03 2018 14:40
                  0
                        1.787889957 0
                                          85.24835205
15 03 2018 14:50
                  0
                                          125.0858002
                        0.947359085 0
15 03 2018 15:00
                  0
                        0.827936471 0
                                          146.3975067
15 03 2018 15:10
                  0
                        1.403936982 0
                                          146.872406
15 03 2018 15:20
                  0
                        1.146713018 0
                                          314.9630127
                                          300.8431091
15 03 2018 15:30
                  0
                        1.206630945 0
15 03 2018 15:40
                  0
                        0.814610779 0
                                          278.4974976
15 03 2018 15:50
                  0
                        1.520444989 0
                                          261.9562988
15 03 2018 16:00
                  0
                        1.635028958 0
                                          251.8144073
15 03 2018 16:10
                                          239.7953033
                  0
                        2.387353897 0
15 03 2018 16:20
                        2.141371012 0
                                          218.2846069
15 03 2018 16:30
                                          214.4376068
                  0
                        1.739719033 0
15 03 2018 16:40
                                          207.1091003
                  0
                        2.35563302 0
15 03 2018 16:50
                  0
                        3.78016901 89.65850308 195.8018036
15 03 2018 17:00
                  169.678894 4.610482216 245.7584381 191.8318024
15 03 2018 17:10
                  368.7796936 5.431116104 449.4007532 196.7769012
                 463.6648865 5.790392876 556.5463805 198.7910004
15 03 2018 17:20
```

```
15 03 2018 17:30 558.0947266 6.133492947 669.9546424 201.7185974
15 03 2018 17:40
                 734.5698242 6.681032181 878.6446211 209.7077026
15 03 2018 17:50
                 665,2564697 6,444211006 784,3405599 213,1847992
15 03 2018 18:00
                 509.5289001 5.968200207 614.3174256 213.449295
15 03 2018 18:10 429.7662048 5.796795845 558.5700932 212.9909058
15 03 2018 18:20
                 505.9815063 5.986598969 620.4853696 212.4031067
15 03 2018 18:30
                 544.1356812 6.146793842 674.6384084 211.5727997
                 438.0192871 5.682624817 523.1018895 211.2588043
15 03 2018 18:40
15 03 2018 18:50 543.6334229 6.214258194 698.6867627 213.8439941
                 681.6171265 6.671555042 874.7487062 212.6472931
15 03 2018 19:00
15 03 2018 19:10
                 917.7039795 7.212979794 1114.819887 210.4237976
15 03 2018 19:20
                 886.4003296 6.982511997 1008.135726 210.2407074
15 03 2018 19:30
                 1008.377991 7.445089817 1229.656965 212.5180054
15 03 2018 19:40
                 1005.187988 7.459229946 1236.908406 207.5502014
15 03 2018 19:50
                 1119.43396 7.670586109 1347.378501 208.5572052
15 03 2018 20:00
                 1282.435059 7.990025997 1524.290169 213.4927063
15 03 2018 20:10
                 1457.11499 8.322463036 1719.707924 214.2929993
15 03 2018 20:20
                 1739.30896 8.848471642 2046.802711 213.6248016
15 03 2018 20:30 1854.56897 9.147841454 2239.701338 215.5428009
                 1756.662964 8.981554031 2132.106361 218.2118988
15 03 2018 20:40
15 03 2018 20:50
                 1785.536987 9.00478363 2147.07518 217.4217987
                 1666.930054 8.761835098 1991.7337
15 03 2018 21:00
                                                     216.7492065
15 03 2018 21:10
                 1626.886963 8.599235535 1889.532365 216.9179993
15 03 2018 21:20
                 1503.677979 8.345690727 1733.73354 218.8815002
15 03 2018 21:30
                 1719.968018 8.666535378 1931.638622 219.8549957
15 03 2018 21:40 1898.521973 9.118563652 2220.687743 225.4024048
15 03 2018 21:50 1534.812012 8.258587837 1681.372374 224.5312958
15 03 2018 22:00 1453.68396 8.142463684 1612.604536 221.0269928
15 03 2018 22:10 1384.176025 8.162384033 1624.313078 219.115799
15 03 2018 22:20
                 1267.052002 7.918522835 1483.688946 217.1351929
15 03 2018 22:30
                 1348.475952 8.013486862 1537.729522 217.4467926
15 03 2018 22:40
                 1446.727051 8.084262848 1578.613512 216.6311035
15 03 2018 22:50
                 1521.062988 8.355378151 1739.596213 214.9756927
15 03 2018 23:00
                 1524.463989 8.412258148 1774.171001 214.3271942
                 1532.133057 8.624264717 1905.158227 209.6351013
15 03 2018 23:10
15 03 2018 23:20
                 1519.390015 8.453644753 1799.486557 206.5041962
                 1370.77002 7.96536684 1510.226483 206.7425995
15 03 2018 23:30
                 1243.354004 7.725408077 1376.890544 207.408905
15 03 2018 23:40
15 03 2018 23:50 1322.439941 8.032868385 1548.874915 206.794693
16 03 2018 00:00 1258.640991 7.779164791 1406.184005 209.1049042
16 03 2018 00:10 1219.218994 7.831733227 1435.160158 207.8836975
16 03 2018 00:20 1213.272949 7.767388821 1399.73742 207.6932983
16 03 2018 00:30 1152.026978 7.510806084 1263.547774 208.8674927
16 03 2018 00:40
                 1193.411011 7.675241947 1349.870396 207.0355988
16 03 2018 00:50
                 1262.996948 7.84788084 1444.12496 206.5787964
16 03 2018 01:00
                 1303.897949 7.999987125 1529.989327 208.1390076
16 03 2018 01:10
                 1410.33606 8.229243279 1663.87945 208.2565002
                 1578.821045 8.602853775 1891.788734 205.6257935
16 03 2018 01:20
16 03 2018 01:30
                 1769.800049 9.008816719 2149.676249 206.653595
16 03 2018 01:40
                 1483.368042 8.362879753 1744.141304 204.9358063
16 03 2018 01:50
                 1284.473022 8.0176754 1540.134885 199.7378998
16 03 2018 02:00
                 1331.760986 8.14949131 1616.730876 198.4295959
16 03 2018 02:10
                 1405.18103 8.290287971 1700.354072 197.9098053
16 03 2018 02:20
                 1429.828003 8.322793961 1719.907433 197.5178986
16 03 2018 02:30
                 1354.472046 8.158922195 1622.275639 200.717804
16 03 2018 02:40 1080.859009 7.478868008 1247.02988 202.9304962
16 03 2018 02:50 1152.390991 7.702888012 1364.722608 201.8468933
16 03 2018 03:00 1175.168945 7.565151215 1291.68611 203.3540039
16 03 2018 03:10 1173.734985 7.482841969 1249.085252 205.6640015
```

```
16 03 2018 03:20 1376.822998 8.037807465 1551.721283 204.7230988
                 1506.449951 8.389660835 1760.404391 202.1246033
16 03 2018 03:30
16 03 2018 03:40
                 1802.837036 8.955608368 2115.413658 201.9633026
16 03 2018 03:50 2106.600098 9.43500042 2427.325803 202.6338043
16 03 2018 04:00
                 2221.274902 9.745351791 2623.327986 201.8453064
16 03 2018 04:10
                 2479.14209 10.2792902 2953.881988 201.3724976
                 2555.368896 10.39509964 3014.282941 202.4286957
16 03 2018 04:20
                 2724.595947 10.53606033 3082.808274 202.129303
16 03 2018 04:30
                 3061.63501 11.14126968 3320.072391 202.9954987
16 03 2018 04:40
16 03 2018 04:50
                 3098.153076 11.2046299 3340.005216 203.3318024
16 03 2018 05:00
                 3238.927002 11.45866966 3411.438011 202.0028992
16 03 2018 05:10 3298.538086 11.8922596 3504.19341 203.6878052
16 03 2018 05:20 3382.454102 11.9112196 3507.464745 203.7279968
16 03 2018 05:30 3156.437012 11.54146004 3431.897469 199.0848999
16 03 2018 05:40 3043.76709 11.43447971 3405.204321 197.7339935
16 03 2018 05:50 2639.221924 10.51200008 3071.4904
                                                   200.1721039
16 03 2018 06:00 2952.634033 11.23509026 3349.280293 201.2023926
16 03 2018 06:10 3149.585938 11.56361008 3437.144389 200.8258057
16 03 2018 06:20 3398.666016 12.00755024 3523.119185 201.1645966
16 03 2018 06:30 3197.415039 11.60657978 3447.053842 199.2205963
16 03 2018 06:40 2780.576904 10.67776012 3146.395271 197.8744965
16 03 2018 06:50 2722.262939 10.34634018 2989.312351 198.6022949
16 03 2018 07:00 3059.576904 11.06309986 3294.26855 199.7843018
16 03 2018 07:10 2430.1521
                            9.787612915 2652.81513 198.398407
16 03 2018 07:20 1993.521973 8.81084919 2022.840386 197.2030029
16 03 2018 07:30 1945.292969 8.801044464 2016.607581 193.3267059
16 03 2018 07:40 1928.932983 8.475093842 1812.657445 195.2991028
16 03 2018 07:50 2168.238037 9.280335426 2326.049303 196.4459991
16 03 2018 08:00 2292.228027 9.549465179 2478.60281 194.4062042
                 1878.749023 8.541552544 1853.678819 196.3542023
16 03 2018 08:10
16 03 2018 08:20 2481.891113 9.743976593 2622.358315 197.3571014
                             9.398374557 2403.307634 195.9459991
16 03 2018 08:30 2316.5
16 03 2018 08:40
                 1945.51001 8.70468235 1955.629965 192.6009979
16 03 2018 08:50 1943.689941 8.649128914 1920.720817 194.7485962
16 03 2018 09:00 1696.80896 8.287705421 1698.80443 190.8144989
                 1453.23999 7.734141827 1381.626155 194.1239929
16 03 2018 09:10
16 03 2018 09:20
                 1356.296021 7.675281048 1349.891335 193.2485046
                 1478.796997 7.88428688 1464.445188 192.3177032
16 03 2018 09:30
16 03 2018 09:40 1345.651978 7.666668892 1345.28403 198.4664001
16 03 2018 09:50 887.4229736 6.733582973 900.4362766 201.0726013
16 03 2018 10:00 1132.604004 7.1940341 1105.783006 193.077301
16 03 2018 10:10 1085.553955 7.040070057 1034.129301 191.5480042
16 03 2018 10:20 795.2537842 6.360608101 752.5362341 197.3256073
16 03 2018 10:30 472.2986145 5.51651907 473.7644813 200.5765991
16 03 2018 10:40
                 764.1893921 6.366230965 754.6513712 201.7140045
16 03 2018 10:50
                 1011.593994 7.167084217 1093.012515 209.0137939
                             7.888902187 1467.031857 203.3444061
16 03 2018 11:00
                 1376.75
                 1183.545044 7.437338829 1225.6949
16 03 2018 11:10
                                                     207.1542053
16 03 2018 11:20 1751.69397 8.633321762 1910.822531 205.553894
16 03 2018 11:30
                 1792.68396 8.614386559 1898.986387 208.5975037
16 03 2018 11:40
                 1431.827026 7.978038788 1517.44558 210.7557983
16 03 2018 11:50
                 1107.300049 7.347084999 1180.219267 209.6015015
16 03 2018 12:00
                 1507.170044 8.050935745 1559.299077 203.7263947
16 03 2018 12:10
                 1269.029053 7.547058105 1282.27428 200.3314056
16 03 2018 12:20
                 1011.815979 6.958263874 997.3108186 197.4441071
16 03 2018 12:30 1755.339966 8.47559166 1812.963536 200.1203003
16 03 2018 12:40 864.2172852 6.736820221 901.78921
                                                     202.7610931
16 03 2018 12:50 1582.93396 8.263178825 1684.116014 211.0182953
16 03 2018 13:00 1724.237061 8.536346436 1850.454069 201.2373047
```

```
1368.249023 7.652987003 1337.983666 202.9770966
16 03 2018 13:10
                 1859.055054 8.867670059 2059.057804 204.0756989
16 03 2018 13:20
                 1505.06604 8.053301811 1560.666648 200.1161957
16 03 2018 13:30
16 03 2018 13:40
                 1978.645996 9.102491379 2210.261795 202.9523926
16 03 2018 13:50
                 1830.831055 8.73008728 1971.655368 205.4048004
16 03 2018 14:00
                 2012.953003 9.020627022 2157.296769 203.5220947
16 03 2018 14:10
                 1590.124023 8.136614799 1609.173877 202.8484039
                 1739.911987 8.494158745 1824.392757 204.6766052
16 03 2018 14:20
16 03 2018 14:30
                 1778.600952 8.550127029 1858.99409 203.863205
                 2213.548096 9.375811577 2388.520978 205.139801
16 03 2018 14:40
16 03 2018 14:50
                 2132.655029 9.063458443 2184.977952 204.081604
16 03 2018 15:00
                 2445.793945 9.868955612 2707.893172 205.1582947
16 03 2018 15:10
                 2243.99707 9.42718029 2422.196114 208.7337952
16 03 2018 15:20
                 2829.620117 10.82911968 3208.712969 208.0832062
16 03 2018 15:30
                 2535.420898 10.22406006 2923.729557 205.5382996
16 03 2018 15:40 2653.729004 10.50090027 3066.21714 205.3712006
16 03 2018 15:50 2719.115967 10.61203003 3117.54466 204.2322998
16 03 2018 16:00 2488.913086 9.948502541 2759.664382 199.8576965
16 03 2018 16:10 2961.86792 11.03192043 3283.596043 199.0628052
                 3357.259033 11.69242954 3465.803115 202.7033997
16 03 2018 16:20
                 3444.985107 12.17000961 3545.946797 204.677597
16 03 2018 16:30
                 3559.677002 12.61773968 3586.881132 200.7552032
16 03 2018 16:40
                 3601.529053 13.5142498 3600 199.290802
16 03 2018 16:50
16 03 2018 17:00
                 3603.716064 14.37553024 3600 198.8849945
16 03 2018 17:10
                 3603.899902 15.31410027 3600 200.7527008
16 03 2018 17:20
                 3603.929932 14.82415009 3600 198.482193
16 03 2018 17:30
                 3601.809082 13.60334015 3600 195.7223969
16 03 2018 17:40 3603.3479
                             14.32575989 3600 197.2830963
                 3603.231934 15.42117977 3600
16 03 2018 17:50
                                               196.647995
16 03 2018 18:00
                 3603.238037 15.94398975 3600
                                              196.8766022
                 3603.391113 16.21389008 3600 195.5930023
16 03 2018 18:10
16 03 2018 18:20
                 3602.845947 16.93588066 3600 195.3755035
16 03 2018 18:30
                 3602.779053 16.3766098 3600 193.9506073
                                              194.0722961
16 03 2018 18:40
                 3602.99292 16.10891914 3600
                 3602.998047 15.70965958 3600
16 03 2018 18:50
                                               191.5160065
16 03 2018 19:00
                 3603.220947 15.45870972 3600
                                               190.8562012
16 03 2018 19:10
                 3602.846924 15.63346004 3600
                                               190.6459045
16 03 2018 19:20
                 3602.63501 14.99462986 3600
                                               190.1533966
                 3602.715088 16.05961037 3600
16 03 2018 19:30
                                              191.4161987
16 03 2018 19:40
                 3602.967041 15.96986008 3600
                                               193.5847931
16 03 2018 19:50
                 3603.076904 16.04655075 3600 199.7126007
16 03 2018 20:00
                 3603.0271 17.34538078 3600 199.8034973
16 03 2018 20:10
                 3603.422119 18.03768921 3600
                                               198.7097015
16 03 2018 20:20
                 3603.215088 17.86774063 3600 197.6520996
16 03 2018 20:30
                 3603.280029 17.26843071 3600 197.1365967
16 03 2018 20:40
                 3603.209961 16.94708061 3600 197.0036926
16 03 2018 20:50
                 3603.291992 17.4320507 3600
                                               198.2599945
                 3603.48999 17.5277195 3600
                                               195.9772949
16 03 2018 21:00
16 03 2018 21:10
                 3603.541992 16.61066055 3600
                                               195.6237946
16 03 2018 21:20
                 3603.431885 16.36177063 3600
                                               194.0348053
16 03 2018 21:30
                 3603.430908 15.68074989 3600
                                               198.5041962
16 03 2018 21:40
                 3603.485107 16.05303955 3600
                                               201.6911926
16 03 2018 21:50
                 3603.577881 16.70778084 3600
                                               203.8663025
16 03 2018 22:00
                 3603.504883 16.72193909 3600
                                               204.8300018
16 03 2018 22:10
                 3603.427002 16.40456009 3600
                                               206.5211945
16 03 2018 22:20
                 3603.615967 16.77206039 3600
                                               203.822403
16 03 2018 22:30
                 3603.471924 16.6728096 3600 204.8751984
16 03 2018 22:40
                 3603.604004 16.43796921 3600 204.6213074
16 03 2018 22:50 3603.678955 16.85347939 3600 206.9091034
```

```
16 03 2018 23:00
                 3603.697021 17.29801941 3600
                                               208.5894012
16 03 2018 23:10
                 3603.753906 16.59697914 3600
                                               206.9844055
16 03 2018 23:20
                  3603.606934 15.66921043 3600
                                               204.3117981
                                               202.3079987
16 03 2018 23:30
                 3603.874023 15.70993042 3600
16 03 2018 23:40
                 3603.636963 16.08798027 3600
                                               206.1945953
16 03 2018 23:50
                  3603.675049 16.3735199 3600
                                               206.9010925
17 03 2018 00:00
                  3603.587891 15.99619961 3600
                                               206.7425995
17 03 2018 00:10
                 3603.587891 16.18808937 3600
                                               206.5908966
17 03 2018 00:20
                  3603.49707 16.03974915 3600
                                               208.8143005
                                               211.2790985
17 03 2018 00:30
                  3603.664063 16.49836922 3600
17 03 2018 00:40
                                               210.0005035
                 3603.375
                             16.35434914 3600
17 03 2018 00:50
                 3603.663086 15.9349699 3600
                                               207.5935974
17 03 2018 01:00
                  3603.804932 15.93630028 3600
                                               207.3305054
17 03 2018 01:10
                 3603.704102 16.12997055 3600
                                               206.8069
17 03 2018 01:20
                 3603.886963 15.88097
                                          3600
                                               205.9203033
17 03 2018 01:30
                 3603.793945 15.3815403 3600
                                               206.0390015
17 03 2018 01:40
                 3603.636963 15.38938999 3600
                                               206.1417999
17 03 2018 01:50
                 3603.561035 15.60165024 3600
                                               203.879303
17 03 2018 02:00
                 3603.833984 14.9422102 3600
                                               200.5986938
17 03 2018 02:10
                 3603.524902 15.51255989 3600
                                               203.8125
                 3603.897949 15.17870998 3600
17 03 2018 02:20
                                               205.6647034
                 3603.639893 15.38230038 3600
17 03 2018 02:30
                                               205.191803
17 03 2018 02:40
                  3603.852051 15.84840965 3600
                                               204.353302
                                               203.227005
17 03 2018 02:50
                  3604.189941 15.53116035 3600
17 03 2018 03:00
                 3603.908936 15.60999966 3600
                                               203.873703
17 03 2018 03:10
                  3603.968994 15.77289963 3600
                                               201.5641022
17 03 2018 03:20
                 3603.85498 16.43106079 3600
                                               199.9615021
                 3603.769043 16.6171608
17 03 2018 03:30
                                         3600
                                               199.3464966
17 03 2018 03:40
                 3603.875977 16.60746956 3600
                                               197.6815033
17 03 2018 03:50
                 3603.946045 16.6641407 3600
                                               197.7312012
17 03 2018 04:00
                 3603.99292 16.89653969 3600 199.048996
17 03 2018 04:10
                 3604.031006 16.69848061 3600 202.3648071
17 03 2018 04:20
                  3604.145996 16.67621994 3600
                                               200.0834045
17 03 2018 04:30
                 3603.729004 17.0880909 3600
                                               198.8645935
                 3603.687988 17.73970985 3600
                                               197.0877991
17 03 2018 04:40
17 03 2018 04:50
                  3603.856934 17.59147072 3600
                                               197.3336945
17 03 2018 05:00
                  3603.798096 17.3864994 3600
                                               198.9017029
17 03 2018 05:10
                 3603.548096 17.19763947 3600
                                               202.0471954
17 03 2018 05:20
                 3603.791016 17.56465912 3600
                                               198.5202942
17 03 2018 05:30
                 3603.525879 17.21320915 3600
                                               197.9329987
17 03 2018 05:40
                 3603.787109 17.46721077 3600
                                               195.8018036
                 3603.250977 16.85018921 3600
17 03 2018 05:50
                                               193.6755981
17 03 2018 06:00
                  3603.160889 16.87817001 3600
                                               195.504303
17 03 2018 06:10
                 3603.230957 16.70882034 3600
                                               196.1618042
17 03 2018 06:20
                 3603.398926 16.39846992 3600
                                               195.1219025
17 03 2018 06:30
                 3603.353027 15.63858986 3600
                                               194.6186981
17 03 2018 06:40
                 1906.30896 16.06830025 3600
                                               194.8997955
                 3603.110107 16.41167068 3600
17 03 2018 06:50
                                               191.7854004
17 03 2018 07:00
                 3603.00708 16.01104927 3600
                                               189.8934937
17 03 2018 07:10
                  3603.074951 16.94202995 3600
                                               190.3993988
17 03 2018 07:20
                  3602.939941 17.47868919 3600
                                               187.5086975
17 03 2018 07:30
                  3602.900879 17.64934921 3600
                                               191.6802979
17 03 2018 07:40
                  3602.991943 17.0914402 3600
                                               192.6284943
17 03 2018 07:50
                 3603.047119 17.13409042 3600
                                               192.6259003
17 03 2018 08:00
                 3603.113037 16.53356934 3600
                                               188.3491058
17 03 2018 08:10
                 3602.879883 15.4103899 3600
                                               188.0881042
17 03 2018 08:20
                 3602.826904 15.45468044 3600
                                               191.8292999
17 03 2018 08:30
                 3600.208008 14.67693996 3600 187.7570038
17 03 2018 08:40 3587.830078 13.99958992 3600
                                               186.9703979
```

```
17 03 2018 08:50
                 3600.352051 14.45271015 3600
                                               188.5139008
17 03 2018 09:00
                 3479.043945 13.07402039 3600 187.2317047
                 3550,697998 13,17702961 3600
                                               187.1882019
17 03 2018 09:10
17 03 2018 09:20
                 3599.446045 14.21292973 3600 191.4181061
17 03 2018 09:30
                 3566.333008 13.44974041 3600 192.4033051
17 03 2018 09:40
                 3594.999023 14.74232006 3600
                                              194.3267975
17 03 2018 09:50
                 3583.083008 14.16687965 3600 191.6309967
                 3473.009033 13.20860958 3600 189.3917999
17 03 2018 10:00
17 03 2018 10:10
                 3588.444092 13.75189018 3600
                                               191.9978027
                  3593.690918 14.16475964 3600
                                               197.5888062
17 03 2018 10:20
17 03 2018 10:30
                 3569.058105 13.19962978 3600 194.530304
17 03 2018 10:40
                 3461.080078 12.95057011 3597.694556 190.637207
17 03 2018 10:50
                 3328.156006 12.54740047 3582.504001 189.589798
17 03 2018 11:00
                 3426.440918 12.56054974 3583.378958 191.1761017
17 03 2018 11:10
                 3541.550049 13.65896988 3600 189.7946014
17 03 2018 11:20
                 3102.696045 11.56392002 3437.217136 192.4613953
17 03 2018 11:30
                 3433.727051 12.76430035 3593.63327 191.7843933
17 03 2018 11:40
                 3077.169922 11.4771204 3416.114469 191.9792023
17 03 2018 11:50
                 3526.999023 13.24158001 3600 189.7344971
17 03 2018 12:00
                 460.6130066 11.49977016 3421.763198 184.5630035
17 03 2018 12:10
                 0
                       11.57205963 3439.120965 188.7315063
                       12.53250027 3581.480862 193.1755066
17 03 2018 12:20 0
17 03 2018 12:30
                 0
                       9.699581146 2590.707813 188.223999
17 03 2018 12:40 0
                       10.4375
                                   3035.461963 190.3899994
17 03 2018 12:50 0
                       10.81227016 3202.053784 190.2368011
17 03 2018 13:00
                       11.23371983 3348.867253 197.9217987
17 03 2018 13:10
                 1803.501953 12.47076988 3576.881535 197.2644043
                 3546.366943 13.48229027 3600 199.718399
17 03 2018 13:20
                 3600.36499 13.90414047 3600
17 03 2018 13:30
                                               196.5289001
17 03 2018 13:40
                 3580.739014 13.57691002 3600 194.6912994
17 03 2018 13:50
                 3525.429932 13.85328007 3600 195.2400055
17 03 2018 14:00
                 3602.784912 16.12347984 3600 196.8372955
17 03 2018 14:10
                 3603.184082 16.45892906 3600
                                              203.3919067
                                               203.8688965
17 03 2018 14:20
                 3603.427002 16.15113068 3600
17 03 2018 14:30
                 3603.654053 16.95429039 3600
                                               206.3435059
17 03 2018 14:40
                  3603.585938 17.4511795 3600
                                               206.8020935
                  3603.586914 17.29504013 3600
17 03 2018 14:50
                                               204.7575989
                                               208.6808014
17 03 2018 15:00
                 3603.625
                             18.11750984 3600
                             15.18908978 3600
17 03 2018 15:10
                 3604.0271
                                               204.0471954
                 3602.641113 14.75279045 3600
17 03 2018 15:20
                                               205.0919952
17 03 2018 15:30
                 3603.843994 16.27209091 3600
                                               202.7424011
17 03 2018 15:40
                 3603.931885 16.37511063 3600
                                               199.0926971
17 03 2018 15:50
                 3603.779053 17.21122932 3600
                                               198.8229065
17 03 2018 16:00
                 3603.677002 19.22924995 3600
                                               202.2200012
17 03 2018 16:10
                 3603.879883 19.26000977 3600
                                               198.9550018
17 03 2018 16:20
                 3603.191895 18.0897007 3600
                                               197.8798065
17 03 2018 16:30
                 3603.604004 17.48608017 3600
                                               192.1784973
                 3604.162109 18.12791061 3600
17 03 2018 16:40
                                               188.8283997
17 03 2018 16:50
                 3603.457031 17.2228508 3600
                                               189.0904999
17 03 2018 17:00
                  3603.38208 17.99900055 3600
                                               187.3200989
                 3603.534912 18.42074966 3600
17 03 2018 17:10
                                               189.4736938
17 03 2018 17:20
                 3603.634033 18.36389923 3600
                                               189.0023956
17 03 2018 17:30
                  3603.719971 18.19112015 3600
                                               186.9192047
17 03 2018 17:40
                 3603.324951 18.12272072 3600
                                               187.3798981
17 03 2018 17:50
                 3603.363037 18.16109085 3600
                                               186.3370056
17 03 2018 18:00
                 3603.024902 18.86313057 3600
                                               185.6824036
17 03 2018 18:10
                 3602.811035 19.51544952 3600
                                               188.7938995
17 03 2018 18:20
                 3602.858887 20.41662979 3600
                                              189.2642975
17 03 2018 18:30 3602.558105 20.47978973 3600
                                              186.651001
```

```
17 03 2018 18:40
                 3602.795898 20.50812912 3600
                                               188.2922058
17 03 2018 18:50
                 3602.809082 20.66790009 3600
                                                188.5868988
                  3603.00293 20.72983932 3600
                                               187.7185059
17 03 2018 19:00
17 03 2018 19:10
                 3602.833008 20.70630074 3600
                                               186.8937988
17 03 2018 19:20
                  3603.052002 20.78676987 3600
                                               186.0838928
17 03 2018 19:30
                  3603.385986 19.74337006 3600
                                                186.5968018
17 03 2018 19:40
                  3602.988037 18.6352005 3600
                                                188.8639984
17 03 2018 19:50
                 3602.930908 19.54583931 3600
                                                189.5659943
17 03 2018 20:00
                 3603.062988 20.0240593 3600
                                                189.0294952
                  3603.177979 20.22746086 3600
17 03 2018 20:10
                                                188.9566956
17 03 2018 20:20
                 3603.135986 21.23109055 3600
                                                191.226593
17 03 2018 20:30
                 3602.97998 20.2388401 3600
                                                188.0157013
17 03 2018 20:40
                 3603.212891 20.81553078 3600
                                                186.2015991
17 03 2018 20:50
                 3603.615967 20.06782913 3600
                                                185.0549011
17 03 2018 21:00
                 3603.23999 20.25355911 3600
                                                189.0832062
17 03 2018 21:10
                 3603.4729
                             19.06595993 3600
                                                187.5025024
17 03 2018 21:20
                 3603.038086 19.26579094 3600
                                               189.2982941
17 03 2018 21:30
                 3603.552979 19.20627022 3600
                                               190.4158936
                 3603.360107 19.23707008 3600
17 03 2018 21:40
                                               190.7162933
17 03 2018 21:50
                 3603.524902 19.60014915 3600
                                               192.3023071
                 3603.513916 19.56934929 3600
17 03 2018 22:00
                                                190.9633026
17 03 2018 22:10
                 3603.464111 19.53771973 3600
                                                190.9539948
17 03 2018 22:20
                  3603.566895 19.01292038 3600
                                                190.4924011
17 03 2018 22:30
                  3603.454102 19.15867043 3600
                                                189.9649963
                 3603.412109 18.52593994 3600
17 03 2018 22:40
                                                189.8495026
17 03 2018 22:50
                  3602.962891 17.74354935 3600
                                                189.9673004
17 03 2018 23:00
                 3603.304932 17.47738075 3600
                                                192.3345032
17 03 2018 23:10
                 3602.577881 18.69401932 3600
                                                188.2263031
17 03 2018 23:20
                 3602.608887 18.29710007 3600
                                                189.0885925
                                               191.3609009
17 03 2018 23:30
                 3602.039063 18.68483925 3600
                 3601.941895 18.38632011 3600 189.0930023
17 03 2018 23:40
17 03 2018 23:50
                 3602.340088 19.21265984 3600 187.289505
18 03 2018 00:00
                 3602.474121 19.92148972 3600
                                               188.4230957
18 03 2018 00:10
                 3602.967041 19.69095039 3600
                                               191.077301
                 3603.655029 20.07234001 3600
                                                192.2550964
18 03 2018 00:20
18 03 2018 00:30
                  3603.506104 20.24670982 3600
                                                190.735199
18 03 2018 00:40
                  3603.730957 19.35700035 3600
                                                186.8278046
18 03 2018 00:50
                  3603.844971 19.91494942 3600
                                                186.9167023
18 03 2018 01:00
                 3603.387939 19.39166069 3600
                                                189.2971954
18 03 2018 01:10
                 3603.538086 18.86931992 3600
                                                189,2014008
                 3603.381104 19.18469048 3600
18 03 2018 01:20
                                                184.3000031
18 03 2018 01:30
                 3603.7229
                             19.74238014 3600
                                                183.9302979
18 03 2018 01:40
                  3603.514893 19.51296997 3600
                                                184.3399963
18 03 2018 01:50
                 3602.947021 19.44498062 3600
                                                187.3804016
18 03 2018 02:00
                 3603.895996 19.70998955 3600
                                               185.0771942
18 03 2018 02:10
                 3603.139893 18.1991291 3600
                                                186.0037994
18 03 2018 02:20
                 3602.823975 18.68877983 3600
                                                190.863205
                 3603.14502 17.25085068 3600
18 03 2018 02:30
                                                187.709198
18 03 2018 02:40
                 3602.670898 17.61718941 3600
                                                188.4102936
18 03 2018 02:50
                  3603.263916 17.95401001 3600
                                                188.4134979
18 03 2018 03:00
                  3603.173096 17.60261917 3600
                                                186.6846924
18 03 2018 03:10
                  3603.302002 18.63526917 3600
                                                187.6622009
18 03 2018 03:20
                  3603.512939 18.58863068 3600
                                                189.2232971
18 03 2018 03:30
                 3603.094971 18.74748993 3600
                                               187.5316925
18 03 2018 03:40
                 3603.730957 18.36920929 3600
                                                185.3665924
18 03 2018 03:50
                 3603.460938 18.26782036 3600
                                                187.6753998
18 03 2018 04:00
                 3603.610107 17.84647942 3600
                                               190.0968018
18 03 2018 04:10
                 3603.989014 18.83371925 3600
                                               187.7384033
18 03 2018 04:20 3602.974121 18.55820084 3600
                                               187.6506042
```

```
18 03 2018 04:30
                 3602.939941 18.18647003 3600
                                               186.6793976
18 03 2018 04:40
                 3603.381104 17.67328072 3600
                                               185.2097931
18 03 2018 04:50
                 3603.113037 16.31443977 3600
                                               185.2940063
18 03 2018 05:00
                 3603.407959 16.46105957 3600
                                               184.1844025
18 03 2018 05:10
                 3603.314941 16.41393089 3600 186.2769928
18 03 2018 05:20
                 3603.479004 15.81326962 3600
                                               185.9095001
18 03 2018 05:30
                 3603.563965 16.44436073 3600
                                               185.6080933
18 03 2018 05:40
                 3603.833008 16.1378994 3600
                                               184.6011047
18 03 2018 05:50
                 3603.705078 16.16168976 3600
                                               187.3999023
18 03 2018 06:00
                 3603.758057 16.9638195 3600
                                               188.7852936
18 03 2018 06:10
                 3603.644043 18.26375961 3600
                                               190.3159027
18 03 2018 06:20
                 3603.329102 18.58580017 3600
                                               189.3018951
18 03 2018 06:30
                 3603.684082 18.76700974 3600
                                               189.5702057
18 03 2018 06:40
                 3603.454102 18.46361923 3600
                                               188.3356934
18 03 2018 06:50
                 3603.104004 17.99928093 3600
                                               184.4104004
18 03 2018 07:00
                 3603.313965 17.75316048 3600
                                               181.5359955
18 03 2018 07:10
                 3603.763916 18.04817963 3600
                                               179.1815948
18 03 2018 07:20 3603.594971 18.49457932 3600 180.6654968
18 03 2018 07:30
                 3603.450928 18.6398201 3600 181.1477966
18 03 2018 07:40
                 3603.416992 17.2682991 3600
                                               181.7530975
18 03 2018 07:50
                 3603.157959 17.7452507 3600
                                               182.2754974
                 3602.855957 18.32530022 3600
                                               183.1744995
18 03 2018 08:00
18 03 2018 08:10
                 3602.705078 18.38762093 3600
                                               185.511795
18 03 2018 08:20
                 3602.400879 18.60633087 3600
                                               184.0198975
18 03 2018 08:30
                 3602.444092 19.5948391 3600
                                               182.3692017
18 03 2018 08:40
                 3602.601074 19.80989075 3600
                                               181.5366058
18 03 2018 08:50
                 3602.584961 19.88369942 3600
                                               182.8276978
18 03 2018 09:00
                 3602.564941 19.93959999 3600
                                               184.9161072
                 3602.855957 20.12767029 3600
18 03 2018 09:10
                                               183.6486053
18 03 2018 09:20
                 3602.480957 20.15592957 3600
                                               181.7071991
18 03 2018 09:30
                 3602.841064 20.03455925 3600 182.5632019
18 03 2018 09:40
                 3602.977051 18.88698959 3600 182.1255035
18 03 2018 09:50
                 3602.586914 17.64639091 3600
                                               184.0251007
18 03 2018 10:00
                 3603.116943 18.60113907 3600
                                               185.912796
18 03 2018 10:10
                 3603.154053 19.31829071 3600
                                               183.8298035
18 03 2018 10:20
                 3602.856934 19.40757942 3600
                                               185.1302948
18 03 2018 10:30
                 3603.575928 18.00148964 3600
                                               185.2344055
                                               184.7754974
18 03 2018 10:40
                 3603.808105 17.78811073 3600
18 03 2018 10:50
                 3604.052979 17.29706001 3600 182.3368073
18 03 2018 11:00
                 3604.114014 16.91246986 3600
                                               181.5903015
18 03 2018 11:10
                 3603.927979 16.64365959 3600
                                               184.3085938
                 3590.115967 14.68540955 3600 184.6582031
18 03 2018 11:20
18 03 2018 11:30
                 3558.761963 14.02235031 3600 185.3246002
18 03 2018 11:40
                 3268.37207 12.83640003 3595.798987 190.3399963
18 03 2018 11:50 3268.335938 12.41271019 3572.020939 186.8433075
18 03 2018 12:00
                 3214.024902 11.93150043 3510.894274 185.184494
                 2092.121094 9.300545692 2339.258323 185.480896
18 03 2018 12:10
                 1730.55896 8.463395119 1805.469566 186.2017975
18 03 2018 12:20
18 03 2018 12:30
                 1225.322021 7.353166103 1183.245654 187.010498
18 03 2018 12:40
                 1297.760986 7.494389057 1255.071322 188.362793
18 03 2018 12:50
                 2218.753906 9.282183647 2327.256896 192.7328949
18 03 2018 13:00
                 2250.540039 9.527170181 2461.268726 196.2890015
18 03 2018 13:10
                 2593.407959 10.42224979 3027.901316 195.9871979
18 03 2018 13:20
                 3189.079102 12.37623978 3568.699866 198.6190948
18 03 2018 13:30
                 1505.608032 12.64840984 3588.557378 206.1573944
18 03 2018 13:40 0
                       13.88965034 3600 214.4734039
18 03 2018 13:50
                 1135.30603 13.24794006 3600 220.921402
18 03 2018 14:00 3372.1521
                            12.64972973 3588.626368 223.0090942
18 03 2018 14:10 3047.783936 11.38504982 3392.101126 229.517395
```

```
18 03 2018 14:20 2543.574951 10.21940994 2921.150421 230.6495056
18 03 2018 14:30 2949.858887 11.20499992 3340.119078 229.2756042
18 03 2018 14:40 2887.745117 11.50360012 3422.708389 232.2601013
18 03 2018 14:50 3309.836914 12.7350502 3592.538631 231.1741943
18 03 2018 15:00 3404.386963 13.08889961 3600 228.4308014
18 03 2018 15:10 3585.553955 14.46199036 3600 220.8182068
18 03 2018 15:20
                 3588.725098 14.98806953 3600 212.8419952
18 03 2018 15:30 3602.498047 16.29479027 3600 202.2581024
18 03 2018 15:40 3592.958008 16.23311043 3600 210.5597992
                 3602.826904 16.90440941 3600
                                              213.7046967
18 03 2018 15:50
18 03 2018 16:00 3601.417969 15.15104008 3600 208.9886017
18 03 2018 16:10 3596.727051 15.29500008 3600 215.5048981
18 03 2018 16:20 3602.36792 15.33012009 3600 222.3632965
18 03 2018 16:30 3602.871094 16.23204994 3600 221.4817047
18 03 2018 16:40 3601.647949 16.53026009 3600 216.5677032
18 03 2018 16:50 3593.073975 14.17428017 3600 221.1920929
18 03 2018 17:00 3599.791992 14.31301022 3600 221.0390015
18 03 2018 17:10 3572.39502 14.03454971 3600 222.1515961
18 03 2018 17:20 3602.756104 15.98528957 3600 223.2769012
18 03 2018 17:30 3583.120117 14.62786007 3600 226.1248016
18 03 2018 17:40 3407.783936 12.52274036 3580.792404 229.0818939
18 03 2018 17:50 3332.576904 12.67951012 3590.114176 226.9096985
18 03 2018 18:00
                 3571.427979 13.90697956 3600 227.4564972
18 03 2018 18:10 3598.881104 13.99372959 3600 219.4093933
18 03 2018 18:20 3603.61792 14.48843002 3600 214.8959961
18 03 2018 18:30 3603.895996 13.46391964 3600 212.1721039
18 03 2018 18:40 3590.60791 12.7912302 3594.530577 211.4250031
18 03 2018 18:50 3591.939941 12.88051987 3596.753238 208.6475983
18 03 2018 19:00 3573.462891 13.01058006 3600 205.735199
18 03 2018 19:10 3603.88208 14.60468006 3600 208.0124969
18 03 2018 19:20 3603.321045 15.05158997 3600 211.3813934
18 03 2018 19:30 3603.329102 15.11046982 3600 210.0691071
18 03 2018 19:40 3603.458008 16.26128006 3600 208.3361969
18 03 2018 19:50 3603.281006 14.87228012 3600 212.003006
18 03 2018 20:00 3583.696045 13.74967957 3600 211.9647064
18 03 2018 20:10
                 3554.168945 12.69248009 3590.721064 209.4900055
                 3507.169922 12.45246983 3575.405747 213.1781006
18 03 2018 20:20
18 03 2018 20:30 3598.849121 13.83259964 3600 214.6730957
18 03 2018 20:40 3598.613037 13.73723984 3600 212.0581055
18 03 2018 20:50 3494.878906 12.78748035 3594.411963 207.9002991
18 03 2018 21:00 3522.541016 12.87232018 3596.597093 213.2868042
18 03 2018 21:10 3532.120117 13.10210991 3600 212.0713959
18 03 2018 21:20 3573.198975 13.89840984 3600 211.6287994
18 03 2018 21:30 3600.868896 13.60951042 3600 215.4427948
18 03 2018 21:40 3572.085938 13.28915977 3600 214.6954041
18 03 2018 21:50 3278.785889 11.82761955 3492.562854 217.9031067
18 03 2018 22:00 2033.536987 8.833111763 2037.011075 219.2758942
18 03 2018 22:10 1303.906006 7.666975021 1345.447643 218.3679962
18 03 2018 22:20 2214.506104 9.65439415 2557.795848 215.9293976
18 03 2018 22:30
                 1561.844971 8.083322525 1578.067044 213.358902
18 03 2018 22:40
                 1815.595947 8.807014465 2020.402075 210.4620056
18 03 2018 22:50
                 1209.610962 7.535699844 1276.388061 207.8119965
18 03 2018 23:00
                 1398.884033 8.099204063 1587.308264 207.972702
18 03 2018 23:10
                 1758.113037 8.547394753 1857.299818 208.0977936
18 03 2018 23:20
                 1483.103027 8.169088364 1628.262048 206.9985046
18 03 2018 23:30 1272.232056 7.590734005 1305.067548 205.4255981
18 03 2018 23:40 943.0437012 6.963936806 999.8367237 210.7023926
18 03 2018 23:50 1450.665039 8.024749756 1544.201591 213.5599976
19 03 2018 00:00 1668.447021 8.555579185 1862.376482 214.3069
```

```
19 03 2018 00:10 1306.918945 7.862774849 1452.420086 214.1531982
                 984.0300903 7.138792992 1079.71191 215.3914032
19 03 2018 00:20
19 03 2018 00:30 877.18927
                             6.781792164 920.7116083 215.5169067
19 03 2018 00:40 806.5595703 6.697938919 885.6204935 214.8392029
19 03 2018 00:50 524.3278809 5.829081059 568.8376706 209.4185028
19 03 2018 01:00 769.0996704 6.496016979 804.4337747 215.3065033
19 03 2018 01:10 974.1928711 6.871440887 959.150702 215.033493
                 1110.907959 7.412197113 1212.905448 209.2799072
19 03 2018 01:20
19 03 2018 01:30
                 1602.213989 8.369027138 1747.869288 206.7451935
                 1582.474976 8.172240257 1630.120018 205.8701019
19 03 2018 01:40
19 03 2018 01:50
                 1385.458008 7.845335007 1442.709592 204.4978943
19 03 2018 02:00 1485.958008 8.286718369 1698.212306 201.4888
19 03 2018 02:10 1860.802979 9.064826965 2185.863518 199.1591034
19 03 2018 02:20 2223.835938 9.569290161 2493.865809 198.2332001
19 03 2018 02:30 2452.201904 10.06558037 2832.208537 202.5588074
19 03 2018 02:40 1875.828003 8.780540466 2003.58977 203.0894928
19 03 2018 02:50
                 1583.647949 8.340953827 1730.869637 203.5193024
19 03 2018 03:00 1740.677979 8.451622963 1798.246839 204.0574036
19 03 2018 03:10 1419.456055 8.033214569 1549.074338 198.5059967
                 1390.010986 7.746078014 1388.113112 196.2039948
19 03 2018 03:20
19 03 2018 03:30
                 1073.89502 7.424068928 1218.932759 195.5256958
                 1365.667969 8.11866188 1598.664013 190.9295044
19 03 2018 03:40
19 03 2018 03:50
                 1316.437988 8.050471306 1559.0307
                                                     190.654007
19 03 2018 04:00
                 1586.01001 8.661539078 1928.502891 190.9857025
19 03 2018 04:10 1431.03894 8.276125908 1691.863251 189.2028046
19 03 2018 04:20 1618.54895 8.68710041 1944.561491 189.2879028
19 03 2018 04:30 1366.043945 7.816827774 1426.911531 187.4799042
19 03 2018 04:40 1483.569946 8.206922531 1650.624994 191.3251038
19 03 2018 04:50 1806.338989 8.726429939 1969.346019 188.3135071
19 03 2018 05:00
                 1522.762939 7.989069939 1523.743715 190.2846985
19 03 2018 05:10 1645.88501 8.362929344 1744.171365 190.2550049
19 03 2018 05:20 1732.087036 8.768885612 1996.200298 182.9369965
19 03 2018 05:30 1840.723999 8.565626144 1868.614704 184.4902039
19 03 2018 05:40 1522.894043 7.903871059 1475.437481 185.6405029
19 03 2018 05:50 1634.531006 8.128105164 1604.188379 187.0153961
                 1965.545044 8.75498867 1987.399021 195.7872925
19 03 2018 06:00
19 03 2018 06:10
                 1952.712036 8.691785812 1947.509323 197.3206024
19 03 2018 06:20 2339.14209 9.499263763 2469.505343 193.0567017
19 03 2018 06:30 1877.447998 8.67508316 1937.006848 190.183197
19 03 2018 06:40 2019.743042 9.152592659 2242.789378 190.7570953
19 03 2018 06:50 1586.359985 7.900666237 1473.63576 188.3536072
19 03 2018 07:00 1691.82605 8.353815079 1738.649749 187.977005
19 03 2018 07:10 1788.579956 8.401263237 1767.467746 184.8215027
19 03 2018 07:20
                 1621.157959 8.159625053 1622.68921 183.0345001
19 03 2018 07:30
                 1540.354004 7.978610039 1517.771417 185.1194
19 03 2018 07:40
                 775.7263794 6.467301846 793.259857 181.2144012
19 03 2018 07:50 634.5922852 6.049889088 640.9473336 180.4172974
19 03 2018 08:00 985.2470703 6.831246853 941.797097 183.5151978
19 03 2018 08:10 679.9614258 6.222137928 701.5273776 191.2360992
19 03 2018 08:20
                 825.9837036 6.534139156 819.4096549 183.5276947
19 03 2018 08:30
                 1102.713013 7.246212006 1130.790681 187.0238037
19 03 2018 08:40
                 835.7828979 6.526956081 816.5754845 184.802597
19 03 2018 08:50
                 1669.244995 8.37803936 1753.340094 187.7621002
19 03 2018 09:00
                 1361.13501 7.757980824 1394.598989 193.4423065
19 03 2018 09:10
                 835.7572021 6.411683083 771.8754235 199.5231018
19 03 2018 09:20
                 1.38746798 9.136219978 2232.150895 206.5003052
19 03 2018 09:30 589.5911255 8.179031372 1634.126363 200.5567932
19 03 2018 09:40 1656.301025 8.279624939 1693.959481 209.850296
19 03 2018 09:50 1869.006958 8.975712776 2128.345805 208.5435944
```

```
19 03 2018 10:00 1261.724976 7.515155792 1265.785351 208.5063019
                 1916.718018 9.215167999 2283.521235 213.8054047
19 03 2018 10:10
19 03 2018 10:20
                 1517,421997 8,198514938 1645,644101 210,9420929
19 03 2018 10:30
                 712.2642822 6.293010235 727.3764542 213.6085052
19 03 2018 10:40
                 713.2719727 6.288063049 725.5545238 212.5084076
19 03 2018 10:50
                 514.8010864 5.880711079 585.4799863 222.4902954
19 03 2018 11:00
                 591.5692139 5.934689999 603.1764765 211.4248962
                 365.9809875 4.882096767 307.5542041 200.8049927
19 03 2018 11:10
19 03 2018 11:20
                 17.6656208 3.095582962 19.789543
                                                     250.0917053
19 03 2018 11:30
                 0
                       2.825046062 0
                                         268.1828003
19 03 2018 11:40
                       2.217917919 0
                                         257.6552124
                 0
19 03 2018 11:50
                 0
                       1.781870008 0
                                         251.1259003
19 03 2018 12:00
                       2.434468985 0
                                         283.2172852
19 03 2018 12:10
                 0
                       2.73062396 0
                                         288.2308044
19 03 2018 12:20 0
                        2.39121294 0
                                         296.1481934
19 03 2018 12:30 0
                       2.237777948 0
                                         284.4035034
19 03 2018 12:40 0
                       1.361665964 0
                                         306.2897034
19 03 2018 12:50 0
                       1.048814058 0
                                         314.0393982
19 03 2018 13:00 0
                       2.242166996 0
                                         263.9215088
19 03 2018 13:10
                 0
                        2.676789045 0
                                         261.3875122
                        3.187634945 24.82086804 234.8377075
19 03 2018 13:20
                 0
                 73.86106873 3.669186115 73.23876024 243.7556
19 03 2018 13:30
19 03 2018 13:40
                 130.6392059 4.362420082 193.4326467 239.7749023
19 03 2018 13:50
                 88.84361267 3.955832005 119.6758098 230.940094
19 03 2018 14:00
                 308.1838074 4.965843201 327.6525309 225.3834076
19 03 2018 14:10
                 299.3616943 4.898562908 311.465316 221.0702057
19 03 2018 14:20 255.2642975 4.771949768 281.8882759 220.4812012
19 03 2018 14:30 219.1468964 4.533922195 229.2146123 227.3034058
19 03 2018 14:40 388.3548889 5.434232235 450.278088 249.5245056
19 03 2018 14:50
                 379.8346863 5.196125031 385.6829469 236.9835968
19 03 2018 15:00 416.6203003 5.225572109 393.4099821 224.5953979
19 03 2018 15:10 632.1347046 6.205840111 695.6594319 223.2790985
19 03 2018 15:20
                 568.0675049 6.034288883 635.6173456 228.4824066
19 03 2018 15:30
                 171.4994049 4.451336861 211.7697876 237.9797058
19 03 2018 15:40 42.23625946 3.402461052 41.83674553 229.7436066
                 374.4385986 5.188204765 383.616846 214.5534973
19 03 2018 15:50
19 03 2018 16:00
                 1020.29303 7.086094856 1055.22102 216.4855042
                             6.784801006 921.9861327 214.0070953
19 03 2018 16:10
                 849.77771
19 03 2018 16:20
                 748.5629272 6.597918034 844.8281501 215.1383972
19 03 2018 16:30 744.946228 6.535483837 819.9408554 203.2575989
19 03 2018 16:40 948.0278931 7.027163029 1028.263597 192.8972931
19 03 2018 16:50 2200.646973 9.319993019 2351.976715 199.0270996
19 03 2018 17:00
                 1765.004028 8.488688469 1821.022844 195.6737061
19 03 2018 17:10
                 1744.124023 8.566170692 1868.953013 198.2857056
19 03 2018 17:20
                 1585.696045 8.454854012 1800.228196 194.2342072
                 957.8895264 6.779064178 919.5569806 191.7631073
19 03 2018 17:30
19 03 2018 17:40
                 635.0357056 6.24382782 709.3809216 187.8419952
19 03 2018 17:50
                 1181.249023 7.4329772
                                         1223.469356 184.8040924
                 2036.563965 9.189012527 2266.482588 186.0845947
19 03 2018 18:00
19 03 2018 18:10
                 2668.370117 10.45110035 3042.151102 185.5733032
19 03 2018 18:20
                 2596.720947 10.16368961 2889.751157 180.9116058
19 03 2018 18:30
                 2436.806885 9.877457619 2713.524255 182.4665985
19 03 2018 18:40
                 2721.385986 10.81355
                                         3202.562002 184.9485931
19 03 2018 18:50
                 2508.952881 10.08185005 2841.952951 187.3665009
19 03 2018 19:00
                 3093.760986 11.59883976 3445.294972 193.5115051
19 03 2018 19:10
                 2737.989014 10.75417995 3178.565802 193.8267975
19 03 2018 19:20 3032.623047 11.43560028 3405.49567 196.4149017
19 03 2018 19:30 3383.491943 12.31674004 3562.83324 195.725296
19 03 2018 19:40 3452.653076 12.39887047 3570.78512 196.0054932
```

```
3267.709961 11.79450989 3486.316443 198.2579956
19 03 2018 19:50
                 3305.479004 12.00841045 3523.251774 199.2635956
19 03 2018 20:00
                 3377.523926 11.84512043 3495.785099 197.6889954
19 03 2018 20:10
19 03 2018 20:20
                 3563.821045 13.41907978 3600 203.4501038
19 03 2018 20:30
                 3377.98999 12.16899014 3545.81724 201.8867035
19 03 2018 20:40 3518.762939 13.01574993 3600 201.4185028
19 03 2018 20:50
                 3187 11.93262005 3511.081511 201.7749939
19 03 2018 21:00
                 3053.457031 12.01095963 3523.643949 201.3793945
19 03 2018 21:10
                 3258.279053 12.40962029 3571.747613 191.3280029
                             11.72552967 3472.66427 205.7348938
19 03 2018 21:20
                 3004.5
19 03 2018 21:30
                 3603.37207 15.45326042 3600 204.2937012
19 03 2018 21:40
                 3515.489014 13.14280987 3600 209.1000061
19 03 2018 21:50
                 3529.62793 13.35291958 3600 218.7042999
19 03 2018 22:00
                 3428.781982 12.01718044 3524.596327 215.6219025
19 03 2018 22:10
                 3577.212891 13.23219967 3600 217.1042938
19 03 2018 22:20
                 3598.196045 13.35663986 3600 213.5303955
19 03 2018 22:30
                 3597.842041 13.58771992 3600 208.4288025
19 03 2018 22:40 3585.064941 12.66864967 3589.586841 205.5782013
19 03 2018 22:50 3597.621094 13.35237026 3600 207.165802
19 03 2018 23:00
                 3595.112061 13.10476017 3600 200.4176025
                 3603.395996 13.96327019 3600
19 03 2018 23:10
                                              200.9512024
                                               201.8777008
19 03 2018 23:20
                 3603.043945 14.84506035 3600
19 03 2018 23:30
                 3602.506104 16.35609055 3600
                                               201.4246979
19 03 2018 23:40
                 3602.835938 14.18181038 3600
                                               192.9322968
19 03 2018 23:50
                 3598.731934 14.23892021 3600
                                              190.6851044
20 03 2018 00:00
                 3602.898926 14.59111977 3600
                                              184.7718964
20 03 2018 00:10
                 3602.795898 14.33714008 3600
                                              180.7326965
20 03 2018 00:20
                 3570.316895 13.12699032 3600
                                              174.2342987
20 03 2018 00:30
                 3603.008057 14.63780975 3600
                                              178.0980988
20 03 2018 00:40
                 3603.383057 15.15548992 3600
                                              183.4167023
20 03 2018 00:50
                 3603.635986 15.68879032 3600 175.4537964
20 03 2018 01:00
                 3603.36792 15.9398098 3600 171.4698944
20 03 2018 01:10
                 3603.129883 15.83637047 3600
                                              178.2781067
20 03 2018 01:20
                 3602.811035 15.57623005 3600
                                              182.3999023
20 03 2018 01:30
                 3602.717041 15.91687965 3600
                                              184.6876984
20 03 2018 01:40
                 3602.74292 15.68717957 3600
                                               185.7897034
20 03 2018 01:50
                 3602.801025 15.95254993 3600
                                               186.2845001
                                              181.3905945
20 03 2018 02:00
                 3602.834961 15.77095985 3600
20 03 2018 02:10
                 3602.87207 16.8047905 3600
                                              178.6526947
20 03 2018 02:20
                 3603.029053 17.13862038 3600
                                              177.8661957
20 03 2018 02:30
                 3603.023926 17.56225014 3600
                                              177.1549988
20 03 2018 02:40
                 3602.681885 17.66052055 3600
                                              179.0552979
20 03 2018 02:50
                 3602.769043 17.64249992 3600
                                              181.2279053
20 03 2018 03:00
                 3602.441895 16.51832962 3600
                                              182.7937927
20 03 2018 03:10
                 3601.426025 15.63162041 3600 183.226593
20 03 2018 03:20
                 3601.894043 15.70219994 3600
                                              186.8961029
20 03 2018 03:30
                 3601.294922 16.1779995 3600
                                              187.9232941
                 3601.63501 15.85002041 3600
20 03 2018 03:40
                                              186.1009979
20 03 2018 03:50
                 3601.545898 15.46448994 3600
                                               185.2391052
20 03 2018 04:00
                 3601.35791 15.59591961 3600
                                               186.1186066
20 03 2018 04:10
                 3601.22998 17.05359077 3600
                                               185.8368073
20 03 2018 04:20
                 3601.263916 17.91474915 3600
                                               188.9759064
20 03 2018 04:30
                 3600.9021
                             18.99998093 3600
                                               200.6448975
20 03 2018 04:40
                 3602.335938 16.15391922 3600
                                              199.221405
20 03 2018 04:50
                 3599.976074 15.34480953 3600
                                               203.0223999
20 03 2018 05:00
                 3592.216064 14.67477036 3600
                                              213.6927032
20 03 2018 05:10
                 3601.812988 17.86437988 3600 219.5805969
20 03 2018 05:20 3600.794922 20.55398941 3600 223.1591949
20 03 2018 05:30 3600.120117 22.92400932 3600 220.904007
```

```
20 03 2018 05:40 3600.425049 23.2347908 3600
                                              219.5334015
20 03 2018 05:50
                 3601.758057 21.48508072 3600 220.7286987
20 03 2018 06:00
                 3601.23291 21.24275017 3600
                                              225.3863068
20 03 2018 06:10 3601.712891 19.50167084 3600 222.923996
20 03 2018 06:20
                 3601.898926 19.02540016 3600 222.2257996
20 03 2018 06:30
                 3601.798096 20.05021095 3600 222.0523071
20 03 2018 06:40
                 3601.5979
                             20.96957016 3600 217.6340027
                 3601.184082 19.98644066 3600
20 03 2018 06:50
                                              215.4394989
20 03 2018 07:00
                 3601.104004 20.18564034 3600
                                              217.2218933
                 3601.159912 19.18818092 3600
                                               213.7819061
20 03 2018 07:10
20 03 2018 07:20
                 3601.205078 21.98007965 3600
                                              215.5070038
20 03 2018 07:30
                 3601.183105 20.69613075 3600
                                              211.6302032
20 03 2018 07:40
                 3601.345947 19.87021065 3600
                                              208.9638977
20 03 2018 07:50
                 3601.312988 19.31621933 3600
                                              206.7590942
20 03 2018 08:00 3601.083008 18.28953934 3600
                                              202.897995
20 03 2018 08:10 3601.739014 17.66053009 3600
                                              209.8148956
20 03 2018 08:20
                 3601.967041 17.66267014 3600 214.3616943
20 03 2018 08:30 3601.85498 19.62277031 3600 215.8011932
20 03 2018 08:40 3602.039063 19.03948975 3600 215.0066986
20 03 2018 08:50
                 3602.383057 18.57053947 3600 211.5814056
20 03 2018 09:00
                 3602.424072 19.31188011 3600 207.175293
                 3602.080078 18.45573044 3600
20 03 2018 09:10
                                              211.4066925
                 3601.98291 19.17037964 3600
20 03 2018 09:20
                                              212.905899
                                              215.9431
20 03 2018 09:30
                 3602.605957 19.70689964 3600
20 03 2018 09:40
                 3602.626953 17.57764053 3600 217.4799042
20 03 2018 09:50
                 3602.649902 18.01144981 3600 218.6786957
20 03 2018 10:00 3602.608887 16.90545082 3600 218.2617035
20 03 2018 10:10 3592.085938 14.18817043 3600 222.9223022
20 03 2018 10:20 3598.709961 15.3552599 3600 226.2843933
20 03 2018 10:30 3525.174072 13.16870022 3600 224.3578033
20 03 2018 10:40 3494.237061 12.64982033 3588.631094 225.6083069
20 03 2018 10:50 2630.435059 10.14183998 2877.187178 231.2597046
20 03 2018 11:00 2477.184082 9.692722321 2585.757701 234.6009064
20 03 2018 11:10 2085.039063 8.883303642 2069.050544 237.5028076
20 03 2018 11:20 2531.999023 10.10017014 2852.82864 247.4756012
                 1782.120972 8.543438911 1854.847731 248.5438995
20 03 2018 11:30
20 03 2018 11:40
                 2159.093994 9.480909348 2457.454204 243.7064972
20 03 2018 11:50
                 2840.1521
                             10.7182703 3163.630566 246.1663055
20 03 2018 12:00
                 2268.108887 9.566953659 2492.07431 252.1143036
20 03 2018 12:10
                 2509.673096 10.07369995 2837.081739 247.145401
20 03 2018 12:20 2262.554932 9.588436127 2508.472251 249.1246948
20 03 2018 12:30 2671.315918 10.13292027 2872.017083 244.8594055
20 03 2018 12:40 2369.520996 9.778634071 2646.600597 246.9346924
20 03 2018 12:50
                 2327.404053 9.409250259 2410.437712 247.1327057
20 03 2018 13:00
                 1745.578003 8.344628334 1733.091063 248.204895
                 1778.327026 8.588422775 1882.794561 248.0783997
20 03 2018 13:10
                 1432.129028 7.71258688 1369.955449 251.0325012
20 03 2018 13:20
                 1726.279053 8.413304329 1774.809316 249.8034973
20 03 2018 13:30
20 03 2018 13:40 2321.528076 9.447654724 2435.628078 246.865799
20 03 2018 13:50
                 1758.697021 8.328257561 1723.202662 245.1242981
20 03 2018 14:00
                 2252.5
                             9.485039711 2460.16586 252.292099
20 03 2018 14:10
                 1753.659058 8.431601524 1785.986779 249.2940979
20 03 2018 14:20
                 988.8751221 6.828660011 940.6869187 255.1004028
20 03 2018 14:30
                 1174.311035 7.331242085 1172.359888 255.0431976
20 03 2018 14:40
                 1318.245972 7.625739098 1323.515303 252.2238007
20 03 2018 14:50 895.2003784 6.647275925 864.8150377 251.042099
20 03 2018 15:00 984.8640747 6.90982914 975.9082703 251.289093
20 03 2018 15:10 813.4262695 6.457979202 789.6517291 253.6495972
20 03 2018 15:20 1532.21106 8.040465355 1553.254039 253.3659058
```

```
20 03 2018 15:30 2110.760986 9.222277641 2288.155871 254.3220062
                 1455.655029 7.807575226 1421.804122 258.0777893
20 03 2018 15:40
                 2041.582031 9.298632622 2338.007607 259.708313
20 03 2018 15:50
20 03 2018 16:00 2216.691895 9.350363731 2371.853507 257.1397095
20 03 2018 16:10 2838.629883 10.86400986 3222.284901 260.5385132
20 03 2018 16:20 2098.669922 9.038706779 2168.97303 257.3576965
20 03 2018 16:30 1922.807983 8.983998299 2133.68038 253.0856018
20 03 2018 16:40 2019.527954 9.023255348 2158.993417 258.1180115
20 03 2018 16:50 1737.998047 8.437743187 1789.744374 257.0134888
20 03 2018 17:00 2292.486084 9.602771759 2519.323298 253.0151978
20 03 2018 17:10 2295.229004 9.476911545 2454.829726 246.2391052
20 03 2018 17:20 2029.946045 9.111923218 2216.379119 249.2720947
20 03 2018 17:30 1747.522949 8.497768402 1826.61764 255.1569061
20 03 2018 17:40 1821.982056 8.855776787 2051.463733 248.695694
20 03 2018 17:50 1884.328003 8.925116539 2095.83303 246.3659058
20 03 2018 18:00 1418.270996 7.949562073 1501.246563 242.8778992
20 03 2018 18:10 1633.578979 8.125878334 1602.884902 234.0632935
20 03 2018 18:20 2459.047119 9.740781784 2620.103132 228.970993
20 03 2018 18:30 3337.395996 11.80204964 3487.756237 229.4508972
20 03 2018 18:40 3193.669922 11.18694973 3334.530477 226.729599
20 03 2018 18:50 2998.108887 10.90001011 3235.984393 225.741394
20 03 2018 19:00 3444.468018 12.09424973 3535.851353 226.9167023
20 03 2018 19:10 3312.532959 11.87333965 3500.865896 225.5513
20 03 2018 19:20
                 2854.290039 10.59313011 3109.04352 226.1208038
20 03 2018 19:30 3270.489014 11.36538982 3386.751937 228.2557068
20 03 2018 19:40 3332.758057 11.5894804 3443.15284 228.9821014
20 03 2018 19:50 3106.11499 11.13111019 3316.795009 228.8858948
20 03 2018 20:00 3441.406006 12.00728035 3523.07756 228.6936035
20 03 2018 20:10 3057.711914 11.01819038 3278.826705 225.9438934
20 03 2018 20:20 3160.733887 11.21595955 3343.47821 225.6647949
20 03 2018 20:30 3244.353027 11.35797977 3384.715301 223.0995026
20 03 2018 20:40 3513.760986 12.49645042 3578.865698 222.6761932
20 03 2018 20:50 3556.72998 12.57394981 3584.243712 223.602005
20 03 2018 21:00 3344.447998 11.71376991 3470.249859 226.8634949
20 03 2018 21:10 170.9985962 10.32069969 2975.914089 234.0063019
20 03 2018 21:20 0
                       9.720734596 2605.87267 230.9772034
20 03 2018 21:30 0
                       10.20893955 2915.319968 228.4980927
20 03 2018 21:40 776.7003784 11.06280041 3294.167088 224.1508026
20 03 2018 21:50 3546.873047 12.57843018 3584.526802 219.6694031
20 03 2018 22:00 3597.064941 13.06867027 3600 224.3977051
20 03 2018 22:10 3599.477051 13.30368042 3600 221.9514008
20 03 2018 22:20 3544.163086 12.41541004 3572.258545 218.9761963
20 03 2018 22:30 3552.762939 12.52229977 3580.760983 217.7657928
20 03 2018 22:40 3599.440918 13.00949001 3600 215.1732941
20 03 2018 22:50 3603.389893 13.36021996 3600 210.1983032
20 03 2018 23:00 3600.405029 12.96770954 3597.818261 206.4131927
                 3604.23291 13.43974972 3600 206.8034973
20 03 2018 23:10
                 3603.962891 13.21623993 3600 208.0895996
20 03 2018 23:20
20 03 2018 23:30 3583.756104 12.75712967 3593.376502 204.2059937
20 03 2018 23:40
                 3283.450928 11.8023901 3487.821009 200.8786926
20 03 2018 23:50 3159.822998 11.6617403 3459.259777 198.5718994
21 03 2018 00:00 3091.781982 11.43465042 3405.248721 199.9875946
21 03 2018 00:10 3041.934082 11.37106037 3388.302894 198.0901947
21 03 2018 00:20 3348.040039 11.90038013 3505.602248 200.944397
21 03 2018 00:30
                 2935.768066 11.0267601 3281.808537 198.9037018
21 03 2018 00:40 2815.072021 10.8321104 3209.887785 200.1387939
21 03 2018 00:50 2612.077881 10.46358013 3048.244879 200.6847992
21 03 2018 01:00 2767.437012 10.88938999 3231.974957 198.9799042
21 03 2018 01:10 3006.362061 11.33985996 3379.687681 201.3612061
```

```
21 03 2018 01:20 2862.860107 11.10824966 3309.337429 198.8204956
                 3008.727051 11.50971031 3424.210361 196.6808929
21 03 2018 01:30
21 03 2018 01:40 3226.960938 12.03102016 3526.691475 197.4250031
21 03 2018 01:50 3273.249023 12.20277023 3550.019412 196.6763
21 03 2018 02:00 3217.053955 11.79073048 3485.59086 194.2205963
21 03 2018 02:10 3381.483887 12.29030037 3560.046292 194.0453033
21 03 2018 02:20 3422.216064 12.11798954 3539.117261 196.1455994
21 03 2018 02:30 3370.260986 11.94262981 3512.74579 196.8681946
21 03 2018 02:40 3414.177979 12.10317993 3537.090919 194.5402069
21 03 2018 02:50
                 3519.625
                            12.44198036 3574.536538 192.4951019
21 03 2018 03:00 3309.595947 12.1661396 3545.454085 191.0771942
21 03 2018 03:10 3182.430908 11.92757988 3510.236901 185.7276001
21 03 2018 03:20 3555.707031 12.63554001 3587.871081 188.4532013
21 03 2018 03:30 3560.281982 12.54316998 3582.216934 189.0016937
21 03 2018 03:40 3580.154053 12.71998024 3591.925702 187.3818054
21 03 2018 03:50 3604.113037 12.98112011 3597.885945 186.6029968
21 03 2018 04:00 3604.418945 13.1566
                                         3600 189.5894928
21 03 2018 04:10 3599.315918 12.7599802 3593.479474 189.5251007
21 03 2018 04:20 3598.589111 12.56622028 3583.748208 190.3583984
21 03 2018 04:30 3599.379883 12.66012955 3589.160897 190.2485046
21 03 2018 04:40 3592.606934 12.60519981 3586.155284 189.9810944
21 03 2018 04:50 3588.320068 12.57868004 3584.5425
                                                     187.7955933
21 03 2018 05:00 3528.209961 12.56597996 3583.732657 186.587204
21 03 2018 05:10 3549.147949 12.75753021 3593.391043 185.2341003
21 03 2018 05:20 3568.555908 12.78316021 3594.272772 184.5930939
21 03 2018 05:30 3604.141113 13.24584007 3600 187.2994995
21 03 2018 05:40 3567.278076 12.79012012 3594.495676 186.5263977
21 03 2018 05:50 3062.657959 11.57530022 3439.875379 184.9136047
21 03 2018 06:00 2694.584961 10.69517994 3153.857184 183.493103
21 03 2018 06:10 2053.938965 8.990859985 2138.100361 180.1625061
21 03 2018 06:20 1933.855957 8.71101284 1959.619716 178.5800934
21 03 2018 06:30 2288.099121 9.30294323 2340.825877 179.1811981
21 03 2018 06:40 2959.02002 10.79518986 3195.233154 181.5523987
21 03 2018 06:50 3445.028076 12.14494991 3542.712612 183.2696991
21 03 2018 07:00 3164.271973 11.56523037 3437.524484 178.8670044
21 03 2018 07:10 3417.750977 12.02029037 3525.069969 181.2373047
21 03 2018 07:20 3595.968994 13.64418983 3600 182.2487946
21 03 2018 07:30 3419.802002 12.13206959 3541.00996 183.0079041
21 03 2018 07:40 2738.697021 10.29586029 2962.756875 183.0646973
21 03 2018 07:50 3470.353027 12.46844959 3576.697273 184.7481995
21 03 2018 08:00 3206.706055 11.66571045 3460.116176 181.3486023
21 03 2018 08:10 3200.394043 11.75658989 3478.919011 182.2256927
21 03 2018 08:20 3451.153076 12.49746037 3578.941664 182.3435059
21 03 2018 08:30 3455.876953 12.55714989 3583.155239 180.7617035
21 03 2018 08:40 3392.811035 12.08090973 3533.97483 179.5128937
21 03 2018 08:50 3418.403076 12.27538013 3558.424332 181.2451935
21 03 2018 09:00 3093.946045 11.05702972 3292.207927 181.4687042
21 03 2018 09:10 2899.758057 10.95341969 3255.746856 182.6170959
21 03 2018 09:20 3549.386963 12.84300995 3595.959823 189.4539032
21 03 2018 09:30
                 2362.711914 9.760066986 2633.663729 188.9288025
21 03 2018 09:40
                 1690.634033 8.255216599 1679.358846 196.1640015
21 03 2018 09:50
                 2589.572998 10.10457039 2855.425638 189.7579041
21 03 2018 10:00
                 2653.899902 10.13685989 2874.303537 187.8809967
21 03 2018 10:10 2674.50293 10.37819958 3005.703106 188.4483948
21 03 2018 10:20 1789.569946 8.504962921 1831.054924 194.5709991
21 03 2018 10:30 2102.021973 9.279956818 2325.801936 193.7270966
21 03 2018 10:40 2267.687988 9.409116745 2410.35017 193.3668976
21 03 2018 10:50 1887.274048 8.669647217 1933.592419 199.2406006
21 03 2018 11:00 2755.821045 10.53376007 3081.732875 196.959198
```

```
21 03 2018 11:10 1734.89502 8.274177551 1690.696471 193.0467987
21 03 2018 11:20 1408.204956 7.809158802 1422.677552 193.8867035
21 03 2018 11:30 2631.789063 10.26035976 2943.646454 192.6204987
21 03 2018 11:40 1595.453003 8.674501419 1936.641358 201.6121063
21 03 2018 11:50 755.5270996 7.935630798 1493.353323 200.9089966
21 03 2018 12:00 1721.626953 7.902531147 1474.684057 195.3610992
21 03 2018 12:10 2728.519043 10.30914021 2969.812953 191.0379028
21 03 2018 12:20 2131.724121 9.248882294 2305.510293 191.1694946
21 03 2018 12:30 1828.915039 8.775026321 2000.092742 197.2689972
21 03 2018 12:40 1982.625
                             8.901309967 2080.574265 196.6853943
21 03 2018 12:50 1799.619019 8.394964218 1763.63169 201.3535004
21 03 2018 13:00 1299.371948 7.768436909 1400.310514 208.4360962
21 03 2018 13:10 1311.33606 7.519348145 1267.944398 195.7415009
21 03 2018 13:20 1134.160034 7.21002388 1113.40671 203.9313965
21 03 2018 13:30 1744.904053 8.585466385 1880.953678 207.5115967
21 03 2018 13:40 1649.994019 8.276323318 1691.98149 214.4579926
21 03 2018 13:50 2236.040039 9.716381073 2602.764185 211.5386963
21 03 2018 14:00 1413.579956 7.798418999 1416.759685 220.7319031
21 03 2018 14:10 2827.170898 10.87283993 3225.673556 221.3757019
21 03 2018 14:20 2197.251953 9.430898666 2424.635124 219.4832001
21 03 2018 14:30 2275.60498 9.478865623 2456.112521 223.1342926
21 03 2018 14:40 2157.608887 9.371925354 2385.97494 224.3607941
21 03 2018 14:50 2629.194092 10.4676199 3050.208424 215.3807068
21 03 2018 15:00 3430.522949 12.54695034 3582.473586 215.6053925
21 03 2018 15:10 3407.637939 12.38986969 3569.965358 212.7608948
21 03 2018 15:20 3483.779053 12.83135033 3595.67186 208.3619995
21 03 2018 15:30 3586.363037 13.55342007 3600 212.3321991
21 03 2018 15:40 3503.059082 13.16876984 3600 210.8621979
21 03 2018 15:50 3597.88208 13.84506989 3600 211.1237946
21 03 2018 16:00 3595.643066 13.55181026 3600 211.335495
21 03 2018 16:10 3423.829102 12.62849045 3587.484687 213.9031067
21 03 2018 16:20 3528.748047 12.65130043 3588.70813 218.6959991
21 03 2018 16:30 3515.080078 12.59366989 3585.467087 214.0018005
21 03 2018 16:40 3487.897949 13.03388023 3600 215.9871063
21 03 2018 16:50 3604.249023 14.17617035 3600 216.7106934
21 03 2018 17:00 3602.831055 14.52709961 3600 225.4530029
21 03 2018 17:10 3570.427979 13.27190018 3600 224.8390961
21 03 2018 17:20 3583.98291 12.92440033 3597.424963 223.2292938
21 03 2018 17:30 3563.283936 13.14815044 3600 225.9705963
21 03 2018 17:40 3602.333984 14.26974964 3600 227.9575043
21 03 2018 17:50 3546.608887 13.26984978 3600 226.4978027
21 03 2018 18:00 3437.933105 12.31200981 3562.342811 227.3968964
21 03 2018 18:10 2799.354004 10.62640953 3123.950716 226.9945984
21 03 2018 18:20 2364.925049 9.7045784 2594.304198 232.7057953
21 03 2018 18:30 3271.572998 11.66792011 3460.591543 226.2861938
21 03 2018 18:40 3505.991943 13.06258965 3600 228.7810974
21 03 2018 18:50 2589.326904 10.04736042 2821.199548 228.7346039
21 03 2018 19:00 2632.121094 10.1094799 2858.316268 225.7657013
21 03 2018 19:10 3106.886963 11.27952003 3362.455862 225.8666992
21 03 2018 19:20 1847.115967 8.752783775 1986.003591 233.5388947
21 03 2018 19:30 855.5491943 6.786548138 922.7266981 248.2281036
21 03 2018 19:40 384.2961121 5.409316063 443.2873682 254.2111969
21 03 2018 19:50 179.4687042 4.352396011 191.3933895 251.1622009
21 03 2018 20:00 571.9188843 6.055632114 642.916054 241.4151001
21 03 2018 20:10 960.9683228 7.099888802 1061.596175 244.3424072
21 03 2018 20:20 645.1995239 6.358437061 751.7204798 245.0838013
21 03 2018 20:30 535.7265015 6.056819916 643.3236743 246.7068024
21 03 2018 20:40 370.3479919 5.280611992 408.0468031 246.8027039
21 03 2018 20:50 767.9163818 6.633618832 859.256991 246.9898987
```

```
21 03 2018 21:00 586.1843262 6.185304165 688.3061092 257.5521851
21 03 2018 21:10 177.6054993 4.561451912 235.121522 275.2799988
21 03 2018 21:20
                 179.6912994 4.559186935 234.6337738 276.2217102
21 03 2018 21:30
                 72.22070313 3.731806993 82.26114185 290.9515991
21 03 2018 21:40
                 1.890864015 2.975555897 0
                                               322.0798035
21 03 2018 21:50
                       2.461185932 0
                                         356.3768005
21 03 2018 22:00
                 0
                       2.712944984 0
                                         344.463501
21 03 2018 22:10
                 0
                       2.754388094 0
                                        4.955543995
21 03 2018 22:20
                 0
                       3.119205952 20.95139517 2.198679924
21 03 2018 22:30
                                  44.88732497 2.637979031
                 0
                       3.4333179
21 03 2018 22:40
                 0
                       3.594516993 63.30058012 20.32588959
21 03 2018 22:50
                 0
                       3.402892113 41.87831197 12.78878021
21 03 2018 23:00
                       3.422204971 43.77112211 335.9833069
21 03 2018 23:10
                 0
                       3.342997074 36.3876658 21.40856934
21 03 2018 23:20 0
                       4.612720013 246.2475346 55.48352051
21 03 2018 23:30 0
                       4.905363083 313.0862715 55.08071899
21 03 2018 23:40
                 38.64051056 4.485705853 218.9802263 51.06552887
21 03 2018 23:50
                 152.4589996 4.829242229 295.1315645 53.20389938
22 03 2018 00:00 290.7792053 5.433822155 450.1625817 57.276371
22 03 2018 00:10
                410.1307983 5.875761032 583.8724311 55.33449173
22 03 2018 00:20
                416.9554138 5.771109104 550.4766348 50.31723022
22 03 2018 00:30
                424.5404968 5.528800011 477.3230184 55.99586868
22 03 2018 00:40
                401.4591064 5.491193771 466.4701953 53.18207932
22 03 2018 00:50 485.4454041 5.794034004 557.6966801 58.58576965
22 03 2018 01:00 532.817627 5.960471153 611.7371756 63.81787872
22 03 2018 01:10 652.2105713 6.354290009 750.1636744 61.85121918
22 03 2018 01:20 683.4000854 6.380641937 760.0880121 63.82559967
22 03 2018 01:30 554.6981201 6.089951992 654.7544258 71.23191833
22 03 2018 01:40 229.4857025 4.984591007 332.2231253 74.6827774
22 03 2018 01:50 71.7140274 3.702284098 77.92932743 72.40596771
22 03 2018 02:00 172.2615051 4.630583763 250.1633158 74.27230835
22 03 2018 02:10 706.1942139 6.821873188 937.7780821 75.17967987
22 03 2018 02:20 749.7785034 6.582713127 838.726805 72.55935669
22 03 2018 02:30 699.8319702 6.92412281 982.1941449 71.50289154
22 03 2018 02:40 712.2487183 6.983481884 1008.570245 73.5776825
22 03 2018 02:50 888.4926147 6.945988178 991.8587787 60.54663849
                 1021.054993 7.117303848 1069.680686 57.4540596
22 03 2018 03:00
                 1364.655029 7.805512905 1420.667076 64.32792664
22 03 2018 03:10
22 03 2018 03:20 1448.295044 7.913629055 1480.93029 63.69725037
22 03 2018 03:30 1342.687012 7.707612991 1367.270439 67.49286652
22 03 2018 03:40 1142.891968 7.276260853 1145.363988 68.36528015
22 03 2018 03:50 965.0172119 6.97624588 1005.331303 70.5585022
22 03 2018 04:00 832.7321777 6.637532234 860.8474556 71.72236633
22 03 2018 04:10 546.0853271 5.367124081 431.5754613 77.70111084
22 03 2018 04:20 308.8045959 4.263629913 173.5738523 88.17967987
22 03 2018 04:30
                 224.4073029 3.585021973 62.1007598 93.10713196
22 03 2018 04:40 277.5693054 4.530870914 228.5627769 106.1167984
22 03 2018 04:50 223.1430969 4.451210022 211.7433061 107.8865967
22 03 2018 05:00 348.1679993 5.120575905 366.182923 121.5802994
22 03 2018 05:10 463.2518005 5.82754612 568.347107 126.5580978
22 03 2018 05:20 585.7301025 6.402647972 768.4336175 126.2098007
22 03 2018 05:30 983.7330933 7.116817951 1069.454576 129.2124023
22 03 2018 05:40 914.996582 6.871343136 959.1082605 138.4907074
22 03 2018 05:50 862.8538208 7.048573017 1038.005258 131.1463928
22 03 2018 06:00 343.3364868 5.070639133 353.5447896 118.2228012
22 03 2018 06:10 437.348114 5.885230064 586.949781 117.4368973
22 03 2018 06:20 663.5709839 6.497969151 805.1967381 119.2514038
22 03 2018 06:30 442.3449097 5.357643127 428.965261 117.145401
22 03 2018 06:40 277.1187134 4.675706863 260.146036 107.7550964
```

```
22 03 2018 06:50 397.4901123 4.508766174 223.8575118 85.69307709
22 03 2018 07:00 626.3336182 5.639990807 510.186885 81.38957214
22 03 2018 07:10 977.7713013 7.937316895 1494.307526 78.58822632
22 03 2018 07:20 1148.30896 7.768474102 1400.330853 76.72573853
22 03 2018 07:30
                 1327.78894 8.246789932 1674.330246 76.87669373
                 1107.510986 7.164200783 1091.651994 77.7120285
22 03 2018 07:40
22 03 2018 07:50
                 1751.21106 8.58787632 1882.454251 77.48831177
                 2183.099121 9.520036697 2455.684458 74.73008728
22 03 2018 08:00
22 03 2018 08:10 2417.206055 9.770776749 2641.140078 72.93360138
22 03 2018 08:20
                 2888.006104 10.71247005 3161.188072 73.12207031
22 03 2018 08:30
                 2661.179932 10.35669994 2994.673302 71.37879944
22 03 2018 08:40 2708.849121 10.35904026 2995.8802
                                                     66.9367981
22 03 2018 08:50 2830.301025 10.59916019 3111.76589 67.43614197
22 03 2018 09:00 2747.050049 10.29535007 2962.484777 66.9724884
22 03 2018 09:10 3026.572998 10.76863956 3184.489623 70.98795319
22 03 2018 09:20 2994.51001 10.94468021 3252.558656 68.19957733
22 03 2018 09:30 2958.334961 10.72535992 3166.604609 69.49521637
22 03 2018 09:40 2913.13501 10.72290993 3165.578273 69.96466827
22 03 2018 09:50 2823.583984 10.5543499 3091.309133 70.79223633
22 03 2018 10:00 3394.48291 11.83638954 3494.184417 73.48874664
22 03 2018 10:10 3499.791992 11.94194984 3512.633286 73.94300842
22 03 2018 10:20 3581.073975 12.51210976 3580.026024 73.48539734
                 3584.052002 12.38175011 3569.214985 72.30063629
22 03 2018 10:30
22 03 2018 10:40
                 3554.221924 11.91837025 3508.682138 70.78407288
22 03 2018 10:50 3595.918945 12.24639988 3555.171852 69.8602066
22 03 2018 11:00 3535.891113 11.97603035 3518.173434 70.61000824
22 03 2018 11:10 3551.053955 12.37240028 3568.338126 67.32034302
22 03 2018 11:20 3500.438965 11.84523964 3495.80686 65.60077667
22 03 2018 11:30 3465.126953 11.9969902 3521.481201 64.64280701
22 03 2018 11:40 3543.862061 11.96804047 3516.892614 62.66326904
22 03 2018 11:50 3603.187988 12.50790977 3579.71849 65.05632782
22 03 2018 12:00 3602.448975 12.64583969 3588.422294 67.04450226
22 03 2018 12:10
                 3583.780029 12.29926014 3561.0032
                                                     70.50650024
22 03 2018 12:20 3510.780029 12.1494503 3543.301053 71.05986023
22 03 2018 12:30 3433.543945 11.45497036 3410.492265 68.44052124
                 3313.545898 11.23752975 3350.014558 68.64571381
22 03 2018 12:40
                 3279.353027 11.13770962 3318.926512 69.84583282
22 03 2018 12:50
22 03 2018 13:00
                 2909.041992 10.56390953 3095.717343 69.3239212
22 03 2018 13:10 3401.485107 11.74337006 3476.278495 73.88910675
22 03 2018 13:20 3402.280029 11.78361034 3484.216893 74.28215027
22 03 2018 13:30 3579.644043 12.27023983 3557.857277 71.42429352
22 03 2018 13:40 3552.326904 12.15283012 3543.740779 69.9377594
22 03 2018 13:50 3481.274902 11.82209015 3491.533392 71.27220154
22 03 2018 14:00 3373.601074 11.45998955 3411.774787 67.44924927
22 03 2018 14:10 2983.819092 10.66294956 3139.99071 72.33059692
22 03 2018 14:20
                 2617.462891 10.28577995 2957.367243 77.96478271
22 03 2018 14:30
                             10.80945015 3200.932559 80.67289734
                 2778.8479
22 03 2018 14:40 2671.9021
                             10.54940033 3089.017311 80.61345673
22 03 2018 14:50 2816.264893 10.59790039 3111.197913 77.21308899
22 03 2018 15:00
                 3240.687012 11.66878986 3460.778402 76.72657013
22 03 2018 15:10
                 3488.708984 12.24530983 3555.046877 75.89565277
22 03 2018 15:20 2972.214111 11.23458958 3349.129437 77.2310791
22 03 2018 15:30
                 1847.426025 8.643181801 1916.994947 76.47902679
22 03 2018 15:40 2659.568115 10.36369038 2998.273711 75.45113373
22 03 2018 15:50
                 3489.25708 12.28195
                                         3559.142923 68.57457733
22 03 2018 16:00 3334.956055 11.3494997 3382.370769 65.33912659
22 03 2018 16:10 2843.558105 10.43142033 3032.455447 75.09958649
22 03 2018 16:20 3154.647949 11.16335011 3327.117616 75.62029266
22 03 2018 16:30 3592.952881 12.99030972 3597.917591 71.61601257
```

```
22 03 2018 16:40 3595.38208 12.65674973 3588.988944 69.67466736
22 03 2018 16:50 3496.582031 12.13953018 3541.999522 72.03452301
22 03 2018 17:00 3585.215088 12.40999985 3571.781268 74.16696167
22 03 2018 17:10 2930.772949 10.67805004 3146.520086 77.60755157
22 03 2018 17:20 2697.164063 10.23209953 2928.173672 80.18946075
22 03 2018 17:30 3529.281982 12.3514204 3566.320589 74.65395355
22 03 2018 17:40 3560.398926 12.32522964 3563.704531 71.29252625
22 03 2018 17:50 3191.719971 11.05727959 3292.29291 69.24305725
22 03 2018 18:00 1976.911011 8.996668816 2141.843635 73.13095093
22 03 2018 18:10
                 3301.469971 11.56184959 3436.730833 71.5907135
22 03 2018 18:20 3095.931885 10.93601036 3249.378306 73.27776337
22 03 2018 18:30 1154.172974 7.414760113 1214.204897 81.88011169
22 03 2018 18:40 2424.381104 10.44589996 3039.599313 77.11897278
22 03 2018 18:50 3177.318115 11.8954401 3504.74658 73.9758606
22 03 2018 19:00 3583.435059 12.88603973 3596.852911 75.04473877
22 03 2018 19:10 3528.374023 12.68241024 3590.252038 77.92462921
22 03 2018 19:20 3591.927002 13.8480196 3600 75.1042099
22 03 2018 19:30 3240.049072 11.90651035 3506.658109 76.91046143
22 03 2018 19:40 3485.555908 12.23027039 3553.302987 75.06263733
22 03 2018 19:50 2978.883057 11.29753017 3367.678497 77.6776123
22 03 2018 20:00 2235.753906 9.470752716 2450.786875 78.03959656
22 03 2018 20:10 3006.672119 10.79743958 3196.135584 76.64772034
22 03 2018 20:20 2567.059082 10.2305603 2927.324264 70.98374939
22 03 2018 20:30 1054.89502 7.116697788 1069.398664 83.9432373
22 03 2018 20:40 1162.764038 7.458971024 1236.77535 78.14341736
22 03 2018 20:50 1559.302979 8.010457039 1535.990704 80.02010345
22 03 2018 21:00 843.7733765 6.368247986 755.4109463 80.99645233
22 03 2018 21:10 779.8461304 5.843068123 573.3190556 83.97006989
22 03 2018 21:20 526.8599854 5.171371937 379.2428593 103.4077988
22 03 2018 21:30 569.3928223 6.12059021 665.4291546 117.9462967
22 03 2018 21:40 369.6044922 5.241288185 397.5634278 119.6625977
22 03 2018 21:50 667.2570801 6.278903008 722.1880659 124.689003
22 03 2018 22:00 925.1491089 7.151295185 1085.576337 130.6345978
22 03 2018 22:10 870.513916 6.860466957 954.3933368 134.1168976
22 03 2018 22:20 877.171875 6.792090893 925.0785327 147.0776978
22 03 2018 22:30 1000.986023 7.151606083 1085.722437 152.2698059
22 03 2018 22:40
                 1121.542969 7.515879154 1266.157711 150.5057068
22 03 2018 22:50
                 1233.697021 7.498799801 1257.36331 151.3370056
22 03 2018 23:00 1684.626953 8.450739861 1797.705436 160.2297058
22 03 2018 23:10 1448.239014 8.127785683 1604.001342 158.8957977
22 03 2018 23:20 1079.036987 7.421691895 1217.724252 156.5493927
22 03 2018 23:30 1038.55603 7.450654984 1232.507312 152.7861938
22 03 2018 23:40 1420.685059 8.033035278 1548.971054 158.0413971
22 03 2018 23:50 1381.125977 7.846094131 1443.131554 166.6376953
23 03 2018 00:00 2063.269043 9.513357162 2450.438758 158.9107056
23 03 2018 00:10 1497.552979 8.427954674 1783.756923 159.9515991
23 03 2018 00:20 1747.469971 8.97475338 2127.728289 160.8596039
23 03 2018 00:30 1551.579956 8.443020821 1792.975628 158.8352051
23 03 2018 00:40 2345.113037 9.832579613 2683.533055 168.1488037
23 03 2018 00:50
                 1172.390991 7.876330853 1459.991773 162.8751984
23 03 2018 01:00
                 1250.071045 7.486086845 1250.765336 164.7068939
23 03 2018 01:10
                 1307.76001 7.846523762 1443.370394 176.1941071
23 03 2018 01:20
                 1056.031006 7.518631935 1267.575385 165.2743073
23 03 2018 01:30 618.949585 5.966579914 613.7759817 159.6809998
23 03 2018 01:40 757.1890869 6.472420216 795.2448898 164.0634003
23 03 2018 01:50 581.3093262 5.987132072 620.6646276 177.8177032
23 03 2018 02:00 403.8156128 5.357987881 429.0600371 197.095993
23 03 2018 02:10 1316.005005 7.90887785 1478.254514 208.7518005
23 03 2018 02:20 3263.659912 12.58098984 3584.687175 212.1271973
```

```
23 03 2018 02:30 3177.444092 11.54633999 3433.061592 212.9060974
23 03 2018 02:40 3517.773926 13.19281006 3600 210.4524994
23 03 2018 02:50 3603.950928 13.99901962 3600 213.9026031
23 03 2018 03:00 1935.435059 11.95145035 3514.197909 219.0220947
23 03 2018 03:10 0
                       10.77468967 3186.952976 222.441803
23 03 2018 03:20 683.7203979 11.17838955 3331.855576 219.9960022
23 03 2018 03:30 3426.302002 12.29121971 3560.145069 219.7232971
23 03 2018 03:40 3552.711914 13.27478027 3600 223.3083038
23 03 2018 03:50 3375.5
                             11.72389984 3472.33117 223.7570038
23 03 2018 04:00 3468.36499 12.39748001 3570.659308 223.3666992
23 03 2018 04:10 3490.956055 12.24561024 3555.081338 221.9268951
23 03 2018 04:20 3497.501953 13.08928967 3600 218.0496979
23 03 2018 04:30 3562.406982 12.99779987 3597.934533 217.4356995
23 03 2018 04:40 3597.150879 14.60741043 3600 217.2725067
23 03 2018 04:50 3567.812012 13.44118977 3600 217.7169037
23 03 2018 05:00 3515.596924 13.02527046 3600 216.9264069
23 03 2018 05:10 3393.424072 12.10849953 3537.822984 217.8036957
23 03 2018 05:20 3334.36499 11.79955959 3487.281872 215.5124054
23 03 2018 05:30 3479.653076 12.61975002 3586.995308 217.6470947
23 03 2018 05:40 3250.237061 11.70203972 3467.816058 210.6737976
23 03 2018 05:50 2880.5979
                            10.35396004 2993.258387 204.0381927
23 03 2018 06:00 3203.385986 11.45804977 3411.279723 211.0404968
23 03 2018 06:10 3087.766113 11.27371025 3360.756629 215.6539001
23 03 2018 06:20 3418.968994 12.05587959 3530.373217 215.779007
23 03 2018 06:30 3008.784912 11.10540009 3308.399758 212.3374939
23 03 2018 06:40 3568.843018 13.91508961 3600 216.6562042
23 03 2018 06:50 3587.050049 14.51117992 3600 209.6638947
23 03 2018 07:00 3602.922119 16.45870018 3600 202.5977936
23 03 2018 07:10 3585.613037 15.48320007 3600 205.5682983
23 03 2018 07:20 3602.844971 15.92646027 3600 205.6548004
23 03 2018 07:30 3596.971924 13.6932497 3600 196.7561951
23 03 2018 07:40 3595.179932 13.50002956 3600 199.8435974
23 03 2018 07:50 3602.793945 14.19993019 3600 201.8426971
23 03 2018 08:00 3601.387939 14.50074959 3600 197.6882935
23 03 2018 08:10 3602.708984 14.99411011 3600 204.6311035
23 03 2018 08:20 3603.590088 15.89844036 3600 206.7794952
23 03 2018 08:30 3603.662109 14.71877956 3600 209.4384003
23 03 2018 08:40 3596.281006 13.32919979 3600 211.9546051
23 03 2018 08:50 3551.24292 13.19690037 3600 209.5901947
23 03 2018 09:00 3481.812012 12.67751026 3590.018384 211.2274933
23 03 2018 09:10 3586.538086 13.11141014 3600 209.179306
23 03 2018 09:20 3430.778076 12.8475399 3596.066406 207.6007996
23 03 2018 09:30 3414.61499 13.1732502 3600 212.5431061
23 03 2018 09:40 3595.894043 15.12477016 3600 216.5950928
23 03 2018 09:50 3601.667969 16.75419044 3600 213.8751984
23 03 2018 10:00 3584.759033 15.15958977 3600 211.9956055
23 03 2018 10:10 3571.5271
                             14.26702023 3600 212.4593048
23 03 2018 10:20 3587.319092 14.02795029 3600 214.9593048
23 03 2018 10:30 3575.637939 13.86025047 3600 221.0941925
23 03 2018 10:40 3596.787109 14.55241013 3600 226.3294067
23 03 2018 10:50 3583.647949 14.82660007 3600 223.3858948
23 03 2018 11:00 3286.853027 12.15929985 3544.577258 231.4597015
23 03 2018 11:10 3369.943115 13.3660202 3600 229.6018066
23 03 2018 11:20 2735.870117 10.67504025 3145.223274 231.808197
23 03 2018 11:30 1865.86499 8.820611954 2029.051493 238.4696045
23 03 2018 11:40 1768.409058 8.311889648 1713.338226 239.639801
23 03 2018 11:50 1891.983032 8.738024712 1976.66992 243.4779053
23 03 2018 12:00 1725.07605 8.421803474 1779.998102 245.120697
23 03 2018 12:10 1237.29895 7.551336765 1284.496074 242.8036041
```

```
23 03 2018 12:20 1238.52002 7.496414185 1256.12328 244.5921936
23 03 2018 12:30 799.4113159 6.545200825 823.7854475 251.3553925
23 03 2018 12:40 744.6334839 6.460689068 790.699536 253.9382935
23 03 2018 12:50 596.2860718 5.895697117 590.3623651 249.4131927
23 03 2018 13:00 393.5914001 5.369918823 432.3463857 261.4299011
23 03 2018 13:10 977.5770874 6.855351925 952.1808883 252.2088013
23 03 2018 13:20 826.0236816 6.409500122 771.0430356 257.0333862
23 03 2018 13:30 819.0169067 6.268894196 718.5200082 247.7368927
23 03 2018 13:40 1413.487061 7.794243813 1414.462702 242.2044067
23 03 2018 13:50 516.0443726 5.582046986 492.9147883 244.7575073
23 03 2018 14:00
                 296.7562866 4.716563225 269.2999945 244.2398987
23 03 2018 14:10 596.2941895 6.026538849 632.9791292 242.0823975
23 03 2018 14:20 508.997406 5.737011909 539.8357075 239.0997009
23 03 2018 14:30 372.887207 5.096108913 359.9661146 244.8027954
23 03 2018 14:40 147.7781982 4.057096958 133.673678 236.3092957
23 03 2018 14:50 332.0992126 4.981202126 331.3949789 220.7740021
23 03 2018 15:00 214.2891998 4.3502388 190.9552623 243.0863037
23 03 2018 15:10 121.4520035 3.867320061 103.933769 230.0702057
23 03 2018 15:20 0
                       3.317476034 34.22251567 217.9244995
23 03 2018 15:30 0
                       4.426352978 206.5717028 201.6513062
23 03 2018 15:40 0
                       5.237432957 396.5426583 178.677002
23 03 2018 15:50 0
                       3.768452883 87.83207889 184.3919983
23 03 2018 16:00 0
                       3.595288038 63.3986451 256.8649902
23 03 2018 16:10 346.4450989 5.372280121 432.9982797 246.2653046
23 03 2018 16:20 784.6182861 6.121297836 665.6768853 213.8069
23 03 2018 16:30 1664.057983 8.444642067 1793.968667 229.4255981
23 03 2018 16:40 2245.827881 9.472726822 2452.0827
                                                     224.3766937
23 03 2018 16:50 2668.39209 10.18192959 2900.130629 219.4087067
23 03 2018 17:00 1548.921021 8.098759651 1587.049331 211.4403992
23 03 2018 17:10 1042.500977 6.626936913 856.5453985 229.3509064
23 03 2018 17:20 100.0628967 3.311970949 33.76914022 223.4510956
23 03 2018 17:30 72.0526123 3.61657095 66.14304925 205.2158966
23 03 2018 17:40 509.9778137 5.745469093 542.4641478 223.2969971
23 03 2018 17:50 509.9884033 5.775055885 551.7158661 235.8013
23 03 2018 18:00 39.15784073 3.317384958 34.2149756 255.7805939
23 03 2018 18:10 0
                       2.79252696 0
                                         325.368988
23 03 2018 18:20 0
                       1.848992944 0
                                         340.8492126
                       3.199354887 25.55874606 261.3623962
23 03 2018 18:30 0
23 03 2018 18:40 66.10965729 4.296123981 180.0478195 232.8616943
23 03 2018 18:50 335.9484863 5.115561008 364.90481
                                                     219.5128021
23 03 2018 19:00 577.2689209 5.966086864 613.6112779 212.107193
23 03 2018 19:10 558.0618286 5.833800793 570.347603 204.1291046
23 03 2018 19:20 1076.524048 7.22191
                                      1119.096581 200.669693
23 03 2018 19:30
                 1381.900024 8.019511223 1541.189717 203.9832001
23 03 2018 19:40
                 1579.555054 8.247607231 1674.817694 202.503006
23 03 2018 19:50 1314.562988 7.845166206 1442.615773 198.1781006
23 03 2018 20:00 1310.057983 7.617588043 1319.205576 196.7481995
23 03 2018 20:10 1461.915039 8.089561462 1581.694431 197.530899
23 03 2018 20:20 2292.272949 9.64773941 2552.888856 199.0157928
23 03 2018 20:30 2484.364014 10.13059044 2870.662719 195.3132935
23 03 2018 20:40 2259.986084 9.707929611 2596.711161 199.0812073
23 03 2018 20:50 1624.262939 8.545964241 1856.412969 193.3549042
23 03 2018 21:00 1580.511963 8.488779068 1821.078639 190.9008026
23 03 2018 21:10 1327.274048 7.821307182 1429.387727 188.8069
23 03 2018 21:20 1254.647949 7.509315014 1262.781327 191.1390991
23 03 2018 21:30 1358.025024 7.887421131 1466.201535 192.287796
23 03 2018 21:40 1269.875977 7.492684841 1254.186553 194.6638947
23 03 2018 21:50 1354.57605 7.883948803 1464.255805 194.5610046
23 03 2018 22:00 1270.776978 7.685891151 1355.580217 199.3800964
```

```
23 03 2018 22:10 1278.140015 7.79698801 1415.972196 198.2951965
                 1510.817017 8.206486702 1650.366638 197.293396
23 03 2018 22:20
23 03 2018 22:30
                 1635.458008 8.622488022 1904.047691 195.6105042
23 03 2018 22:40 1779.838013 8.803516388 2018.178493 194.6799927
23 03 2018 22:50 1811.05603 8.939008713 2104.74897 194.3934021
23 03 2018 23:00 1632.322998 8.653373718 1923.381541 194.107193
23 03 2018 23:10 1359.797974 7.892828941 1469.234487 196.8399963
23 03 2018 23:20 1115.69397 7.424028873 1218.912388 197.5982056
23 03 2018 23:30 874.8212891 6.828967094 940.8186656 202.3565063
23 03 2018 23:40
                 753.093811 6.656001091 868.3771042 204.7167969
23 03 2018 23:50
                 687.2634888 6.477372169 797.1681366 206.8571014
24 03 2018 00:00 742.2266846 6.597626209 844.7108023 203.5399933
24 03 2018 00:10 608.3602295 6.29681778 728.7804802 202.760498
24 03 2018 00:20 498.7015076 5.886639118 587.4085097 206.9172058
24 03 2018 00:30 547.5819702 5.897883892 591.0767686 206.3206024
24 03 2018 00:40 822.5374146 6.808876038 932.2229049 203.7583008
24 03 2018 00:50 1028.906006 7.430932045 1222.426793 200.7503052
24 03 2018 01:00 1044.237061 7.369898796 1191.600846 201.8088989
24 03 2018 01:10 1045.678955 7.191297054 1104.481524 205.6123962
24 03 2018 01:20 676.7382813 6.091644764 655.3415906 208.3583069
24 03 2018 01:30
                 1128.655029 7.700055122 1363.196357 210.3728943
                 1266.317993 7.58386898 1301.468291 207.3925934
24 03 2018 01:40
24 03 2018 01:50
                 1103.322021 7.444567204 1229.389536 208.5075073
24 03 2018 02:00 834.1699829 6.652394772 866.9037594 210.1741028
24 03 2018 02:10 551.6702881 5.956371784 610.3712402 208.6197968
24 03 2018 02:20 789.6307983 6.86626482 956.9049746 202.4947052
24 03 2018 02:30 915.3544922 6.975241184 1004.882108 196.6345062
24 03 2018 02:40 1122.761963 7.463295937 1238.999184 196.7879028
24 03 2018 02:50 1275.605957 7.753537178 1392.175647 198.3959045
24 03 2018 03:00 1155.397949 7.561326981 1289.693178 203.3148956
24 03 2018 03:10 967.2407837 7.262198925 1138.528379 203.2024994
24 03 2018 03:20 1033.994995 7.572543144 1295.543747 199.671402
24 03 2018 03:30 808.1516724 6.750905991 907.6903335 206.069397
24 03 2018 03:40 796.5336914 6.690761089 882.6548177 226.2064972
24 03 2018 03:50 396.3796082 5.588038921 494.6860508 219.346405
24 03 2018 04:00 681.2833862 6.431166172 779.3276636 227.3486938
24 03 2018 04:10
                 357.6288147 5.238193989 396.7440624 248.1636963
24 03 2018 04:20 37.10614014 3.696852922 77.14761316 336.5806885
24 03 2018 04:30 400.0144958 5.419349194 446.0956792 16.43618011
24 03 2018 04:40 482.4566956 5.649767876 513.1330388 34.14896011
24 03 2018 04:50 282.545105 5.014787197 339.6406499 35.34637833
24 03 2018 05:00 55.22994995 4.243611813 169.6131694 55.6023407
24 03 2018 05:10 0
                       2.726363897 0
                                         57.26937866
24 03 2018 05:20 0
                       1.579234958 0
                                         226.5328979
24 03 2018 05:30 0
                       3.173264027 23.94608269 243.5628967
24 03 2018 05:40 213.9904938 4.767378807 280.8414808 259.3039856
24 03 2018 05:50 210.9020996 4.719389915 269.937428 262.6665955
24 03 2018 06:00 106.6542969 3.907567978 110.9365461 269.221405
24 03 2018 06:10 7.854466915 2.840428114 0
                                               269.0997925
24 03 2018 06:20 83.35659027 3.984250069 124.995858 274.6821899
24 03 2018 06:30
                 146.6786041 4.26450491 173.7474522 271.910614
24 03 2018 06:40
                 159.3589935 4.407973766 202.7707683 300.6882935
24 03 2018 06:50 62.35839081 3.837100983 98.84627586 297.6477051
24 03 2018 07:00 61.66796112 3.78550005 90.49682782 300.6759949
24 03 2018 07:10 8.542498589 2.979846001 0
                                               312.930603
24 03 2018 07:20 0
                       2.187262058 0
                                         282.0618896
24 03 2018 07:30 0
                       2.238177061 0
                                         247.1029968
24 03 2018 07:40 0
                       3.793272018 91.72714421 215.6849976
24 03 2018 07:50 27.26137924 4.131425858 147.7934216 214.8289948
```

```
152,4638062 4,359611988 192,8608173 207,9734955
24 03 2018 08:00
24 03 2018 08:10
                  427,1706848 5,57449913 490,6884184 208,0657043
24 03 2018 08:20
                  407.2890015 5.370509148 432.5093132 212.0623932
24 03 2018 08:30
                  258.3875122 4.866580963 303.8867437 207.3220062
24 03 2018 08:40
                  32.67087936 2.97220397 0
                                                 213.9358978
24 03 2018 08:50
                        1.44117403 0
                                           272.964386
24 03 2018 09:00
                  0
                        1.243477941 0
                                           255.0735016
24 03 2018 09:10
                  0
                        1.366981983 0
                                           351.8581848
24 03 2018 09:20
                  0
                        1.016983986 0
                                           355.434906
24 03 2018 09:30
                  0
                        1.282613993 0
                                           0.197419897
24 03 2018 09:40
                  0
                        2.044881105 0
                                           339.6281128
24 03 2018 09:50
                        2.112415075 0
                                           335.9067078
24 03 2018 10:00
                        2.366869926 0
                                           325.5072937
24 03 2018 10:10
                  0
                        1.349822998 0
                                           326.6418152
24 03 2018 10:20
                        0.744592428 0
                                           109.2979965
                  0
24 03 2018 10:30
                  0
                        0.720095813 0
                                           333.5975037
24 03 2018 10:40
                  0
                        1.183339953 0
                                           323.8236084
24 03 2018 10:50
                  0
                        0.760234714 0
                                           309.145813
                  0
24 03 2018 11:00
                        1.215186
                                     0
                                           191.2429962
24 03 2018 11:10
                  0
                        1.692075968 0
                                           191.4190063
24 03 2018 11:20
                        2.130844116 0
                                           195.3614044
                  0
24 03 2018 11:30
                        2.044126987 0
                  0
                                           143.0115051
24 03 2018 11:40
                  0
                        2.161710978 0
                                           139.4555969
24 03 2018 11:50
                  0
                        3.002257109 16.07263504 80.7420578
24 03 2018 12:00
                        2.845494986 0
                                          65.47289276
24 03 2018 12:10
                        2.189482927 0
                                           52.87784958
24 03 2018 12:20
                        2.528923988 0
                                           78.43570709
24 03 2018 12:30
                                           77.74062347
                        2.265326023 0
                  0
24 03 2018 12:40
                  0
                        2.80230689 0
                                           80.68086243
24 03 2018 12:50
                        3.55735898 58.68740999 89.210289
                  0
24 03 2018 13:00
                        3.183037996 24.53744853 98.25173187
                  0
24 03 2018 13:10
                  0
                        3.232402086 27.75772514 134.4129028
24 03 2018 13:20
                        3.447607994 46.35168912 95.08548737
24 03 2018 13:30
                        3.043272972 17.53453912 109.2549973
                  0
24 03 2018 13:40
                        2.728677988 0
                                           91.94074249
                  0
24 03 2018 13:50
                  0
                        3.132857084 21.66350708 91.54361725
                        3.455018997 47.12399093 90.49066162
24 03 2018 14:00
                  0
24 03 2018 14:10
                        3.509175062 53.03434151 74.9908371
                        3.307070971 33.36967753 83.79051208
24 03 2018 14:20
24 03 2018 14:30
                  25.75863075 3.527631998 55.15586597 88.03327179
24 03 2018 14:40
                  9.404949188 2.690885067 0
                                                 109.0953979
24 03 2018 14:50
                  4.050856113 2.875365019 0
                                                 118.9534988
24 03 2018 15:00
                  38.75920105 3.525264978 54.88074311 126.3527985
24 03 2018 15:10
                  21.53557014 3.276190996 30.94062919 117.4748001
24 03 2018 15:20
                  97.9525528 3.354435921 37.39193521 90.33277893
24 03 2018 15:30
                  106.5786972 3.946224928 117.9065268 122.4424973
                  183.9584961 4.171945095 155.6019043 147.718399
24 03 2018 15:40
24 03 2018 15:50
                  49.10797882 3.361630917 38.03434292 147.4882965
                  35.56169891 3.285895109 31.68752457 151.6643066
24 03 2018 16:00
24 03 2018 16:10
                  49.0811615 3.420022011 43.55418351 143.7234039
24 03 2018 16:20
                  132.5175018 3.964221001 121.2328431 152.3863983
24 03 2018 16:30
                  400.321991 5.094834805 359.6436776 178.1072998
24 03 2018 16:40
                  373.6140137 5.229730129 394.5068591 181.8246002
24 03 2018 16:50
                  180.3603973 4.389820099 199.0353983 174.133194
24 03 2018 17:00
                  208.4340057 4.38338089 197.7149229 170.3110962
24 03 2018 17:10
                  264.5982971 4.712975979 268.4918216 173.8522034
24 03 2018 17:20
                  349.9606018 4.980462074 331.2142466 176.6584015
24 03 2018 17:30
                 515.8278198 5.628774166 506.8182987 182.9431
24 03 2018 17:40 685.5789185 6.113874912 663.0808802 187.9425049
```

```
24 03 2018 17:50 526.7886963 5.849554062 575.4039497 192.8518982
24 03 2018 18:00 470.6983032 5.775056839 551.7161657 192.9353027
                434.8724976 5.622014046 504.79394
24 03 2018 18:10
                                                     194.9360962
24 03 2018 18:20
                 372.2782898 5.038681984 345.5596484 207.4797058
                 723.8936157 6.130012035 668.7319997 206.9571991
24 03 2018 18:30
24 03 2018 18:40
                 1086.386963 7.234704018 1125.242844 208.0137024
                 915.5828857 7.018507957 1024.3422
24 03 2018 18:50
                                                     208.8751068
24 03 2018 19:00
                 537.1589966 6.018908978 630.3880909 202.0319061
24 03 2018 19:10
                 537.3485718 6.011704922 627.9473696 203.497406
                 326.8351135 5.196005821 385.6518114 200.9120026
24 03 2018 19:20
24 03 2018 19:30
                 358.875
                             5.250678062 400.0548458 198.3439026
24 03 2018 19:40
                 350.0958862 5.245550156 398.6933408 198.9010925
24 03 2018 19:50
                492.8872986 6.108778
                                         661.3017562 195.0527039
24 03 2018 20:00 416.9790039 5.825382233 567.6559428 193.8605957
24 03 2018 20:10 414.2101135 5.829833984 569.0783927 193.4544983
24 03 2018 20:20 314.2362061 5.199450016 386.5518485 202.4747009
24 03 2018 20:30 274.2184143 5.0648489 352.0920841 192.7131042
24 03 2018 20:40 174.0433044 4.482123852 218.22548
                                                     188.7528992
24 03 2018 20:50 209.0852966 4.714655876 268.8701796 189.3905945
                 175.345993 4.507083893 223.500628 191.4440002
24 03 2018 21:00
24 03 2018 21:10
                 182.927002 4.500681877 222.1440443 193.2071075
                 44.61317062 3.610239983 65.31910635 191.3916931
24 03 2018 21:20
24 03 2018 21:30
                 3.884903908 2.984580994 0
                                               175.8675995
24 03 2018 21:40
                 0
                       3.153460026 22.79471919 176.4759064
24 03 2018 21:50 49.92602921 4.125498772 146.657896 175.190094
24 03 2018 22:00 119.9740982 4.311923981 183.2160725 160.8784943
24 03 2018 22:10 186.9933929 4.53887701 230.2743057 159.7171021
24 03 2018 22:20 218.2940063 4.783596039 284.5618819 166.4929962
24 03 2018 22:30
                 325.0551147 5.442096233 452.4960503 165.4391022
24 03 2018 22:40
                 776.484375 6.54065609 821.9859777 164.9418945
24 03 2018 22:50
                 1091.25
                             7.082368851 1053.503251 176.1824036
                 795.449585 6.421442986 775.6033661 169.137207
24 03 2018 23:00
24 03 2018 23:10
                 749.4011841 6.229365826 704.138866 187.1746063
24 03 2018 23:20 494.2561951 5.718808174 534.2022405 200.3139954
                 316.9610901 5.108399868 363.083172 201.497406
24 03 2018 23:30
24 03 2018 23:40
                 573.4415894 5.952119827 608.9563542 200.7633972
24 03 2018 23:50
                 871.6090698 6.654372215 867.71145
                                                     198.0722961
25 03 2018 00:00
                 904.6779175 6.649707794 865.8069766 190.9889984
25 03 2018 00:10
                 733.2177734 6.386728764 762.3911048 200.1875
25 03 2018 00:20
                 585.0908813 6.053187847 642.0777238 198.9709015
25 03 2018 00:30 470.1029053 5.69504118 526.8964746 203.5308075
25 03 2018 00:40 378.8901978 5.312347889 416.6030411 210.3273926
25 03 2018 00:50
                 302.7345886 4.979066849 330.8736226 217.2689972
25 03 2018 01:00
                 348.0033875 5.247712135 399.2670966 224.9064941
25 03 2018 01:10 480.9320068 5.71387291 532.6805969 212.7198029
25 03 2018 01:20
                 585.9113159 6.072060108 648.5670597 188.7328949
                 346.5368042 5.209052086 389.066226 180.955307
25 03 2018 01:30
                 241.0991974 4.808394909 290.286177 170.8352051
25 03 2018 01:40
25 03 2018 01:50
                 389.9177856 5.461785793 458.0737823 169.4833984
25 03 2018 02:00
                 617.4730225 6.109824181 661.6667087 181.9864044
                                                     192.970993
25 03 2018 02:10
                 822.272583 6.546003819 824.10363
25 03 2018 02:20
                 605.6287231 6.08193922 651.9792229 200.7886047
25 03 2018 02:30
                 313.5780945 5.035384178 344.7401326 196.0301971
25 03 2018 02:40 419.3469849 5.742483139 541.5353171 200.3191071
25 03 2018 02:50 542.1453247 6.2185359 700.2280334 200.8446045
25 03 2018 03:00 410.4602966 5.699690819 528.3213531 198.6408997
25 03 2018 03:10 428.3482056 5.912549973 595.8810298 186.8383942
25 03 2018 03:20 455.2977905 5.914855003 596.6381586 183.4394073
25 03 2018 03:30 431.8432922 5.796707153 558.542033 184.5065002
```

```
25 03 2018 03:40 332.4403992 5.348453999 426.4429042 186.2187958
25 03 2018 03:50 241.6065979 4.835826874 296.6683412 195.2068939
25 03 2018 04:00 160.3468933 4.460012913 213.5834138 207.4179993
25 03 2018 04:10 94.56916046 4.031772137 128.9213849 218.3587952
25 03 2018 04:20 24.34531975 3.37092495 38.87642385 223.8912048
25 03 2018 04:30 6.182541847 3.083112001 19.21219243 230.933197
25 03 2018 04:40 0
                       2.91958499 0
                                         243.2521057
25 03 2018 04:50 0
                       3.238555908 28.18650277 209.270401
25 03 2018 05:00 177.3804016 4.527546883 227.8533207 199.1938019
25 03 2018 05:10 149.6264954 4.146846771 150.7557494 200.2378998
25 03 2018 05:20 161.2572021 4.414384842 204.0944193 199.5579071
25 03 2018 05:30 193.9445038 4.597478867 242.9226892 198.2545929
25 03 2018 05:40 211.8238068 4.518281937 225.8794277 195.5684967
25 03 2018 05:50 110.1719971 3.83306694 98.17818425 199.4450989
25 03 2018 06:00 2.752273083 2.538893938 0
                                               195.2198029
25 03 2018 06:10 3.468871117 2.58612895 0
                                               192.5554047
25 03 2018 06:20 21.54846954 3.200639009 25.64092927 175.8076019
25 03 2018 06:30 67.36525726 3.617806911 66.30465156 171.4794006
25 03 2018 06:40 11.15946007 2.769270897 0
                                               182.5088043
25 03 2018 06:50 0
                                         181.4425964
                       2.099991083 0
25 03 2018 07:00 3.224131107 3.215250969 26.59466938 197.0771942
25 03 2018 07:10 10.23614979 2.829689026 0
                                               181.6385956
25 03 2018 07:20
                 213.7814026 4.282458782 177.3184123 166.7021027
25 03 2018 07:30 622.1027832 6.052786827 641.9402436 172.5906067
25 03 2018 07:40 377.2066956 4.948489189 323.4452049 183.0377045
25 03 2018 07:50 609.4467163 5.692755222 526.1967237 176.3159027
25 03 2018 08:00 602.6099854 5.859169006 578.5026471 174.3347931
25 03 2018 08:10 473.2719116 5.317071915 417.8840554 177.8110046
25 03 2018 08:20 258.4046021 4.504219055 222.8932658 183.1387024
25 03 2018 08:30
                 195.9062958 4.309892178 182.8078981 185.8498993
25 03 2018 08:40 521.6798706 5.646275997 512.0797599 174.7996979
25 03 2018 08:50 418.9804077 5.117387772 365.3701526 176.3513947
25 03 2018 09:00 464.9129944 5.550958157 483.7790794 173.6710968
25 03 2018 09:10 713.8206177 5.84803915 574.9165957 181.3404999
25 03 2018 09:20 555.7941284 5.976140976 616.9750106 180.9340973
25 03 2018 09:30 643.7965698 5.843432903 573.4361985 190.2048035
25 03 2018 09:40 543.9091187 5.650794983 513.4430767 194.3506927
25 03 2018 09:50 443.2611084 5.396812916 439.8002397 180.6697998
25 03 2018 10:00 303.671814 4.698161125 265.1632657 182.2433929
25 03 2018 10:10 721.1774292 6.154693127 677.4290089 184.8164978
25 03 2018 10:20 672.3245239 5.779086113 552.9829188 198.8815002
25 03 2018 10:30 883.8956909 6.470431805 794.4733903 196.0924072
25 03 2018 10:40 782.7280273 6.181818008 687.0623035 200.5444946
25 03 2018 10:50 954.8358154 6.800028801 928.4530123 207.0534058
25 03 2018 11:00 595.883728 5.845199108 574.0035789 195.7337952
25 03 2018 11:10 645.0567017 5.961995125 612.2454297 198.6298981
                 808.520874 6.32713604 740.0161723 207.5924072
25 03 2018 11:20
                 1679.160034 8.299760818 1706.043062 212.022995
25 03 2018 11:30
25 03 2018 11:40 856.9476929 6.5828619 838.7863775 214.3271027
25 03 2018 11:50
                 613.2918701 5.711439133 531.9311
                                                     221.8583984
25 03 2018 12:00
                 212.6996002 4.492181778 220.3466779 229.1199036
25 03 2018 12:10 402.9128113 5.310490131 416.0997989 221.3545074
25 03 2018 12:20
                 313.3544006 4.803850174 289.2339197 217.0709076
25 03 2018 12:30 371.3890991 5.019773006 340.8720697 217.0641022
25 03 2018 12:40 692.1646729 6.195016861 691.7783108 218.4371948
25 03 2018 12:50 962.7059937 6.660758018 870.3228063 227.7682037
25 03 2018 13:00 546.1763916 5.639314175 509.983335 228.3583984
25 03 2018 13:10 2128.923096 8.954353333 2114.606927 220.9584045
25 03 2018 13:20 2580.166992 10.02309036 2806.375573 208.4132996
```

```
25 03 2018 13:30 1593.449951 8.001913071 1531.09243 205.9264984
                 1657.930054 8.181103706 1635.349765 209.0090027
25 03 2018 13:40
                 1517.797974 8.10014534 1587.856754 212.0814056
25 03 2018 13:50
25 03 2018 14:00
                 1006.452026 7.12961483 1075.419987 208.3054962
25 03 2018 14:10 861.6859131 6.811439037 933.3167695 197.9716034
25 03 2018 14:20
                 345.2026978 4.958430767 325.8527019 192.9272003
25 03 2018 14:30
                 88.13465881 3.571197033 60.37958909 201.6862946
                 255.4429932 4.82887888 295.0468522 209.4501953
25 03 2018 14:40
25 03 2018 14:50
                 342.9136963 5.197857857 386.135664 206.9893951
                 352.4489136 5.364644051 430.8919238 207.4568939
25 03 2018 15:00
25 03 2018 15:10
                 276.7637024 4.992534161 334.167607 206.3155975
25 03 2018 15:20
                 204.9490051 4.526391983 227.6069852 210.460495
25 03 2018 15:30
                 247.4763031 4.812653065 291.2733912 214.8795013
25 03 2018 15:40
                 322.2026978 5.063566208 351.7706252 210.1636047
25 03 2018 15:50
                 712.7584229 6.354763985 750.3415107 217.8009949
25 03 2018 16:00 805.7359009 6.818181992 936.198353 212.9924927
25 03 2018 16:10
                 750,2020874 6,127066135 667,6982874 196,9485016
25 03 2018 16:20
                 1688.741943 8.481685638 1816.711992 205.6739044
25 03 2018 16:30 1078.873047 7.181982994 1100.060273 215.1405945
25 03 2018 16:40 596.4981079 6.010016918 627.3762797 226.6446991
25 03 2018 16:50
                 238.8253021 4.548653126 232.3695513 233.0310059
25 03 2018 17:00 232.8314972 4.642286777 252.7397398 225.9765015
25 03 2018 17:10
                 1536.006958 8.275576591 1691.534258 214.3190002
25 03 2018 17:20
                 1424.738037 8.256491661 1680.120281 209.3121033
25 03 2018 17:30 891.9290161 6.920513153 980.6043567 207.2727051
25 03 2018 17:40 694.2542725 6.331852913 741.7731433 205.5099945
25 03 2018 17:50
                 1443.833984 7.895314217 1470.629434 200.0198975
25 03 2018 18:00 2139.679932 9.149438858 2240.739493 196.2503967
25 03 2018 18:10 2780.896973 10.39673042 3015.106672 198.0283966
25 03 2018 18:20 2808.585938 10.54541969 3087.169458 202.3623047
25 03 2018 18:30 2613.219971 10.38158035 3007.425802 203.5482025
25 03 2018 18:40
                 2581.590088 10.31980038 2975.440787 201.657196
25 03 2018 18:50
                 2146.916016 9.318015099 2350.682826 200.6947021
25 03 2018 19:00 2386.653076 9.661158562 2562.767856 204.1269073
                 2617.01001 10.02455997 2807.278401 203.3645935
25 03 2018 19:10
25 03 2018 19:20
                 2669.760986 10.20578003 2913.554269 200.1560974
25 03 2018 19:30
                 2705.843018 10.38138008 3007.323841 198.7109985
25 03 2018 19:40
                 3060.264893 11.0302
                                         3283.000767 197.6336975
25 03 2018 19:50
                 3577.802979 12.73519039 3592.544177 201.6988068
25 03 2018 20:00
                 3601.477051 13.04277992 3600 201.8054962
25 03 2018 20:10 3571.511963 12.57361984 3584.222744 200.5836945
25 03 2018 20:20 3540.542969 12.35966969 3567.122144 197.8426971
25 03 2018 20:30
                 3603.905029 13.06120968 3600 197.655304
25 03 2018 20:40
                 3556.352051 12.74860954 3593.06164 197.0175018
25 03 2018 20:50
                 3501.0271
                            11.43889046 3406.349668 196.0485992
25 03 2018 21:00
                 3439.316895 12.62417984 3587.244762 197.5744934
                 3584.73291 12.76651955 3593.711212 188.5605011
25 03 2018 21:10
                 3547.852051 12.31429958 3562.580658 189.0128937
25 03 2018 21:20
25 03 2018 21:30
                 3557.918945 12.60828018 3586.335769 184.7942047
25 03 2018 21:40
                 3544.819092 12.22700977 3552.920077 184.9936066
25 03 2018 21:50
                 3350.792969 12.52017021 3580.608696 180.2595978
25 03 2018 22:00
                 3053.624023 11.15633011 3324.889258 185.8697968
25 03 2018 22:10
                 2626.131104 10.42432976 3028.936256 184.3883972
25 03 2018 22:20
                 3554.549072 12.91625977 3597.32117 177.6091003
25 03 2018 22:30
                 3599.935059 13.04426956 3600 181.0675049
25 03 2018 22:40
                 3603.806885 13.07594013 3600
                                               179.6072998
25 03 2018 22:50
                 3603.947998 13.21673012 3600 184.065094
25 03 2018 23:00 3604.227051 13.42072964 3600
                                              180.7223053
25 03 2018 23:10 3604.256104 13.69480991 3600
                                              176.8495941
```

```
3603.601074 13.21008015 3600
25 03 2018 23:20
                                              177.7489929
                 3597.906006 13.02762032 3600 181.496994
25 03 2018 23:30
25 03 2018 23:40
                 3501.565918 11.98184967 3519.099378 184.7942963
25 03 2018 23:50
                 3368.350098 11.71636963 3470.785807 186.282196
26 03 2018 00:00
                 3579.163086 12.62816048 3587.466419 185.5245056
26 03 2018 00:10
                 3603.793945 13.50576019 3600 185.6593018
26 03 2018 00:20
                 3604.001953 13.89700031 3600 181.4833984
26 03 2018 00:30
                 3604.037109 14.4317503 3600
                                              180.600296
                 3604.031006 14.8849802 3600
26 03 2018 00:40
                                              179.7205963
                 3604.154053 15.76445007 3600
                                              177.8842926
26 03 2018 00:50
26 03 2018 01:00
                 3604.218994 16.44816017 3600
                                              178.1717072
26 03 2018 01:10
                 3604.136963 16.20066071 3600 176.7539978
26 03 2018 01:20
                 3603.967041 15.57063961 3600
                                              176.1011963
26 03 2018 01:30
                 3604.116943 15.62565041 3600
                                              175.6165924
26 03 2018 01:40
                 3603.769043 15.65847015 3600
                                              176.8292999
26 03 2018 01:50
                 3604.030029 15.74279022 3600
                                              173.740097
26 03 2018 02:00
                 3603.917969 16.09012032 3600
                                              174.3070984
26 03 2018 02:10
                 3604.014893 14.7274704 3600 170.1582031
26 03 2018 02:20
                 3603.88501 14.79792976 3600 168.8092041
26 03 2018 02:30
                 3604.072021 14.72280025 3600
                                              166.7225037
                 3604.202881 14.95201969 3600
26 03 2018 02:40
                                              164.9436035
                 3603.97998 15.51686001 3600
26 03 2018 02:50
                                               168.6605988
26 03 2018 03:00
                 3603.675049 16.54281044 3600
                                               174.4972992
26 03 2018 03:10
                 3603.906006 16.06024933 3600
                                              175.0720978
26 03 2018 03:20
                 3604.166992 16.4790802 3600
                                              177.1455994
26 03 2018 03:30
                 3604.196045 16.22411919 3600
                                              179.2964935
26 03 2018 03:40
                 3604.025879 15.91759014 3600
                                              177.5740967
26 03 2018 03:50
                 3604.139893 15.65641975 3600
                                              175.3506012
26 03 2018 04:00
                 3604.095947 16.03640938 3600
                                              176.0048065
                 3603.818115 16.14122009 3600
26 03 2018 04:10
                                              174.7718964
26 03 2018 04:20
                 3603.76001 16.00315094 3600 174.0621033
26 03 2018 04:30
                 3603.753906 16.21449089 3600 172.626297
26 03 2018 04:40
                 3603.89209 16.46921921 3600
                                              173.6719055
26 03 2018 04:50
                 3603.782959 16.23172951 3600
                                              175.620697
26 03 2018 05:00
                 3603.962891 16.38351059 3600
                                              178.8704071
26 03 2018 05:10
                 3604.129883 16.22327042 3600
                                               178.3592072
26 03 2018 05:20
                 3604.120117 15.82777023 3600
                                              175.8771057
26 03 2018 05:30
                 3603.852051 14.99682999 3600
                                              171.9073029
26 03 2018 05:40
                 3603.831055 15.13656998 3600
                                              170.9149017
                 3603.85498 15.20213985 3600
26 03 2018 05:50
                                              173.2324982
26 03 2018 06:00
                 3603.520996 15.2104702 3600
                                              173.3704987
26 03 2018 06:10
                 3603.684082 14.58236027 3600
                                              173.7640991
26 03 2018 06:20
                 3604.061035 14.92257023 3600
                                              172.5438995
26 03 2018 06:30
                 3603.809082 14.35678005 3600
                                              172.0162964
26 03 2018 06:40
                 3603.514893 14.14706993 3600 170.4586945
26 03 2018 06:50
                 3603.855957 14.77241039 3600 173.388504
26 03 2018 07:00
                 3603.613037 14.71173954 3600 173.3358002
26 03 2018 07:10
                 3603.783936 14.66329002 3600 170.0281067
26 03 2018 07:20
                 3603.8479
                             14.66456985 3600
                                              170.2156982
26 03 2018 07:30
                 3603.665039 14.7897501 3600
                                              172.9033051
26 03 2018 07:40
                 3603.729004 14.73139
                                         3600
                                              173.9259033
26 03 2018 07:50
                 3603.5
                             14.94091034 3600
                                              172.6351013
26 03 2018 08:00
                 3603.577881 15.21977043 3600
                                              171.0075073
26 03 2018 08:10
                 3600.311035 15.07291985 3600
                                              170.7687988
26 03 2018 08:20
                 3596.500977 14.42426014 3600
                                              170.3609009
26 03 2018 08:30
                 3587.698975 14.56260967 3600
                                              169.7554016
26 03 2018 08:40
                 3507.654053 13.05035019 3600 167.053894
26 03 2018 08:50 3458.644043 12.57398987 3584.246256 169.074707
26 03 2018 09:00 2904.37793 10.41442013 3023.994816 169.0545959
```

```
12.84912968 3596.103108 171.5402985
26 03 2018 09:10 3446.2229
                 3590.120117 14.36015987 3600 175.9326935
26 03 2018 09:20
26 03 2018 09:30
                 3275.74707 11.86999035 3500.270253 175.4998016
26 03 2018 09:40 3498.375977 12.97171974 3597.841177 176.6082001
26 03 2018 09:50 3520.430908 13.3278904 3600 174.5606995
26 03 2018 10:00 3341.018066 12.47727966 3577.394079 174.4019928
26 03 2018 10:10 3278.381104 11.88492012 3502.910091 178.9029999
26 03 2018 10:20 2492.490967 9.708569527 2597.170332 180.9073029
26 03 2018 10:30 2319.935059 9.406950951 2408.930153 183.3395996
26 03 2018 10:40 19.17867088 9.72266674 2607.250174 188.9022064
26 03 2018 10:50 911.871582 9.239491463 2299.382572 190.901001
26 03 2018 11:00 1464.166992 7.966619015 1510.939079 191.8863068
26 03 2018 11:10 2135.001953 9.275911331 2323.158988 196.9611053
26 03 2018 11:20 1258.56897 8.434290886 1787.631832 208.7832031
26 03 2018 11:30 0
                       7.313055992 1163.382711 214.8851013
26 03 2018 11:40 353.9442139 6.754889011 909.3632144 214.4174042
26 03 2018 11:50 0
                       5.822000027 566.5765974 0
26 03 2018 12:00 60.58119965 4.659050941 256.4457945 0
26 03 2018 12:10 136.8547974 4.077777863 137.5763008 215.4131012
26 03 2018 12:20 69.84819031 3.569721937 60.19774885 216.5137939
26 03 2018 12:30 7.432444096 4.174640179 156.1241344 217.7337952
26 03 2018 12:40 57.73701859 3.379695892 39.68378621 219.2097931
26 03 2018 12:50 229.1994019 4.708279133 267.4349659 219.3502045
26 03 2018 13:00 304.0396118 5.219048977 391.6920917 217.8300934
26 03 2018 13:10 251.7507935 5.065780163 352.3255508 206.5518951
26 03 2018 13:20 249.2026062 4.898552895 311.4629315 207.9539032
26 03 2018 13:30 260.7844849 5.033286095 344.2191886 185.4571075
26 03 2018 13:40 42.02787018 4.44809103 211.0924169 187.2071991
26 03 2018 13:50 71.65128326 3.921324968 113.3895748 190.0325012
26 03 2018 14:00 273.8635864 4.841086864 297.8981631 199.5128937
26 03 2018 14:10 560.0401001 5.674057007 520.4922665 212.1013031
26 03 2018 14:20 741.2258301 6.380607128 760.0748529 218.7440948
26 03 2018 14:30 547.8015747 5.882008076 585.9016152 213.201004
26 03 2018 14:40 458.3970032 5.610864162 501.4646118 202.290802
26 03 2018 14:50 867.6276855 6.666235924 872.5666258 205.0296021
26 03 2018 15:00 888.2503052 6.86145401 954.8206405 203.3312073
26 03 2018 15:10 530.77771
                            5.781882763 553.8631136 194.5352936
                 734.7114868 6.439395905 782.4880258 204.0608978
26 03 2018 15:20
26 03 2018 15:30 555.0546265 5.803793907 560.7866497 201.8645935
26 03 2018 15:40 624.4473267 6.260182858 715.3362313 197.0467987
26 03 2018 15:50 981.6887207 6.865243912 956.4624203 198.6654968
26 03 2018 16:00 1524.567993 8.213914871 1654.772339 194.6483002
26 03 2018 16:10 831.2022705 8.053501129 1560.781878 192.8784943
26 03 2018 16:20 0
                       9.176278114 2258.193756 195.6940002
26 03 2018 16:30 0
                       9.896146774 2725.819835 189.324707
26 03 2018 16:40 0
                       11.24398041 3351.950052 188.7422028
26 03 2018 16:50 0
                       9.71454525 2601.451433 189.0912933
26 03 2018 17:00 1790.42395 9.657679558 2560.212697 186.8320007
26 03 2018 17:10 1826.741943 8.57707119 1875.729342 191.2375946
26 03 2018 17:20
                 2185.36792 9.605617523 2521.468651 195.7996979
26 03 2018 17:30
                 1415.432983 7.875926018 1459.765354 186.8159027
26 03 2018 17:40 976.0216064 7.179465771 1098.867407 186.7088928
26 03 2018 17:50 956.093689 6.869637012 958.3676892 189.4985046
26 03 2018 18:00 863.7567749 6.70650816 889.1688817 192.9716034
26 03 2018 18:10 933.298584 7.251019955 1133.113983 194.094696
26 03 2018 18:20 1095.483032 7.699905872 1363.115974 196.2879944
26 03 2018 18:30 848.3356934 7.045897007 1036.78443 195.1177979
26 03 2018 18:40 912.9467773 7.319085121 1166.353599 189.645401
26 03 2018 18:50 708.367981 6.688531876 881.7349834 190.0251007
```

```
26 03 2018 19:00 731.99823
                             6.504240036 807.6504382 193.0662994
                 1007.085999 6.946183205 991.9452493 205.9889984
26 03 2018 19:10
26 03 2018 19:20
                 1516.754028 8.02945137 1546.907159 212.7185974
26 03 2018 19:30
                 1380.062988 7.984539986 1521.155833 210.1190948
                 1803.543945 8.791700363 2010.672309 211.115799
26 03 2018 19:40
26 03 2018 19:50
                 1811.625
                             8.803702354 2018.296688 209.3249969
26 03 2018 20:00 2134.900879 9.292756081 2334.166157 210.5480957
26 03 2018 20:10 2240.52002 9.517244339 2453.493488 208.5856018
26 03 2018 20:20
                 2558.643066 10.21798992 2920.361562 205.5993958
                 2913.563965 11.20685959 3340.690879 205.3542023
26 03 2018 20:30
26 03 2018 20:40
                 2879.325928 10.9604702 3258.306008 207.3775024
26 03 2018 20:50 3052.534912 11.40686035 3397.943572 205.6735992
26 03 2018 21:00 3062.008057 11.55230999 3434.479473 203.6324005
26 03 2018 21:10 3070.064941 11.28337955 3363.580772 203.0285034
26 03 2018 21:20 3097.139893 11.28149986 3363.0333
                                                    205.0363007
26 03 2018 21:30 3157.220947 11.52235985 3427.296572 207.7528992
26 03 2018 21:40 3393.237061 12.07542038 3533.193983 206.8717957
26 03 2018 21:50 3447.302002 12.31890965 3563.056996 206.9698944
26 03 2018 22:00 3593.860107 13.68122959 3600 208.4004059
26 03 2018 22:10 3577.314941 12.82839966 3595.59587 206.3374023
26 03 2018 22:20 3602.672119 13.88597965 3600 203.2279968
                 3603.529053 14.50199986 3600 202.8847046
26 03 2018 22:30
                 3603.254883 15.01486969 3600 202.6828003
26 03 2018 22:40
26 03 2018 22:50
                 3602.745117 15.86071968 3600 202.9015961
26 03 2018 23:00
                 3602.962891 15.52853966 3600 202.4996033
26 03 2018 23:10 3602.86792 16.18244934 3600 203.6318054
26 03 2018 23:20 3601.77002 16.47514915 3600 205.2565002
26 03 2018 23:30 3602.854004 14.82186031 3600 205.5021057
26 03 2018 23:40 3514.079102 13.62572956 3600 208.9515991
26 03 2018 23:50 3553.601074 15.44311047 3600 219.3618011
27 03 2018 00:00 3478.572021 13.44367027 3600 228.7678986
27 03 2018 00:10 2482.155029 10.15272045 2883.461494 236.8464966
27 03 2018 00:20
                 2824.537109 10.42043018 3026.994948 241.3493042
27 03 2018 00:30 3163.572021 11.28203011 3363.187811 225.9794006
27 03 2018 00:40 3368.25708 11.8761301 3501.360636 220.468399
                 814.0786133 10.90859985 3239.20784 227.1773071
27 03 2018 00:50
27 03 2018 01:00
                 1183.140015 9.961342812 2767.830854 224.7276001
27 03 2018 01:10
                 3006.274902 11.30589008 3370.079715 237.969101
27 03 2018 01:20 3455.170898 12.80576038 3594.970883 233.2789001
27 03 2018 01:30 3594.010986 14.28433037 3600 233.052002
27 03 2018 01:40 3601.47998 19.74827957 3600 226.4895935
27 03 2018 01:50 3601.897949 18.4574604 3600 223.1927032
                 3603.041016 15.13321972 3600 219.7180023
27 03 2018 02:00
27 03 2018 02:10 3603.024902 15.01280975 3600 224.4385986
27 03 2018 02:20 3601.74292 14.47758007 3600 227.6947937
27 03 2018 02:30
                 3591.843994 13.8074398 3600 218.4302063
27 03 2018 02:40
                 3600.585938 14.00977993 3600 210.9933929
                 3603.600098 14.90322018 3600 207.1687927
27 03 2018 02:50
27 03 2018 03:00 3585.677002 13.48490047 3600
                                              205.8578033
27 03 2018 03:10
                 3590.98999 13.72360039 3600
                                              211.4656067
27 03 2018 03:20
                 3603.468018 13.6073103 3600 211.5644073
27 03 2018 03:30
                 3603.047119 15.72122002 3600 208.8634949
27 03 2018 03:40
                 3602.957031 17.11924934 3600 206.6988068
27 03 2018 03:50
                 3603.048096 17.48933029 3600
                                              208.5164948
27 03 2018 04:00
                 3603.01001 17.17725945 3600
                                              207.3796997
27 03 2018 04:10
                 3602.729004 17.25452995 3600
                                              205.4806061
27 03 2018 04:20 3603.193115 17.71516991 3600 204.5399017
27 03 2018 04:30 3603.591064 18.15979004 3600 202.6208038
27 03 2018 04:40 3603.676025 17.4385891 3600 202.3237
```

```
27 03 2018 04:50 3603.448975 16.8850193 3600 203.6347961
                 3603.520996 17.24729919 3600 206.0417023
27 03 2018 05:00
                 3603.758057 17.09482002 3600 202.7680054
27 03 2018 05:10
27 03 2018 05:20 3603.86499 16.3159008 3600 203.5444946
27 03 2018 05:30 3603.3479
                             15.38560009 3600 202.2097015
27 03 2018 05:40 3603.547119 14.56733036 3600 202.447403
27 03 2018 05:50
                 3602.837891 14.21208954 3600 204.2277069
27 03 2018 06:00 3602.235107 13.35951042 3600 203.8394012
27 03 2018 06:10 3577.25
                             12.99411964 3597.927202 203.3565063
27 03 2018 06:20 3584.208008 12.88193035 3596.779123 199.1555023
27 03 2018 06:30 3595.258057 12.94379997 3597.634174 197.1569977
27 03 2018 06:40 3598.021973 13.03124046 3600 195.7680054
27 03 2018 06:50 3592.73291 12.90612984 3597.178781 196.1954041
27 03 2018 07:00 3473.340088 11.84243965 3495.295064 196.7167053
27 03 2018 07:10 3479.724121 11.9212904 3509.17672 194.5475006
27 03 2018 07:20 3326.673096 11.65913963 3458.697185 193.8475952
27 03 2018 07:30 2810.616943 10.48756981 3059.840588 195.6340942
27 03 2018 07:40 3083.693115 10.98418999 3266.831382 194.4577026
27 03 2018 07:50 2060.379883 8.898982048 2079.083585 197.6271973
27 03 2018 08:00 1942.869019 8.610586166 1896.613593 200.5868988
27 03 2018 08:10 2575.871094 10.28652
                                         2957.763913 206.0850067
27 03 2018 08:20 3364.593994 12.06949043 3532.344773 204.966095
27 03 2018 08:30 3272.64502 11.78540993 3484.565025 202.1468964
27 03 2018 08:40 2979.081055 11.18459034 3333.79479 203.9160004
27 03 2018 08:50 3200.468018 12.22126007 3552.240664 206.2917938
27 03 2018 09:00 3193.968994 11.66219044 3459.357024 208.6141052
27 03 2018 09:10 2666.201904 10.40402985 3018.784704 209.9243927
27 03 2018 09:20 2953.513916 10.91378975 3241.147025 207.3424988
27 03 2018 09:30 3318.428955 12.94172001 3597.614312 208.4394989
27 03 2018 09:40 2871.384033 10.88164997 3229.036047 207.8381958
27 03 2018 09:50 3174.875
                           11.50454998 3422.942359 215.4315033
27 03 2018 10:00 2841.865967 10.7598896 3180.911087 218.5877075
27 03 2018 10:10 2974.187012 11.29012966 3365.540684 217.3820953
27 03 2018 10:20 3034.677979 11.21109962 3341.991814 220.3963928
27 03 2018 10:30 3364.048096 12.16254044 3544.993647 215.8556976
27 03 2018 10:40 3252.448975 12.18013954 3547.224853 214.1546936
                 3283.625977 12.17199039 3546.198029 211.9118042
27 03 2018 10:50
27 03 2018 11:00 3541.572021 13.60750961 3600 216.5128937
27 03 2018 11:10 3252.11499 11.89585018 3504.817774 219.259201
27 03 2018 11:20 2689.153076 10.31235981 2971.516082 215.2409973
27 03 2018 11:30 3153.491943 11.51741982 3426.095034 218.3014984
27 03 2018 11:40 3227.580078 11.65450001 3457.690363 213.3175049
27 03 2018 11:50 2693.503906 10.41116047 3022.363489 212.0720062
27 03 2018 12:00 2312.552002 9.913588524 2737.192678 215.5473938
27 03 2018 12:10 2060.399902 9.188873291 2266.391934 214.1083984
27 03 2018 12:20 1887.621948 8.778031349 2001.998303 208.7599945
27 03 2018 12:30 1515.444946 7.955595016 1504.671202 208.3359985
27 03 2018 12:40 2449.462891 9.833802223 2684.35888 215.4781036
27 03 2018 12:50 3109.905029 11.1505003 3323.030545 210.3684998
27 03 2018 13:00 3566.012939 14.09564018 3600 223.5744934
27 03 2018 13:10
                 3282.809082 11.54559994 3432.885348 244.1685944
27 03 2018 13:20 2334.447021 9.42130661 2418.343725 229.5305939
27 03 2018 13:30
                 3591.246094 13.38288021 3600 227.9351044
27 03 2018 13:40 2840.295898 10.81416035 3202.804232 243.3811035
27 03 2018 13:50 2012.579956 8.656012535 1925.036167 252.6105042
27 03 2018 14:00 1563.350952 8.180191994 1634.811486 260.1943054
27 03 2018 14:10 1022.499023 6.958102226 997.2389031 267.26651
27 03 2018 14:20 759.5496216 6.440437794 782.8886601 256.1271057
27 03 2018 14:30 1761.859985 8.485077858 1818.799752 258.7015076
```

```
27 03 2018 14:40 2158.565918 8.927089691 2097.098868 258.4371948
                 1437.166992 7.870935917 1456.975967 252.9183044
27 03 2018 14:50
27 03 2018 15:00
                 1784.390991 8.607422829 1894.639262 248.4375
27 03 2018 15:10 1649.630005 8.200261116 1646.678056 247.6215973
27 03 2018 15:20 3139.156006 10.99606991 3271.052645 242.1855927
27 03 2018 15:30 2667.801025 10.29848003 2964.152815 248.7050934
27 03 2018 15:40 1256.734009 7.393632889 1203.522523 236.0601044
                 1725.244995 8.29843235 1705.24478 234.2375031
27 03 2018 15:50
27 03 2018 16:00 1654.817017 8.180149078 1634.786151 232.2593994
27 03 2018 16:10
                 1867.521973 8.591474533 1884.695434 230.9766998
27 03 2018 16:20
                 2152.496094 8.96303463 2120.188607 229.7873993
27 03 2018 16:30 2424.716064 9.74460125 2622.798849 227.9154968
27 03 2018 16:40 3022.998047 10.7728796 3186.216931 228.3157959
27 03 2018 16:50 3110.23291 10.93185043 3247.846108 225.8222046
27 03 2018 17:00 3590.468994 13.0662899 3600 224.3946075
27 03 2018 17:10 3571.819092 13.13269997 3600 225.1141052
27 03 2018 17:20 3530.426025 11.82604027 3492.269382 223.3524017
27 03 2018 17:30 3407.798096 11.42504025 3402.740058 222.228302
27 03 2018 17:40 3217.724121 11.27604008 3361.438903 222.8625946
27 03 2018 17:50 3491.370117 11.86345959 3499.103101 225.2402954
27 03 2018 18:00 3549.553955 12.30134964 3561.224518 227.8435059
27 03 2018 18:10 2586.999023 9.951659203 2761.676895 227.2315979
                 1574.38501 7.807518959 1421.773093 230.7391052
27 03 2018 18:20
27 03 2018 18:30
                 2508.303955 9.711829185 2599.507121 232.9174042
27 03 2018 18:40 2208.64209 9.251704216 2307.352075 238.8213959
27 03 2018 18:50 1858.531006 8.512095451 1835.457639 238.0119934
27 03 2018 19:00 2936.491943 10.6139698 3118.411938 230.9438019
27 03 2018 19:10 2443.436035 9.617835999 2530.647262 228.6188049
27 03 2018 19:20 2555.420898 10.00191021 2793.289143 227.0572052
                 1971.230957 8.751006126 1984.878753 232.8016968
27 03 2018 19:30
27 03 2018 19:40
                 1213.779053 7.643743992 1333.065154 251.2911072
27 03 2018 19:50 826.7678223 6.579757214 837.5437024 236.1502991
27 03 2018 20:00
                 1323.484009 7.451212883 1232.793313 230.3601074
27 03 2018 20:10 1125.543945 7.172232151 1095.44431 239.8984985
27 03 2018 20:20 1761.276978 8.503647804 1830.243536 230.2863007
27 03 2018 20:30
                 1920 9.023038864 2158.853662 226.8421936
27 03 2018 20:40 838.242981 8.146424294 1614.929472 225.3527985
27 03 2018 20:50 0
                       8.220234871 1658.524701 238.3493042
27 03 2018 21:00 0
                       7.630703926 1326.144537 233.145401
                       7.259601116 1137.268603 228.7810059
27 03 2018 21:10 0
27 03 2018 21:20 0
                       6.781123161 920.4283694 234.2328033
27 03 2018 21:30 0
                       6.761939049 912.3288291 224.7458038
27 03 2018 21:40 0
                       6.405388832 769.4767687 225.6710968
27 03 2018 21:50 0
                       6.042952061 638.5740077 219.7727966
27 03 2018 22:00 0
                       6.389286995 763.360277 217.0211945
                       6.460960865 790.8046748 211.690506
27 03 2018 22:10 0
27 03 2018 22:20 0
                       6.796527863 926.9638059 217.9049072
27 03 2018 22:30 0
                       6.913671017 977.5953193 220.3511047
27 03 2018 22:40 0
                       6.905052185 973.8131455 226.259903
27 03 2018 22:50 0
                       6.774278164 917.5334156 232.5095062
27 03 2018 23:00 0
                       6.446642876 785.277152 229.8177948
27 03 2018 23:10 535.9788818 6.6078372
                                         848.82256
                                                     217.578598
27 03 2018 23:20
                 701.7915039 6.659035206 869.6178329 214.5578003
27 03 2018 23:30 661.7025757 6.607429028 848.6579704 213.8952026
27 03 2018 23:40 822.9219971 7.088208199 1056.196125 215.3784027
27 03 2018 23:50 816.472229 7.142172813 1081.295226 212.8251038
28 03 2018 00:00 993.2208862 7.431175232 1222.55073 208.5843048
28 03 2018 00:10 880.0584106 7.077181816 1051.114937 209.4859924
28 03 2018 00:20 882.8201904 7.249554157 1132.405337 204.4727936
```

```
28 03 2018 00:30 1048.426025 7.737390995 1383.390277 203.0220032
                             8.147483826 1615.551685 202.0771027
                 1331.125
28 03 2018 00:40
28 03 2018 00:50
                 1233.27002 7.927568913 1488.79516 204.1562958
28 03 2018 01:00
                 1341.827026 8.215702057 1655.833077 207.3450012
                 1206.987061 7.96510601 1510.078069 208.3582001
28 03 2018 01:10
                 955.2437744 7.499205112 1257.574076 203.5039978
28 03 2018 01:20
28 03 2018 01:30
                 731.8513794 6.815259933 934.9489511 201.2333069
28 03 2018 01:40 628.7747803 6.566568851 832.2770631 198.6537933
28 03 2018 01:50
                 716.3508301 6.749907017 907.2710539 198.5267944
28 03 2018 02:00
                 773.8214111 6.742867947 904.3200065 203.4028931
28 03 2018 02:10 622.5593872 6.322278976 738.2094995 204.2209015
28 03 2018 02:20 539.7628784 6.274702072 720.6471812 199.1661987
28 03 2018 02:30 494.5379028 6.005677223 625.9094614 195.1134033
28 03 2018 02:40 345.7876892 5.449532986 454.5986408 193.1188965
28 03 2018 02:50 402.6440125 5.673923016 520.4515117 194.3827057
28 03 2018 03:00 479.2796936 6.060798168 644.6899979 191.6768951
28 03 2018 03:10 513.3997192 6.118597984 664.7319898 193.1864014
28 03 2018 03:20 499.4334106 6.171813965 683.5002424 188.5917969
28 03 2018 03:30 400.0599976 5.708309174 530.9680694 183.800293
                 332.5585938 5.316524982 417.7356454 182.5500031
28 03 2018 03:40
28 03 2018 03:50
                 218.017395 4.818155766 292.5510222 174.975296
28 03 2018 04:00
                 314.5905151 5.380917072 435.3869006 174.1049042
                 562.4755249 6.32723093 740.051494 174.9506989
28 03 2018 04:10
28 03 2018 04:20
                 669.9260254 6.584136963 839.2970462 174.1929932
28 03 2018 04:30
                 467.0289917 5.838787079 571.9452952 169.9907074
28 03 2018 04:40 426.8389893 5.679545879 522.1632668 168.9517975
28 03 2018 04:50 500.4415894 6.058992863 644.0697594 167.8961029
28 03 2018 05:00 714.0059814 6.723223209 896.1148846 168.0272064
28 03 2018 05:10 762.8234253 6.82462883 938.9584852 166.6492004
28 03 2018 05:20 488.7951965 5.977924824 617.5729512 165.4860992
28 03 2018 05:30 215.4674988 4.795906067 287.3980515 156.9465027
28 03 2018 05:40 132.5717926 4.026938915 128.0177104 152.8276978
28 03 2018 05:50 88.08860779 3.668529987 73.14754711 151.7064972
28 03 2018 06:00 23.9102993 3.16079092 23.21360705 151.137207
28 03 2018 06:10 0
                       2.230349064 0
                                         150.0039978
28 03 2018 06:20 0
                       2.39447403 0
                                         146.0991058
28 03 2018 06:30
                 0
                       3.160991907 23.22521256 159.3867035
                 72.55986023 3.21062398 26.28896421 157.3491058
28 03 2018 06:40
28 03 2018 06:50 2.392599106 2.389878035 0
                                               154.3515015
28 03 2018 07:00 4.009883881 2.6457479
                                         0
                                               161,1972046
28 03 2018 07:10 0
                       2.644619942 0
                                         168.7597046
28 03 2018 07:20 42.52634811 4.126585007 146.8658732 172.8652039
28 03 2018 07:30 83.81426239 3.788022041 90.89500433 174.3376007
28 03 2018 07:40 0.679800928 2.343933105 0
                                               171.4400024
28 03 2018 07:50 0
                       2.021341085 0
                                         203.8439026
28 03 2018 08:00
                 0
                       2.428400993 0
                                         202.8065948
28 03 2018 08:10 4.263616085 3.050978899 17.83923262 177.3262024
                 7.330193996 3.044975042 17.60102171 203.6047058
28 03 2018 08:20
28 03 2018 08:30
                 16.82740974 2.342288017 0
                                               200.4207001
28 03 2018 08:40
                 303.7394104 5.053177834 349.171892 190.691803
28 03 2018 08:50
                 86.31639099 3.661041021 72.11133124 186.6360931
28 03 2018 09:00
                 15.25294018 2.383616924 0
                                               213.9514008
28 03 2018 09:10
                       2.171231031 0
                                         338.2426147
28 03 2018 09:20
                       2.409401894 0
                                         352.1047974
                 0
28 03 2018 09:30
                       2.101525068 0
                                         355.8460999
                 0
28 03 2018 09:40
                 0
                       2.607820034 0
                                         355.2164001
28 03 2018 09:50
                 0
                       2.180624962 0
                                         353.8875122
28 03 2018 10:00 0
                       2.961534023 0
                                         346.810791
28 03 2018 10:10 0
                    2.707993031 0
                                         345.0963135
```

```
28 03 2018 10:20 0
                       2.679053068 0
                                         351.557312
28 03 2018 10:30
                 0
                       2.650068045 0
                                         356.1890869
28 03 2018 10:40
                       1.914674997 0
                                         350,4910889
                 0
28 03 2018 10:50 0
                       2.099397898 0
                                         3.203929901
28 03 2018 11:00 0
                       2.504641056 0
                                         4.54556179
28 03 2018 11:10
                 0
                       2.330838919 0
                                         349.9213867
28 03 2018 11:20
                 0
                       2.636040926 0
                                         1.39921999
28 03 2018 11:30
                 0
                       3.482392073 50.05271527 9.972579002
28 03 2018 11:40
                 0
                       3.661001921 72.1059446 6.326957226
28 03 2018 11:50
                       3.630259991 67.94653217 9.645897865
                 0
28 03 2018 12:00
                 0
                       3.231734991 27.7116082 359.707489
28 03 2018 12:10
                       3.484349966 50.26679008 4.589081764
28 03 2018 12:20
                       3.675453901 74.11356266 357.8164978
28 03 2018 12:30
                       3.218399048 26.80462106 17.42617035
                       3.013626099 16.4508888 20.69813919
28 03 2018 12:40
                 0
28 03 2018 12:50
                 0
                       3.168891907 23.68649911 20.62260056
28 03 2018 13:00
                 0
                       3,168301105 23,65165634 1,25120604
28 03 2018 13:10 0
                       3.85581398 101.9794528 356.0372925
28 03 2018 13:20 0
                       3.330463886 35.31135477 7.862868786
28 03 2018 13:30
                 0
                       3.0680089
                                   18.54630162 6.485050201
28 03 2018 13:40
                       4.931337833 319.3090132 0
                 0
28 03 2018 13:50
                 0
                       5.511659145 472.3601224 27.25053024
28 03 2018 14:00
                 0
                       6.868731022 957.9745729 45.17678833
28 03 2018 14:10
                 313.1075134 5.879117966 584.9623355 31.98817062
                 338.8400879 5.470864773 460.65755
28 03 2018 14:20
                                                     45.41191864
28 03 2018 14:30
                 550.2623291 6.279565811 722.431353 42.77404022
28 03 2018 14:40 522.229126 6.107420921 660.8285234 53.78646088
28 03 2018 14:50 663.6663208 6.667238235 872.9775587 57.09431839
28 03 2018 15:00 619.7692871 6.482728004 799.2512954 63.04814148
28 03 2018 15:10 695.9697876 6.995688915 1014.049288 55.89159012
28 03 2018 15:20 818.9887695 6.966031075 1000.770229 62.48443985
28 03 2018 15:30 578.6154175 6.17383194 684.2179043 52.62398911
28 03 2018 15:40 515.8787842 5.941700935 605.4974843 43.64226913
28 03 2018 15:50 847.7523193 6.614851952 851.6541093 46.89313126
28 03 2018 16:00 853.6043701 6.610367775 849.8433986 49.55878067
                 1010.36499 6.975199223 1004.86335 54.43859863
28 03 2018 16:10
28 03 2018 16:20
                 1124.245972 7.2223382 1119.301923 51.49946976
28 03 2018 16:30 958.3209839 6.802435875 929.477765 44.57217026
28 03 2018 16:40 1224.073975 7.434595108 1224.294568 52.1424408
28 03 2018 16:50 969.8621216 6.996891022 1014.589866 55.1232605
28 03 2018 17:00 1042.328979 7.122569084 1072.132842 52.74010086
28 03 2018 17:10 1431.593018 7.600391865 1310.141441 54.22460175
28 03 2018 17:20 1799.347046 8.527911186 1845.233148 52.30484009
28 03 2018 17:30
                 1458.552002 7.970703125 1513.264446 57.7914505
28 03 2018 17:40
                 1781.234985 8.592623711 1885.411392 52.69028091
28 03 2018 17:50
                 1559.156006 8.030177116 1547.324995 50.47999954
                 2407.635986 9.341995239 2366.374866 39.61986923
28 03 2018 18:00
                 2831.221924 10.32071972 2975.924627 39.87878036
28 03 2018 18:10
                 2504.572998 9.64869976 2553.597943 44.28820038
28 03 2018 18:20
28 03 2018 18:30
                 2018.215942 8.674061775 1936.365157 40.60391998
28 03 2018 18:40
                 1919.81604 8.6774683 1938.50557 42.07247162
28 03 2018 18:50
                 2037.088989 8.759539604 1990.280064 44.49641037
28 03 2018 19:00
                 2267.040039 9.122253418 2223.082455 36.91682053
28 03 2018 19:10
                 2456.384033 9.681131363 2577.355417 42.83985138
28 03 2018 19:20
                 2370.270996 9.403029442 2406.359157 47.03686142
28 03 2018 19:30 2273.623047 9.116333961 2219.240856 45.60440826
28 03 2018 19:40 2289.74707 9.062962532 2184.657067 45.1794281
28 03 2018 19:50 2099.724121 8.707699776 1957.531384 40.57542038
28 03 2018 20:00 2539.248047 9.724539757 2608.584304 43.96654892
```

```
2182.429932 8.903130531 2081.740235 41.27095032
28 03 2018 20:10
                 2291.552002 9.348983765 2370.949991 46.8579483
28 03 2018 20:20
28 03 2018 20:30
                 2250.832031 9.318762779 2351.171925 50.53348923
28 03 2018 20:40 2033.737061 8.650276184 1921.439837 49.64757156
28 03 2018 20:50 2253.558105 9.289930344 2332.319255 52.36429977
28 03 2018 21:00 1935.967041 8.48177433 1816.766567 47.76805878
28 03 2018 21:10 2125.916992 8.555084229 1862.069338 36.80596924
28 03 2018 21:20 1718.665039 8.056070328 1562.267548 39.72546005
28 03 2018 21:30 1556.616943 7.877386093 1460.582041 37.13682938
                 1939.134033 8.641267776 1915.796282 37.58340073
28 03 2018 21:40
28 03 2018 21:50
                 2142.470947 9.070087433 2189.268169 41.16878128
28 03 2018 22:00 2574.593018 9.853143692 2697.357716 37.51720047
28 03 2018 22:10 2867.167969 10.58222961 3104.098346 42.09238815
28 03 2018 22:20 2644.090088 9.759034157 2632.940677 38.45352936
28 03 2018 22:30 2846.11792 10.0343504 2813.27583 38.08769989
28 03 2018 22:40 2779.809082 10.05926991 2828.407152 38.72502899
28 03 2018 22:50 2977.206055 10.26136017 2944.189948 37.44128036
28 03 2018 23:00 3113.003906 11.12543011 3314.952785 42.11658096
28 03 2018 23:10 2446.26001 9.654511452 2557.882204 41.5334816
28 03 2018 23:20 2595.543945 9.795295715 2658.111182 33.17649841
28 03 2018 23:30 2889.480957 10.13335991 2872.272471 35.93040848
28 03 2018 23:40
                 2710.829102 9.616941452 2529.977063 33.09263992
28 03 2018 23:50
                 2640.172119 9.5810709
                                         2502.868834 31.62883949
29 03 2018 00:00
                 2941.866943 10.47362995 3053.121476 32.13315964
29 03 2018 00:10 3052.604004 10.63183022 3126.35182 28.50695992
29 03 2018 00:20 2551.355957 9.76603508 2637.834754 27.88163948
29 03 2018 00:30 2866.97998 10.05350018 2824.920779 26.54516983
29 03 2018 00:40 3022.580078 10.5408802 3085.05708 27.23551941
29 03 2018 00:50 2974.092041 10.18297005 2900.719729 24.36721039
29 03 2018 01:00 3004.938965 10.78306007 3190.346256 25.06937981
29 03 2018 01:10 3236.758057 11.16022015 3326.125397 25.20480919
29 03 2018 01:20 3255.792969 11.37889004 3390.433612 25.29627037
29 03 2018 01:30 3140.845947 11.04986954 3289.76663 26.01766014
29 03 2018 01:40 2807.279053 10.3274498 2979.459307 25.2012291
29 03 2018 01:50 2937.062012 10.42455959 3029.050544 25.77861977
29 03 2018 02:00 3331.410889 10.70998955 3160.140958 22.36174011
                 3205.249023 10.76663017 3183.669493 23.72635078
29 03 2018 02:10
29 03 2018 02:20 3487.467041 11.38799
                                         3392.894342 22.96999931
29 03 2018 02:30 3534.530029 11.5299902 3429.143105 23.28903008
29 03 2018 02:40 3243.927979 11.2132597 3342.653091 25.52890015
29 03 2018 02:50 3385.589111 11.43595982 3405.589096 22.68535042
29 03 2018 03:00 3475.940918 11.07262039 3297.483849 21.15867996
29 03 2018 03:10 3561.068115 11.90054035 3505.629928 21.58898926
29 03 2018 03:20 3496.099121 11.47103024 3414.578338 20.80474091
29 03 2018 03:30 3596.336914 12.81951046 3595.359327 19.05677032
29 03 2018 03:40 3603.824951 13.90713024 3600 18.5837307
                 3598.35498 13.37034035 3600 18.48681068
29 03 2018 03:50
                 3568.562988 12.90517998 3597.164676 20.10548973
29 03 2018 04:00
                 3601.531982 13.5363903 3600 17.6922493
29 03 2018 04:10
29 03 2018 04:20
                 3586.375
                             13.07363033 3600 19.26542091
29 03 2018 04:30
                 3523.371094 12.66956997 3589.632204 20.06200027
29 03 2018 04:40
                 2989.249023 10.56075001 3094.263054 19.79150963
29 03 2018 04:50
                 3360.89209 11.66602993 3460.184963 20.85576057
29 03 2018 05:00
                 3352.7229
                             11.81665993 3490.517058 20.07747078
29 03 2018 05:10
                 3570.621094 12.51049042 3579.907771 19.26415062
29 03 2018 05:20
                 3520.266113 12.35112953 3566.29213 19.87084961
29 03 2018 05:30 3440.156006 12.18610001 3547.969004 21.3535099
29 03 2018 05:40 3225.667969 11.7227602 3472.097962 23.26613998
29 03 2018 05:50 2975.332031 11.33796978 3379.159332 22.92779922
```

```
29 03 2018 06:00 2809.02002 10.56764984 3097.435578 21.60784912
                 2753.059082 10.18192005 2900.125228 18.97891998
29 03 2018 06:10
29 03 2018 06:20
                 3329.344971 11.75471973 3478.547409 17.84898949
29 03 2018 06:30
                 3002.601074 10.95370007 3255.848847 18.06287956
29 03 2018 06:40
                 3275.931885 12.05897999 3530.825062 16.3522892
29 03 2018 06:50
                  3174.774902 11.38599968 3392.357576 16.48028946
                 2711.218994 10.22465992 2924.061804 18.54894066
29 03 2018 07:00
                 2792.905029 10.61483002 3118.796231 17.49032021
29 03 2018 07:10
29 03 2018 07:20
                 2533.207031 9.653515816 2557.149079 16.14705086
29 03 2018 07:30
                 2543.85791 9.690437317 2584.104977 16.48628998
29 03 2018 07:40
                 2439.469971 9.738975525 2618.826576 18.32951927
29 03 2018 07:50
                 2281.25708 8.818784714 2027.888621 14.92901039
29 03 2018 08:00
                 1923.640015 8.209223747 1651.989418 10.18216991
29 03 2018 08:10
                 1869.703003 8.273358345 1690.205984 9.24268055
29 03 2018 08:20
                 2215.508057 8.819712639 2028.47914 9.354195595
29 03 2018 08:30
                 2944.386963 10.62884045 3125.028429 9.842271805
29 03 2018 08:40
                 2710.049072 10.10472012 2855.513902 10.66629028
29 03 2018 08:50
                 2566.256104 9.76999855 2640.598131 9.319295883
29 03 2018 09:00
                 2238.062988 8.94431591 2108.157354 8.597492218
                 2464.388916 9.522047043 2457.26008 7.178713799
29 03 2018 09:10
29 03 2018 09:20
                  2867.499023 10.21111965 2916.536608 5.592999935
                  2512.553955 9.409682274 2410.720974 6.030840874
29 03 2018 09:30
29 03 2018 09:40
                  2866.749023 10.39299011 3013.216299 5.743851185
29 03 2018 09:50
                 2975.6521
                             10.58220959 3104.089232 8.997444153
29 03 2018 10:00
                 3124.010986 10.66744041 3141.938574 8.320332527
29 03 2018 10:10
                 3127.695068 10.52544975 3077.83603 7.220796108
29 03 2018 10:20
                 3207.012939 11.07522964 3298.361514 9.470549583
29 03 2018 10:30 3125.98291 10.97974968 3265.245304 9.827317238
29 03 2018 10:40 2663.215088 9.756270409 2631.004086 6.563476086
29 03 2018 10:50
                 3035.935059 10.79782009 3196.288099 3.902323961
29 03 2018 11:00
                 2923.564941 10.2381897 2931.527697 5.391111851
29 03 2018 11:10
                 3096.085938 10.74300003 3173.950237 8.089661598
29 03 2018 11:20
                 2539.521973 9.373304367 2386.878365 1.904364944
29 03 2018 11:30
                 2594.659912 9.793312073 2656.745672 6.645163059
                 3050.280029 10.71335983 3161.563305 8.478798866
29 03 2018 11:40
                              10.14935017 2881.521776 4.897108078
29 03 2018 11:50
                  2836.625
29 03 2018 12:00
                 2689.233887 9.915073395 2738.15635 5.892158031
                 2512.261963 9.471619606 2451.355907 6.011797905
29 03 2018 12:10
29 03 2018 12:20
                 2402.941895 9.16658783 2251.889462 3.624142885
29 03 2018 12:30
                 1830.677002 8.116462708 1597.378719 3.351197004
29 03 2018 12:40
                 1968.494995 8.611495972 1897.18155 9.131952286
                 1849.723999 8.468440056 1808.568013 6.105482101
29 03 2018 12:50
29 03 2018 13:00
                 1698.503052 7.987569809 1522.886479 3.991173983
29 03 2018 13:10
                 1656.551025 7.938095093 1494.748031 7.451435089
29 03 2018 13:20
                 1714.385986 8.328205109 1723.171015 11.36682987
29 03 2018 13:30
                 1473.53894 7.708558083 1367.780386 11.04786968
29 03 2018 13:40
                 1495.886963 7.869809151 1456.346509 10.49571037
                 1500.744995 7.864153862 1453.189388 10.27682972
29 03 2018 13:50
29 03 2018 14:00
                 1566.834961 8.208692551 1651.674421 12.54051018
                 1332.982056 7.671925068 1348.09486 8.789045334
29 03 2018 14:10
29 03 2018 14:20
                  1184.82605 7.426854134 1220.349863 8.336096764
29 03 2018 14:30
                 1181.790039 7.498335838 1257.122076 10.10709953
29 03 2018 14:40
                 995.5969849 7.098374844 1060.895247 12.71967983
29 03 2018 14:50
                 996.1182861 7.173787117 1096.179554 9.952815056
29 03 2018 15:00
                 882.4285889 6.768891811 915.2592635 4.384346962
29 03 2018 15:10
                 878.6234741 6.848797798 949.3506078 7.243832111
29 03 2018 15:20
                 645.2213135 6.234964848 706.1656852 14.16269016
29 03 2018 15:30 507.2452087 5.798560143 559.1284453 9.302967072
29 03 2018 15:40 322.6021118 5.139360905 370.9884145 12.92220974
```

```
29 03 2018 15:50 260.500885 4.911942005 314.6576985 20.26264
29 03 2018 16:00 187.9499054 4.404201984 201.9931304 13.73989964
29 03 2018 16:10
                 216.6524963 4.592017174 241.7347992 11.61668968
29 03 2018 16:20 138.5977936 4.145866871 150.5671691 11.19468021
29 03 2018 16:30 134.7496948 4.073933125 136.8492773 8.166430473
29 03 2018 16:40 97.35381317 3.952023029 118.9725648 23.66547012
29 03 2018 16:50 81.07906342 3.66624403 72.83029756 37.14559174
                 23.57584953 3.028526068 16.97793309 41.02622986
29 03 2018 17:00
29 03 2018 17:10
                 3.240067005 2.555188894 0
                                               34.20238113
29 03 2018 17:20
                 17.52486992 3.072432995 18.73757893 38.93297958
29 03 2018 17:30
                 180.4783936 4.315367222 183.9083033 30.23567009
29 03 2018 17:40
                 9.971087456 2.998630047 0
                                               32.71744156
29 03 2018 17:50 0
                       2.495404959 0
                                         53.83129883
29 03 2018 18:00 0
                       3.604604959 64.59113127 46.78824997
29 03 2018 18:10
                 140.6215973 4.155446053 152.4126769 29.10994911
29 03 2018 18:20
                 29.8223896 2.7355721 0
                                               56.00067902
29 03 2018 18:30
                 181.0792999 4.43727684 208.8400384 25.30348015
29 03 2018 18:40 284.2309875 5.272153854 405.7809129 11.52571011
29 03 2018 18:50 450.2980042 5.784742832 554.7640857 6.709853172
29 03 2018 19:00 615.2266846 6.245728016 710.0713578 0.626226127
29 03 2018 19:10
                 602.8756714 6.19824791 692.9356217 1.464048982
29 03 2018 19:20 484.3564148 5.892850876 589.4332686 359.3330078
29 03 2018 19:30
                 345.8353882 5.431889057 449.6182938 358.0618896
29 03 2018 19:40
                 343.9281006 5.493644238 467.1734087 356.6585999
29 03 2018 19:50
                 346.2625122 5.520839214 475.0146963 356.4421997
29 03 2018 20:00 315.6731873 5.299109936 413.0235182 358.9065857
29 03 2018 20:10 220.2615967 4.83534193 296.5550567 5.583542824
29 03 2018 20:20 242.4127045 4.707859993 267.3407252 0.686724484
29 03 2018 20:30 272.265686 5.046885967 347.6020122 6.811303139
                 201.3123932 4.76635313 280.6067876 15.59963989
29 03 2018 20:40
29 03 2018 20:50
                 144.6360016 4.518270969 225.8770942 17.47307014
29 03 2018 21:00
                 89.66654968 3.903594971 110.2337487 20.44276047
29 03 2018 21:10
                 60.3773613 3.721894026 80.79108758 21.99184036
29 03 2018 21:20
                 10.85805988 3.192997932 25.15578999 19.66341972
29 03 2018 21:30
                 0
                       2.63835001 0
                                         16.62475014
29 03 2018 21:40
                 0
                       3.065016985 18.41872018 5.152713776
29 03 2018 21:50
                 0
                       2.660137892 0
                                         7.273464203
29 03 2018 22:00
                 0
                       2.035298109 0
                                         31.68876076
29 03 2018 22:10
                 0
                       1.678588033 0
                                         14.59531975
29 03 2018 22:20 0
                       1.360432029 0
                                         21.95207024
29 03 2018 22:30 0
                       2.150662899 0
                                         327.7385864
29 03 2018 22:40 0
                       1.840610027 0
                                         324.770813
29 03 2018 22:50 0
                       2.459547997 0
                                         324.0267029
29 03 2018 23:00 0
                       3.086976051 19.38842032 320.302887
29 03 2018 23:10 0
                       3.166398048 23.53980239 323.9032898
29 03 2018 23:20 0
                       2.744128942 0
                                         331.6163025
                       3.064642906 18.40286942 334.9468994
29 03 2018 23:30
                 0
29 03 2018 23:40
                       3.518686056 54.12077178 324.7257996
                 0
29 03 2018 23:50
                 0
                       3.023586988 16.79929131 315.7561951
30 03 2018 00:00
                 0
                       3.432178974 44.77202043 315.7970886
30 03 2018 00:10
                 13.83485985 3.455082893 47.13068778 318.7655029
30 03 2018 00:20
                 0.438800901 3.106661081 20.3232815 321.5235901
30 03 2018 00:30
                       2.48239994 0
                                         303.1913147
30 03 2018 00:40
                       2.100831032 0
                                         303.953186
                 0
30 03 2018 00:50
                       2.529134035 0
                                         340.2879028
                 0
30 03 2018 01:00
                 0
                       2.649169922 0
                                         339.3158875
30 03 2018 01:10
                 0
                       2.414738894 0
                                         334.031189
30 03 2018 01:20 0
                      1.939116001 0
                                         322.8908081
30 03 2018 01:30 0
                    2.283519983 0
                                         323.6683044
```

```
30 03 2018 01:40
                         1.813315034 0
                                            299.6661987
                   0
30 03 2018 01:50
                   0
                         1.22635901
                                     0
                                            312.229187
30 03 2018 02:00
                         1.632583022 0
                                            335.9858093
                   0
30 03 2018 02:10
                   0
                         1.782610059 0
                                            345.5931091
30 03 2018 02:20
                   0
                         1.875808954 0
                                            356.0887146
30 03 2018 02:30
                         1.470739007 0
                                            347.6513977
30 03 2018 02:40
                   0
                         0.727058113 0
                                            318.8179932
                         0.508805692 0
30 03 2018 02:50
                   0
                                            319.2532043
30 03 2018 03:00
                   0
                         0.598290324 0
                                            337.5169067
30 03 2018 03:10
                   0
                         0.78157711
                                     0
                                            332.1722107
30 03 2018 03:20
                   0
                         1.092396975 0
                                            300.3817139
30 03 2018 03:30
                         1.465718985 0
                                            293.6021118
30 03 2018 03:40
                         2.480353117 0
                                            288.331604
30 03 2018 03:50
                   0
                         2.9139781
                                     0
                                            289.2775879
30 03 2018 04:00
                         3.05033803 17.81353034 292.5299988
                   0
30 03 2018 04:10
                   0
                         3.133019924 21.67218159 291.7268982
30 03 2018 04:20
                   0
                         3.244987965 28.64114309 301.1029053
30 03 2018 04:30
                   23.49374962 3.70715189 78.63396409 321.6806946
                   19.33567047 3.179980993 24.35084442 328.946991
30 03 2018 04:40
30 03 2018 04:50
                   0
                         2.002324104 0
                                            331.0602112
30 03 2018 05:00
                         2.071553946 0
                   0
                                            339.6339111
30 03 2018 05:10
                   0
                         2.139892101 0
                                            344.6181946
30 03 2018 05:20
                   0
                         2.117172956 0
                                            347.9786072
                                            6.550354004
30 03 2018 05:30
                   0
                         1.660356045 0
30 03 2018 05:40
                         1.438215971 0
                                            358.5510864
30 03 2018 05:50
                         1.513437986 0
                                            10.59873009
30 03 2018 06:00
                         1.338068962 0
                                            29.54379082
30 03 2018 06:10
                                            22.57685089
                         2.446875095 0
                   0
30 03 2018 06:20
                   0
                         2.066612959 0
                                            14.05461979
30 03 2018 06:30
                   0
                         1.879856944 0
                                            24.01357079
30 03 2018 06:40
                   0
                         2.167254925 0
                                            36.49876022
30 03 2018 06:50
                   0
                         1.373361945 0
                                            352.5741882
30 03 2018 07:00
                                            24.92674065
                         2.470916986 0
30 03 2018 07:10
                         1.017048001 0
                                            45.33897018
                   0
30 03 2018 07:20
                                            37.51263046
                   0
                         1.83888495
                                     0
30 03 2018 07:30
                   0
                         2.151432037 0
                                            19.6584301
30 03 2018 07:40
                   0
                         1.753726006 0
                                            5.419536114
                         2.222640038 0
30 03 2018 07:50
                                            1.877851963
30 03 2018 08:00
                         1.989496946 0
                                            8.655611992
30 03 2018 08:10
                         1.644423008 0
                                            11,47237968
30 03 2018 08:20
                         1.765596986 0
                                            24.87706947
                   0
30 03 2018 08:30
                   0
                         1.952839017 0
                                            7.597394943
30 03 2018 08:40
                         2.258788109 0
                                            357.9053955
                   0
30 03 2018 08:50
                   0
                         1.822659016 0
                                            9.95419693
30 03 2018 09:00
                   0
                         2.450798988 0
                                            2.635134935
30 03 2018 09:10
                   0
                         2.023478985 0
                                            351.5694885
30 03 2018 09:20
                   0
                         1.869526982 0
                                            15.09838009
                                            343.1221008
30 03 2018 09:30
                   0
                         1.705167055 0
30 03 2018 09:40
                   0
                         1.981098056 0
                                            356.2643127
30 03 2018 09:50
                   0
                         1.889986992 0
                                            6.7721138
30 03 2018 10:00
                   0
                         1.416898012 0
                                            346.1895142
30 03 2018 10:10
                         1.305776
                                      0
                                            0.921864271
30 03 2018 10:20
                         2.076486111 0
                                            350.0993958
30 03 2018 10:30
                         2.2964499
                                            19.9790802
                   0
                                     0
30 03 2018 10:40
                         1.510108948 0
                                            359.8981934
                   0
30 03 2018 10:50
                   0
                         1.534631014 0
                                            335.244812
30 03 2018 11:00
                   0
                         1.369464993 0
                                            353.4393921
30 03 2018 11:10
                   0
                         1.345602036 0
                                            338.3601074
30 03 2018 11:20
                         1.196019053 0
                                            349.2163086
```

```
30 03 2018 11:30
                        1.317253947 0
                                          3.355711937
                  0
30 03 2018 11:40
                  0
                        1.114338994 0
                                          340.9742126
30 03 2018 11:50
                                          349.5172119
                  0
                        1.460124969 0
30 03 2018 12:00
                  0
                        0.731739521 0
                                          353.9291077
30 03 2018 12:10
                  0
                        1.02204597 0
                                          331.7677002
30 03 2018 12:20
                        0.704655707 0
                                          9.194094658
30 03 2018 12:30
                  0
                        0.915292382 0
                                          313.9460144
                        0.98245281 0
30 03 2018 12:40
                  0
                                          313.2698975
30 03 2018 12:50
                  0
                        1.041944981 0
                                          295.5299988
30 03 2018 13:00
                  0
                        1.297361016 0
                                          245.0140991
30 03 2018 13:10
                                          259.2514954
                  0
                        1.01472199 0
30 03 2018 13:20
                        0.875616491 0
                                          276.4569092
30 03 2018 13:30
                        3.066618919 18.48685185 248.2201996
30 03 2018 13:40
                        1.717002988 0
                                          260.0058899
30 03 2018 13:50
                        2.770303011 0
                                          233.0426941
                  0
30 03 2018 14:00
                  0
                        2.339760065 0
                                          231.5482025
30 03 2018 14:10
                  0
                        2.602950096 0
                                          226.5532074
30 03 2018 14:20
                  0
                        2.247138977 0
                                          235.3804932
                  0
30 03 2018 14:30
                        2.913439035 0
                                          222.4891052
30 03 2018 14:40
                  0
                        2.959666014 0
                                          217.1011047
                        3.522049904 54.50848509 206.5299072
30 03 2018 14:50
                  0
30 03 2018 15:00
                  0
                        2.650222063 0
                                          214.5372009
30 03 2018 15:10
                  0
                        2.583867073 0
                                          216.5581055
                                          198.6432037
30 03 2018 15:20
                  0
                        2.493521929 0
30 03 2018 15:30
                        2.079171896 0
                                          221.656601
30 03 2018 15:40
                        2.745779991 0
                                          230.0005951
30 03 2018 15:50
                        2.841130018 0
                                          228.6819
                  0
30 03 2018 16:00
                        2.517993927 0
                                          204.2276001
                  0
30 03 2018 16:10
                  0
                        2.546346903 0
                                          209.8170013
30 03 2018 16:20
                 0
                        2.395865917 0
                                          222.256897
30 03 2018 16:30
                 0
                        2.56475997 0
                                          200.9739075
30 03 2018 16:40
                 0
                        2.386985064 0
                                          226.553299
30 03 2018 16:50
                        3.389774084 40.62667762 236.8728027
30 03 2018 17:00
                  19.71678925 3.469795942 48.69012835 238.2120056
                  100.7762985 3.846637964 100.4360823 224.977005
30 03 2018 17:10
                              4.592700958 241.8834159 223.8833008
30 03 2018 17:20
                  238.3237
                  328.9424133 5.145494938 372.5637335 215.9593964
30 03 2018 17:30
                  335.5950012 5.33274889 422.1489764 215.7341003
30 03 2018 17:40
30 03 2018 17:50
                 246.0769043 4.733051777 273.0258112 222.5778961
30 03 2018 18:00
                 212.7225037 4.542134762 230.9718647 230.5937042
30 03 2018 18:10
                 153.3276978 4.219741821 164.9174798 237.5778046
30 03 2018 18:20 100.0548019 3.922048092 113.5193536 242.1268005
30 03 2018 18:30
                  190.7525024 4.497378826 221.4450921 242.3825989
30 03 2018 18:40
                  192.9873047 4.55202198 233.0929355 240.0292053
30 03 2018 18:50
                  131.7001038 4.220781803 165.1214553 233.4570007
                  123.1768036 4.103345871 142.4286697 231.4490051
30 03 2018 19:00
                  262.9585876 4.979682922 331.0240099 238.716507
30 03 2018 19:10
                  190.004303 4.517294884 225.6694434 229.5760956
30 03 2018 19:20
30 03 2018 19:30
                 165.8072052 4.286719799 178.1684164 233.7646027
30 03 2018 19:40
                  329.160614 5.166461945 377.9713611 230.7144012
30 03 2018 19:50
                  422.3414001 5.681567192 522.7793651 229.5821075
30 03 2018 20:00
                  352.9613953 5.46522522 459.0517197 229.683197
30 03 2018 20:10
                  340.5133972 5.593169212 496.2053094 226.361496
30 03 2018 20:20
                 533.3933105 6.138639927 671.7648522 230.9721985
30 03 2018 20:30
                 431.1982117 5.822597027 566.7670298 231.9380035
30 03 2018 20:40
                 255.8979034 4.977889061 330.5861971 231.9488983
30 03 2018 20:50
                 146.8874969 4.411052227 203.4060638 228.2030945
30 03 2018 21:00 141.2039948 4.436480999 208.6745491 227.5868073
30 03 2018 21:10 114.1564026 4.20759201 162.5385707 232.6228027
```

```
30 03 2018 21:20 88.71183777 4.092494011 140.3654266 236.7626038
                 144.1667023 4.482769012 218.3613624 234.283493
30 03 2018 21:30
30 03 2018 21:40
                 197.0612946 4.887335777 308.7964663 223.2890015
30 03 2018 21:50
                 292.1765137 5.28415823 408.9986292 215.8464966
30 03 2018 22:00
                 377.269104 5.628577232 506.7592636 209.1078949
30 03 2018 22:10
                 369.7257996 5.613460064 502.2386792 211.8869019
30 03 2018 22:20
                 536.8756714 6.289689064 726.153055 212.4499969
30 03 2018 22:30
                641.7280884 6.584630966 839.4949462 214.0502014
                 724.3029785 6.690755844 882.6526527 211.4210968
30 03 2018 22:40
30 03 2018 22:50
                 853.9249268 6.862053871 955.0803832 210.1013947
30 03 2018 23:00
                 918.6740112 7.068834782 1047.279007 208.133606
30 03 2018 23:10
                 1078.640991 7.624705791 1322.968489 203.5520935
30 03 2018 23:20
                 1090.150024 7.838544846 1438.938186 198.0991974
30 03 2018 23:30 921.796875 7.039322853 1033.789144 196.1024933
30 03 2018 23:40 990.2197876 7.153292179 1086.515011 196.4595947
30 03 2018 23:50 964.5178223 7.168924809 1093.881567 197.9904938
31 03 2018 00:00
                 760.2581787 6.757256031 910.3582541 201.0462036
31 03 2018 00:10
                 808.1953735 6.899158955 971.2323014 200.3242035
31 03 2018 00:20
                 770.3040771 6.823071957 938.2914731 199.5883942
                 751.4165039 6.780641079 920.2243007 199.2218933
31 03 2018 00:30
31 03 2018 00:40
                 761.1342163 6.792084217 925.075698 199.1851959
                 802.7340698 6.860074997 954.2236867 199.1562042
31 03 2018 00:50
31 03 2018 01:00
                 811.328186 6.940123081 989.2605348 198.8925934
31 03 2018 01:10 684.0410767 6.616084099 852.1520504 201.0980988
31 03 2018 01:20 882.265686 7.072080135 1048.76935 199.8592072
31 03 2018 01:30 912.7061768 7.16650486 1092.739061 196.339798
31 03 2018 01:40 1032.712036 7.383048058 1198.195491 197.4588013
31 03 2018 01:50 1261.739014 7.962337017 1508.502941 198.3408051
31 03 2018 02:00 1364.426025 8.298944473 1705.552499 199.3959961
                 1390.911987 8.24742794 1674.710758 199.3883057
31 03 2018 02:10
31 03 2018 02:20
                 1244.264038 8.044419289 1555.535524 196.6604004
31 03 2018 02:30
                 1263.064941 7.886870861 1465.8931
                                                     197.8560944
31 03 2018 02:40
                 1468.328979 8.302186966 1707.50133 199.4123993
31 03 2018 02:50
                 1711.937988 8.871398926 2061.44017 201.2467957
                 2020.541992 9.554269791 2482.314805 202.1824951
31 03 2018 03:00
31 03 2018 03:10
                 2407.989014 10.41314983 3023.359433 204.2057037
                 2702.184082 10.82476997 3207.000467 202.8323975
31 03 2018 03:20
                 2572.281006 10.35816002 2995.42644 201.9618988
31 03 2018 03:30
31 03 2018 03:40 2522.512939 10.29891968 2964.386889 200.5814056
31 03 2018 03:50 2327.459961 10.07771969 2839.486825 197.146698
31 03 2018 04:00 2207.163086 10.24748993 2936.628797 192.832901
31 03 2018 04:10 2397.408936 10.56095982 3094.359707 193.3973999
31 03 2018 04:20 2987.843018 11.4837904 3417.788438 195.4178009
31 03 2018 04:30 3182.490967 11.58660984 3442.492481 195.652298
31 03 2018 04:40
                 3137.820068 11.46284008 3412.500937 195.4674988
31 03 2018 04:50
                 2744.221924 10.85369015 3218.301012 193.4963989
                 2414.149902 10.27334023 2950.675996 189.4452057
31 03 2018 05:00
                 2426.618896 10.19382
31 03 2018 05:10
                                         2906.843824 189.2059021
31 03 2018 05:20 2359.297119 10.11192036 2859.750443 191.4389954
31 03 2018 05:30
                 2324.204102 9.888581276 2720.856166 189.5028076
31 03 2018 05:40
                 1908.69397 8.873862267 2063.014362 187.5045929
31 03 2018 05:50
                 1835.774048 8.760409355 1990.830805 188.8043976
31 03 2018 06:00
                 1920.071045 9.050488472 2176.588501 189.6026001
31 03 2018 06:10
                 1991.234985 9.096231461 2206.203362 188.4411926
31 03 2018 06:20
                 1783.081055 8.868292809 2059.455631 185.6687012
31 03 2018 06:30 1490.204956 8.189791679 1640.483021 186.2639008
31 03 2018 06:40 1526.057983 8.168293953 1627.793906 188.179306
31 03 2018 06:50 1836.844971 8.929388046 2098.573553 183.6764984
31 03 2018 07:00 1452.166992 7.923045158 1486.240535 181.063797
```

```
31 03 2018 07:10 1203.140991 7.418980122 1216.346594 180.2763062
                 831.9611206 6.480288029 798.3018702 184.4651947
31 03 2018 07:20
31 03 2018 07:30
                 1300.73999 7.767656803 1399.88394 190.0326996
31 03 2018 07:40 853.145813 6.824381828 938.8526428 189.5207062
31 03 2018 07:50
                 1069.332031 7.246234894 1130.801733 188.7066956
31 03 2018 08:00
                 1015.047974 7.115139961 1068.673973 186.2640076
31 03 2018 08:10 687.8513794 6.14478302 673.9291055 178.696701
31 03 2018 08:20 660.6812744 5.955020905 609.9215111 182.7799988
31 03 2018 08:30
                 794.4290161 6.513380051 811.2346089 186.7525024
31 03 2018 08:40
                 828.8939209 6.593204021 842.9337412 189.8430023
31 03 2018 08:50
                 493.8353882 5.329301834 421.2093827 194.7015076
31 03 2018 09:00
                 508.4198914 5.679918766 522.276893 191.2590942
31 03 2018 09:10
                 411.3228149 5.329100132 421.1544349 194.3074036
31 03 2018 09:20
                 692.3328247 6.428103924 778.1536042 193.8843994
31 03 2018 09:30
                 710.6436157 6.313213825 734.8443793 188.3182068
31 03 2018 09:40
                 233.0850067 4.411117077 203.4194526 190.4414063
31 03 2018 09:50
                 460.3727112 5.135286808 369.9437941 190.4463043
31 03 2018 10:00 579.9802856 5.950806141 608.5195998 194.9033966
31 03 2018 10:10 395.9525146 4.810780048 290.8389934 199.201004
                 227.2503052 4.269177914 174.6752602 203.5711975
31 03 2018 10:20
31 03 2018 10:30
                 307.9454041 4.683588028 261.9032337 193.0559998
31 03 2018 10:40 800.3165283 6.489334106 801.8251197 189.2247925
31 03 2018 10:50
                 861.2432251 6.604061127 847.3006355 190.8605042
31 03 2018 11:00
                 531.7783813 5.848374844 575.0245693 199.8860016
31 03 2018 11:10 484.0210876 5.432376862 449.7556096 198.5966949
31 03 2018 11:20 394.5112
                             5.126161098 367.6087479 197.8141937
31 03 2018 11:30 305.6253052 4.654946804 255.5368074 198.1688995
31 03 2018 11:40 300.0903931 4.786109924 285.1402162 205.2297058
31 03 2018 11:50 274.9815063 4.676170826 260.2493688 206.3426971
31 03 2018 12:00 408.5864868 5.404882908 442.0493704 214.2554016
31 03 2018 12:10 380.6015015 5.303198814 414.1275409 216.7841034
                 285.4855957 4.739386082 274.4620034 212.1351929
31 03 2018 12:20
31 03 2018 12:30
                 552.2770996 6.014316082 628.8313848 208.4378967
                 653.0197144 6.333121777 742.246189 202.6091003
31 03 2018 12:40
                 441.0975952 5.689826012 525.3008172 199.9431
31 03 2018 12:50
31 03 2018 13:00
                 776.1773071 6.650312901 866.0538995 197.0924988
31 03 2018 13:10
                 828.7224121 6.582005978 838.4436792 193.7783966
                 1124.503052 7.200276852 1108.7553
31 03 2018 13:20
                                                     195.9044037
31 03 2018 13:30 1256.267944 7.550014019 1283.808948 196.3885956
31 03 2018 13:40
                 1094.588989 7.127019882 1074.208564 195.0661011
31 03 2018 13:50 1302.081055 7.514624119 1265.51171 197.3426971
31 03 2018 14:00 1445.064941 7.758684158 1394.98277 193.8287964
31 03 2018 14:10 1378.762939 7.718615055 1373.213643 198.8786926
31 03 2018 14:20
                 1241.291992 7.352645874 1182.986541 199.7117004
31 03 2018 14:30 882.6624756 6.650688171 866.2070556 205.3589935
31 03 2018 14:40
                 1186.286987 7.508686066 1262.458122 204.5975037
31 03 2018 14:50
                 1920.129028 8.923490524 2094.790022 202.9270935
                 1974.83606 8.969514847 2124.357176 198.0731964
31 03 2018 15:00
31 03 2018 15:10
                 2206.687988 9.379283905 2390.796059 204.3509979
31 03 2018 15:20
                 1961.922974 8.846028328 2045.244354 203.1425018
31 03 2018 15:30
                 2669.600098 10.32349968 2977.386233 201.6343994
31 03 2018 15:40
                 2595.903076 10.1028204 2854.393509 196.5034943
31 03 2018 15:50
                 3076.167969 11.46718979 3413.60588 197.2434998
31 03 2018 16:00
                 3278.025879 11.80370045 3488.070107 193.0173035
31 03 2018 16:10
                 3551.282959 12.71401978 3591.674063 194.2669983
31 03 2018 16:20
                 3514.125
                             12.52783012 3581.153241 195.6497955
31 03 2018 16:30
                 3603.9021
                             13.72303963 3600 196.3213043
31 03 2018 16:40 3603.989014 14.82343006 3600 201.4367065
31 03 2018 16:50 3603.827881 15.77029991 3600 198.280899
```

```
31 03 2018 17:00
                 3603.967041 17.12220001 3600
                                               196.0518036
31 03 2018 17:10
                 3603.940918 17.3254509 3600
                                               200.3455963
31 03 2018 17:20
                 3604.195068 17.37236023 3600
                                               199.3298035
31 03 2018 17:30
                 3603.783936 17.8506794 3600 201.4479065
                 3604.063965 17.55063057 3600 200.6428986
31 03 2018 17:40
31 03 2018 17:50
                  3604.218994 17.42453003 3600
                                               199.8605042
31 03 2018 18:00
                  3604.195068 16.62672043 3600
                                               195.8350067
                 3604.290039 16.69852066 3600
31 03 2018 18:10
                                               192.4515991
31 03 2018 18:20
                 3604.295898 16.36997032 3600
                                               193.6428986
                  3603.951904 15.7826004 3600
                                               190.8695984
31 03 2018 18:30
31 03 2018 18:40
                 3604.343994 16.21888924 3600
                                               188.3148956
31 03 2018 18:50
                 3604.209961 15.24518013 3600
                                               191.7666931
31 03 2018 19:00
                 3604.193115 14.17175007 3600
                                               186.6759033
31 03 2018 19:10
                 3604.356934 14.77779007 3600
                                               184.204895
31 03 2018 19:20
                 3604.243896 15.91664982 3600
                                               183.0677032
31 03 2018 19:30
                 3604.01001 16.98665047 3600
                                               186.4477997
31 03 2018 19:40
                 3603.957031 17.06364059 3600
                                               189.9091949
31 03 2018 19:50
                 3603.656982 17.53030014 3600 193.3421021
                 3603.785889 17.23530006 3600 193.8121033
31 03 2018 20:00
                 3603.918945 17.1035099 3600
31 03 2018 20:10
                                               193.6636963
31 03 2018 20:20
                 3603.975098 17.05695915 3600
                                               189.9721069
31 03 2018 20:30
                 3604.104004 17.15073967 3600
                                               187.9889069
31 03 2018 20:40
                  3603.925049 17.27808952 3600
                                               186.4582977
31 03 2018 20:50
                  3603.771973 17.52639961 3600
                                               184.8677063
                 3604.145996 17.18153954 3600
31 03 2018 21:00
                                               185.0762024
31 03 2018 21:10
                  3603.835938 17.07695007 3600
                                               190.6712952
31 03 2018 21:20
                 3603.954102 16.43461037 3600
                                               192.7655945
31 03 2018 21:30
                 3604.077881 15.93124962 3600
                                               191.5220032
31 03 2018 21:40
                 3604.123047 16.40045929 3600
                                               185.1549988
31 03 2018 21:50
                 3604.221924 17.53976059 3600
                                               186.6690979
31 03 2018 22:00
                 3603.937012 17.71488953 3600 188.9382019
31 03 2018 22:10
                 3603.895996 17.54556084 3600 189.9313965
31 03 2018 22:20
                  3603.820068 17.24008942 3600
                                               193.5225983
31 03 2018 22:30
                 3603.851074 16.81826973 3600
                                               191.6972961
                 3603.967041 16.21797943 3600
31 03 2018 22:40
                                               194.0023956
31 03 2018 22:50
                  3603.936035 16.20948982 3600
                                               192.1062012
31 03 2018 23:00
                  3603.925049 16.22730064 3600
                                               191.4140015
31 03 2018 23:10
                  3603.850098 17.36488914 3600
                                               192.254303
31 03 2018 23:20
                 3603.822998 17.38570023 3600
                                               190.6932068
                 3603.862061 17.74193001 3600
31 03 2018 23:30
                                               190.9217987
31 03 2018 23:40
                 3603.931885 17.91286087 3600
                                               192.203598
                            18.0866394 3600
31 03 2018 23:50
                 3603.5979
                                               194.6022034
01 04 2018 00:00
                 3603.643066 18.16398048 3600
                                               194.8722992
01 04 2018 00:10
                 3603.221924 18.1613102 3600
                                               195.5010986
01 04 2018 00:20
                 3603.36499 17.77362061 3600 193.3742981
01 04 2018 00:30
                  3603.1521
                             18.80536079 3600
                                              190.1163025
01 04 2018 00:40
                 3603.032959 18.95602036 3600
                                               190.5637054
                 3603.011963 19.94508934 3600
01 04 2018 00:50
                                               192.0639038
01 04 2018 01:00
                 3602.926025 20.34058952 3600
                                               192.8303986
01 04 2018 01:10
                  3603.052979 19.46917915 3600
                                               191.5708008
01 04 2018 01:20
                  3603.001953 19.60198021 3600
                                               187.8847046
01 04 2018 01:30
                  3602.820068 19.89141083 3600
                                               189.6233978
01 04 2018 01:40
                  3602.663086 20.0134697 3600
                                               187.6006012
01 04 2018 01:50
                 3602.856934 19.72508049 3600
                                               187.6195984
01 04 2018 02:00
                 3602.837891 21.14281082 3600
                                               191.489502
01 04 2018 02:10
                 3603.096924 20.99861908 3600
                                               194.002594
01 04 2018 02:20
                 3603.343994 19.6033802 3600 192.4167023
01 04 2018 02:30
                 3603.433105 19.57526016 3600 193.142395
01 04 2018 02:40 3603.23999 18.64736938 3600
                                              192.0003967
```

```
01 04 2018 02:50
                 3603.185059 18.97927094 3600
                                                189.3757935
01 04 2018 03:00
                 3603.144043 19.68338013 3600
                                                188.763504
                  3603.10791 20.05908012 3600
01 04 2018 03:10
                                                189.0997009
01 04 2018 03:20
                 3603.461914 18.97838974 3600
                                                187.7185974
01 04 2018 03:30
                  3603.48999 19.61129951 3600
                                                185.7480927
01 04 2018 03:40
                  3603.530029 19.34892082 3600
                                                185.0126953
01 04 2018 03:50
                  3603.136963 19.14031029 3600
                                                184.0561981
                  3603.062012 17.96380997 3600
01 04 2018 04:00
                                                184.375
01 04 2018 04:10
                  3602.954102 19.45856094 3600
                                                186.565094
                  3602.441895 20.59454918 3600
                                                183,4360962
01 04 2018 04:20
01 04 2018 04:30
                  3602.407959 20.70096016 3600
                                                183.6987
01 04 2018 04:40
                  3602.547119 20.84717941 3600
                                                185.6849976
01 04 2018 04:50
                  3602.274902 21.32930946 3600
                                                186.1351013
01 04 2018 05:00
                  3602.092041 18.19580078 3600
                                                184.4904022
01 04 2018 05:10
                  3601.961914 17.69643974 3600
                                                183.6280975
01 04 2018 05:20
                  3601.823975 19.18948936 3600
                                                181.8220978
01 04 2018 05:30
                  3601.74707 20.41489983 3600
                                                183.9273071
01 04 2018 05:40
                 3602.333984 20.54841042 3600
                                               180.1058044
01 04 2018 05:50
                  3601.958984 17.90695953 3600
                                                178.0783997
01 04 2018 06:00
                  3602.87207 18.47801971 3600
                                                178.0310974
                  3602.730957 17.18726921 3600
01 04 2018 06:10
                                                178.7577972
01 04 2018 06:20
                  3602.89502 17.73974991 3600
                                                179.6463013
01 04 2018 06:30
                  3603.016113 18.27190018 3600
                                                181.1038055
                                                180.0713959
01 04 2018 06:40
                  3602.836914 18.60246086 3600
01 04 2018 06:50
                  3602.625
                              19.04188919 3600
                                                183.4199982
01 04 2018 07:00
                  3602.529053 19.06397057 3600
                                                184.9600067
01 04 2018 07:10
                  3602.840088 19.08691978 3600
                                                182.9915924
01 04 2018 07:20
                  3602.711914 18.46069908 3600
                                                179.656601
01 04 2018 07:30
                  3602.839111 18.55153084 3600
                                                182.2817993
                  3602.818115 18.20610046 3600
01 04 2018 07:40
                                                180.6858978
01 04 2018 07:50
                  3602.710938 18.5405407 3600
                                                187.1452942
01 04 2018 08:00
                  3602.670898 17.45919037 3600
                                               188.339798
01 04 2018 08:10
                  3598.435059 17.81809044 3600
                                                185.9302979
01 04 2018 08:20
                  3602.833008 19.90494919 3600
                                                182.4022064
01 04 2018 08:30
                  3602.891113 19.40122986 3600
                                                180.9328003
01 04 2018 08:40
                  3603.238037 19.38532066 3600
                                                181.0715027
01 04 2018 08:50
                  3603.531982 17.87614059 3600
                                                177.8542023
                                                175.7615967
01 04 2018 09:00
                  3603.25
                              17.9142704 3600
01 04 2018 09:10
                  3603.201904 17.10951042 3600
                                                176.5820007
                  3603.043945 16.10383987 3600
01 04 2018 09:20
                                                183.7404022
                 3596.653076 16.39907074 3600
01 04 2018 09:30
                                                187.1007996
                 3593.00708 15.53864956 3600
01 04 2018 09:40
                                                186.4315033
01 04 2018 09:50
                  3599.172119 16.26777077 3600
                                                188.7545929
01 04 2018 10:00
                  3578.677002 16.1704998 3600
                                                191.7433929
01 04 2018 10:10
                  3603.305908 18.16300011 3600
                                                195.6846924
01 04 2018 10:20
                  3590.959961 17.30175972 3600
                                                193.4004059
01 04 2018 10:30
                  3524.012939 14.86620998 3600
                                                188.4676056
                 3391.535889 13.54146957 3600
                                                184.4160004
01 04 2018 10:40
01 04 2018 10:50
                 3498.925049 15.97698021 3600
                                                194.4409027
01 04 2018 11:00
                  3574.851074 14.5447998 3600
                                                192.3271027
01 04 2018 11:10
                  3391.023926 14.78509998 3600
                                                200.2158051
01 04 2018 11:20
                  3588.438965 16.64740944 3600
                                                201.9008026
01 04 2018 11:30
                  3602.468018 17.31300926 3600
                                                201.0045929
01 04 2018 11:40
                  3603.552002 19.05736923 3600
                                                204.013504
01 04 2018 11:50
                  3600.649902 17.52486038 3600
                                                200.0709076
01 04 2018 12:00
                  3601.391113 18.36561012 3600
                                                199.9037933
01 04 2018 12:10
                  3603.124023 18.68843079 3600
                                                200.6172028
01 04 2018 12:20
                 3603.209961 19.10379982 3600
                                               201.901001
01 04 2018 12:30 3602.893066 19.04981995 3600
                                                197.8303986
```

```
01 04 2018 12:40 3603.177979 18.39628029 3600
                                              200.7279968
01 04 2018 12:50
                 3603.197998 17.11725044 3600 197.9192047
01 04 2018 13:00
                 3596.931885 17.16345024 3600
                                               201.6967926
01 04 2018 13:10 3603.574951 16.4668293 3600 203.4568939
                 3603.830078 16.36544037 3600 203.8917999
01 04 2018 13:20
01 04 2018 13:30
                 3593.525879 15.34269047 3600 204.9481964
01 04 2018 13:40
                 3592.697998 15.20823956 3600 210.7388
                 3601.028076 15.97348022 3600
01 04 2018 13:50
                                               214.7830963
01 04 2018 14:00
                 3603.528076 17.80850029 3600
                                               217.7279968
01 04 2018 14:10
                 3603.611084 17.24247932 3600
                                               220.0673981
01 04 2018 14:20
                 3603.378906 18.35807991 3600
                                              221.8578033
                 3602.785889 19.24801064 3600 221.9421997
01 04 2018 14:30
01 04 2018 14:40
                 3603.166992 18.73475075 3600 224.6024933
01 04 2018 14:50
                 3602.89209 18.81599045 3600 221.2462006
01 04 2018 15:00
                 3601.084961 18.35313988 3600 223.8135986
                 3602.88501 18.57889938 3600 224.4445953
01 04 2018 15:10
                 3602.424072 16.74393082 3600 225.6159973
01 04 2018 15:20
01 04 2018 15:30
                 725.4082031 16.38528061 3600 227.2949066
                       15.87602043 3600 226.2230988
01 04 2018 15:40 0
                       16.50458908 3600 224.264801
01 04 2018 15:50 0
01 04 2018 16:00 0
                       17.36437035 3600 225.964798
                       14.44423008 3600 229.1804047
01 04 2018 16:10 0
                       13.4463501 3600 228.2344055
01 04 2018 16:20 0
01 04 2018 16:30 0
                       13.35803032 3600 231.2068939
01 04 2018 16:40 2869.673096 14.68612957 3600 229.3153076
01 04 2018 16:50 3601.309082 14.44338036 3600 227.4263
01 04 2018 17:00 3589.271973 14.46502018 3600 226.9179993
01 04 2018 17:10 3570.514893 13.92370033 3600 227.6477966
                 3493.51001 13.28448009 3600 228.720993
01 04 2018 17:20
01 04 2018 17:30
                 3404.24292 12.78376961 3594.292571 231.723999
01 04 2018 17:40 3470.2229
                             13.1118803 3600 230.9022064
01 04 2018 17:50
                 2972.072998 11.23023033 3347.813734 234.905304
01 04 2018 18:00
                 2959.88501 11.25407028 3354.959796 237.0155029
01 04 2018 18:10 2455.153076 11.19143963 3335.927166 240.5789948
01 04 2018 18:20 0
                       9.822131157 2676.455372 249.8910065
01 04 2018 18:30 0
                       11.45726013 3411.077978 239.7792969
01 04 2018 18:40
                 0
                       11.51352978 3425.145525 244.6004944
01 04 2018 18:50
                 2216.156006 11.57800007 3440.502369 256.8839111
                 1837.490967 11.42660046 3403.148599 273.8969116
01 04 2018 19:00
01 04 2018 19:10 0
                       9.852775574 2697.111463 274.0325928
01 04 2018 19:20 0
                       8.721741676 1966.386842 272.2792053
01 04 2018 19:30 1042.366943 9.356332779 2375.762046 273.8641052
01 04 2018 19:40
                 2308.790039 9.687287331 2581.823661 269.441803
01 04 2018 19:50
                 1205.234009 8.902603149 2081.40246 272.3016052
01 04 2018 20:00 0
                       9.075222969 2192.592911 275.9241028
01 04 2018 20:10 0
                       8.837212563 2039.624097 275.9194031
01 04 2018 20:20 922.2493286 8.531021118 1847.157433 270.3232117
01 04 2018 20:30 1830.152954 8.701745987 1953.780141 269.7166138
01 04 2018 20:40 2677.073975 10.64577007 3132.491916 277.5440979
01 04 2018 20:50
                 2752.764893 10.78829002 3192.457726 278.7990112
01 04 2018 21:00
                 3066.018066 11.28127003 3362.966308 282.07901
                 2834.433105 10.75967979 3180.825049 274.7018127
01 04 2018 21:10
01 04 2018 21:20
                 2698.455078 10.49732971 3064.513852 273.8187866
01 04 2018 21:30 2814.285889 10.7316103 3169.216214 267.7941895
01 04 2018 21:40
                 2224.863037 9.425815582 2421.301
                                                     268.1235046
01 04 2018 21:50 3347.552002 10.96236038 3258.990138 257.670105
01 04 2018 22:00 328.3098145 10.68787956 3150.739325 253.1452942
01 04 2018 22:10 1085.081055 10.03818035 2815.613895 267.7492981
01 04 2018 22:20 2571.061035 9.646001816 2551.605058 261.4822998
```

```
01 04 2018 22:30 1338.032959 7.351679802 1182.505469 261.4229126
01 04 2018 22:40
                 1572.222046 7.972425938 1514.245893 261.0976868
01 04 2018 22:50
                 1376.552979 7.696253777 1361.149893 271.0776978
01 04 2018 23:00 450.9927979 5.550764084 483.7223348 261.0668945
01 04 2018 23:10
                 1084.353027 7.168972015 1093.903862 246.3466034
01 04 2018 23:20
                  1147 6.934552193 986.7965902 232.3182068
01 04 2018 23:30
                  1179.597046 7.259799957 1137.364995 219.6833038
                  1345.041992 7.458614826 1236.592324 226.9338989
01 04 2018 23:40
                  985.552124 6.915987015 978.6132025 234.7855988
01 04 2018 23:50
02 04 2018 00:00
                  1026.031006 7.025846004 1027.666268 239.9965973
02 04 2018 00:10
                  493.7640076 5.623448849 505.2232336 241.8276062
02 04 2018 00:20
                  70.4109726 4.587709904 240.7993148 251.3168945
02 04 2018 00:30
                        4.053709984 133.036409 278.7533875
02 04 2018 00:40
                        3.733966112 82.58341589 246.572403
02 04 2018 00:50
                        5.132462978 369.2205314 228.7442932
                  0
02 04 2018 01:00
                  0
                        5.116888046 365.2428281 246.8206024
02 04 2018 01:10
                  0
                        6.594645977 843.5129496 191.5511932
02 04 2018 01:20
                  0
                        5.48027277 463.3428722 211.2037964
                  0
02 04 2018 01:30
                        6.73948288 902.9029268 225.6372986
                        7.313665867 1163.682994 217.4777069
02 04 2018 01:40
                  0
02 04 2018 01:50
                        7.29004097 1152.089653 225.6013031
                  0
                        8.143536568 1613.234187 216.9765015
02 04 2018 02:00
                  0
02 04 2018 02:10
                  0
                        7.151123047 1085.495449 233.2841034
02 04 2018 02:20
                  0
                        8.18540287 1637.88904 240.0500031
02 04 2018 02:30
                        10.57734966 3101.874453 255.7881927
02 04 2018 02:40
                        10.02064037 2804.868974 247.5903015
02 04 2018 02:50
                        10.00619984 2795.950864 238.0778046
02 04 2018 03:00
                        10.62792969 3124.624835 237.337204
                  0
02 04 2018 03:10
                  0
                        11.30776024 3370.614888 236.1681061
02 04 2018 03:20
                        11.30352974 3369.403228 239.7164001
                  0
02 04 2018 03:30
                  0
                        12.0701704 3532.44245 251.9647064
02 04 2018 03:40
                  0
                        12.97651958 3597.865602 254.8094025
02 04 2018 03:50
                        11.41112041 3399.073496 259.0361023
02 04 2018 04:00
                  0
                       10.90565968 3238.106444 262.2752075
02 04 2018 04:10
                        12.15985966 3544.649312 269.1570129
                  0
02 04 2018 04:20
                  0
                        11.02908039 3282.613017 265.3822021
02 04 2018 04:30
                  0
                       8.958525658 2117.289141 257.4818115
                       9.38254261 2392.931346 257.4237976
02 04 2018 04:40
                        8.957755089 2116.793718 257.5956116
02 04 2018 04:50
02 04 2018 05:00
                        8.093336105 1583.890908 253.8742981
02 04 2018 05:10
                  0
                        7.538777828 1277.981472 266.3456116
02 04 2018 05:20
                        7.237925053 1126.793805 262.7428894
                  0
02 04 2018 05:30
                        8.103759766 1589.963714 0
02 04 2018 05:40
                  27.90373039 7.377718925 1195.519751 0
02 04 2018 05:50
                  783.4611206 6.342978001 745.9266343 260.8113098
                  998.623291 7.133368015 1077.173707 270.713501
02 04 2018 06:00
02 04 2018 06:10
                  789.4381714 6.439895153 782.6799854 269.3666077
02 04 2018 06:20
                 316.8930969 6.24282217 709.0156758 272.8664856
02 04 2018 06:30
                 832.7780762 6.624159813 855.4199193 267.0100098
02 04 2018 06:40
                 564.34552
                            5.675815105 521.0271715 256.1618042
02 04 2018 06:50
                 496.2510071 5.537230968 479.7740904 252.4904938
02 04 2018 07:00
                 685.800415 6.137029171 671.1980396 247.7097015
02 04 2018 07:10
                 731.9022827 6.233448982 705.6166169 256.9299927
02 04 2018 07:20
                 688.2250977 6.048193932 640.3669046 263.806488
02 04 2018 07:30
                 563.710083 5.751122952 544.2253141 263.4960022
02 04 2018 07:40 246.7552948 5.922429085 599.1299425 261.6795044
02 04 2018 07:50 505.8633118 5.722165108 535.2386299 263.2197876
02 04 2018 08:00 531.8720093 5.634426117 508.5141805 268.9375916
02 04 2018 08:10 168.8934021 4.904123783 312.7906088 264.5422974
```

```
5.035100937 344.6697854 280.2521057
02 04 2018 08:20
                  0
                        5.779383183 553.0763785 272.3562927
02 04 2018 08:30
                  0
02 04 2018 08:40
                  0
                        4.918764114 316.2905581 278.8034973
02 04 2018 08:50
                  0
                        4.124141216 146.3980499 266.2226868
                  0
02 04 2018 09:00
                        4.186974049 158.5186912 250.772995
02 04 2018 09:10
                        4.149722099 151.3093719 251.976593
02 04 2018 09:20
                  0
                        5.026377201 342.5061398 267.3344116
                        4.640170097 252.2730982 268.4771118
02 04 2018 09:30
                  0
02 04 2018 09:40
                  0
                        5.028031826 342.9160669 272.7090149
02 04 2018 09:50
                        4.944019794 322.3652726 270.6094055
                  0
02 04 2018 10:00
                  0
                        3.997211933 127.465313 279.575592
02 04 2018 10:10
                        4.99159193 333.9366998 263.2304077
02 04 2018 10:20
                        4.572243214 237.4497321 277.2293091
02 04 2018 10:30
                        4.376371861 196.2802472 272.2578125
02 04 2018 10:40
                        4.115013123 144.6531573 280.0491028
                  0
02 04 2018 10:50
                  0
                        5.046164036 347.4220799 270.1368103
02 04 2018 11:00
                  0
                        3.915920019 112.4221991 283.8523865
02 04 2018 11:10
                 0
                        4.251732826 171.2174365 274.7709961
                  0
02 04 2018 11:20
                        4.131315231 147.7722121 291.9169006
02 04 2018 11:30
                  0
                        5.216353893 390.9833634 270.1556091
02 04 2018 11:40
                        5.562805176 487.2496993 268.3345947
                  0
02 04 2018 11:50
                  0
                        4.945294857 322.6732126 289.0452881
02 04 2018 12:00
                  0
                        4.782855988 284.3917119 287.5744019
02 04 2018 12:10
                  160.8276062 5.088986874 358.1653944 277.7453003
02 04 2018 12:20
                  165.4627991 4.772919178 282.1104647 272.9908142
02 04 2018 12:30
                  961.0889893 7.196472168 1106.943184 265.4046936
02 04 2018 12:40
                 482.7865906 5.181900978 381.9761019 275.4826965
02 04 2018 12:50 552.1157837 5.775527
                                       551.8638942 288.3244934
02 04 2018 13:00 86.81926727 5.742856979 541.6515576 294.1193848
                        5.546504974 482.4779075 293.3977051
02 04 2018 13:10
                  0
02 04 2018 13:20
                        4.296060085 180.0350341 276.3178101
                 0
02 04 2018 13:30
                 416.5793152 5.398104191 440.1597332 270.3823853
02 04 2018 13:40
                 449.8843994 5.264655113 403.7771086 275.6350098
02 04 2018 13:50
                  551.1964111 5.709115982 531.216217 263.2904968
                 885.4744873 6.89844799 970.9212347 261.6818848
02 04 2018 14:00
02 04 2018 14:10
                  1009.349976 7.164741993 1091.907274 271.1218872
02 04 2018 14:20
                  596.4769287 6.049048901 640.6596114 282.6384888
                  787.8903198 6.441127777 783.1540429 272.4216919
02 04 2018 14:30
02 04 2018 14:40
                 727.2161865 6.421909809 775.7819379 274.4505005
02 04 2018 14:50
                 398.4223938 5.314352989 417.1465296 269.1115112
02 04 2018 15:00 408.2174988 5.408738136 443.1258779 258.9993896
02 04 2018 15:10 593.9143066 6.234474182 705.9879321 247.4438019
02 04 2018 15:20
                 558.5665283 5.931252003 602.0402128 236.8182068
02 04 2018 15:30
                 234.3226929 4.588110924 240.886362 241.100296
02 04 2018 15:40
                 544.2523193 5.759202003 546.7474748 242.1506958
02 04 2018 15:50
                  296.9255981 4.965483189 327.5650206 245.1817932
                 226.6282043 4.566623211 236.2363205 237.0917969
02 04 2018 16:00
                 153.7834015 4.144591808 150.3218553 235.4485931
02 04 2018 16:10
02 04 2018 16:20
                 318.7709961 5.237410069 396.5366018 231.1130066
02 04 2018 16:30
                  455.78479
                             5.87693119 584.2522163 226.8795013
02 04 2018 16:40
                  520.4733887 5.970726013 615.16202
                                                    225.9364014
02 04 2018 16:50
                  623.4437866 6.427206993 777.8099177 221.0052948
02 04 2018 17:00
                  767.4202881 6.74601984 905.6406818 219.4577942
02 04 2018 17:10
                 830.5046997 7.101593018 1062.38555 207.9875946
02 04 2018 17:20
                 1028.685059 7.506552219 1261.361977 204.9853973
02 04 2018 17:30 862.7207031 7.136311054 1078.550189 201.7167969
02 04 2018 17:40 838.6552124 6.948019981 992.7598695 203.2575073
02 04 2018 17:50 795.8668213 6.814680099 934.7011496 206.9243011
02 04 2018 18:00 741.378479 6.571817875 834.3708618 213.3222046
```

```
02 04 2018 18:10 660.1887817 6.49703598 804.8319762 216.8215027
                 643.6668701 6.185744762 688.4634001 226.2346954
02 04 2018 18:20
02 04 2018 18:30
                 570,2941895 5,949903011 608,2194476 229,2850952
02 04 2018 18:40 493.8570862 5.774600983 551.5729533 230.5326996
                 661.7891235 6.247509956 710.7191784 231.0325928
02 04 2018 18:50
02 04 2018 19:00
                 595.8121948 6.060272217 644.5092638 235.4729004
                 590.5189819 6.124435902 666.7761257 238.6710968
02 04 2018 19:10
                 499.1987915 5.824028969 567.2239424 236.647995
02 04 2018 19:20
02 04 2018 19:30
                 750.5842896 6.592243195 842.5479243 234.4237061
                 767.4086304 6.622693062 854.8258414 238.2225037
02 04 2018 19:40
02 04 2018 19:50
                 1118.609009 7.386106014 1199.732771 236.8782959
02 04 2018 20:00
                 1254.20105 7.709702969 1368.398284 239.3262939
02 04 2018 20:10
                 1228.113037 7.458632946 1236.601634 239.2120056
02 04 2018 20:20
                 1200.412964 7.410294056 1211.941226 248.7149048
                 1279.322021 7.635191917 1328.523959 256.7724915
02 04 2018 20:30
02 04 2018 20:40
                 1055.680054 7.21799612 1117.220864 256.1964111
02 04 2018 20:50 911.5286865 6.939360142 988.9228667 254.8887024
02 04 2018 21:00
                 866.7233276 6.861611843 954.8889787 253.0296936
02 04 2018 21:10
                 904.1174927 6.760455132 911.7041293 253.1766968
                 806.0313721 6.496311188 804.5487326 252.9485931
02 04 2018 21:20
                 1072.494995 7.189195156 1103.482752 251.8995972
02 04 2018 21:30
                 1247.909058 7.597157955 1308.441112 254.0783997
02 04 2018 21:40
02 04 2018 21:50
                 1135.890991 7.35830307 1185.806365 252.0514984
02 04 2018 22:00
                 1128.682983 7.436645031 1225.340694 252.7588959
02 04 2018 22:10
                 1139.531982 7.390492916 1201.940541 253.8972931
02 04 2018 22:20
                 1167.140991 7.414227962 1213.935015 256.7645874
02 04 2018 22:30
                 1195.529053 7.451361179 1232.869344 261.1694946
02 04 2018 22:40
                 1357.546021 7.905220985 1476.196735 272.4635925
02 04 2018 22:50
                 1478.595947 8.177607536 1633.286032 284.7261963
02 04 2018 23:00
                 1236.350952 7.586933136 1303.074035 285.6863098
                 872.5239868 6.773058891 917.0183306 290.243988
02 04 2018 23:10
02 04 2018 23:20
                 768.6516724 6.63711977 860.6797417 276.7583923
02 04 2018 23:30
                 814.5869751 6.606009007 848.0855152 279.4093933
02 04 2018 23:40
                 591.2640991 6.017762184 629.9991879 287.5414124
02 04 2018 23:50 412.9630127 5.430332184 449.1801807 303.2531128
03 04 2018 00:00
                 340.3387146 5.270671844 405.3845148 337.8474121
                 405.5137024 5.428977013 448.7990049 351.894989
03 04 2018 00:10
                 361.9591064 5.351882935 427.3832631 1.485136032
03 04 2018 00:20
03 04 2018 00:30
                 189.0771942 4.320841789 185.0102339 8.134054184
03 04 2018 00:40
                 328.6193848 5.162168026 376.8610094 18.69713974
03 04 2018 00:50 346.9921875 5.388003826 437.3517141 21.16167068
03 04 2018 01:00 365.2713013 5.387293816 437.1546626 20.95837975
03 04 2018 01:10 413.0754089 5.58698988 494.3757003 19.51192093
03 04 2018 01:20
                 281.4726868 5.06811285 352.9106508 19.3895607
03 04 2018 01:30
                 228.8735962 4.671339035 259.1739342 14.13311958
03 04 2018 01:40
                 235.3036041 4.769049168 281.2238436 18.55590057
03 04 2018 01:50
                 237.9250031 4.645644188 253.480505 17.39289093
                 170.9290924 4.341954231 189.275061 16.96216011
03 04 2018 02:00
                 41.57666016 3.447556019 46.3463038 22.37672043
03 04 2018 02:10
03 04 2018 02:20
                 0.734001815 2.746315956 0
                                               22.91580009
03 04 2018 02:30
                 0
                        3.130613089 21.54440115 22.68951988
03 04 2018 02:40
                 0
                        2.477240086 0
                                         17.3481102
03 04 2018 02:50
                        3.055141926 18.00779218 2.947767973
03 04 2018 03:00
                        2.749140978 0
                                         2.458576918
                 0
03 04 2018 03:10
                       3.124804974 21.23986167 11.3610096
                 0
03 04 2018 03:20
                 0
                       3.15222311 22.72488955 5.472325802
03 04 2018 03:30
                 0
                       3.561444044 59.18376259 4.852728844
03 04 2018 03:40 0
                       2.843389034 0
                                      9.848958969
03 04 2018 03:50 0
                    2.380991936 0
                                         8.163504601
```

```
03 04 2018 04:00
                         2.147310972 0
                  0
                                            11.90604019
03 04 2018 04:10
                   0
                         2.86093092
                                     0
                                            1.391590953
03 04 2018 04:20
                   0
                         2.721481085 0
                                            22.03177071
03 04 2018 04:30
                  0
                         3.033427
                                     17.15905315 31.91674042
03 04 2018 04:40
                   0
                         2.955980062 0
                                            27.37796021
03 04 2018 04:50
                         3.005168915 16.16754269 21.23900986
03 04 2018 05:00
                   0
                         3.284970999 31.61574957 25.71455956
                         3.305143118 33.21356557 27.36104012
03 04 2018 05:10
                   0
03 04 2018 05:20
                   0
                         2,633990049 0
                                            18.94551086
03 04 2018 05:30
                   0
                         2.825525045 0
                                            15.62287045
03 04 2018 05:40
                   0
                         2.827579975 0
                                            32.90190887
03 04 2018 05:50
                         2.902312994 0
                                            30.34938049
03 04 2018 06:00
                         2.358599901 0
                                            32.29021835
03 04 2018 06:10
                   0
                         2.076347113 0
                                            23.67412949
03 04 2018 06:20
                         1.888152957 0
                                            33.8473587
                   0
03 04 2018 06:30
                   0
                         2.171221972 0
                                            35.40515137
03 04 2018 06:40
                  0
                         2,613764048 0
                                            40.25695038
03 04 2018 06:50
                  0
                                            33.8407402
                         2.355432987 0
03 04 2018 07:00
                   0
                         2.384377956 0
                                            40.85208893
03 04 2018 07:10
                   0
                         1.699023962 0
                                            51.96409988
03 04 2018 07:20
                         1.950001955 0
                                            28.67505074
                   0
03 04 2018 07:30
                         2.206700087 0
                   0
                                            37.4858017
03 04 2018 07:40
                   0
                         2.455682993 0
                                            50.79505157
03 04 2018 07:50
                   0
                         2.299894094 0
                                            46.63990021
03 04 2018 08:00
                   0
                         2.359411001 0
                                            42.47463989
03 04 2018 08:10
                         2.498795986 0
                                            36.7156601
03 04 2018 08:20
                         2.680728912 0
                                            37.53662109
03 04 2018 08:30
                         1.984442949 0
                                            22.4170208
                   0
03 04 2018 08:40
                   0
                         2.276036024 0
                                            25.75085068
03 04 2018 08:50
                   0
                         2.211699963 0
                                            29.81052017
03 04 2018 09:00
                  0
                         2.228240967 0
                                            21.33246994
03 04 2018 09:10
                   0
                         2.486807108 0
                                            27.24678993
03 04 2018 09:20
                         2.274876118 0
                                            15.70189953
                   0
03 04 2018 09:30
                         2.002410889 0
                                            28.98859024
                   0
03 04 2018 09:40
                                            37.54486847
                   0
                         2.178625107 0
03 04 2018 09:50
                         1.875105023 0
                                            39.87466812
                   0
03 04 2018 10:00
                   0
                         2.047100067 0
                                            38.51081848
03 04 2018 10:10
                   0
                         1.622558951 0
                                            40.01062012
03 04 2018 10:20
                         1.827870011 0
                                            34.98308182
03 04 2018 10:30
                         1.957429051 0
                                            45.298069
03 04 2018 10:40
                         1.959020019 0
                                            38.7750206
                   0
03 04 2018 10:50
                   0
                         2.064769983 0
                                            32.53791046
03 04 2018 11:00
                                            13.97216988
                   0
                         2.523562908 0
03 04 2018 11:10
                  0
                         2.729590893 0
                                            20.06615067
03 04 2018 11:20
                         3.184845924 24.64851084 27.28358078
                   0
03 04 2018 11:30
                         2.486382008 0
                                            18.68202019
03 04 2018 11:40
                   0
                         2.665400028 0
                                            20.64258957
03 04 2018 11:50
                                            24.98714066
                   0
                         2.560211897 0
03 04 2018 12:00
                   0
                         2.748635054 0
                                            21.14969063
03 04 2018 12:10
                   0
                         2.917690039 0
                                            22.77832031
03 04 2018 12:20
                   0
                         3.203226089 25.80730234 26.88048935
03 04 2018 12:30
                         3.002924919 16.09428182 19.83012009
03 04 2018 12:40
                         2.874059916 0
                                            24.59359932
03 04 2018 12:50
                         2.562885046 0
                                            20.88018036
                   0
03 04 2018 13:00
                   0
                         2.756452084 0
                                            21.94923973
03 04 2018 13:10
                   0
                         2.886327028 0
                                            27.35463905
03 04 2018 13:20
                  0
                         2.478013039 0
                                            23.96089935
03 04 2018 13:30
                  0
                         2.477103949 0
                                            21.52017021
03 04 2018 13:40
                   0
                         2.381879091 0
                                            41.20067978
```

```
03 04 2018 13:50 0
                       3.068892002 18.5842327 45.21292877
03 04 2018 14:00 3.412201881 3.641778946 69.4873435 44.67763901
03 04 2018 14:10 34.70843887 3.574574947 60.79730793 41.87966919
03 04 2018 14:20 20.6240406 3.057935953 18.12247647 36.3848381
03 04 2018 14:30 105.620903 4.089885235 139.8702512 35.39165878
03 04 2018 14:40 57.58628082 3.711306095 79.23830392 34.97193146
03 04 2018 14:50 38.78493881 3.584280968 62.00773091 45.67052078
03 04 2018 15:00 73.4994278 3.874582052 105.178127 51.96752167
03 04 2018 15:10 107.5442963 4.088961124 139.694921 42.6781311
03 04 2018 15:20
                 50.19432831 3.577539921 61.16546628 40.89596939
03 04 2018 15:30 -0.085066549
                                   3.03884697 17.36382999 51.3479805
03 04 2018 15:40 0
                       3.577059031 61.10565895 44.11993027
03 04 2018 15:50 65.78569031 4.14307785 150.0306822 46.23706055
03 04 2018 16:00 90.97119141 3.986620903 125.4455334 42.13883972
03 04 2018 16:10 191.7682037 4.628068924 249.610822 37.06949997
03 04 2018 16:20 231.2052002 4.821743965 293.3852837 38.79552841
03 04 2018 16:30 140.8132935 4.290452957 178.9139146 44.07632065
03 04 2018 16:40 219.0630035 4.710686207 267.9764071 50.63862991
03 04 2018 16:50 315.4237061 5.263631821 403.5040342 46.48207092
03 04 2018 17:00 202.3381042 4.646193981 253.6018785 47.25672913
03 04 2018 17:10 152.9709015 4.366793156 194.3240358 49.94285965
03 04 2018 17:20 150.3426971 4.409255028 203.0351138 51.63047028
03 04 2018 17:30 159.9049072 4.478660107 217.4963759 52.25817871
03 04 2018 17:40 194.0852051 4.669085979 258.6729838 52.9378891
03 04 2018 17:50 181.7292938 4.555963993 233.9402809 58.1346817
03 04 2018 18:00 203.4055939 4.705030918 266.7049329 54.83647156
03 04 2018 18:10 168.6280975 4.482446194 218.2933679 53.92359161
03 04 2018 18:20 167.4192963 4.589385986 241.1632
                                                     51.11832047
03 04 2018 18:30 157.6383972 4.408335209 202.8453304 49.53881073
03 04 2018 18:40 181.6882935 4.617224216 247.232947 47.49505997
03 04 2018 18:50 233.0610962 4.70190382 266.0027842 48.41490173
03 04 2018 19:00 347.682312 5.354135036 428.0014425 47.58885956
03 04 2018 19:10 327.7637024 5.330001831 421.4001036 50.89004135
03 04 2018 19:20 287.2932129 5.075033188 354.64896
                                                     54.49721146
03 04 2018 19:30 196.4741058 4.545913219 231.7817345 62.71900177
03 04 2018 19:40 86.57993317 3.821408033 96.26194965 65.85118103
03 04 2018 19:50 85.20574951 4.073775768 136.8195365 60.25149918
03 04 2018 20:00 53.3993187 3.671336889 73.53823797 63.16057968
03 04 2018 20:10 0
                       3.515515089 53.75694741 63.06581879
03 04 2018 20:20 0
                       3.394918919 41.11428158 74.55912018
03 04 2018 20:30 40.44683838 3.93840003 116.4763703 62.77386093
03 04 2018 20:40 36.20608139 3.65367794 71.10128207 57.65467072
03 04 2018 20:50 24.76490974 3.423841953 43.93430261 64.47846985
03 04 2018 21:00 3.060600996 3.282885075 31.45423962 70.05161285
03 04 2018 21:10 0
                       3.781801939 89.9148038 72.35118866
03 04 2018 21:20 0
                       4.161819935 153.6431457 68.78916168
03 04 2018 21:30 0
                       4.00978899 124.8195958 72.38686371
03 04 2018 21:40 16.92832947 3.786216021 90.60976314 65.6844101
03 04 2018 21:50 26.26457977 3.553371906 58.20553833 68.68322754
03 04 2018 22:00 7.762384892 3.336772919 35.8500133 76.85267639
03 04 2018 22:10 0
                       3.257111073 29.51604261 89.45700073
03 04 2018 22:20 0
                       3.463962078 48.06765129 90.66609955
03 04 2018 22:30 0
                       2.909043074 0
                                         93.71720886
03 04 2018 22:40 11.49020004 3.421165943 43.66777031 88.43776703
03 04 2018 22:50 88.8007431 4.027677059 128.1556544 72.18681335
03 04 2018 23:00 81.66722107 4.055633068 133.3981784 72.43652344
03 04 2018 23:10 81.09739685 4.013412952 125.4943001 76.71716309
03 04 2018 23:20 54.86869812 3.847626925 100.6017738 76.22783661
03 04 2018 23:30 90.77237701 4.040737152 130.600374 73.86422729
```

```
74.87545776 3.927969933 114.5852935 74.63783264
03 04 2018 23:40
                  70.08825684 3.920824051 113.2997242 73.63510132
03 04 2018 23:50
04 04 2018 00:00
                  55.54053116 3.809654951 94.35224962 75.97427368
04 04 2018 00:10
                  10.71523952 2.736423016 0
                                                 84.0477829
04 04 2018 00:20
                  23.81612015 3.513720989 53.55181204 85.17224121
04 04 2018 00:30
                  -0.504001617
                                     3.097465038 19.87883592 92.27007294
04 04 2018 00:40
                  0
                        2.897911072 0
                                           71.30641174
04 04 2018 00:50
                  0
                        2.875147104 0
                                           66.27390289
04 04 2018 01:00
                  0
                        2.763452053 0
                                           59.42515182
04 04 2018 01:10
                  0
                        2.977447987 0
                                           58.59489822
                        3.124147892 21.20574847 72.55387878
04 04 2018 01:20
                  0
04 04 2018 01:30
                  0
                        2.64846611 0
                                           65.72009277
04 04 2018 01:40
                        2.416384935 0
                                           64.27336121
04 04 2018 01:50
                  0
                        2.679639101 0
                                           68.87708282
04 04 2018 02:00
                        3.041610956 17.47006833 63.03993988
                  0
04 04 2018 02:10
                  0
                        3.488446951 50.71673634 61.95156097
04 04 2018 02:20
                  12.21461964 3.631602049 68.12495742 62.09693146
04 04 2018 02:30
                  0.755999625 2.70699501 0
                                                 68.16155243
                                           59.3830986
04 04 2018 02:40
                  0
                        2.748161077 0
04 04 2018 02:50
                  0
                        3.118423939 20.91150438 52.62591934
04 04 2018 03:00
                        3.304526091 33.16372609 51.75976181
                  0
04 04 2018 03:10
                  0
                        2.804016113 0
                                           60.23873901
04 04 2018 03:20
                  0
                        2.987494946 0
                                           59.2184906
04 04 2018 03:30
                  0
                        3.152704954 22.75206277 59.28256989
04 04 2018 03:40
                        3.350429058 37.03777184 61.25120926
04 04 2018 03:50
                        3.39467597 41.09116075 67.02236938
04 04 2018 04:00
                  27.00554085 3.941939116 117.1219955 71.46894836
04 04 2018 04:10
                  68.16042328 3.940928936 116.937507 72.55896759
                  22.90983963 3.581959963 61.71691068 77.05491638
04 04 2018 04:20
                               3.529149055 55.33266761 70.78819275
04 04 2018 04:30
                  14.21945
                  3.363132954 3.296165943 32.49445145 71.97173309
04 04 2018 04:40
                        3.131468058 21.58968586 80.49933624
04 04 2018 04:50
                  0
04 04 2018 05:00
                        2.719572067 0
                                           71.76682281
04 04 2018 05:10
                        2.575956106 0
                                           71.57820129
                  0
04 04 2018 05:20
                        2.869247913 0
                                           75.54850006
                  0
04 04 2018 05:30
                        2.592483044 0
                                           74.64675903
                  0
04 04 2018 05:40
                  0
                        2.734450102 0
                                           72.59065247
04 04 2018 05:50
                        2.468290091 0
                                           84.41486359
04 04 2018 06:00
                        2.611552
                                           96.2201004
04 04 2018 06:10
                        2.73349309
                                           95,66401672
04 04 2018 06:20
                        2.320080996 0
                                           91.80931854
04 04 2018 06:30
                                           93.78598022
                  0
                        2.137923002 0
04 04 2018 06:40
                                           78.90097809
                  0
                        1.761029005 0
04 04 2018 06:50
                  0
                        2.128529072 0
                                           87.97144318
04 04 2018 07:00
                  0
                        2.744051933 0
                                           97.1552124
04 04 2018 07:10
                        2.020637989 0
                                           75.95493317
04 04 2018 07:20
                  0
                        2.059784889 0
                                           66.22238159
04 04 2018 07:30
                                           27.63269043
                  0
                        1.452818036 0
04 04 2018 07:40
                  0
                        1.184077978 0
                                           44.30630875
04 04 2018 07:50
                  0
                        1.840178013 0
                                           31.19412041
04 04 2018 08:00
                  0
                        2.097275972 0
                                           20.0700798
04 04 2018 08:10
                        1.611049056 0
                                           26.18297005
04 04 2018 08:20
                        1.919610977 0
                                           28.71520042
04 04 2018 08:30
                        2.346570969 0
                                           8.648573875
                  0
04 04 2018 08:40
                                           14.5297699
                  0
                        1.919309974 0
04 04 2018 08:50
                  0
                        2.364887953 0
                                           12.63821983
04 04 2018 09:00
                  0
                        2.527704
                                           6.647809982
                                     0
04 04 2018 09:10
                  0
                        2.283090115 0
                                           2.292187929
04 04 2018 09:20
                  0
                        1.751644015 0
                                           357.8143921
```

```
04 04 2018 09:30
                         1.974431038 0
                                            21.60564995
                   0
04 04 2018 09:40
                   0
                         1.76830101
                                      0
                                            8.396589279
   04 2018 09:50
                         1.960999012 0
                                            14.15408993
                   0
04 04 2018 10:00
                   0
                         1.90259099
                                            24.42163086
                                      0
04 04 2018 10:10
                   0
                         2.156208038 0
                                            5.07621479
04 04 2018 10:20
                         2.032917023 0
                                            350.9876099
04 04 2018 10:30
                   0
                         2.353430033 0
                                            359.9143982
04 04 2018 10:40
                   0
                         2.309984922 0
                                            11.88220024
04 04 2018 10:50
                   0
                         1.372876048 0
                                            19.11314011
04 04 2018 11:00
                   0
                         1,602712035 0
                                            28.1876297
04 04 2018 11:10
                   0
                         1.457278967 0
                                            28.13973045
04 04 2018 11:20
                         1.22211206
                                            4.291762829
04 04 2018 11:30
                         1.149111986 0
                                            21.66953087
04 04 2018 11:40
                   0
                         1.076012969 0
                                            298.9307861
04 04 2018 11:50
                         1.439340949 0
                                            10.89046001
                   0
04 04 2018 12:00
                   0
                         1.528053045 0
                                            6.899232864
04 04 2018 12:10
                   0
                         1.068106055 0
                                            25.8014698
04 04 2018 12:20
                   0
                         1.959602952 0
                                            355.2052002
04 04 2018 12:30
                   0
                         1.172898054 0
                                            4.771747112
04 04 2018 12:40
                   0
                         1.038007021 0
                                            317.4249878
04 04 2018 12:50
                                            68.71491241
                   0
                         1.01613605
04 04 2018 13:00
                   0
                         0.555166602 0
                                            31.49473
04 04 2018 13:10
                   0
                         0.80749619
                                            305.6637878
04 04 2018 13:20
                         0.857277572 0
                   0
                                            302.8664856
04 04 2018 13:30
                         1.239436984 0
                                            150.3746948
04 04 2018 13:40
                         0.862663925 0
                                            154.6820984
04 04 2018 13:50
                         0.674112082 0
                                            9.051430702
04 04 2018 14:00
                         1.034805059 0
                                            8.971184731
                   0
04 04 2018 14:10
                   0
                         1.064597964 0
                                            355.8143005
04 04 2018 14:20
                   0
                         0.765235186 0
                                            318.9685974
04 04 2018 14:30
                   0
                         1.048302054 0
                                            231.7084961
04 04 2018 14:40
                   0
                         1.281412959 0
                                            214.7987061
04 04 2018 14:50
                                            161.7342987
                         0.696646094 0
04 04 2018 15:00
                         0.42650789
                                            106.8730011
                   0
04 04 2018 15:10
                         0.371440589 0
                   0
                                            110.7143021
04 04 2018 15:20
                   0
                         0.559937179 0
                                            81.35909271
04 04 2018 15:30
                   0
                         0.718660712 0
                                            355.7500916
04 04 2018 15:40
                                            9.17236042
                   0
                         0.635113418 0
04 04 2018 15:50
                         0.654498518 0
                                            63.9464798
04 04 2018 16:00
                         1.094604969 0
                                            111,2865982
04 04 2018 16:10
                         1.288615942 0
                                            112.4265976
                   0
04 04 2018 16:20
                                            111.4171982
                   0
                         1.402161956 0
04 04 2018 16:30
                                            115.7654037
                   0
                         1.733212948 0
04 04 2018 16:40
                   0
                         1.660081029 0
                                            115.9373016
04 04 2018 16:50
                   0
                         1.479503989 0
                                            107.5747986
04 04 2018 17:00
                   0
                         1.354789972 0
                                            107.0985031
04 04 2018 17:10
                   0
                         0.997415423 0
                                            104.9414978
04 04 2018 17:20
                   0
                         1.931470037 0
                                            113.8480988
04 04 2018 17:30
                   0
                         2.471748114 0
                                            115.9841995
04 04 2018 17:40
                   0
                         1.781175971 0
                                            113.6109009
04 04 2018 17:50
                   0
                         2.628818989 0
                                            125.8529968
04 04 2018 18:00
                         3.055453062 18.02050135 125.123703
04 04 2018 18:10
                         3.046613932 17.6654745 115.2593002
04 04 2018 18:20
                         2.500529051 0
                                            121.3272018
                   0
04 04 2018 18:30
                                            118.2375031
                   0
                         2.232144117 0
04 04 2018 18:40
                   0
                         1.949422002 0
                                            120.5589981
04 04 2018 18:50
                   0
                         1.710422993 0
                                            110.7360001
04 04 2018 19:00
                   0
                         2.212670088 0
                                            127.6598969
04 04 2018 19:10
                         3.383642912 40.05112389 146.5254059
```

```
4.226002216 166.14619
04 04 2018 19:20
                                                167.3363037
                  0
04 04 2018 19:30
                  0
                        3.661847115 72.22243591 181.3970032
04 04 2018 19:40
                        3,775537014 88,93379726 182,8759003
                  0
04 04 2018 19:50
                  0
                        3.103313923 20.15994687 169.6412048
04 04 2018 20:00
                  0
                        3.533242941 55.81161683 163.1772003
04 04 2018 20:10
                        3.399703979 41.57158904 158.1437073
04 04 2018 20:30
                  0
                        4.252707958 171.4102997 0
04 04 2018 20:40
                  0
                        4.396650791 200.4387141 164.278595
04 04 2018 20:50
                  165.3455048 4.61307621 246.3254151 158.2823029
                  292.8547974 5.190587997 384.2380002 161.3182068
04 04 2018 21:00
04 04 2018 21:10
                  320.788208 5.442101002 452.4973969 162.5233002
                  188.3654938 4.673361778 259.6239595 164.2306976
04 04 2018 21:20
04 04 2018 21:30
                  146.8076019 4.279691219 176.7668441 168.854599
04 04 2018 21:40
                  137.3623962 4.45760107 213.078804 169.8043976
04 04 2018 21:50 60.76042938 3.738363028 83.24201372 172.3231964
04 04 2018 22:00 191.3363037 4.527519226 227.8474207 173.1876984
04 04 2018 22:10
                  175.7256012 4.341711998 189.2259902 172.5092926
04 04 2018 22:20
                 45.59679031 3.252230883 29.1610217 173.6054993
                 47.54854965 3.363707066 38.22125246 169.3690033
04 04 2018 22:30
                  92.80470276 3.798734903 92.59771257 165.1732025
04 04 2018 22:40
                  61.27927017 3.339313984 36.06876586 168.0527039
04 04 2018 22:50
                 8.942893982 2.733911991 0
04 04 2018 23:00
                                                170.2427979
04 04 2018 23:10
                  0
                        3.446755886 46.26345409 183.8363953
04 04 2018 23:20
                  15.10077
                              3.434834003 45.04113695 184.1737061
04 04 2018 23:30
                  25.27079964 3.187829018 24.83290775 187.1564941
04 04 2018 23:40
                  24.20339012 2.942948103 0
                                                190.7026062
04 04 2018 23:50
                 43.48077011 3.311708927 33.74768209 197.6459045
05 04 2018 00:00
                              3.624682903 67.20815128 212.3450012
                 44.658741
05 04 2018 00:10
                        4.322577
                                    185.3598393 216.9960022
05 04 2018 00:20
                  0
                        6.038083076 636.9112812 217.389801
05 04 2018 00:30
                        6.320476055 737.5395199 217.665802
                  0
05 04 2018 00:40
                  0
                        6.152337074 676.5959819 219.634201
05 04 2018 00:50
                        6.634365082 859.5601432 221.9575043
05 04 2018 01:00
                        7.587986946 1303.626558 219.6078033
                  0
                        7.354328156 1183.824586 214.7089996
05 04 2018 01:10
                  0
05 04 2018 01:20
                  0
                        6.744506836 905.0065722 216.0523071
05 04 2018 01:30
                  0
                        6.775251865 917.9448846 217.3451996
05 04 2018 01:40
                        6.530632973 818.0255275 216.6069946
05 04 2018 01:50
                        6.439192772 782.4099298 213.9846954
                        6.441345215 783.2376851 213.5142059
05 04 2018 02:00
05 04 2018 02:10
                        6.360676765 752.5620428 216.6472931
                        6.479712963 798.0782009 215.1817932
05 04 2018 02:20
                  0
05 04 2018 02:30
                        5.935389996 603.4079801 218.3347931
                  0
05 04 2018 02:40
                  0
                        6.173521996 684.1076491 220.3688965
05 04 2018 02:50
                  0
                        6.793660164 925.74505
                                              220.3674927
05 04 2018 03:00
                        6.904799938 973.7025907 219.3603973
05 04 2018 03:10
                  0
                        7.509808064 1263.034733 220.6376038
                        7.364696026 1188.998547 221.3834991
05 04 2018 03:20
                  0
05 04 2018 03:30
                  0
                        6.895311832 969.5498185 222.107193
05 04 2018 03:40
                  0
                        5.999018192 624.6693258 224.3063965
05 04 2018 03:50
                  0
                        6.435976028 781.17383
                                               224.7393036
05 04 2018 04:00
                        5.900499821 591.9320313 227.2411957
05 04 2018 04:10
                        6.762965202 912.7609712 232.7440948
05 04 2018 04:20
                        6.296631813 728.711869 232.7075958
05 04 2018 04:30
                  30.55501938 5.485908985 464.9554877 226.6152039
05 04 2018 04:40
                  334.8815002 5.555982113 485.2492546 222.3703003
05 04 2018 04:50 251.3403931 4.954992771 325.0193082 222.1728973
05 04 2018 05:00 255.2713928 4.95736599 325.5944983 225.0702057
05 04 2018 05:10 192.7624054 4.721814156 270.4845334 221.3083954
```

```
118.6547012 4.551884174 233.0633311 207.0953979
05 04 2018 05:20
05 04 2018 05:30
                         4.287170887 178.2584577 201.2046967
                  0
05 04 2018 05:40
                         3.814333916 95.1098634 202.4131012
                   0
05 04 2018 05:50
                  19.27045059 3.168998003 23.6927621 209.3583984
05 04 2018 06:00
                   59.12170029 3.555598021 58.47426949 205.4407043
05 04 2018 06:10
                   112.7419968 4.267928123 174.4270065 209.5330048
05 04 2018 06:20
                   8.936610222 2.940624952 0
                                                  215.7913971
05 04 2018 06:30
                   28.78063965 3.112595081 20.61725479 212.8798065
05 04 2018 06:40
                   82.01509857 4.154898167 152.3070013 209.3361969
                   4.953939915 2.685621977 0
05 04 2018 06:50
                                                  211.6802063
05 04 2018 07:00
                   13.04078007 3.047039032 17.68226267 211.9411011
05 04 2018 07:10
                         3.114836931 20.72978346 214.9109955
05 04 2018 07:20
                         3.034955978 17.21634494 210.3368988
05 04 2018 07:30
                   0
                         1.823503017 0
                                            211.2962952
05 04 2018 07:40
                         2.666775942 0
                                            231.3654938
                   0
05 04 2018 07:50
                   0
                         1.548519015 0
                                            231.5876007
05 04 2018 08:00
                  0
                         1.422695994 0
                                           49.67253113
05 04 2018 08:10
                   0
                                           97.50512695
                         1.48100698 0
05 04 2018 08:20
                   0
                         1.345474958 0
                                           41.44522095
05 04 2018 08:30
                   0
                         2.622786999 0
                                           178.864502
05 04 2018 08:40
                         2.824688911 0
                                           132.2433929
                   0
05 04 2018 08:50
                   0
                         2.057193995 0
                                           85.33863068
05 04 2018 09:00
                   0
                         2.014220953 0
                                            52.25629044
05 04 2018 09:10
                   0
                         1.819259048 0
                                           60.21614075
05 04 2018 09:20
                   0
                         1.650668025 0
                                           72.17769623
05 04 2018 09:30
                         1.82128799
                                            66.18083954
05 04 2018 09:40
                         1.345867991 0
                                            64.39572144
                   0
05 04 2018 09:50
                         1.660879016 0
                                            47.43016815
                   0
05 04 2018 10:00
                   0
                         1.76997602
                                            322.9187927
05 04 2018 10:10
                   0
                         1.033583999 0
                                            176.6419067
05 04 2018 10:20
                   0
                         2.15336895 0
                                            331.0159912
05 04 2018 10:30
                   0
                         2.134129047 0
                                            303.3237
05 04 2018 10:40
                                            9.86928463
                   0
                         1.986127973 0
05 04 2018 10:50
                         1.182641029 0
                                           15.92035007
                   0
05 04 2018 11:00
                                            14.97297955
                   0
                         1.893103957 0
05 04 2018 11:10
                   0
                         2.004484892 0
                                            50.71255875
05 04 2018 11:20
                   0
                         0.847927809 0
                                            77.63597107
05 04 2018 11:30
                   0
                         1.973265052 0
                                            37.09540939
05 04 2018 11:40
                         1.64169395
                                           68.05342865
05 04 2018 11:50
                         1,625486016 0
                                            45.19153976
05 04 2018 12:00
                         1.113690019 0
                                            47.42314148
                   0
05 04 2018 12:10
                                            47.22695923
                   0
                         1.332098961 0
05 04 2018 12:20
                         1.683753967 0
                   0
                                            36.85643005
05 04 2018 12:30
                   0
                                            25.28133965
                         1.68838501
                                     0
05 04 2018 12:40
                   0
                         2.095264912 0
                                            20.04507065
05 04 2018 12:50
                   0
                         2.259649992 0
                                            25.0077095
05 04 2018 13:00
                   0
                         2.221266985 0
                                            346.2373047
                                            9.038106918
05 04 2018 13:10
                   0
                         1.431684971 0
05 04 2018 13:20
                   0
                         1.601379037 0
                                            350.6373901
05 04 2018 13:30
                   0
                         1.756507039 0
                                            9.181808472
05 04 2018 13:40
                   0
                         1.388599992 0
                                            342.2614136
05 04 2018 13:50
                         1.634132981 0
                                            342.5414124
05 04 2018 14:00
                         0.963168204 0
                                            312.9330139
05 04 2018 14:10
                         1.021410942 0
                                            304.7854919
                   0
05 04 2018 14:20
                                            330.2557068
                   0
                         1.212609053 0
05 04 2018 14:30
                   0
                         1.599094033 0
                                            243.7344971
05 04 2018 14:40
                   0
                         1.252200961 0
                                            258.0953979
05 04 2018 14:50
                   0
                         1.253937006 0
                                            303.0663147
05 04 2018 15:00
                   0
                         0.822079599 0
                                            261.3063965
```

```
05 04 2018 15:10
                         0.955834389 0
                                            19.85206985
                   0
05 04 2018 15:20
                   0
                         1.676247954 0
                                            330.276001
05 04 2018 15:30
                         1.275360942 0
                                            336,6243896
                   0
05 04 2018 15:40
                  0
                         0.603402078 0
                                            293.012085
05 04 2018 15:50
                   0
                         0.92033118
                                     0
                                            35.1786499
05 04 2018 16:00
                   0
                         1.646146059 0
                                            64.83058929
05 04 2018 16:10
                   0
                         1.554466009 0
                                            59.0524292
                                            22.85848045
05 04 2018 16:20
                   0
                         1.485684037 0
05 04 2018 16:30
                   0
                         1.511152029 0
                                            20.07815933
05 04 2018 16:40
                   0
                         2.736673117 0
                                            42,48802948
05 04 2018 16:50
                         3.250915051 29.06595062 45.01369858
                   0
05 04 2018 17:00
                         3.124209881 21.20896375 42.19144058
05 04 2018 17:10
                         3.095206976 19.77177269 41.05989075
05 04 2018 17:20
                   0
                         3.0179739
                                     16.60100968 46.07662964
05 04 2018 17:30
                         3.151187897 22.6666351 59.94036865
                   0
05 04 2018 17:40
                   0
                         3.114233017 20.69939112 50.2759285
05 04 2018 17:50
                   0
                         2.988039017 0
                                            57.71422958
05 04 2018 18:00
                   0
                         3.058208942 18.13374864 62.64012146
                   0
                         3.017815113 16.59547388 74.05638885
05 04 2018 18:10
05 04 2018 18:20
                   0
                         3.297261953 32.58155602 96.65759277
05 04 2018 18:30
                         2.068490982 0
                                            101.2687988
                   0
05 04 2018 18:40
                   0
                         1.545814991 0
                                            114.1947021
05 04 2018 18:50
                   0
                         1.285470009 0
                                            135.2808075
                                            187.9447937
05 04 2018 19:00
                   0
                         0.918170214 0
05 04 2018 19:10
                   0
                         0.889255404 0
                                            237.251297
05 04 2018 19:20
                         1.285076976 0
                                            211.6226044
05 04 2018 19:30
                         1.652264953 0
                                            268.8934021
                   0
05 04 2018 19:40
                         1.147464991 0
                                            274.3229065
                   0
05 04 2018 19:50
                   0
                         1.292122006 0
                                            248.6620026
05 04 2018 20:00
                   0
                         1.633748055 0
                                            238.2597046
05 04 2018 20:10
                   0
                         1.833950996 0
                                            235.9394989
05 04 2018 20:20
                   0
                         1.624531031 0
                                            243.0193024
05 04 2018 20:30
                                            252.3773041
                   0
                         1.609451056 0
                         1.722430944 0
05 04 2018 20:40
                                            263.0675049
                   0
05 04 2018 20:50
                                            255.7501984
                   0
                         1.314146996 0
05 04 2018 21:00
                   0
                         0.715756416 0
                                            250.1484985
05 04 2018 21:10
                   0
                         0.205178499 0
                                            270.0083923
                                            352.377594
05 04 2018 21:20
                   0
                         0.225501701 0
05 04 2018 21:30
                         0.311726689 0
                                            351.1541138
05 04 2018 21:40
                         0.344043911 0
                                            350.3212891
05 04 2018 21:50
                         0.632112682 0
                                            358.1314087
                   0
05 04 2018 22:00
                                            42.30113983
                   0
                         0.92684418
                                     0
05 04 2018 22:10
                                            47.07389069
                   0
                         1.387261033 0
05 04 2018 22:20
                  0
                                            50.41112137
                         1.401273966 0
05 04 2018 22:30
                                            41.25542068
                   0
                         1.249232054 0
05 04 2018 22:40
                   0
                         1.468521953 0
                                            42.56192017
05 04 2018 22:50
                   0
                         1.478754997 0
                                            38.99235153
05 04 2018 23:00
                   0
                         1.295524955 0
                                            37.07875824
05 04 2018 23:10
                   0
                         1.621847034 0
                                            45.93610001
05 04 2018 23:20
                   0
                         1.78845799
                                     0
                                            61.20767975
05 04 2018 23:30
                   0
                         1.604668975 0
                                            86.0771637
05 04 2018 23:40
                         1.568004966 0
                                            111.6903992
05 04 2018 23:50
                         1.360456944 0
                                            119.8514023
06 04 2018 00:00
                         1.499783993 0
                                            121.8360977
                   0
06 04 2018 00:10
                         1.344751954 0
                                            125.1445999
                   0
06 04 2018 00:20
                   0
                         1.044082999 0
                                            103.3637009
06 04 2018 00:30
                   0
                         1.259582996 0
                                            94.88751984
06 04 2018 00:40
                   0
                         1.549780011 0
                                            90.60146332
06 04 2018 00:50
                   0
                         1.647704959 0
                                            75.93405151
```

```
06 04 2018 01:00
                         1.994024038 0
                                            70.71159363
                   0
06 04 2018 01:10
                   0
                         1.643854976 0
                                            83.01087189
06 04 2018 01:20
                   0
                         1.366343021 0
                                            94.52765656
06 04 2018 01:30
                  0
                         1.323290944 0
                                            88.63854218
06 04 2018 01:40
                   0
                         1.94064796
                                     0
                                            63.60498047
06 04 2018 01:50
                         1.994631052 0
                                            55.51622009
06 04 2018 02:00
                   0
                         1.306985021 0
                                            70.25171661
06 04 2018 02:10
                   0
                         1.653543949 0
                                            54.16970825
06 04 2018 02:20
                   0
                         1.870903015 0
                                            49.68426895
06 04 2018 02:30
                   0
                         2.114643097 0
                                            43.33689117
06 04 2018 02:40
                   0
                         2.027036905 0
                                            42.45722961
06 04 2018 02:50
                         1.807157993 0
                                            44.87553024
06 04 2018 03:00
                         1.404284
                                            44.99898148
06 04 2018 03:10
                   0
                         1.267490983 0
                                            39.94390869
06 04 2018 03:20
                                            40.77605057
                   0
                         1.135167003 0
06 04 2018 03:30
                   0
                         0.987798274 0
                                            46.95035934
06 04 2018 03:40
                  0
                         0.934548795 0
                                            34.06901932
06 04 2018 03:50
                   0
                         1.132163048 0
                                            32.92147064
06 04 2018 04:00
                   0
                         1.295382023 0
                                            41.44678116
06 04 2018 04:10
                   0
                         1.016599059 0
                                            40.60115814
06 04 2018 04:20
                         1.17475903
                                            36.72948074
                   0
                                     0
06 04 2018 04:30
                   0
                         1.033907056 0
                                            22.81653976
06 04 2018 04:40
                   0
                         1.319584012 0
                                            32.56650162
06 04 2018 04:50
                   0
                         1.638090014 0
                                            39.02820969
06 04 2018 05:00
                   0
                                            44.70592117
                         1.726698995 0
06 04 2018 05:10
                         1.575881958 0
                                            43.2334404
06 04 2018 05:20
                         1.361729026 0
                                            61.91641998
06 04 2018 05:30
                         0.965211928 0
                                            72.56897736
                   0
06 04 2018 05:40
                   0
                         1.057382941 0
                                            68.83499908
06 04 2018 05:50
                   0
                         0.568897426 0
                                            102.0561981
06 04 2018 06:00
                   0
                         0.569039881 0
                                            15.70705986
06 04 2018 06:10
                   0
                         0.898887217 0
                                            123.2807007
06 04 2018 06:20
                         0.648712814 0
                                            299.4812927
06 04 2018 06:30
                         0.48364681
                                            172.4445038
                   0
06 04 2018 06:40
                   0
                         0.529163897 0
                                            141.0377045
06 04 2018 06:50
                   0
                         0.677442312 0
                                            72.78105164
06 04 2018 07:00
                   0
                         0.676248789 0
                                            53.54878998
06 04 2018 07:10
                   0
                         1.474804997 0
                                            64.97337341
06 04 2018 07:20
                         1.903517008 0
                                            49.89461136
06 04 2018 07:30
                         1.867328048 0
                                            57.93983078
06 04 2018 07:40
                         1.760143042 0
                                            80.68697357
                   0
06 04 2018 07:50
                   0
                         1.955592036 0
                                            62.81933975
06 04 2018 08:00
                   0
                         1.935693026 0
                                            39.40224075
06 04 2018 08:10
                   0
                         1.844634056 0
                                            65.11167145
06 04 2018 08:20
                   0
                         1.216048956 0
                                            55.57960129
06 04 2018 08:30
                   0
                         1.008708954 0
                                            83.67445374
06 04 2018 08:40
                   0
                         1.071426034 0
                                            74.89758301
06 04 2018 08:50
                   0
                         1.326794982 0
                                            70.12052917
06 04 2018 09:00
                   0
                         1.274616957 0
                                            73.56829834
06 04 2018 09:10
                   0
                         0.697768688 0
                                            101.178299
06 04 2018 09:20
                   0
                         1.30440104 0
                                            94.94184875
06 04 2018 09:30
                   0
                         1.32714498
                                            79.04499817
06 04 2018 09:40
                         1.298658013 0
                                            71.8783493
06 04 2018 09:50
                         2.401484966 0
                                            66.05552673
                   0
06 04 2018 10:00
                   0
                         2.247996092 0
                                            71.66732025
06 04 2018 10:10
                   0
                         3.682837009 75.15209482 82.17627716
06 04 2018 10:20
                  13.18500996 3.404211998 42.00577108 89.82391357
                   22.57613945 3.160290003 23.18471089 89.57042694
06 04 2018 10:30
06 04 2018 10:40
                  87.54579926 4.157712936 152.8500671 81.20819855
```

```
28.43746948 3.270849943 30.53597352 81.96665192
06 04 2018 10:50
                 58.5125618 3.724236965 81.13711742 79.51470947
06 04 2018 11:00
                 90.44004059 4.172620773 155.7327977 77.46762085
06 04 2018 11:10
06 04 2018 11:20
                 111.1205978 4.422986031 205.8739464 77.86643982
                 124.053299 4.433846951 208.1270798 72.7414093
06 04 2018 11:30
06 04 2018 11:40
                 137.8128967 4.325388908 185.9267223 69.26019287
06 04 2018 11:50
                 115.5227966 4.32144022 185.1307856 74.8821106
                 113.8851013 4.328178883 186.4896085 79.39418793
06 04 2018 12:00
06 04 2018 12:10
                 88.95439911 3.729727983 81.95152986 82.95123291
                 158.2826996 4.583516121 239.8895979 78.18934631
06 04 2018 12:20
06 04 2018 12:30
                 168.8200073 4.612361908 246.1692453 71.41533661
06 04 2018 12:40
                 230.1884003 4.933320045 319.7859275 69.10089111
06 04 2018 12:50
                 427.8207092 5.857377052 577.9244129 63.24657059
06 04 2018 13:00 471.1509094 6.065041065 646.1490766 55.97863007
06 04 2018 13:10 409.773407 5.757468224 546.2056632 55.72990036
06 04 2018 13:20 531.2498169 6.155737877 677.7985902 59.00944901
06 04 2018 13:30
                 559.4415283 6.157001019 678.2455836 61.75991821
06 04 2018 13:40 625.8427124 6.508966923 809.5028827 57.5746994
06 04 2018 13:50
                 716.6141968 6.570349216 833.7847119 51.5856514
                 988.2512817 7.281044006 1147.695462 47.71527863
06 04 2018 14:00
                 1202.348999 7.922735214 1486.065587 45.87932968
06 04 2018 14:10
                 1031.505005 7.549589157 1283.588294 41.45584869
06 04 2018 14:20
06 04 2018 14:30
                 845.1271973 6.926003933 983.0232802 41.40505981
06 04 2018 14:40
                 760.6516724 6.600739002 845.9630089 45.35129929
06 04 2018 14:50
                 810.6826172 6.556958199 828.4514675 46.83049011
06 04 2018 15:00
                 1394.137939 8.141663551 1612.135026 50.33929825
06 04 2018 15:10
                 1965.584961 9.414042473 2413.579996 49.7179184
06 04 2018 15:20
                 2138.822021 9.775710106 2644.570986 50.89503098
                 2517.262939 10.71718979 3163.176197 51.56188965
06 04 2018 15:30
                            12.29551029 3560.604273 55.54809189
06 04 2018 15:40
                 3042.7229
06 04 2018 15:50
                 2683.215088 10.54304028 3086.062913 55.31684875
06 04 2018 16:00
                 3214.068115 12.38728046 3569.727194 61.23635864
06 04 2018 16:10
                 3600.591064 12.78528023 3594.341417 60.80657959
06 04 2018 16:20
                 3604.389893 13.97700024 3600 65.86016846
                 3604.408936 13.72202969 3600 66.12389374
06 04 2018 16:30
06 04 2018 16:40
                  3604.226074 13.36493969 3600 67.00218964
06 04 2018 16:50
                  3335.568115 11.98995018 3520.378599 64.79798126
06 04 2018 17:00
                 2946.621094 11.2761097 3361.459272 64.51223755
06 04 2018 17:10
                 2758.452881 11.03691959 3285.321973 61.02231979
06 04 2018 17:20
                 2516.552002 10.54098034 3085.103735 57.02276993
06 04 2018 17:30 2142.207031 9.888845444 2721.029798 52.10625076
06 04 2018 17:40 2035.745972 9.61817646 2530.902263 51.9758606
06 04 2018 17:50
                 1772.432007 9.101885796 2209.869126 52.99382019
06 04 2018 18:00
                 2176.24707 9.845298767 2692.100218 53.46628952
06 04 2018 18:10
                 2560.888916 10.42486954 3029.204644 56.1633606
06 04 2018 18:20
                 2862.638916 11.18410015 3333.641792 57.27877045
                 2941.013916 11.18328953 3333.388667 54.89295959
06 04 2018 18:30
                 2836.698975 11.04185009 3287.018668 54.38228989
06 04 2018 18:40
                 2496.10498 10.68342018 3148.828196 52.93265152
06 04 2018 18:50
06 04 2018 19:00
                 2270.883057 9.817889214 2673.571598 53.95822906
06 04 2018 19:10
                 2103.108887 9.533149719 2465.935412 58.28211975
06 04 2018 19:20
                 2533.047119 10.35912037 2995.921484 56.71871185
06 04 2018 19:30
                 2645.861084 10.74077034 3173.026023 60.79729843
06 04 2018 19:40
                 2671.816895 10.78394985 3190.705955 62.79198074
06 04 2018 19:50
                 2547.657959 10.23838997 2931.637809 62.74631119
06 04 2018 20:00
                 2611.104004 10.15581036 2885.236861 63.08337021
06 04 2018 20:10
                 3036.362061 11.40847969 3398.373511 65.41088867
06 04 2018 20:20
                 3529.343994 12.53361034 3581.558249 63.82442093
06 04 2018 20:30 3604.4729 13.12549973 3600 61.18981171
```

```
06 04 2018 20:40 3604.426025 13.25516987 3600 60.93357086
                  3604.36499 13.98344994 3600 61.40658951
06 04 2018 20:50
06 04 2018 21:00
                  3604.441895 13.96405029 3600
                                               62.17998886
06 04 2018 21:10
                  3604.799072 14.16189003 3600 64.75450134
06 04 2018 21:20
                  3604.383057 13.81377029 3600
                                               64.80748749
06 04 2018 21:30
                  3588.85498 13.34745979 3600 62.776371
                  3194.435059 12.57122993 3584.070382 62.18041992
06 04 2018 21:40
                  2752.438965 11.14406967 3320.971676 61.42681885
06 04 2018 21:50
06 04 2018 22:00
                  2525.153076 10.20866966 2915.169255 64.09983826
                  2483.268066 10.40207958 3017.803445 67.50702667
06 04 2018 22:10
06 04 2018 22:20
                  2674.214111 10.80076027 3197.465363 64.38680267
06 04 2018 22:30
                  2804.493896 11.2374897 3350.002512 59.68809128
06 04 2018 22:40
                 2497.373047 10.6300602 3125.568616 58.96770096
                 2350.153076 10.1626997 2889.185018 58.61273956
06 04 2018 22:50
                  2414.128906 10.48316002 3057.720692 57.17781067
06 04 2018 23:00
06 04 2018 23:10
                  2429.403076 10.18644047 2902.68234 54.6634407
06 04 2018 23:20
                  2333.801025 10.43334007 3033.40589 52.77331924
06 04 2018 23:30
                  2340.544922 10.38881969 3011.103981 53.61483002
06 04 2018 23:40
                  2118.563965 9.935109138 2751.090139 53.58882141
                  1886.553955 9.563335419 2489.296178 52.01422882
06 04 2018 23:50
                  1364.864014 8.658383369 1926.523127 50.67723083
07 04 2018 00:00
                  867.0585938 6.781816006 920.7217033 46.29275131
07 04 2018 00:10
07 04 2018 00:20
                  683.0560303 5.996345997 623.7676764 47.53644943
07 04 2018 00:30
                  589.1791992 5.70715189 530.6122394 43.20962143
07 04 2018 00:40
                  589.6375122 5.684976101 523.8193096 43.86491013
07 04 2018 00:50
                  715.9763184 5.900701046 591.9978504 43.28289032
07 04 2018 01:00
                 889.9208984 6.519807816 813.7607629 44.61592865
07 04 2018 01:10
                  1116.770996 7.400036812 1206.753476 44.98062897
07 04 2018 01:20
                 592.1640015 5.314045906 417.0632714 47.46339035
                  282.1531067 4.139291763 149.3030072 46.06657028
07 04 2018 01:30
07 04 2018 01:40
                  195.6078033 3.886624098 107.2601544 57.6584816
07 04 2018 01:50
                  458.6285095 5.45499897 456.1472233 51.0633812
07 04 2018 02:00
                  220.7942963 3.840461969 99.40488878 52.09278107
07 04 2018 02:10
                  295.2365112 4.155859947 152.4925181 48.11336136
                  238.2301025 4.05505991 133.2903386 51.00374985
07 04 2018 02:20
                  429.0185852 5.236248016 396.2291651 49.90736008
07 04 2018 02:30
07 04 2018 02:40
                  646.1165161 6.499402046 805.7570232 49.69562912
                  406.1218872 5.708553791 531.0432989 48.6281395
07 04 2018 02:50
07 04 2018 03:00
                  344.5010986 5.395021915 439.3018665 49.34907913
07 04 2018 03:10
                  442.6242065 5.86785984 581.3117549 45.0424614
07 04 2018 03:20
                  410.5047913 5.680972099 522.5979386 48.85437012
07 04 2018 03:30
                  270.4388123 4.551784992 233.0420248 52.94189835
07 04 2018 03:40
                  209.1699982 4.390995026 199.2765905 61.63785172
07 04 2018 03:50
                  16.70059967 2.564519882 0
                                                58.81005096
07 04 2018 04:00
                  5.388608932 1.619168043 0
                                                56.38521957
07 04 2018 04:10
                  0
                        2.458301067 0
                                          34.41587067
07 04 2018 04:20
                  0
                        2.186561108 0
                                          27.55200005
07 04 2018 04:30
                  0
                        1.654543042 0
                                          73.66230011
07 04 2018 04:40
                  0
                        1.422072053 0
                                          21.80509949
07 04 2018 04:50
                  0
                        1.534384012 0
                                          10.9572401
07 04 2018 05:00
                  0
                        1.64388895 0
                                          12.71022034
07 04 2018 05:10
                  0
                        1.702877998 0
                                          26.59514046
07 04 2018 05:20
                        2.013529062 0
                                          42.73046112
07 04 2018 05:30
                        1.564852953 0
                                          43.84487152
                  0
07 04 2018 05:40
                                          47.69301987
                  0
                        2.093993902 0
07 04 2018 05:50
                  0
                        2.241014004 0
                                          22.53363037
07 04 2018 06:00
                  0
                        1.678215027 0
                                          45.17322922
07 04 2018 06:10
                 0
                        2.085429907 0
                                          33.39971924
07 04 2018 06:20 0
                       2.115969896 0
                                          51.05237961
```

```
07 04 2018 06:30 0
                        2.950773954 0
                                          81,69947052
07 04 2018 06:40
                                          92.21025085
                 0
                        2.89291501 0
07 04 2018 06:50
                        3.095674038 19.79385094 105.8386002
                 0
07 04 2018 07:00 0
                        2.515578985 0
                                          116.0418015
07 04 2018 07:10 0
                        2.844858885 0
                                          103.5538025
07 04 2018 07:20
                        3.052783012 17.91194011 129.0856018
07 04 2018 07:30 0
                        3.258090973 29.58778716 94.62563324
                        2.894390106 0
07 04 2018 07:40
                 0
                                          102.7666016
07 04 2018 07:50
                 0
                        3.298207998 32.65689676 129.9062042
07 04 2018 08:00
                                          160.7926941
                 0
                        2.123322964 0
07 04 2018 08:10 0
                        2.695682049 0
                                          175.0359039
07 04 2018 08:20 0
                        2.526448011 0
                                          165.7633057
07 04 2018 08:30 0
                        2.802232027 0
                                          159.0514069
07 04 2018 08:40
                 0
                        3.650469065 70.6638104 148.3666992
07 04 2018 08:50
                 10.04652977 3.076442003 18.91361449 138.7660065
07 04 2018 09:00
                 0
                        3.143052101 22.21477953 133.4165955
07 04 2018 09:10
                 25.80664063 3.924283981 113.9211577 120.9393005
07 04 2018 09:20
                 26.33691025 3.170938015 23.80760088 115.5245972
07 04 2018 09:30
                 0.188065797 2.492939949 0
                                                126.2073975
07 04 2018 09:40
                 0
                        2.648817062 0
                                          127.2247009
07 04 2018 09:50
                        3.277309895 31.02597884 145.7017059
                 0
07 04 2018 10:00 0
                        2.924730062 0
                                         140.9253998
07 04 2018 10:10
                 0
                        2.346317053 0
                                          136.3724976
07 04 2018 10:20 0
                        1.609254956 0
                                          138.7790985
07 04 2018 10:30 0
                        2.672988892 0
                                          157.6593018
07 04 2018 10:40 0
                        1.421311975 0
                                          139.2617035
07 04 2018 10:50 0
                        1.141849995 0
                                          86.91832733
07 04 2018 11:00 0
                        1.33011198 0
                                          115.6070023
07 04 2018 11:10
                 0
                        1.533908963 0
                                          130.8903961
07 04 2018 11:20
                                          116.7693024
                 0
                        1.773911953 0
07 04 2018 11:30 0
                        3.30587697 33.27292073 60.99179077
07 04 2018 11:40 14.21282005 3.754735947 85.72165823 55.10887909
07 04 2018 11:50
                        2.389646053 0
                                          64.40097046
07 04 2018 12:00
                        3.063426018 18.35146135 58.56090927
                 0
07 04 2018 12:10
                 1.514067054 3.520097971 54.28328702 66.63995361
07 04 2018 12:20
                        2.464226007 0
                                         81.68383026
                 0
07 04 2018 12:30
                 0
                        2.337775946 0
                                          109.9035034
07 04 2018 12:40
                 0
                        2.320041895 0
                                          95.87090302
07 04 2018 12:50
                        2.362319946 0
                                          103.5430984
07 04 2018 13:00
                        3.37379694 39.13943425 89.93753052
07 04 2018 13:10
                 0
                        3.738027096 83.1915866 124.9936981
07 04 2018 13:20
                 1.186535954 2.793518066 0
                                                119.1239014
07 04 2018 13:30
                        3.568159103 60.00547265 139.4720001
                 0
07 04 2018 13:40 0
                        1.991018057 0
                                         166.9996033
07 04 2018 13:50 0
                        1.89992094 0
                                          171.113205
07 04 2018 14:00 0
                        1.520326018 0
                                          154.4665985
07 04 2018 14:10 0
                        1.217875004 0
                                          170.1040039
07 04 2018 14:20 0
                                          150.385498
                        1.864320993 0
07 04 2018 14:30
                 0
                        2.202663898 0
                                          156.6582947
07 04 2018 14:40
                 0
                        1.804451942 0
                                          157.976593
07 04 2018 14:50
                 0
                        2.445728064 0
                                          97.97781372
07 04 2018 15:00
                 99.94891357 4.807104111 289.9871677 51.60411072
07 04 2018 15:10
                  206.3643036 4.559329987 234.6645695 60.4053688
07 04 2018 15:20
                 262.6521912 5.052458763 348.9923217 143.934494
07 04 2018 15:30
                 462.8886108 5.550662994 483.6927788 154.2951965
07 04 2018 15:40
                 423.4509888 5.452055931 455.3130873 162.9403992
07 04 2018 15:50
                 31.80933952 3.003547907 16.11454003 176.2055969
07 04 2018 16:00 0 1.516929984 0
                                         166.8368988
07 04 2018 16:10 0
                       2.211613894 0
                                          174.4369965
```

```
07 04 2018 16:20 0
                       2.56934309 0
                                         70.11225891
                       4.029778957 128.54859 52.78889084
07 04 2018 16:30 0
07 04 2018 16:40 423.0606079 6.21084404 697.4580407 51.64546967
07 04 2018 16:50 696.736084 6.627437115 856.7482095 48.48485947
07 04 2018 17:00 465.6901855 5.720040798 534.58266 61.01084137
07 04 2018 17:10 594.7329712 6.35737896 751.3230904 75.87303162
07 04 2018 17:20
                 465.5291138 6.068834782 647.4553165 50.84907913
                 543.8087158 6.426767826 777.6416695 38.42311096
07 04 2018 17:30
07 04 2018 17:40
                 1036.421021 7.576155186 1297.43138 35.59140015
07 04 2018 17:50
                 1043.134033 7.420760155 1217.250777 36.715271
07 04 2018 18:00
                 619.2670288 5.954389095 609.7112387 38.92465973
07 04 2018 18:10
                 1155.546021 7.261791229 1138.330609 37.81962967
07 04 2018 18:20
                 1284.468994 7.463478088 1239.092907 41.93806076
07 04 2018 18:30 818.0324097 6.519173145 813.5111286 51.17070007
07 04 2018 18:40 610.5310059 7.39015007 1201.767896 38.38589096
07 04 2018 18:50 0
                       6.168325901 682.2607935 52.21981049
07 04 2018 19:00 0
                       5,479833126 463,2172048 56,47806931
07 04 2018 19:10 109.5518036 4.320290089 184.899113 52.56071854
07 04 2018 19:20 202.3603973 4.627208233 249.4218269 49.9310112
                 97.42539978 3.886274099 107.1993135 54.63626862
07 04 2018 19:30
07 04 2018 19:40
                 383.7955017 5.453100204 455.6089726 30.93456078
                 856.0427246 7.668058872 1346.027009 25.43880081
07 04 2018 19:50
07 04 2018 20:00
                 1157.343994 8.229838371 1664.233439 30.23144913
07 04 2018 20:10 624.0172119 6.341259956 745.2843359 56.11677933
07 04 2018 20:20 0
                       6.659817219 869.9377897 51.21360016
07 04 2018 20:30 0
                       7.696640968 1361.358257 35.26480865
07 04 2018 20:40 519.5131226 8.323843956 1720.540518 35.39435959
07 04 2018 20:50 1426.939941 8.404411316 1769.386068 35.71273041
07 04 2018 21:00 1255.475952 7.945890903 1499.16451 41.52098083
07 04 2018 21:10 1488.574951 8.489458084 1821.496827 34.35211945
07 04 2018 21:20 1445.390991 8.248366356 1675.270499 40.47425842
07 04 2018 21:30 1427.324951 8.282092094 1695.43816 42.1787796
07 04 2018 21:40 1632.062988 8.667020798 1931.943358 38.25202942
07 04 2018 21:50 1488.874023 8.257929802 1680.979273 38.97076035
07 04 2018 22:00 1386.022949 8.413476944 1774.914643 35.89485168
07 04 2018 22:10
                 1533.636963 8.462758064 1805.078441 40.50947189
07 04 2018 22:20
                 1555.892944 8.398412704 1765.731407 44.73426056
07 04 2018 22:30
                 1492.022949 8.377878189 1753.242199 39.3827095
07 04 2018 22:40 1624.749023 8.52063942 1840.736363 36.93111038
07 04 2018 22:50 1341.588013 8.014927864 1538.556846 35.55992889
07 04 2018 23:00 1357.743042 8.024645805 1544.141798 34.84342957
07 04 2018 23:10 1277.817993 7.892326832 1468.952744 30.55075073
07 04 2018 23:20
                 1143.828979 7.73000288 1379.380784 32.36495972
07 04 2018 23:30
                 1236.703003 7.968746185 1512.150004 33.40221024
07 04 2018 23:40 984.1035767 7.365166187 1189.233547 35.67259979
07 04 2018 23:50
                 741.8922119 6.53903389 821.3442336 34.19129944
08 04 2018 00:00 624.9882202 6.245977879 710.1621742 32.68175888
08 04 2018 00:10
                 517.4511719 6.018939018 630.3982803 29.7899704
                 323.6369934 5.153384209 374.5942887 23.59999084
08 04 2018 00:20
08 04 2018 00:30
                 216.4467926 4.815234184 291.8724178 16.05055046
08 04 2018 00:40
                 223.2422943 4.652980804 255.1017642 14.08800983
08 04 2018 00:50 50.90940094 3.649271965 70.50102965 16.02076912
08 04 2018 01:00
                 109.8758011 4.284657001 177.7568012 15.29609013
08 04 2018 01:10
                 102.8679962 4.372391224 195.4666787 20.46619034
08 04 2018 01:20
                 66.87506104 4.142021179 149.8275231 27.74571991
08 04 2018 01:30
                 29.41747093 3.66970706 73.3112296 42.4870491
08 04 2018 01:40 70.2441864 3.924748898 114.0048066 47.68827057
08 04 2018 01:50 113.0860977 4.136703968 148.8060402 58.66128922
08 04 2018 02:00 113.3254013 4.173090935 155.8238913 69.03418732
```

```
08 04 2018 02:10 4.430929184 2.576780081 0
                                               83.8539505
08 04 2018 02:20 0
                       2.216881037 0
                                         92.91636658
08 04 2018 02:30 0
                       1.913987041 0
                                         108.722702
08 04 2018 02:40 0
                       3.538002014 56.37175783 106.0391998
08 04 2018 02:50 0
                       2.671765089 0
                                         104.3153
08 04 2018 03:00 0
                       2.9723351
                                   0
                                         116.0463028
08 04 2018 03:10 0
                       3.40477109 42.05984566 112.802597
08 04 2018 03:20 8.783929825 3.248269081 28.87561353 102.5299988
08 04 2018 03:30 0
                       3.274395943 30.80412084 115.6240005
08 04 2018 03:40 0
                       2.764915943 0
                                         91.98298645
08 04 2018 03:50 0
                       2.881678104 0
                                         85.71367645
08 04 2018 04:00 0
                       2.436965942 0
                                         76.43943024
08 04 2018 04:10 0
                       1.933184981 0
                                         90.93501282
                                         92.75467682
08 04 2018 04:20 0
                       1.668234944 0
08 04 2018 04:30 0
                       2.045245886 0
                                         91.22841644
08 04 2018 04:40 0
                       2.259025097 0
                                         90.5025177
08 04 2018 04:50 0
                       2.276432037 0
                                         105.8075027
08 04 2018 05:00 0
                       3.747507095 84.62157566 93.22460175
08 04 2018 05:10 133.8204041 4.718241215 269.6783255 67.36116791
08 04 2018 05:20 -0.00126667 3.316337109 34.12832078 77.25485229
08 04 2018 05:30 89.41174316 3.676733017 74.29286264 59.21987915
08 04 2018 05:40 0
                                         87.9233017
                       2.666649103 0
08 04 2018 05:50 75.90888977 4.650319099 254.5131726 45.69763184
08 04 2018 06:00 247.9866028 4.84832716 299.5942039 31.49658012
08 04 2018 06:10 414.0896912 5.46378994 458.6434938 37.81805038
08 04 2018 06:20 774.1757813 6.403134823 768.6188493 71.09268188
08 04 2018 06:30 1375.909058 7.724874973 1376.601785 78.09113312
08 04 2018 06:40 1533.962036 8.229196548 1663.851655 67.0841217
08 04 2018 06:50 839.4232178 6.048242092 640.3833908 89.44396973
08 04 2018 07:00 887.4918823 6.986474037 1009.911509 52.2621994
08 04 2018 07:10 1197.563965 7.735404015 1382.311303 46.33592987
08 04 2018 07:20 1200.157959 8.090353966 1582.155475 43.40758896
08 04 2018 07:30 794.5020142 7.016033173 1023.222699 42.18227005
08 04 2018 07:40 1338.740967 8.188462257 1639.697087 36.10424042
08 04 2018 07:50 1681.296997 8.783470154 2005.448425 42.81404114
08 04 2018 08:00 1225.878052 7.443818092 1229.006276 56.13908005
08 04 2018 08:10 1163.203979 7.459098816 1236.841019 57.78873825
08 04 2018 08:20 2087.283936 9.352211952 2373.063658 61.00946045
08 04 2018 08:30 1489.036987 8.060918808 1565.073044 53.96168137
08 04 2018 08:40 2588.900879 10.23591995 2930.278946 47.82167816
08 04 2018 08:50 1297.703003 7.780145168 1406.721438 47.94649887
08 04 2018 09:00 1571.984985 8.197922707 1645.293489 43.31446075
08 04 2018 09:10 885.5825195 6.605601788 847.9213946 48.92745972
08 04 2018 09:20 2296.741943 9.705905914 2595.258129 48.62958908
08 04 2018 09:30 2700.746094 11.12209034 3313.866288 47.73680878
08 04 2018 09:40 2906.675049 11.34817028 3382.001879 49.84363174
08 04 2018 09:50 2913.64502 11.39144993 3393.825532 48.65771103
08 04 2018 10:00 2680.327881 10.81147003 3201.73585 49.33140182
08 04 2018 10:10 1695.880005 8.523404121 1842.445587 54.24581146
08 04 2018 10:20
                 3426.676025 13.43295002 3600 50.02207947
08 04 2018 10:30 3239.925049 12.45133972 3575.312918 48.52960968
08 04 2018 10:40 2496.841064 10.14927006 2881.47563 49.94715881
08 04 2018 10:50
                 3084.964111 11.8006897 3487.497301 48.15884018
08 04 2018 11:00 3111.601074 11.96562958 3516.503972 45.63169098
08 04 2018 11:10
                 1414.991943 7.630815983 1326.203915 48.4749794
08 04 2018 11:20 1711.850952 8.003042221 1531.73934 55.13243103
08 04 2018 11:30 2780.083984 10.65826035 3137.951339 57.47533035
08 04 2018 11:40 3058.215088 12.01889992 3524.858406 50.17885971
08 04 2018 11:50 676.9968872 10.56653023 3096.921631 55.1219101
```

```
08 04 2018 12:00 1523.251953 11.06801987 3295.932679 56.26190186
08 04 2018 12:10
                 2861.39209 10.43546009 3034.454314 54.19641113
08 04 2018 12:20
                 3505.936035 12.7947197 3594.639118 55.78519821
08 04 2018 12:30
                 3102.934082 11.21278954 3342.509242 57.32752991
08 04 2018 12:40
                 3252.403076 11.82680988 3492.412452 59.78863907
08 04 2018 12:50
                 2340.075928 9.446955681 2435.169399 58.40525055
                 1564.38501 8.067786217 1569.050786 61.39360809
08 04 2018 13:00
                 1010.695984 6.73448801 900.8143925 79.44444275
08 04 2018 13:10
08 04 2018 13:20
                 747.9544067 6.125599861 667.1841195 92.62976837
                 993.7999268 6.714517117 892.4929762 78.38259125
08 04 2018 13:30
08 04 2018 13:40
                 1537.817993 7.76292181 1397.296327 80.36549377
08 04 2018 13:50
                 843.6242065 6.018153191 630.1317711 83.9631424
08 04 2018 14:00
                 594.9639282 5.716341019 533.4412645 84.67756653
08 04 2018 14:10
                 702.0595703 6.136032104 670.8473186 77.52160645
08 04 2018 14:20
                 721.0137939 6.364199162 753.8866768 69.9421463
08 04 2018 14:30
                572.0681152 5.857408047 577.9344114 71.70909882
08 04 2018 14:40
                 562.4658813 5.821167946 566.3112393 60.62894821
08 04 2018 14:50
                 526.477478 5.724545956 535.9743483 59.17399979
08 04 2018 15:00
                 364.1805115 5.323503017 419.6310686 61.27326965
                 461.575592 5.611948013 501.7877251 61.90377045
08 04 2018 15:10
                 487.1924133 5.558030128 485.8492505 58.92509079
08 04 2018 15:20
                 634.522583 5.903254032 592.83328
08 04 2018 15:30
                                                    48.15401077
08 04 2018 15:40
                 499.0227051 5.49674511 468.06406
                                                     39.72925949
08 04 2018 15:50
                 602.8519287 5.985154152 619.9996988 44.99710083
08 04 2018 16:00
                 568.1925049 5.875626087 583.8286427 49.97945023
08 04 2018 16:10
                 641.8574219 6.118012905 664.5273262 49.26221848
08 04 2018 16:20 818.1641235 6.634241104 859.5097748 54.2114296
                 1291.378052 7.806004047 1420.937819 52.0890007
08 04 2018 16:30
08 04 2018 16:40 2145.475098 9.876426697 2712.842706 45.40644836
                 1444.520996 7.989568233 1524.028513 46.88301086
08 04 2018 16:50
08 04 2018 17:00
                 1037.271973 7.19240284 1105.007209 55.72653961
08 04 2018 17:10
                 1285.967041 7.699203014 1362.737467 58.43585968
08 04 2018 17:20
                 1281.324951 7.593327999 1306.429149 60.84761047
08 04 2018 17:30
                 1803.128052 9.126412392 2225.782214 56.67950821
                 2793.570068 10.87710953 3227.305418 56.02812958
08 04 2018 17:40
08 04 2018 17:50
                 2529.023926 10.44559002 3039.446994 57.09049988
08 04 2018 18:00
                 2203.669922 9.85255909 2696.966626 50.18901062
08 04 2018 18:10
                 2293.335938 10.04386997 2819.078841 48.63650894
08 04 2018 18:20
                 2231.287109 10.11874962 2863.754207 50.2868309
08 04 2018 18:30 2408.47998 10.17022991 2893.484279 47.82357025
08 04 2018 18:40 2597.10498 10.78534031 3191.267669 50.08031082
08 04 2018 18:50 2111.708984 9.412219048 2412.384328 52.51094818
08 04 2018 19:00 2730.824951 10.61236954 3117.696525 51.71715927
08 04 2018 19:10
                 3270.408936 12.22134972 3552.251298 49.07009125
                 3149.352051 11.99767017 3521.587247 50.22943115
08 04 2018 19:20
08 04 2018 19:30
                 3047.316895 12.13175964 3540.96865 53.05007172
                 2843.039063 11.46846962 3413.930277 52.79679108
08 04 2018 19:40
                 3304.062012 11.97152996 3517.453352 54.85855865
08 04 2018 19:50
08 04 2018 20:00
                 2776.138916 11.23299026 3348.647204 59.11904907
08 04 2018 20:10
                 2593.321045 10.32781982 2979.653276 60.65956879
08 04 2018 20:20
                 3020.801025 11.31838989 3373.642923 63.41094971
08 04 2018 20:30
                 3153.824951 11.85276985 3497.176339 70.59075928
08 04 2018 20:40
                 2978.852051 11.38634968 3392.452025 72.20049286
08 04 2018 20:50
                 2556.616943 10.53995037 3084.623726 75.61917877
08 04 2018 21:00
                 1458.392944 7.736889839 1383.118093 82.78132629
08 04 2018 21:10 569.0230103 5.65358305 514.2851849 80.15905762
08 04 2018 21:20 921.7106934 7.26575613 1140.254938 76.06630707
08 04 2018 21:30 676.8082886 6.537261009 820.6432167 74.02311707
08 04 2018 21:40 633.2224121 6.589056969 841.2692526 64.74536896
```

```
08 04 2018 21:50 736.7025757 6.790246964 924.2957338 64.81065369
08 04 2018 22:00 597.5703735 6.116743088 664.0832637 69.02308655
08 04 2018 22:10
                 567.5181885 6.140063763 672.26612
                                                     70.16285706
08 04 2018 22:20 358.0375977 5.344582081 425.3822929 70.05840302
08 04 2018 22:30 228.8825989 4.727956772 271.8725729 75.62564087
08 04 2018 22:40 33.24349976 3.474255085 49.16959357 78.45388031
08 04 2018 22:50
                 13.97539043 3.437341928 45.2963787 63.34603119
                 461.1077881 5.741304874 541.169043 56.55611038
08 04 2018 23:00
08 04 2018 23:10
                 632.1489258 6.383441925 761.1469512 69.72131348
                 507.3857117 6.065265179 646.2261999 71.638237
08 04 2018 23:20
08 04 2018 23:30
                 457.2706909 5.981679916 618.8327635 66.79167175
08 04 2018 23:40
                 356.3395081 5.607855797 500.5683578 58.95421982
08 04 2018 23:50 593.8245239 6.347404003 747.5827897 54.50054932
09 04 2018 00:00 885.1768799 7.022227764 1026.026377 60.42911911
09 04 2018 00:10 808.5297852 6.7934618 925.6607825 67.10645294
09 04 2018 00:20 799.3394775 6.823130131 938.3163915 75.76017761
09 04 2018 00:30 566.4760132 6.385675907 761.9924432 72.14707947
09 04 2018 00:40 602.2332153 6.390835762 763.947366 67.67111206
09 04 2018 00:50 631.2904053 6.431701183 779.5328914 59.9813118
09 04 2018 01:00 530.8347168 6.157996178 678.597865 61.73009109
09 04 2018 01:10 483.5013123 6.039323807 637.334742 60.02864838
09 04 2018 01:20 424.0163879 6.091081142 655.1460555 53.72246933
09 04 2018 01:30
                 389.9216919 5.739575863 540.6318151 53.19301987
09 04 2018 01:40
                 465.7598877 5.886839867 587.4738818 61.01115036
09 04 2018 01:50 497.0689087 5.924359798 599.7660923 60.35543823
09 04 2018 02:00 315.0884094 5.264151096 403.6425963 58.83768082
09 04 2018 02:10 290.0978088 5.131000042 368.8460837 58.20146179
09 04 2018 02:20 485.4021912 5.864216805 580.1332762 70.15206146
09 04 2018 02:30 471.3677063 5.92768383 600.862248 67.94737244
09 04 2018 02:40 435.1636963 5.83514595 570.7783631 67.55574036
09 04 2018 02:50 436.4621887 5.890119076 588.5423257 62.40552902
09 04 2018 03:00 598.8297119 6.351758003 749.2140768 66.48177338
09 04 2018 03:10 454.890686 5.751058102 544.2050954 68.1554184
09 04 2018 03:20 457.1832886 5.484382153 464.5183483 78.14533234
                 173.0968018 4.108137131 143.341393 85.16133118
09 04 2018 03:30
09 04 2018 03:40
                 23.95632935 2.71906209 0
                                               92.07615662
09 04 2018 03:50
                 170.7041016 4.247056007 170.2931353 81.49228668
09 04 2018 04:00
                 84.1548233 4.162106991 153.6986083 67.29855347
09 04 2018 04:10 190.0856018 4.831055164 295.5543762 65.6479187
09 04 2018 04:20
                 189.8937988 4.719964981 270.0671739 71.1713562
09 04 2018 04:30 232.5124969 4.883519173 307.8912854 66.63699341
09 04 2018 04:40 237.6231995 4.76340723 279.9331136 73.34976959
09 04 2018 04:50
                 123.7562027 4.017440796 126.2448831 89.19534302
09 04 2018 05:00 57.40781021 3.647416115 70.24912573 78.60945892
09 04 2018 05:10
                 16.40675926 2.968019962 0
                                               119.0488968
09 04 2018 05:20 0
                       2.306565046 0
                                         119.8150024
09 04 2018 05:30 0
                       2.549350977 0
                                         111.9574966
09 04 2018 05:40 84.37020111 4.203133106 161.6674043 111.5730972
09 04 2018 05:50 138.9342041 3.781694889 89.89798842 120.4871979
09 04 2018 06:00
                 18.33897018 2.914258957 0
                                               130.7241974
09 04 2018 06:10
                 22.6257
                             3.269172907 30.40985732 119.7210007
09 04 2018 06:20 2.206675053 2.394630909 0
                                               107.8632965
09 04 2018 06:30 0
                       3.362600088 38.12150873 88.8767395
09 04 2018 06:40 29.54011917 3.604214907 64.54092929 75.34149933
09 04 2018 06:50 66.78146362 3.90930295 111.2442428 59.62583923
09 04 2018 07:00 55.28075027 3.663511038 72.452105 64.37091064
09 04 2018 07:10 21.36860085 3.437443018 45.30668809 79.97679901
09 04 2018 07:20 0.095599651 2.210532904 0 111.0150986
09 04 2018 07:30 0 1.488525033 0
                                         222.7684937
```

```
09 04 2018 07:40 0
                       1.336102009 0
                                         65.19608307
09 04 2018 07:50 0
                       3,565578938 59,68888877 85,35471344
09 04 2018 08:00 102.177803 4.356101036 192.1464762 67.86302948
09 04 2018 08:10 4.606201172 2.853358984 0
                                               108.8565979
09 04 2018 08:20 0
                       2.539298058 0
                                         105.012001
09 04 2018 08:30 16.13335037 3.846324921 100.3836672 75.02703857
09 04 2018 08:40 37.5019989 3.678167105 74.49419711 80.91589355
                 15.38844967 3.135206938 21.78909529 128.0791931
09 04 2018 08:50
09 04 2018 09:00
                 7.083580971 2.907049894 0
                                               118.0663986
09 04 2018 09:10 66.21412659 4.047112942 131.796661 107.9206009
09 04 2018 09:20 92.8390274 4.191729069 159.4438811 105.7855988
09 04 2018 09:30 18.63273048 2.748145103 0
                                               102.865303
09 04 2018 09:40 0
                       3.317563057 34.22972143 80.74889374
09 04 2018 09:50 20.2520504 2.952682018 0
                                               71.02501678
09 04 2018 10:00 4.255191803 2.525316954 0
                                               71.86279297
09 04 2018 10:10 0
                      2.756046057 0
                                      75.40338898
09 04 2018 10:20 6.633533001 3.474529982 49.19925569 72.45556641
09 04 2018 10:30 0 2.138236046 0
                                         96.00009918
                                         92.3033371
09 04 2018 10:40 0
                       2.547945976 0
                       3.225538015 27.2866082 78.6728363
09 04 2018 10:50 0
09 04 2018 11:00 0
                       2.535947084 0
                                         73.89219666
                       2.285816908 0
09 04 2018 11:10 0
                                         98.76003265
09 04 2018 11:20 0
                       2.973579884 0
                                         102.1014023
09 04 2018 11:30 17.31734085 3.955218077 119.5623044 78.75882721
09 04 2018 11:40 0.219533801 2.338069916 0
                                               103.9657974
09 04 2018 11:50 59.74314117 4.002684116 123.4985078 82.49916077
09 04 2018 12:00 186.1165924 4.359218121 192.7806466 76.11517334
09 04 2018 12:10 242.332901 5.105826855 362.4296493 72.55391693
09 04 2018 12:20 265.4448853 5.19423914 385.1905209 59.35137177
09 04 2018 12:30 218.4839935 4.829595089 295.21384 59.01885986
09 04 2018 12:40 414.4773865 5.96245718 612.3995771 68.36469269
09 04 2018 12:50 486.2647095 6.214070797 698.6192879 72.0918808
09 04 2018 13:00 597.425415 6.612887859 850.8607277 59.57801056
09 04 2018 13:10 723.1624146 7.064186096 1045.146609 63.45708847
09 04 2018 13:20 895.8120728 7.49453783 1255.148581 59.99084854
                 1044.885986 7.832544804 1435.610015 65.54736328
09 04 2018 13:30
09 04 2018 13:40 977.0473022 7.539217949 1278.209418 66.29989624
09 04 2018 13:50 650.7990112 6.21694994 699.6563781 67.31543732
09 04 2018 14:00 916.9398804 6.961908817 998.9332871 66.65535736
09 04 2018 14:10 1035.916992 7.453435898 1233.93339 63.08309937
09 04 2018 14:20 615.8598022 5.943902016 606.2272391 65.20805359
09 04 2018 14:30 844.1378784 6.638660908 861.3064901 68.57881927
09 04 2018 14:40 1006.906982 7.228558064 1122.287494 63.69750977
09 04 2018 14:50
                 1248.347046 7.911438942 1479.696558 61.38547897
09 04 2018 15:00 877.2399902 6.839044094 945.1482601 64.48972321
09 04 2018 15:10 1227.04895 7.850481033 1445.571309 62.31610107
09 04 2018 15:20 1125.202026 7.51402092 1265.201303 62.91188812
09 04 2018 15:30 1123.640991 7.320099831 1166.854116 63.47911835
09 04 2018 15:40 918.6740723 6.825447083 939.3091663 58.58758926
09 04 2018 15:50
                 1170.912964 8.031005859 1547.802195 55.37208176
09 04 2018 16:00
                 1088.442993 7.668194771 1346.099664 61.8284111
09 04 2018 16:10 1340.145996 8.260835648 1682.715467 56.24403
09 04 2018 16:20 1171.027954 7.837547779 1438.384836 58.25315857
09 04 2018 16:30 937.5045776 7.31704998 1165.35019 67.11118317
09 04 2018 16:40 753.6793823 6.884614944 964.8812247 70.78283691
09 04 2018 16:50 454.258606 5.950950146 608.5674673 65.98071289
09 04 2018 17:00 605.2529297 6.268416882 718.3453503 69.33589172
09 04 2018 17:10 791.9727783 7.001964092 1016.873207 75.14884186
09 04 2018 17:20 785.4755859 6.935061932 987.0218819 72.77548218
```

```
09 04 2018 17:30 649.1776123 6.578639984 837.0967886 67.90168762
09 04 2018 17:40
                  714.498291 6.648752213 865.4171222 63.94729996
09 04 2018 17:50
                  790.5703735 6.83509922 943.4518846 65.91766357
09 04 2018 18:00
                  945.8713989 7.311788082 1162.758604 71.92401886
09 04 2018 18:10
                  997.1760254 7.401671886 1207.579391 71.97608948
                  1548.141968 8.806518555 2020.086806 75.84234619
09 04 2018 18:20
09 04 2018 18:30
                  1457.557983 8.543176651 1854.685203 75.37359619
                  1415.578979 8.288475037 1699.266173 79.27400208
09 04 2018 18:40
09 04 2018 18:50
                  1036.730957 6.95151186 994.3096973 81.8532486
                  548.8865967 5.08037281 355.9927774 87.2009201
09 04 2018 19:00
09 04 2018 19:10
                  225.6199951 4.238488197 168.6027824 88.15145111
09 04 2018 19:20
                  159.1510925 3.692832947 76.57205367 94.43496704
09 04 2018 19:30
                  206.8880005 4.063597202 134.8981914 102.8189011
09 04 2018 19:40
                  201.5758057 4.185805798 158.2915562 104.6663971
09 04 2018 19:50
                  649.2689209 5.523139
                                        475.6809409 92.52256012
09 04 2018 20:00
                  1488.120972 8.618351936 1901.463187 78.29174042
09 04 2018 20:10
                  1549.317993 8.671563148 1934.79565 76.97104645
09 04 2018 20:20
                  926.5233154 7.254909992 1134.996092 74.20874786
09 04 2018 20:30
                  360.240509 5.16257
                                          376.9648911 82.08891296
                  610.1433105 6.232594967 705.3073889 79.58701324
09 04 2018 20:40
09 04 2018 20:50
                  592.2349243 6.42638588 777.4953602 77.87140656
                  488.4216919 6.264591217 716.946356 77.57422638
09 04 2018 21:00
09 04 2018 21:10
                  212.657196 4.439698219 209.3437723 84.44730377
09 04 2018 21:20
                  419.5911865 5.676714897 521.3010517 78.00093079
09 04 2018 21:30
                  470.9649048 5.697875023 527.7646508 77.39215851
09 04 2018 21:40
                  530.6121826 6.068894863 647.476016 75.27353668
09 04 2018 21:50
                  323.7593994 4.639939785 252.2223412 79.73220062
09 04 2018 22:00
                  16.62965012 2.803020954 0
                                                 95.80626678
09 04 2018 22:10
                  18.40823936 2.825814009 0
                                                104.5441971
                  167.626297 3.903861046 110.2807367 85.44360352
09 04 2018 22:20
09 04 2018 22:30
                  151.2308044 3.940026999 116.7729246 81.23658752
09 04 2018 22:40
                  19.21776962 2.854281902 0
                                                85.80708313
09 04 2018 22:50
                        2.883764029 0
                                          86.83596039
09 04 2018 23:00
                        1.885921955 0
                                          94.36057281
                  0
09 04 2018 23:10
                        2.469233036 0
                                          91.07998657
                  0
09 04 2018 23:20
                  0
                        2.136029005 0
                                          94.3288269
09 04 2018 23:30
                  0
                        2.061744928 0
                                          100.6878967
09 04 2018 23:40
                  0
                        2.853575945 0
                                          99.51014709
09 04 2018 23:50
                        3.051088095 17.8436185 100.4952011
10 04 2018 00:00
                        2.778198004 0
                                          100.6537018
10 04 2018 00:10
                        2.170196056 0
                                          100.5326996
                  0
10 04 2018 00:20
                                          83.42372131
                  0
                        1.74614501 0
10 04 2018 00:30
                                          112.593399
                  0
                        1.275748014 0
10 04 2018 00:40
                  0
                        1.087393999 0
                                          118.3237991
10 04 2018 00:50
                  0
                        0.768663287 0
                                          135.5834045
10 04 2018 01:00
                        0.659137309 0
                                          109.5076981
10 04 2018 01:10
                  0
                        0.66843158 0
                                          216.0991974
                                          268.3482056
10 04 2018 01:20
                  0
                        1.654782057 0
10 04 2018 01:30
                  0
                        2.442369938 0
                                          242.4380035
10 04 2018 01:40
                  0
                        2.768409967 0
                                           237.956604
10 04 2018 01:50
                  0
                        2.224235058 0
                                           245.6692047
10 04 2018 02:00
                        1.988230944 0
                                          272.1234131
10 04 2018 02:10
                        1.397894025 0
                                           258.0058899
10 04 2018 02:20
                        1.301296949 0
                                          257.0768127
                  0
10 04 2018 02:30
                                          274.3833008
                  0
                        0.912351072 0
10 04 2018 02:40
                  0
                        0.605369091 0
                                          301.7634888
10 04 2018 02:50
                  0
                        0.993208885 0
                                          17.36548996
10 04 2018 03:00
                  0
                        1.258013964 0
                                          23.82427979
10 04 2018 03:10
                  0
                        1.309617996 0
                                          26.50847054
```

```
10 04 2018 03:20
                        0.692676187 0
                                           65.04364014
                  0
10 04 2018 03:30
                  0
                        1.056928039 0
                                           52.46511841
10 04 2018 03:40
                        1.633648992 0
                                           34.80041885
                  0
10 04 2018 03:50
                  0
                        1.668347001 0
                                           42.97541046
10 04 2018 04:00
                  0
                        1.248525023 0
                                           55.24470901
10 04 2018 04:10
                        1.023306966 0
                                           65.34233093
10 04 2018 04:20
                  0
                        0.999716222 0
                                           61.97457886
                                           75.84580994
10 04 2018 04:30
                  0
                        0.558466077 0
10 04 2018 04:40
                  0
                        1.158977032 0
                                           126.7651978
10 04 2018 04:50
                  0
                        0.994583189 0
                                           101.5625992
10 04 2018 05:00
                  0
                        1.470996976 0
                                           158.0935974
10 04 2018 05:10
                        1.100098014 0
                                           151.4098053
10 04 2018 05:20
                        0.399783105 0
                                           28.41140938
10 04 2018 05:30
                        0.465057313 0
                                           69.47557831
10 04 2018 05:40
                        0.365257591 0
                                           111.3292999
                  0
10 04 2018 05:50
                  0
                        0.458333313 0
                                           311.4978943
10 04 2018 06:00
                  0
                        0.431798905 0
                                           303.9545898
10 04 2018 06:10
                  0
                        0.431982905 0
                                           42.55302811
                  0
10 04 2018 06:20
                        0.316164911 0
                                           274.7963867
10 04 2018 06:30
                  0
                        0.432092488 0
                                           42.58219147
                                           47.93157959
10 04 2018 06:40
                        0.960722089 0
                  0
10 04 2018 06:50
                                           56.49702072
                  0
                        1.103139043 0
10 04 2018 07:00
                        1.073622942 0
                                           55.47109985
10 04 2018 07:10
                  0
                        1.390468955 0
                                           53.37376022
10 04 2018 07:20
                        1.860694051 0
                                           59.61917114
10 04 2018 07:30
                        2.083498955 0
                                           67.92893219
10 04 2018 07:40
                        1.785289049 0
                                           66.78716278
10 04 2018 07:50
                        1.167507052 0
                                           87.10611725
                  0
10 04 2018 08:00
                  0
                        2.125967979 0
                                           52.64461136
10 04 2018 08:10
                  0
                        2.749711037 0
                                           46.5177002
10 04 2018 08:20
                  0
                        2.834902048 0
                                           50.87778091
                  0
                        3.27692008 30.99622103 48.33322906
10 04 2018 08:30
10 04 2018 08:40
                        2.780582905 0
                                           47.20830154
10 04 2018 08:50
                        3.09085989 19.56795805 44.43991089
                  0
10 04 2018 09:00
                        2.90563798 0
                                           43.10411072
                  0
10 04 2018 09:10
                  0
                        2.400533915 0
                                           56.74575043
10 04 2018 09:20
                  0
                        2.142548084 0
                                           57.48672104
10 04 2018 09:30
                  0
                        2.424884081 0
                                           50.63383865
10 04 2018 09:40
                        3.308051109 33.44927437 58.96281052
10 04 2018 09:50
                  44.55630112 3.928384066 114.660048 54.36634827
10 04 2018 10:00
                  69.82450867 3.995969057 127.2273588 64.59290314
                  84.82402802 4.008058071 124.4975411 65.7689209
10 04 2018 10:10
10 04 2018 10:20
                  48.28231049 3.688433886 75.94518152 66.09942627
10 04 2018 10:30
                  37.92752075 3.62350893 67.05335665 55.50572968
10 04 2018 10:40
                  44.68513107 3.601917028 64.24567364 62.33712006
10 04 2018 10:50
                  58.88162994 3.803697109 93.39263096 63.27516174
10 04 2018 11:00
                  46.59743881 3.733108044 82.45524969 61.08338928
                  1.633730054 3.544851065 57.18424868 53.24953079
10 04 2018 11:10
10 04 2018 11:20
                  59.77585983 3.716531992 80.00247138 55.69652939
10 04 2018 11:30
                  112.1352005 4.089095116 139.7203405 57.8240509
10 04 2018 11:40
                  93.95715332 4.142148018 149.8519066 53.13940811
10 04 2018 11:50
                  124.3408966 4.253421783 171.5515126 53.80052948
10 04 2018 12:00
                  96.23397064 4.047091007 131.7925423 54.11026001
10 04 2018 12:10
                  127.8548965 4.240706921 169.0401523 55.8183403
10 04 2018 12:20
                  129.2590942 4.291370869 179.097332 57.56381989
10 04 2018 12:30
                  114.8122025 4.232968807 167.5158642 73.38105774
10 04 2018 12:40
                  125.8506012 4.334180832 187.7019599 73.19423676
                  183.0128937 4.700036049 265.5837108 67.25105286
10 04 2018 12:50
10 04 2018 13:00 156.928894 4.450915813 211.6818847 64.31162262
```

```
10 04 2018 13:10 105.8514023 4.07192421 136.4696728 62.60269165
                 123.0285034 4.2941432
10 04 2018 13:20
                                          179.6515728 63.68233109
10 04 2018 13:30
                  117.0258026 4.262506962 173.3511167 63.79944992
10 04 2018 13:40
                 118.4991989 4.222789764 165.5154407 63.10464859
10 04 2018 13:50
                 105.2975006 4.083096027 138.5830762 60.2164917
10 04 2018 14:00
                  164.2700043 4.51500988 225.1835613 63.86478043
10 04 2018 14:10
                  204.9857941 4.804483891 289.3805597 61.05387878
10 04 2018 14:20
                  217.5045929 4.88840723 309.0507714 60.54159927
10 04 2018 14:30
                  218.1199951 4.966371059 327.7808583 66.18032074
                  202.1362
10 04 2018 14:40
                              4.9145298
                                          315.2766812 63.27260971
10 04 2018 14:50
                  203.277298 4.664608002 257.6783237 62.51234818
10 04 2018 15:00
                 111.9917984 4.100811005 141.9462233 59.88825989
10 04 2018 15:10 87.50789642 4.048524857 132.061828 60.45277023
10 04 2018 15:20
                 152.3435059 4.449837208 211.4567493 65.10922241
10 04 2018 15:30 169.3424988 4.466690063 214.9822022 66.76428986
10 04 2018 15:40 228.4304962 4.990706921 333.7198764 70.72799683
10 04 2018 15:50
                 131.5946045 4.236575127 168.2258689 65.00756073
10 04 2018 16:00
                 186.1940002 4.598635197 243.1744264 63.02690125
                  267.0513
                              5.078210831 355.4484045 65.70580292
10 04 2018 16:10
                  376.0539856 5.75446701 545.268487 67.90910339
10 04 2018 16:20
                  391.5380859 5.804840088 561.1184433 65.6128006
10 04 2018 16:30
                  352.6445007 5.510022163 471.8875796 61.53654099
10 04 2018 16:40
                  344.8745117 5.607411861 500.4361735 59.95872879
10 04 2018 16:50
10 04 2018 17:00
                  367.7496033 5.511869907 472.4209804 59.62919998
10 04 2018 17:10 461.6062012 5.963273048 612.6718165 65.4882431
10 04 2018 17:20 445.6596069 5.841143131 572.7011043 71.27456665
10 04 2018 17:30 363.2742004 5.69214201 526.0091014 76.29918671
10 04 2018 17:40 260.2477112 5.010222912 338.5150071 77.56162262
                 138.9875031 4.432679176 207.8844944 73.44631958
10 04 2018 17:50
10 04 2018 18:00
                  91.38596344 3.79715395 92.34527996 69.89251709
                  40.90842819 3.454499006 47.06951594 73.95374298
10 04 2018 18:10
10 04 2018 18:20
                  0.970737219 2.538587093 0
                                               51.40552139
10 04 2018 18:30
                        3.286375999 31.72492903 54.65142822
10 04 2018 18:40
                  65.6787262 3.95373106 119.2876287 64.76145172
                  53.79285812 3.978354931 123.8816274 70.99079895
10 04 2018 18:50
10 04 2018 19:00
                  36.81203842 3.599829912 63.97823107 70.09432983
10 04 2018 19:10
                  0
                        2.647200108 0
                                          77.47409058
                        3.332350969 35.47180436 65.89482117
10 04 2018 19:20
                  0
10 04 2018 19:30
                        2.748724937 0
                                          54,49687958
10 04 2018 19:40
                        1.431239963 0
                                          19.97904015
10 04 2018 19:50
                        0.882192671 0
                                          148.8845978
                 0
10 04 2018 20:00
                                          157.9721985
                 0
                        1.642984986 0
10 04 2018 20:10
                        2.309477091 0
                                          128.4116974
                  0
10 04 2018 20:20
                  19.47974968 3.826911926 97.16384835 115.9992981
10 04 2018 20:30
                  55.75138092 3.626899004 67.50095702 121.5249023
                  41.97840118 3.413866997 42.94661518 123.2347031
10 04 2018 20:40
10 04 2018 20:50
                  0.564599216 2.826742887 0
                                                119.5919037
                                          128.4223938
10 04 2018 21:00
                  0
                        2.315243959 0
10 04 2018 21:10
                  0
                        2.750008106 0
                                          136.1903992
10 04 2018 21:20
                  0
                        1.988657951 0
                                          137.5879974
10 04 2018 21:30
                  0
                        1.288841963 0
                                          146.4416046
10 04 2018 21:40
                        1.367668986 0
                                          88.69415283
10 04 2018 21:50
                        1.791157007 0
                                          80.3445282
10 04 2018 22:00
                        2.093542099 0
                                          83.15383148
                  0
10 04 2018 22:10
                                          78.70868683
                  0
                        1.439062953 0
10 04 2018 22:20
                  0
                        0.815267324 0
                                          127.5233002
10 04 2018 22:30
                  0
                        2.082612991 0
                                          235.6284943
10 04 2018 22:40 0
                        2.988272905 0
                                          243.697403
10 04 2018 22:50 0
                                          218.8554993
                       2.696662903 0
```

```
3.017378092 16.58025878 178.4432068
10 04 2018 23:00
                  0
10 04 2018 23:10
                  0
                         2.399235964 0
                                           158.7225037
10 04 2018 23:20
                  0
                         2.292001963 0
                                           220.5041962
                         3.779736042 89.59061696 235.5765991
10 04 2018 23:30
                  0
10 04 2018 23:40
                  23.83732033 3.305429935 33.23675357 247.7958069
10 04 2018 23:50
                  3.347403049 2.906968117 0
                                                  266.033905
                         2.783643007 0
11 04 2018 00:00
                  0
                                           263.7963867
11 04 2018 00:10
                  0
                         3.423477888 43.89797416 246.4954071
11 04 2018 00:20
                  0
                         3.046389103 17.6566072 229.5175934
11 04 2018 00:30
                  0
                         2.888823032 0
                                           212.7742004
11 04 2018 00:40
                  Θ
                         1.876263976 0
                                           199.391098
11 04 2018 00:50
                  0
                         2.222973108 0
                                           227.1598969
11 04 2018 01:00
                         1.846052051 0
                                           258.5646057
11 04 2018 01:10
                  0
                         1.556982994 0
                                           223.7967072
11 04 2018 01:20
                         3.018326998 16.61333424 277.1445923
                  0
11 04 2018 01:30
                  0
                         2.076584101 0
                                           216.8466034
11 04 2018 01:40
                  0
                         1.810070992 0
                                           240.6891937
11 04 2018 01:50
                  0
                         2.663865089 0
                                           260.2571106
11 04 2018 02:00
                  0
                         2.090173006 0
                                           257.0627136
11 04 2018 02:10
                  0
                         2.286004066 0
                                           261.9121094
11 04 2018 02:20
                         2.358211994 0
                                           244.4743958
                  0
11 04 2018 02:30
                  0
                         2.713764906 0
                                           248.7088928
11 04 2018 02:40
                  0
                         0.954689622 0
                                           258.7583008
11 04 2018 02:50
                  Θ
                         0.955540895 0
                                           248.7928925
11 04 2018 03:00
                  0
                         0.818418026 0
                                           176.2789001
11 04 2018 03:10
                         1.284536004 0
                                           118.5808029
11 04 2018 03:20
                         1.652271032 0
                                           113.3098984
11 04 2018 03:30
                         1.395689964 0
                                           118.1113968
                  0
11 04 2018 03:40
                  0
                         1.165061951 0
                                           138.2644043
11 04 2018 03:50
                  0
                         2.228702068 0
                                           137.9197998
11 04 2018 04:00
                  0
                         2.289382935 0
                                           144.4886017
11 04 2018 04:10
                  0
                         2.061521053 0
                                           158.4123993
11 04 2018 04:20
                                           151.3356018
                         2.22081089
                                           147.1779022
11 04 2018 04:30
                         2.706984043 0
                  0
11 04 2018 04:40
                         2.619076014 0
                                           143.4618073
                  0
11 04 2018 04:50
                  0
                         2.548485994 0
                                           146.8697052
11 04 2018 05:00
                  0
                         3.106364965 20.30875936 159.7223969
                         3.648844004 70.44289141 170.6455994
11 04 2018 05:10
                  0
11 04 2018 05:20
                         4.126708031 146.8894317 169.7276001
11 04 2018 05:30
                         4.837351799 297.0246775 162.5648956
11 04 2018 05:40
                         2.540688992 0
                                           156.8683929
                  0
11 04 2018 05:50
                  0
                         1.885673046 0
                                           164.446106
11 04 2018 06:00
                                           176.658905
                  0
                         2.842458963 0
11 04 2018 06:10
                  0
                         2.563554049 0
                                           199.5399017
11 04 2018 06:20
                  0
                         2.861815929 0
                                           205.3591003
11 04 2018 06:30
                         3.093406916 19.68700945 186.4920959
11 04 2018 06:40
                  0
                         2.799032927 0
                                           179.8811951
11 04 2018 06:50
                  0
                         1.982336044 0
                                           160.4441071
11 04 2018 07:00
                  0
                         2.345252991 0
                                           173.6058044
11 04 2018 07:10
                  0
                         2.702989101 0
                                           205.207901
11 04 2018 07:20
                  0
                         1.898092985 0
                                            205.9976044
11 04 2018 07:30
                         3.247176886 28.79737336 222.7263031
11 04 2018 07:40
                         1.812059999 0
                                           251.1123962
11 04 2018 07:50
                         2.778091908 0
                                           210.1741943
                  0
11 04 2018 08:00
                         3.190069914 24.97236302 202.9104004
                  0
11 04 2018 08:10
                  0
                         1.816856027 0
                                           254.2498016
11 04 2018 08:20
                  0
                         1.054579973 0
                                           268.874115
11 04 2018 08:30
                  0
                         1.738052964 0
                                           231.7404938
11 04 2018 08:40
                  0
                         2.404212952 0
                                           200.5359039
```

```
11 04 2018 08:50
                        2.817327976 0
                                           198.1452026
                  0
11 04 2018 09:00
                  0
                        2.417444944 0
                                           203.3455048
11 04 2018 09:10
                        1.870507956 0
                                           204.8209991
                  0
11 04 2018 09:20
                  0
                        1.504493952 0
                                           235,8076019
11 04 2018 09:30
                  0
                        1.251176953 0
                                           320.6423035
11 04 2018 09:40
                        1.877640963 0
                                           260.6288147
11 04 2018 09:50
                  0
                        0.986114502 0
                                           280.2698975
11 04 2018 10:00
                        0.890384376 0
                  0
                                           249.2109985
11 04 2018 10:10
                  0
                        1.942139983 0
                                           255.0594025
11 04 2018 10:20
                  0
                        2.123033047 0
                                           237,2859955
11 04 2018 10:30
                  Θ
                        1.393473983 0
                                           255.5854034
11 04 2018 10:40
                  0
                        2.058166027 0
                                           243.1562958
11 04 2018 10:50
                        2.148072958 0
                                           260.3033142
11 04 2018 11:00
                  0
                        2.507992029 0
                                           245.7767029
11 04 2018 11:10
                        2.748970032 0
                                           230.379303
                  0
11 04 2018 11:20
                  0
                        2.475943089 0
                                           232.6853027
11 04 2018 11:30
                  0
                        1.989048004 0
                                           267.8940125
11 04 2018 11:40
                  0
                        1.250061989 0
                                           254.0843048
                  0
11 04 2018 11:50
                        2.453515053 0
                                           186.7277985
                  15.29741001 3.137943029 21.93643929 202.1302032
11 04 2018 12:00
11 04 2018 12:10
                  58.00341034 3.56658411 59.81209585 221.0608063
                  130.4562988 4.301579952 181.1403481 217.1083984
11 04 2018 12:20
11 04 2018 12:30
                  80.15036774 3.803355932 93.33785014 200.6291962
11 04 2018 12:40
                  89.91113281 3.899224043 109.4634797 200.0155945
11 04 2018 12:50
                  114.8414993 4.00637722 124.1849291 216.9665985
11 04 2018 13:00
                  160.5480042 4.316246033 184.0850826 216.9371033
11 04 2018 13:10
                  127.2993011 4.092184067 140.306579 217.6551056
                  157.6372986 4.412198067 203.6426667 220.5330048
11 04 2018 13:20
11 04 2018 13:30
                  192.3614044 4.639754772 252.1815699 220.8721008
11 04 2018 13:40
                  102.1904984 3.99871707 127.753809 223.9210968
11 04 2018 13:50
                  32.67863083 3.263310909 29.97255989 215.7769928
11 04 2018 14:00
                  53.07743073 3.574487925 60.78652363 218.5043945
11 04 2018 14:10
                  119.2545013 4.159119129 153.1215156 236.5516052
11 04 2018 14:20
                  31.75915909 3.805521965 93.68595377 245.8412933
11 04 2018 14:30
                  0
                        3.021203041 16.71446283 244.960907
11 04 2018 14:40
                  0
                        1.154075027 0
                                           228.6338043
11 04 2018 14:50
                  0
                        1.862470031 0
                                           259.0812073
11 04 2018 15:00
                  0
                        2.435204983 0
                                           277.4801941
11 04 2018 15:10
                        2.145555973 0
                                           271.6288147
11 04 2018 15:20
                        2.328948975 0
                                           289.1845093
11 04 2018 15:30
                        2.997886896 0
                                           284.1706848
                  0
11 04 2018 15:40
                        3.033116102 17.14744937 281.1984863
                  0
11 04 2018 15:50
                        2.967808008 0
                                           278.0187073
                  0
11 04 2018 16:00
                  0
                        2.866084099 0
                                           280.0018921
11 04 2018 16:10
                  0
                        2.193650007 0
                                           290.3937073
11 04 2018 16:20
                        1.949790955 0
                                           279.0570068
11 04 2018 16:30
                  0
                        1.111094952 0
                                           297.3963013
11 04 2018 16:40
                                           322.359314
                  0
                        1.103518963 0
11 04 2018 16:50
                  0
                        1.188560963 0
                                           285.8298035
11 04 2018 17:00
                  0
                        1.259686947 0
                                           295.6315918
11 04 2018 17:10
                  0
                        1.59394896 0
                                           282.9959106
11 04 2018 17:20
                        1.029142976 0
                                           278.7926941
11 04 2018 17:30
                        0.993780375 0
                                           256.7514954
11 04 2018 17:40
                        1.125934958 0
                                           267.6628113
                  0
11 04 2018 17:50
                        1.759827971 0
                  0
                                           265.6704102
11 04 2018 18:00
                  0
                        1.431107998 0
                                           244.422699
11 04 2018 18:10
                  0
                        0.945878208 0
                                           227.2716064
11 04 2018 18:20
                  0
                        1.498828053 0
                                           236.9546967
11 04 2018 18:30
                  0
                        1.483217001 0
                                           250.2079926
```

```
11 04 2018 18:40
                        2.065603018 0
                                           245.3009949
                  0
11 04 2018 18:50
                  0
                        2.628391027 0
                                           240.2274017
11 04 2018 19:00
                        3.058238029 18.13495039 244.383194
                  0
11 04 2018 19:10
                  0
                        3.277004004 31.00262555 244.4147949
11 04 2018 19:20
                  0
                        3.004314899 16.13956625 257.8884888
11 04 2018 19:30
                        1.876757979 0
                                           246.7256012
11 04 2018 19:40
                  0
                        3.250543118 29.03912806 233.5200958
11 04 2018 19:50
                  0
                        3.105426073 20.26280689 219.4562988
11 04 2018 20:00
                  67.83822632 4.217732906 164.5236199 218.6896973
                  83.37608337 4.099798203 141.7535474 217.4335022
11 04 2018 20:10
11 04 2018 20:20
                  50.89614105 3.853714943 101.6252145 205.4257965
11 04 2018 20:30
                  0.888998628 3.139345884 22.01245034 217.3986969
11 04 2018 20:40
                  14.39414024 3.758263111 86.26145521 222.4331055
11 04 2018 20:50
                  75.35719299 4.122785091 146.1385659 222.1085968
11 04 2018 21:00
                  11.12388992 2.819303036 0
                                                 204.677002
11 04 2018 21:10
                  0
                        2.195379972 0
                                           227.863205
11 04 2018 21:20
                  0
                        3.057095051 18.08782921 247.365799
11 04 2018 21:30
                  25.73341942 4.163387775 153.9461209 244.3164978
                             4.011263847 125.0941123 249.9317932
11 04 2018 21:40
                  86.282547
11 04 2018 21:50
                  59.76840973 3.779608011 89.57054846 255.5807037
11 04 2018 22:00
                  18.03582001 3.274291992 30.79623151 257.9324951
                  54.3343811 3.868629932 104.1575946 257.4963074
11 04 2018 22:10
11 04 2018 22:20
                  58.73485184 3.916644096 112.551523 264.8934021
11 04 2018 22:30
                  0.750198424 3.407111883 42.28678709 258.4484863
11 04 2018 22:40
                  48.54484177 3.6902771
                                           76.20746513 262.0580139
11 04 2018 22:50
                  96.55063629 4.081634998 138.3063593 265.3060913
11 04 2018 23:00
                  78.88609314 4.084294796 138.8101957 256.235199
11 04 2018 23:10
                  11.33248043 3.346345901 36.67950753 255.5269012
11 04 2018 23:20
                  0
                        2.52829504 0
                                           270.5154114
11 04 2018 23:30
                        2.399786949 0
                  0
                                           288.9848938
11 04 2018 23:40
                  0
                        1.781442046 0
                                           269.8077087
11 04 2018 23:50
                  0
                        1.631446958 0
                                           281.7402954
12 04 2018 00:00
                  0
                        1.58327198
                                           277.2113037
12 04 2018 00:10
                        2.318197012 0
                                           279,6044006
                  0
12 04 2018 00:20
                        2.378787994 0
                                           275.0138855
                  0
12 04 2018 00:30
                  0
                        2.205457926 0
                                           275.0168152
12 04 2018 00:40
                  0
                        2.145270109 0
                                           287.8140869
                                           290.1792908
12 04 2018 00:50
                  0
                        2.316067934 0
12 04 2018 01:00
                        2.506067038 0
                                           297.6771851
12 04 2018 01:10
                        2,576523066 0
                                           301.2632141
12 04 2018 01:20
                        2.364120007 0
                                           296.2308044
                  0
12 04 2018 01:30
                                           306.3945007
                  0
                        2.723824978 0
12 04 2018 01:40
                                           308.052887
                  0
                        2.729862928 0
12 04 2018 01:50
                  0
                        2.255083084 0
                                           309.5654907
12 04 2018 02:00
                  0
                        2.384838104 0
                                           314.1846008
12 04 2018 02:10
                        1.977933049 0
                                           330.0853882
12 04 2018 02:20
                  0
                        1.553969026 0
                                           1.476451993
12 04 2018 02:30
                                           4.462522984
                  0
                        1.483391047 0
12 04 2018 02:40
                  0
                        1.109987974 0
                                           356.8241882
12 04 2018 02:50
                  0
                        0.937577784 0
                                           359.7661133
12 04 2018 03:00
                  0
                        0.489600986 0
                                           350.990387
12 04 2018 03:10
                        0.75655061 0
                                           28.23233986
12 04 2018 03:20
                        0.911589503 0
                                           59.69736099
12 04 2018 03:30
                        0.608891785 0
                                           67.05542755
                  0
12 04 2018 03:40
                                           58.96607971
                  0
                        0.505014122 0
12 04 2018 03:50
                  0
                        0.885854721 0
                                           138.2962952
12 04 2018 04:00
                  0
                        0.564158916 0
                                           160.0724945
12 04 2018 04:10
                  0
                        0.634233117 0
                                           164.9608002
12 04 2018 04:20
                        1.79182899
                                           197.6968994
```

12	04	2018	04:30	0	1.578184009 0	215.1537018
12	04	2018	04:40	0	1.112395048 0	231.4082031
12	04	2018	04:50	0	1.161131978 0	266.338501
	-					
12	04	2018	05:00	0	1.022469044 0	248.2534943
12	04	2018	05:10	0	1.023710012 0	246.237793
12	04	2018	05:20	0	0.58878988 0	270.3522949
12	04	2018	05:30	0	0.579375327 0	260.9302063
12	04	2018	05:40	0	0.588310897 0	300.2283936
12	04	2018	05:50	0	0.397661299 0	231.2406006
12	04	2018	06:00	0	0.694140315 0	47.52508163
12	04					
	_	2018	06:10	0	0.688438892 0	74.37890625
12	04	2018	06:20	0	0.741598129 0	94.17899323
12	04	2018	06:30	0	0.682190895 0	212.5522003
12	04	2018	06:40	0	0.765492678 0	35.69765091
12	04	2018	06:50	0	1.118824959 0	29.79149055
12	04	2018	07:00	0	0.952199519 0	35.56270981
12	04	2018	07:10	0	1.402289987 0	21.54748917
12	04	2018	07:20	0	1.484272003 0	29.36746025
	-					
12	04	2018	07:30	0	1.769297004 0	36.05416107
12	04	2018	07:40	0	2.119560003 0	37.35733032
12	04	2018	07:50	0	2.356281996 0	41.89780045
12	04	2018	08:00	0	2.254358053 0	35.72956848
12	04	2018	08:10	0	2.241173029 0	33.87170029
12	04	2018	08:20	0	1.825150967 0	30.22047043
12	04	2018	08:30	0	1.896980047 0	43.42041016
12	04	2018	08:40	0	1.765383959 0	31.65360069
12	04	2018	08:50	0	2.312305927 0	43.99324036
12	_			_		
	04	2018	09:00	0	1.718783975 0	4.100924969
12	04	2018	09:10	0	1.923557043 0	31.48699951
12	04	2018	09:20	0	1.697494984 0	38.91876984
12	04	2018	09:30	0	1.773761988 0	36.55519104
12	04	2018	09:40	0	1.656700969 0	31.7221508
12	04	2018	09:50	0	1.75929904 0	43.41162109
12	04	2018	10:00	0	2.304523945 0	15.25605965
12	04	2018	10:10	0	1.986271977 0	345.2879028
12	04	2018	10:20	0	1.998167992 0	359.9772949
12	04	2018	10:30	0	1.94687295 0	6.914990902
12	04	2018	10:40	0	2.218894958 0	28.88583946
12	04	2018	10:50	0	2.447557926 0	32.41125107
	-					
12		2018	11:00	0	2.001210928 0	7.868629932
12	04	2018	11:10	0	2.697662115 0	2.368541002
12	04	2018	11:20	0	1.730239034 0	22.79791069
12	04	2018	11:30	0	2.011904001 0	32.60919189
12	04	2018	11:40	0	2.112323999 0	4.005731106
12	04	2018	11:50	0	2.276195049 0	353.1383057
12	04	2018	12:00	0	2.432868004 0	349.9865112
12	04	2018	12:10	0	2.84078002 0	350.0783997
12	04	2018	12:20	0	2.980496883 0	353.7774048
12	04	2018	12:30	0	2.582468033 0	358.4436951
12	04	2018	12:40	0	2.458547115 0	17.50794029
	-					
12	04	2018	12:50	0	2.402646065 0	349.3707886
12	04	2018	13:00	0	2.631503105 0	338.2477112
12	04	2018	13:10	0	2.591608047 0	348.9332886
12	04	2018	13:20	0	2.696491003 0	1.300984979
12	04	2018	13:30	0	2.923373938 0	7.000891209
12	04	2018	13:40	0	2.655081034 0	0.571232915
12	04	2018	13:50	0	2.520252943 0	352.1166077
12	04	2018	14:00	0	2.688777924 0	3.187567949
12	04	2018	14:10	0	2.815218925 0	18.07926941
	•			_		

```
12 04 2018 14:20
                         3.049654961 17.78620795 21.07081985
                  0
12 04 2018 14:30
                         3.584029913 61.97623235 31.42835999
                  0
12 04 2018 14:40
                         3.36918211 38.71746193 37.6017189
                  0
12 04 2018 14:50
                  0
                         3.12964201 21.49310837 41.07909012
                  0
12 04 2018 15:00
                         3.355001926 37.44217107 40.02791977
12 04 2018 15:10
                         3.20251298 25.76133589 34.7707901
12 04 2018 15:20
                  0
                         2.986470938 0
                                           23.52721977
12 04 2018 15:30
                  0
                         2.931317091 0
                                           36.20619965
12 04 2018 15:40
                  0
                         3.198328972 25.49327759 41.99174881
12 04 2018 15:50
                         3.776762009 89.12512173 45.51382828
                  0
12 04 2018 16:00
                  49.8664093 3.949826002 118.5679868 42.46855164
12 04 2018 16:10
                  80.38101196 4.037964821 130.0807775 42.68016052
12 04 2018 16:20
                  11.20384979 3.414485931 43.00743679 51.95473862
12 04 2018 16:30
                         3.303913116 33.11427431 63.26094818
12 04 2018 16:40
                  55.48957825 4.051826
                                           132.6821592 51.94118118
12 04 2018 16:50
                  111.8663025 4.141819
                                           149.7886576 54.22723007
12 04 2018 17:00
                  248.8724976 4.886853218 308.6819599 59.49404907
12 04 2018 17:10
                  267.8804016 5.058352947 350.4654368 66.79910278
                  233.4514008 4.956848145 325.4689538 68.20147705
12 04 2018 17:20
                  231.5484924 4.7961092
12 04 2018 17:30
                                           287.4449404 70.72363281
                  148.4429932 4.487497807 219.358087
12 04 2018 17:40
                                                        76.04457092
                  7.610589027 3.088275909 19.44824
12 04 2018 17:50
                                                        78.12895966
12 04 2018 18:00
                  0
                         2.285710096 0
                                           73.03994751
12 04 2018 18:10
                  0
                         2.64349699
                                     Θ
                                           91.71843719
12 04 2018 18:20
                  0
                         1.529276013 0
                                           78.68005371
12 04 2018 18:30
                         1.798807025 0
                                           58.71017838
12 04 2018 18:40
                         1.454069018 0
                                           93.53957367
                  0
12 04 2018 18:50
                         1.047395945 0
                                           113.831398
                  0
12 04 2018 19:00
                  0
                         1.475465059 0
                                           113.716301
12 04 2018 19:10
                  0
                         1.691305995 0
                                           112.7463989
12 04 2018 19:20
                  0
                         1.086899042 0
                                           112.9203033
12 04 2018 19:30
                  0
                         2.174005032 0
                                           116.6084976
12 04 2018 19:40
                         2.07337904
                                           119.334198
                  0
12 04 2018 19:50
                         1.566797972 0
                                           144.5914001
                  0
12 04 2018 20:00
                                           149.9562073
                  0
                         1.390161991 0
12 04 2018 20:10
                  0
                         1.90505302
                                           144.3352051
12 04 2018 20:20
                  0
                         1.87352097
                                     0
                                           136.6508026
                         2.116952896 0
12 04 2018 20:30
                  0
                                           135.3175049
12 04 2018 20:40
                         2.122158051 0
                                           133.7164001
12 04 2018 20:50
                         2.134898901 0
                                           127.0783997
12 04 2018 21:00
                         1.904368043 0
                                           142.6770935
                  0
12 04 2018 21:10
                  0
                         2.030344009 0
                                           134.5700989
12 04 2018 21:20
                         1.255735993 0
                                           172.3513947
                  0
12 04 2018 21:30
                  0
                                           207.6175995
                         1.184463024 0
12 04 2018 21:40
                  0
                                           222.6531067
                         1.158923984 0
12 04 2018 21:50
                  0
                         0.614051282 0
                                           194.5471954
12 04 2018 22:00
                  0
                         0.813555479 0
                                           218.3986053
                                           211.0065002
12 04 2018 22:10
                  0
                         0.745739102 0
12 04 2018 22:20
                  0
                         0.560331285 0
                                           192.2859039
12 04 2018 22:30
                  0
                         1.012104988 0
                                           170.7630005
12 04 2018 22:40
                  0
                         1.519703984 0
                                           204.3200989
12 04 2018 22:50
                         1.401728988 0
                                           217.8222046
12 04 2018 23:00
                         0.744900405 0
                                           258.2685852
12 04 2018 23:10
                         0.953419983 0
                                           255.8397064
                  0
12 04 2018 23:20
                                           248.9586029
                  0
                         1.13677001
                                     0
12 04 2018 23:30
                  0
                         1.439100981 0
                                           254.4613037
12 04 2018 23:40
                  0
                         1.276700974 0
                                           297.6442871
12 04 2018 23:50
                                           317.6455994
                  0
                         1.119706035 0
13 04 2018 00:00
                         1.007184029 0
                                           313.2909851
```

13 04	2018	00:10	0	1.136289954 0	299.1686096
13 04	2018	00:20	0	1.071753979 0	291.2940979
13 04		00:30	0	1.299222946 0	271.0354004
13 04					
		00:40	0		274.1115112
13 04		00:50	0	1.13340497 0	269.3395081
13 04	2018	01:00	0	1.240661025 0	268.6288147
13 04	2018	01:10	0	1.567180991 0	287.0571899
13 04	2018	01:20	0	1.292747021 0	335.9758911
13 04		01:30	0	1.205111027 0	307.6872864
13 04		01:40	0	0.933566988 0	303.6408997
13 04		01:50	0	0.622136116 0	331.3728943
13 04	2018	02:00	0	0.695450723 0	11.17658043
13 04	2018	02:10	0	0.496347308 0	347.5228882
13 04	2018	02:20	0	0.44049421 0	8.580606461
13 04		02:30	0	0.747825086 0	7.044643879
13 04		02:40	0	0.796022117 0	359.785614
13 04		02:50	0	0.707246006 0	357.6478882
13 04	2018	03:00	0	1.084439993 0	17.11996078
13 04	2018	03:10	0	1.269513011 0	30.31691933
13 04	2018	03:20	0	1.000041008 0	16.34898949
13 04		03:30	0	0.896205485 0	3.95670104
13 04		03:40	0	1.006819963 0	17.61529922
		03:50	0	1.058920026 0	0.03932954
13 04		04:00	0	1.436840057 0	322.3796997
13 04	2018	04:10	0	1.470419049 0	335.3970947
13 04	2018	04:20	0	1.365124941 0	13.77972984
13 04	2018	04:30	0	1.171347022 0	3.389144897
13 04		04:40	0	0.981768012 0	27.52813911
		04:50	0	0.499472201 0	49.16572952
13 04		05:00	0	0.512191176 0	30.7904892
13 04		05:10	0	0.557705879 0	18.60213089
13 04	2018	05:20	0	0.419192493 0	24.9325695
13 04	2018	05:30	0	0.453952014 0	323.0445862
13 04		05:40	0	0.59429878 0	214.1976929
13 04		05:50	0	0.982521176 0	195.7164001
13 04		06:00	0	0.665041924 0	236.147995
13 04		06:10	0	0.623190224 0	67.994133
13 04		06:20	0	0.377485007 0	184.1278992
13 04	2018	06:30	0	0.828486681 0	141.9250031
13 04	2018	06:40	0	0.658641219 0	128.3018036
13 04		06:50	0	1.202672005 0	18.8567009
13 04		07:00	0	1.547749043 0	43.14241028
		07:10		1.035552979 0	
13 04			0		51.00603867
13 04		07:20	0	0.899520814 0	33.52095032
13 04		07:30	0	0.738089919 0	59.61896133
13 04	2018	07:40	0	0.945300281 0	65.10378265
13 04	2018	07:50	0	1.380403996 0	354.1736145
13 04		08:00	0	1.552203059 0	23.64759064
13 04		08:10	0	2.689954996 0	26.94576073
		08:20			
13 04			0	1.730175018 0	22.71445084
13 04		08:30	0	1.218211055 0	7.872291088
13 04		08:40	0	1.661319017 0	358.2459106
13 04	2018	08:50	0	2.024650097 0	9.68122673
13 04	2018	09:00	0	2.076230049 0	33.01216125
13 04		09:10	0	1.543683052 0	29.44646072
13 04		09:20	0	1.908738971 0	17.36584091
13 04		09:30			351.6029053
			0		
13 04		09:40	0	2.118323088 0	32.59838104
13 04	2018	09:50	0	1.396752 0	351.9526062

```
13 04 2018 10:00
                        1.709022999 0
                  0
                                          11.61281013
13 04 2018 10:10
                  0
                        2.653769016 0
                                          25.25156975
13 04 2018 10:20
                                          44.46250153
                  0
                        2.648555994 0
13 04 2018 10:30
                 0
                        2.079632044 0
                                          40,47126007
13 04 2018 10:40
                  0
                        1.932927012 0
                                          29.27891922
13 04 2018 10:50
                        1.839921951 0
                                          31.91106033
13 04 2018 11:00
                  0
                        2.725678921 0
                                          34.34518814
                        2.213141918 0
13 04 2018 11:10
                  0
                                          40.92549133
                                          27.15016937
13 04 2018 11:20
                  0
                        2.573272943 0
13 04 2018 11:30
                  0
                        2.768028975 0
                                          22.85643005
13 04 2018 11:40
                                          24.49020958
                  0
                        2.964061022 0
13 04 2018 11:50
                        2.802798033 0
                                          26.47245026
13 04 2018 12:00
                        3.128431082 21.42935804 30.15822029
13 04 2018 12:10
                  0
                        3.030653
                                    17.05606451 22.09276962
13 04 2018 12:20
                        3.007772923 16.25356699 26.66078949
                  0
13 04 2018 12:30
                  0
                        3.125989914 21.30155392 26.93238068
13 04 2018 12:40
                  0
                        3.076251984 18.90521268 27.88297081
13 04 2018 12:50
                  0
                        3.044481993 17.58171558 28.22270966
                  0
                        3.478178978 49.59413809 28.03763008
13 04 2018 13:00
                        3.517038107 53.93149174 32.55168915
13 04 2018 13:10
                  0
                              3.476536989 49.41618382 28.9904995
13 04 2018 13:20
                  9.0030756
                  0.924532413 3.43563199 45.12224218 46.80213165
13 04 2018 13:30
13 04 2018 13:40
                  0
                        2.711956978 0
                                          43.18891144
13 04 2018 13:50
                  0
                        2.611615896 0
                                          44,47806931
13 04 2018 14:00
                  0
                        3.076096058 18.89832265 47.22483063
13 04 2018 14:10
                        3.111339092 20.55456243 55.24713898
13 04 2018 14:20
                        2.97964406 0
                                          47.00357056
                  0
                        3.143851995 22.25873558 53.2756691
13 04 2018 14:30
                  0
13 04 2018 14:40
                  0
                        3.292819023 32.22964716 61.40402985
                 43.69654083 3.990516901 126.1864393 53.81676102
13 04 2018 14:50
13 04 2018 15:00
                  121.108902 4.359508991 192.8398517 45.66968918
                  147.7205048 4.434760094 208.316825 53.65726089
13 04 2018 15:10
13 04 2018 15:20
                  167.0596924 4.584557056 240.1152951 49.90307999
13 04 2018 15:30
                  184.0682068 4.575409889 238.1343137 53.50458145
                  211.3500977 4.862866879 303.0114141 54.59436035
13 04 2018 15:40
                  220.3242035 4.938114166 320.9405787 60.21928024
13 04 2018 15:50
                  266.1256104 5.100309849 361.0301494 63.05670929
13 04 2018 16:00
                  254.4846954 5.043252945 346.6969367 55.05867004
13 04 2018 16:10
                  346.6913147 5.539353848 480.392303 63.51219177
13 04 2018 16:20
                  421.052887 5.887952805 587.8363774 74.96842194
13 04 2018 16:30
13 04 2018 16:40
                 310.4973145 5.454020023 455.8696766 75.51407623
                 144.3361969 4.202010155 161.448164 65.2576828
13 04 2018 16:50
13 04 2018 17:00
                  137.8623047 4.236519814 168.2149739 67.55973816
13 04 2018 17:10
                  136.1936951 4.336438179 188.1584375 62.52418137
13 04 2018 17:20
                  67.88955688 3.989963055 126.0809657 52.4413681
13 04 2018 17:30
                  43.23522949 3.697557926 77.24881847 57.92153931
                  66.44741821 3.78738308 90.79402766 50.2592392
13 04 2018 17:40
                  47.64490891 3.810275078 94.45245863 50.77175903
13 04 2018 17:50
                  53.6293602 3.723453045 81.02124209 50.49663162
13 04 2018 18:00
13 04 2018 18:10
                  40.25511932 3.614474058 65.86943931 52.62458038
                  25.59626007 3.634392023 68.49680386 51.09217072
13 04 2018 18:20
13 04 2018 18:30
                  40.90927887 3.828366041 97.40293717 50.18378067
13 04 2018 18:40
                  71.62223053 4.009354115 124.7386704 50.63964081
13 04 2018 18:50
                  61.64165878 3.975666046 123.3752522 52.84745026
13 04 2018 19:00
                  18.6447506 3.584515095 62.03711471 58.32838058
13 04 2018 19:10
                  1.577872038 3.249120951 28.93677027 69.82360077
13 04 2018 19:20
                  0
                        3.083113909 19.21227883 59.2798996
13 04 2018 19:30 0
                        3.314871073 34.00737773 42.18144989
                        3.348742008 36.88942333 42.23374939
13 04 2018 19:40 0
```

```
3.606561899 64.84336778 42.89775085
13 04 2018 19:50 0
13 04 2018 20:00 21.12953949 3.299653053 32.77225389 47.58771133
13 04 2018 20:10
                 17.24449921 3.636176109 68.73523886 50.66067886
13 04 2018 20:20 33.47776031 3.770226955 88.1072276 57.97866058
13 04 2018 20:30 24.56184959 3.553550005 58.2270088 68.89720154
13 04 2018 20:40
                 43.99003983 3.790453911 91.27991596 71.12490845
13 04 2018 20:50
                 8.268316269 3.427865028 44.33715951 73.3571167
                 22.35366058 3.875710964 105.3723263 75.1337738
13 04 2018 21:00
13 04 2018 21:10 92.84348297 4.081142902 138.2131794 72.55814362
13 04 2018 21:20
                  110.4671021 4.200540066 161.1612462 73.06031036
13 04 2018 21:30
                 150.5037994 4.449289799 211.3425156 73.11872864
13 04 2018 21:40 121.2145004 4.316785812 184.1936839 72.25778961
13 04 2018 21:50
                 100.9004974 4.272017956 175.2397014 74.08360291
13 04 2018 22:00 110.8392029 4.313432217 183.5192101 73.19226074
13 04 2018 22:10 58.34492111 4.027657032 128.1519114 69.7496109
13 04 2018 22:20 57.867939 3.934302092 115.7312988 60.43939972
13 04 2018 22:30
                 37.46459961 3.668755054 73.17882757 54.94210052
13 04 2018 22:40 8.225411415 3.241516113 28.39491826 55.95063019
13 04 2018 22:50 0
                        3.5832479
                                   61.87818183 57.12141037
13 04 2018 23:00
                  133.7870026 4.498952866 221.7780899 67.20485687
13 04 2018 23:10
                  185.6018982 4.649180889 254.2616166 70.16040802
                  200.777298 4.745769024 275.9119694 71.99611664
13 04 2018 23:20
                  107.0549011 4.15470314 152.2693884 71.85125732
13 04 2018 23:30
13 04 2018 23:40
                 58.08121109 3.825720072 96.96813325 67.85653687
13 04 2018 23:50 97.12660217 4.081728935 138.3241478 67.49401093
14 04 2018 00:00 144.9595947 4.366558075 194.2760908 72.63865662
14 04 2018 00:10 94.55297852 4.192532063 159.6002323 74.10179901
14 04 2018 00:20 42.46297836 3.725356102 81.30271324 72.72595978
14 04 2018 00:30 27.08045006 3.681011915 74.89455958 77.46884155
14 04 2018 00:40 60.19129181 3.808026075 94.08932549 72.44055939
14 04 2018 00:50
                 110.4977036 4.463769913 214.3701406 63.09973907
                 132.622406 4.376113892 196.2274962 70.27129364
14 04 2018 01:00
14 04 2018 01:10
                 83.44302368 4.114324093 144.5216065 67.50279999
14 04 2018 01:20
                 29.87080002 3.679847002 74.73045976 56.99118042
14 04 2018 01:30 6.760461807 3.340922117 36.20773895 57.26576996
14 04 2018 01:40
                  0
                        3.704932928 78.31228835 68.61826324
14 04 2018 01:50
                  107.4088974 4.284122944 177.6502709 62.47319031
14 04 2018 02:00
                  105.1917038 4.32339716 185.5251398 61.68230057
14 04 2018 02:10
                 55.41920853 3.91702795 112.6201153 59.55913162
                 47.42522049 3.715306044 79.82281228 51.29098892
14 04 2018 02:20
                 47.70106888 3.748157024 84.72013943 54.96364975
14 04 2018 02:30
                 33.15962982 3.650763988 70.70394913 54.87791061
14 04 2018 02:40
14 04 2018 02:50
                  38.51308823 3.737149954 83.06000288 56.61964035
14 04 2018 03:00
                  23.12955093 3.536673069 56.21497685 56.12392044
14 04 2018 03:10
                  0.990802288 3.162199974 23.2951057 66.80132294
14 04 2018 03:20
                        3.415328026 43.09028635 65.45313263
14 04 2018 03:30
                  0
                        3.088061094 19.43833552 49.07637024
                        3.018187046 16.60844697 54.76404953
14 04 2018 03:40
                  0
14 04 2018 03:50
                  0
                        2.884211063 0
                                          50.21979904
14 04 2018 04:00
                  0
                        3.093745947 19.7029345 40.16326141
14 04 2018 04:10
                  0
                        3.006901026 16.22464276 43.88022995
14 04 2018 04:20
                        2.926846027 0
                                          52.86354065
14 04 2018 04:30
                        2.937113047 0
                                          51.2893219
14 04 2018 04:40
                        3.272173882 30.63585395 39.57162857
                  0
14 04 2018 04:50
                        3.116725922 20.82522475 38.84711838
                  0
14 04 2018 05:00
                  0
                        3.559389114 58.93374616 28.45446968
14 04 2018 05:10
                  0
                      3.289386034 31.95989522 21.06838036
                    3.209320068 26.20343347 21.28010941
3.20112896 25.67235538 21.47429085
14 04 2018 05:20 0
14 04 2018 05:30 0
```

```
14 04 2018 05:40
                        2.751950979 0
                                          31.98138046
                 0
14 04 2018 05:50
                        3.318613052 34.31675985 36.0975914
                  0
14 04 2018 06:00
                                         37.86548996
                  0
                        2.964432001 0
14 04 2018 06:10
                 0
                        2.248302937 0
                                         49.92060852
14 04 2018 06:20
                 0
                        2.017257929 0
                                         47.34383011
14 04 2018 06:30
                        1.825104952 0
                                         48.34156036
14 04 2018 06:40
                 0
                       1.596109033 0
                                         42.63145065
                        1.65477705 0
14 04 2018 06:50
                 0
                                         45.20568085
14 04 2018 07:00
                 0
                        1.791687012 0
                                         23.58114052
14 04 2018 07:10
                  0
                        1.628124952 0
                                         20.99766922
14 04 2018 07:20
                 0
                        2.747687101 0
                                         9.517046928
14 04 2018 07:30
                        2.386189938 0
                                         4.678170204
14 04 2018 07:40
                        2.175879955 0
                                         16.0459404
14 04 2018 07:50
                        2.068100929 0
                                          30.07980919
14 04 2018 08:00
                        2.483815908 0
                                          29.60473061
                 0
14 04 2018 08:10
                 0
                       2.61055398 0
                                          20.58953094
14 04 2018 08:20
                 0
                        3.15694499 22.99277808 19.45313072
14 04 2018 08:30
                 0
                       2.921489
                                    0
                                         25.56126022
                 0
14 04 2018 08:40
                       2.720290899 0
                                          36.57299042
14 04 2018 08:50
                 0
                        2.976686954 0
                                          39.50156021
14 04 2018 09:00
                        3.329106092 35.19626057 40.71868134
                 0
14 04 2018 09:10
                        3.053731918 17.95039091 46.70534134
                 0
14 04 2018 09:20
                       3.129070997 21.4630177 50.21192169
14 04 2018 09:30
                 0
                       3.001188993 16.03816089 67.07115173
14 04 2018 09:40
                 0
                        3.003786087 16.12230154 69.10925293
14 04 2018 09:50
                       3.286715031 31.75132169 71.40426636
14 04 2018 10:00
                 0
                        3.542521
                                    56.90699482 68.78970337
14 04 2018 10:10
                        3.373797894 39.13952181 74.4362793
                 0
14 04 2018 10:20
                        3.615149975 65.95755852 71.2101593
                 0
14 04 2018 10:30 83.60587311 4.455658913 212.6727103 64.26024628
14 04 2018 10:40
                 123.1399994 4.400115967 201.1516198 61.5498085
14 04 2018 10:50
                 133.973999 4.436709881 208.7221396 61.52930069
14 04 2018 11:00
                 129.5762939 4.431765079 207.6946612 68.95130157
                 169.399704 4.555434227 233.8263506 71.32726288
14 04 2018 11:10
                 200.7319946 4.765964031 280.5177736 69.26410675
14 04 2018 11:20
14 04 2018 11:30
                 133.2162933 4.533535004 229.1318663 62.75782013
                 135.0413055 4.407632828 202.7004428 59.10203934
14 04 2018 11:40
                 112.0958023 4.154625893 152.2544908 58.00424957
14 04 2018 11:50
14 04 2018 12:00 182.1483002 4.575817108 238.222393 57.48171997
14 04 2018 12:10 219.1083984 4.872362137 305.251211 62.09589005
14 04 2018 12:20 258.7597046 5.093830109 359.389511 59.83246994
14 04 2018 12:30 272.302887 5.250611782 400.0372337 57.03881073
14 04 2018 12:40
                 314.4364929 5.393308163 438.8252548 55.79681015
14 04 2018 12:50
                 373.6033936 5.670773983 519.4942072 55.58335114
14 04 2018 13:00
                 396.1358032 5.71010685 531.5210629 58.63766098
14 04 2018 13:10
                 500.5722046 6.071345806 648.3207499 59.91732025
14 04 2018 13:20
                 680.8563232 6.79220295 925.1261169 57.8562088
                 709.791626 7.107746124 1065.238787 60.41287994
14 04 2018 13:30
14 04 2018 13:40 813.3234863 7.375515938 1194.414858 57.12932968
14 04 2018 13:50
                 827.774292 7.317860126 1165.749555 61.09169006
14 04 2018 14:00
                 779.1071777 7.065865993 1045.91687 63.38560104
14 04 2018 14:10 847.7033081 6.938827038 988.6869641 68.13716125
14 04 2018 14:20
                 997.8375854 7.069637775 1047.647633 62.36146927
14 04 2018 14:30 910.4221802 6.833460808 942.7478849 61.99090958
14 04 2018 14:40
                 1110.343994 7.298635006 1156.297769 61.60850143
14 04 2018 14:50 1063.139038 7.137647152 1079.175474 61.87879944
14 04 2018 15:00 1084.979004 7.475163937 1245.116282 63.55342865
14 04 2018 15:10 998.473877 7.249265194 1132.265672 62.95681
14 04 2018 15:20 1261.671021 7.843138218 1441.488871 64.8140564
```

```
14 04 2018 15:30 2057.685059 9.621733665 2533.564114 66.55738068
                 2450.489014 11.01323032 3277.09323 73.49468994
14 04 2018 15:40
                 3017.888916 12.12448978 3539.995141 72.88366699
14 04 2018 15:50
14 04 2018 16:00 3106.73291 12.78061008 3594.189334 76.5821228
14 04 2018 16:10 3137.298096 12.85264015 3596.182863 75.59216309
14 04 2018 16:20
                 2747.553955 11.69476032 3466.292895 73.76394653
14 04 2018 16:30
                 2969.955078 11.88729
                                         3503.325506 69.98203278
                 3040.641113 12.08014011 3533.865659 72.78288269
14 04 2018 16:40
14 04 2018 16:50
                 3338.069092 12.74343967 3592.865407 75.88500214
                 3596.190918 13.03271961 3600 72.98697662
14 04 2018 17:00
14 04 2018 17:10
                 3598.778076 13.00990963 3600 72.3881073
14 04 2018 17:20
                 3545.073975 12.93630028 3597.55966 75.98509216
14 04 2018 17:30
                 3249.312988 12.50971031 3579.85066 77.52398682
14 04 2018 17:40
                 3228.285889 12.24763966 3555.313762 76.40720367
14 04 2018 17:50
                 3471.564941 12.9503603 3597.692783 76.94191742
14 04 2018 18:00
                 3453.812988 12.86518002 3596.453251 77.39395905
14 04 2018 18:10
                 3519.900879 13.47342968 3600 79.82826233
14 04 2018 18:20 3498.562012 13.59541035 3600 81.17369843
14 04 2018 18:30 3489.208984 13.14451027 3600 79.62541199
14 04 2018 18:40
                 3582.904053 13.82705975 3600 81.30740356
                 3468.124023 13.0033102 3600 83.3687973
14 04 2018 18:50
                 3558.170898 14.03505993 3600 83.67221069
14 04 2018 19:00
14 04 2018 19:10
                 3372.420898 12.43167973 3573.666413 85.39331818
14 04 2018 19:20
                 3419.700928 12.74396992 3592.885714 84.02702332
14 04 2018 19:30
                 3416.334961 12.99944973 3597.937197 82.37728882
14 04 2018 19:40
                 3179.146973 11.28199005 3363.176142 84.14613342
14 04 2018 19:50 3004.814941 10.95156956 3255.0734
                                                   82.49095917
14 04 2018 20:00 3083.524902 11.13234043 3317.193079 84.11276245
14 04 2018 20:10 2485.947998 9.540090561 2471.336083 85.27102661
14 04 2018 20:20 2634.050049 9.813678741 2670.703313 84.24346161
14 04 2018 20:30 2855.166992 10.52453041 3077.40381 82.5535965
14 04 2018 20:40 3260.02002 11.49728012 3421.147137 84.61627197
14 04 2018 20:50 3429.50293 12.46156979 3576.146053 86.2233429
14 04 2018 21:00 3481.327881 12.68194962 3590.230224 86.40325165
14 04 2018 21:10 3550.596924 13.69557953 3600 85.49024963
                 3343.198975 12.39140987 3570.106531 86.3787384
14 04 2018 21:20
14 04 2018 21:30
                 3489.193115 12.94419003 3597.63783 84.69075775
14 04 2018 21:40
                 3480.24707 13.37631989 3600 83.92797089
14 04 2018 21:50
                 3508.481934 13.23332024 3600 83.3878479
14 04 2018 22:00
                 3490.080078 13.54928017 3600 83.28119659
14 04 2018 22:10 3534.000977 13.85770988 3600 82.05619049
14 04 2018 22:20 3575.173096 15.23548985 3600 83.74643707
14 04 2018 22:30
                 3557.575928 14.53472042 3600 84.52572632
14 04 2018 22:40
                 3592.009033 14.77600956 3600 83.30104828
14 04 2018 22:50
                 3581.540039 14.44270992 3600 81.84253693
14 04 2018 23:00
                 3579.986084 14.29800034 3600 83.2427063
14 04 2018 23:10
                 3567.981934 14.32478046 3600
                                              81.52620697
                 3568.430908 15.02311993 3600
14 04 2018 23:20
                                              80.74482727
14 04 2018 23:30
                 3567.922119 14.78787994 3600
                                              79.80254364
14 04 2018 23:40
                 3602.080078 14.78514004 3600
                                               79.55651093
                 3572.24292 14.12967014 3600
14 04 2018 23:50
                                               80.6258316
15 04 2018 00:00
                 3601.510986 15.02565956 3600
                                              80.99024963
15 04 2018 00:10
                 3603.36499 15.03579998 3600
                                              79.62988281
15 04 2018 00:20
                 3602.072998 15.39869022 3600
                                              80.12461853
15 04 2018 00:30
                 3602.785889 15.42321014 3600
                                              80.80721283
15 04 2018 00:40
                 3599.093018 14.66137981 3600
                                              81.58344269
15 04 2018 00:50
                 3568.391113 14.26196003 3600 83.71778107
15 04 2018 01:00 3556.964111 14.23169041 3600 82.76571655
15 04 2018 01:10 3382.954102 13.02210045 3600 81.75002289
```

```
15 04 2018 01:20 3271.044922 12.98635006 3597.905423 82.25649261
                 2942.270996 11.60404968 3446.48015 81.69365692
15 04 2018 01:30
15 04 2018 01:40
                 2843.917969 11.12497997 3314.80649 83.10307312
15 04 2018 01:50 3572.433105 14.14264011 3600 80.70773315
15 04 2018 02:00 3596.863037 14.70067978 3600 80.69101715
15 04 2018 02:10
                 3602.509033 15.00617027 3600 81.17823029
15 04 2018 02:20
                 3584.660889 15.21887016 3600 82.29164886
                 3599.299072 15.38469028 3600 81.91178894
15 04 2018 02:30
                 3592.783936 14.78407955 3600
15 04 2018 02:40
                                              81.44143677
                 3576.105957 14.48598957 3600
15 04 2018 02:50
                                              82.20678711
15 04 2018 03:00
                 3598.638916 14.73892021 3600 81.94168854
15 04 2018 03:10
                 3587.0271
                            14.44116974 3600 82.28041077
15 04 2018 03:20
                 3572.884033 13.90242004 3600
                                               82.20413208
15 04 2018 03:30
                 3575.555908 14.01970005 3600 82.20023346
15 04 2018 03:40
                 3557.150879 13.71881008 3600 80.00347137
15 04 2018 03:50
                 3557.13208 14.15503025 3600 80.30989838
15 04 2018 04:00
                 3578.037109 14.12129021 3600 81.51225281
15 04 2018 04:10 3541.302979 14.12858009 3600 82.0370636
15 04 2018 04:20
                 3532.727051 13.9362402 3600 83.90170288
                 3555.760986 13.98525047 3600 82.79257965
15 04 2018 04:30
                 3566.039063 13.88597965 3600 83.21563721
15 04 2018 04:40
                             12.92076015 3597.379721 82.94304657
15 04 2018 04:50
                 3502.9729
15 04 2018 05:00
                 2988.583984 11.06285
                                         3294.183892 82.40487671
15 04 2018 05:10
                 2399.27002 9.345884323 2368.920795 81.25137329
15 04 2018 05:20 2168.356934 9.184737206 2263.699269 81.6088562
15 04 2018 05:30 2204.168945 9.063550949 2185.037811 81.59942627
15 04 2018 05:40 2493.156982 10.07713985 2839.140204 80.91973877
15 04 2018 05:50 1907.410034 8.382517815 1756.061122 80.14346313
15 04 2018 06:00 1490.484009 7.625360966 1323.315184 80.83242035
15 04 2018 06:10 1246.063965 7.264164925 1139.482396 80.68045807
15 04 2018 06:20 1103.366943 6.641517162 862.4687866 81.04988098
15 04 2018 06:30 1609.524048 8.021657944 1542.423626 80.12023926
15 04 2018 06:40 1197.271973 7.037702084 1033.051552 82.66861725
15 04 2018 06:50 1331.243042 7.366323948 1189.812368 83.18534851
15 04 2018 07:00 1915.363037 8.871384621 2061.431029 78.8056488
15 04 2018 07:10
                 2335.162109 9.983330727 2781.693883 80.07830048
15 04 2018 07:20 2723.89502 10.62514973 3123.391602 79.69914246
15 04 2018 07:30 3095.586914 11.65600967 3458.018412 81.82454681
15 04 2018 07:40 3143.552002 11.69384003 3466.099628 80.5437088
15 04 2018 07:50 3171.72998 11.92607021 3509.983055 79.86549377
15 04 2018 08:00 2998.165039 11.39640999 3395.156226 79.92353821
15 04 2018 08:10 2877.033936 11.0522604 3290.583086 80.42317963
15 04 2018 08:20 2867.7229 10.77670956 3187.773388 80.88768768
15 04 2018 08:30 3302.333984 12.33067036 3564.256904 80.17726135
15 04 2018 08:40 3489.426025 13.00730991 3600 82.52815247
15 04 2018 08:50
                 3313.191895 12.31624985 3562.782582 82.2616272
                 3342.816895 12.69536018 3590.852455 79.43438721
15 04 2018 09:00
                 3181.072998 11.64663029 3455.973342 79.34129333
15 04 2018 09:10
                 3244.266113 12.30097008 3561.184367 78.67698669
15 04 2018 09:20
                 2628.281006 10.33644009 2984.161096 78.84591675
15 04 2018 09:30
15 04 2018 09:40
                 2888.11499 11.15485001 3324.41806 77.70990753
15 04 2018 09:50
                 3273.241943 11.70265007 3467.943324 76.67165375
15 04 2018 10:00
                 3165.780029 11.61351967 3448.621184 74.95893097
15 04 2018 10:10
                 3314.52002 11.94686985 3513.44551 73.60398865
15 04 2018 10:20
                 2992.337891 11.49755955 3421.21633 75.71463776
15 04 2018 10:30 2938.829102 11.46405029 3412.80874 75.5266037
15 04 2018 10:40 2251.599121 9.58532238 2506.105695 67.85025024
15 04 2018 10:50 2518.969971 10.14752007 2880.467066 67.24038696
15 04 2018 11:00 2273.875977 9.563312531 2489.278589 66.78941345
```

```
15 04 2018 11:10 2344.314941 9.869819641 2708.466516 69.7305069
                 2457.474121 10.14832973 2880.933813 70.05776215
15 04 2018 11:20
15 04 2018 11:30
                 2518.312012 10.24050045 2932.797471 69.36493683
15 04 2018 11:40 2716.904053 10.76021957 3181.04638 69.87518311
15 04 2018 11:50
                 2816.539063 11.05813026 3292.582139 71.53518677
15 04 2018 12:00
                 2649.699951 10.4356699 3034.558005 69.63580322
15 04 2018 12:10
                 2662.927979 10.6038599 3113.881105 69.69460297
                 2741.326904 10.66329002 3140.138562 66.67172241
15 04 2018 12:20
15 04 2018 12:30
                 3147.891113 11.52497005 3427.929515 63.97301102
                 2594.915039 10.33452034 2983.159012 66.45066833
15 04 2018 12:40
15 04 2018 12:50
                 2506.037109 10.12197018 2865.637423 66.02751923
15 04 2018 13:00
                 2716.99292 10.68593979 3149.908625 67.02475739
15 04 2018 13:10
                 2756.753906 10.83858013 3212.421856 67.11779785
15 04 2018 13:20
                 2226.251953 9.652155876 2556.147144 64.08049774
15 04 2018 13:30
                 2294.259033 9.62033844 2532.520601 66.0639267
                 2816.344971 11.0278101 3282.172738 70.06382751
15 04 2018 13:40
15 04 2018 13:50
                 3122.208008 11.87761021 3501.622496 73.0393219
15 04 2018 14:00 2999.740967 11.4001503 3396.156388 71.19584656
15 04 2018 14:10 2759.198975 10.89482021 3234.028368 72.28675842
15 04 2018 14:20
                 3158.428955 11.65452003 3457.694718 73.41985321
                 3009.944092 11.2880497 3364.937777 70.03653717
15 04 2018 14:30
                 3057.908936 11.50082016 3422.022612 69.2454834
15 04 2018 14:40
15 04 2018 14:50
                 3052.079102 11.71490002 3470.482991 72.40371704
15 04 2018 15:00
                 2537.092041 10.3924799 3012.958133 69.75914764
15 04 2018 15:10
                 2916.638916 11.3852396 3392.152379 69.05412292
15 04 2018 15:20
                 3020.518066 11.34803009 3381.962957 68.1696701
15 04 2018 15:30
                 3004.037109 11.23033047 3347.844002 68.48136902
15 04 2018 15:40
                 3591.427002 13.30967999 3600 75.1162796
15 04 2018 15:50
                 3591.539063 13.00944042 3600
                                               73.60426331
15 04 2018 16:00
                 3595.514893 13.40375042 3600 73.79223633
                 3604.324951 14.46041965 3600 76.69056702
15 04 2018 16:10
15 04 2018 16:20
                 3603.6521
                            15.46271038 3600 79.42492676
15 04 2018 16:30
                 3561.955078 15.05407047 3600
                                               80.11798096
15 04 2018 16:40
                 3597.522949 15.13747978 3600
                                               80.69432068
                 3597.133057 14.96685982 3600
15 04 2018 16:50
                                               79.70398712
15 04 2018 17:00
                 3603.055908 16.19222069 3600
                                               78.5891037
15 04 2018 17:10
                 3604.278076 16.55458069 3600
                                               80.07758331
15 04 2018 17:20
                 3604.085938 15.87322044 3600
                                               76.00557709
15 04 2018 17:30
                 3604.231934 15.72122002 3600
                                               74.88773346
15 04 2018 17:40
                 3602.580078 15.22033024 3600
                                               75.35916138
15 04 2018 17:50
                 3603.095947 15.18733025 3600
                                               76.68094635
15 04 2018 18:00
                 3603.887939 15.19941998 3600
                                               77.31585693
15 04 2018 18:10
                 3600.643066 15.37738037 3600
                                               79.21611023
15 04 2018 18:20
                 3603.008057 14.95016003 3600
                                               78.33358002
                                              79.88408661
15 04 2018 18:30
                 3531.050049 14.0912199 3600
15 04 2018 18:40
                 3604.831055 14.98859978 3600
                                              76.03707123
15 04 2018 18:50
                 3588.012939 14.94661999 3600
                                               77.9313736
                 3599.39502 15.00053024 3600
                                               76.27101898
15 04 2018 19:00
                 3597.451904 14.69602966 3600
15 04 2018 19:10
                                               76.45134735
15 04 2018 19:20
                 3603.690918 15.20127964 3600
                                               78.14753723
                 3604.665039 15.33026981 3600
15 04 2018 19:30
                                               75.92838287
15 04 2018 19:40
                 3604.410889 15.99403954 3600 77.21130371
15 04 2018 19:50
                 3604.509033 16.20849037 3600
                                               81.84459686
15 04 2018 20:00
                 3588.771973 14.9602499 3600
                                               81.48121643
15 04 2018 20:10
                 3587.697998 15.0483799 3600
                                               84.59446716
15 04 2018 20:20
                 3435.271973 13.31735039 3600 85.32433319
15 04 2018 20:30
                 3022.89209 11.57166004 3439.0278
                                                    84.25280762
15 04 2018 20:40 3281.075928 12.44285011 3574.609257 83.79297638
15 04 2018 20:50 2661.496094 10.19995975 2910.293931 83.97431183
```

```
15 04 2018 21:00 2881.822998 10.55832958 3093.14719 84.1520462
15 04 2018 21:10 3457.354004 13.5678196 3600 82.69745636
15 04 2018 21:20 3419.349121 13.06221962 3600 81.18488312
15 04 2018 21:30 3089.386963 11.70948982 3469.364769 82.51354218
15 04 2018 21:40 2918.376953 11.31696033 3373.237054 82.61534119
15 04 2018 21:50 3509.952881 13.54440022 3600 81.85411072
15 04 2018 22:00 3383.110107 13.13918018 3600 82.7768631
                             12.76879025 3593.79022 82.59126282
15 04 2018 22:10 3263.375
15 04 2018 22:20 3119.398926 12.74683952 3592.994896 82.79685211
                 2131.301025 9.096701622 2206.508132 88.46494293
15 04 2018 22:30
15 04 2018 22:40
                 1253.827026 6.959711075 997.9548098 91.40103912
15 04 2018 22:50 747.7042847 5.77000618 550.1306132 97.57549286
15 04 2018 23:00 601.4603882 5.530056953 477.6880209 103.1865005
15 04 2018 23:10 435.6209106 4.73884201 274.3385383 90.81131744
15 04 2018 23:20 298.7055969 4.369176865 194.8103698 93.17883301
15 04 2018 23:30 290.1980896 4.536426067 229.7499313 99.75105286
15 04 2018 23:40 239.405304 4.284122944 177.6502709 98.40525818
15 04 2018 23:50 459.2640991 5.030540943 343.5380929 97.49182892
16 04 2018 00:00 370.6571045 4.770637989 281.5877188 98.15824127
16 04 2018 00:10 511.265686 5.299395084 413.1004637 102.5454025
16 04 2018 00:20 582.7836304 5.610803127 501.4464196 97.81858063
16 04 2018 00:30 525.7894287 5.275897026 406.7829401 91.86382294
16 04 2018 00:40 444.1239929 4.918815136 316.3027829 93.86509705
16 04 2018 00:50 471.7756958 4.975000858 329.8818064 95.47868347
16 04 2018 01:00 497.3747864 5.321042061 418.9621268 101.0979004
16 04 2018 01:10 524.6953125 4.99539423 334.8689208 91.56907654
16 04 2018 01:20 609.2755127 5.191270828 384.4160559 95.53307343
16 04 2018 01:30 759.6516724 5.606983185 500.3085504 88.88773346
16 04 2018 01:40 712.6469727 5.527348042 476.901565 87.02974701
16 04 2018 01:50 503.151886 4.910886765 314.405433 90.57945251
16 04 2018 02:00 401.8164978 4.570086002 236.9837374 87.18792725
16 04 2018 02:10 471.3233032 4.717251778 269.4552175 85.83582306
16 04 2018 02:20 467.3963928 5.45218277 455.3490206 85.33350372
16 04 2018 02:30 405.3526917 4.786117077 285.1418623 81.68647766
16 04 2018 02:40 434.6452942 4.982986927 331.8310257 78.93389893
16 04 2018 02:50 237.139801 4.091967106 140.2653883 89.17436218
16 04 2018 03:00
                 141.0534058 3.865242004 103.5792422 93.5385437
16 04 2018 03:10 251.7330017 4.535251141 229.4986884 92.84928131
16 04 2018 03:20 206.8540039 4.310390949 182.9080771 96.69229889
16 04 2018 03:30 279.4007874 4.441849232 209.7915458 98.19109344
16 04 2018 03:40 289.1357117 4.521253109 226.511867 98.82672882
16 04 2018 03:50 176.3887939 4.191746235 159.4472232 96.4901123
16 04 2018 04:00 195.8684998 4.245923996 170.0695815 91.23661041
16 04 2018 04:10
                 191.0355072 4.245923996 170.0695815 92.89343262
16 04 2018 04:20 253.8103027 4.294464111 179.7157555 90.66567993
16 04 2018 04:30 246.366394 4.279236794 176.676317 88.60298157
16 04 2018 04:40 200.2996979 4.073656082 136.7969163 93.90595245
16 04 2018 04:50 234.4530029 4.192080021 159.5122112 98.27993774
16 04 2018 05:00 464.8529968 5.420667171 446.4652543 107.677803
16 04 2018 05:10 942.3709106 7.063872814 1045.003005 112.8410034
16 04 2018 05:20 668.3845215 5.96716404 613.9711432 108.6059036
16 04 2018 05:30 557.8009033 5.851449966 576.0142045 110.6062012
16 04 2018 05:40 473.4916992 5.566656113 488.3806819 113.6901016
16 04 2018 05:50 404.0317993 5.157486916 375.6522404 113.0871964
16 04 2018 06:00 436.6881104 5.477972984 462.6856992 120.9042969
16 04 2018 06:10 376.5252991 5.186340809 383.131358 121.952301
16 04 2018 06:20 280.4786987 4.90530014 313.0712524 121.8641968
16 04 2018 06:30 196.9172974 4.553777218 233.4701097 123.259903
16 04 2018 06:40 108.7706985 3.958101034 120.0958404 125.7423019
```

```
16 04 2018 06:50 381.3452148 5.386827946 437.0253925 133.7079926
16 04 2018 07:00 472.6456909 5.630155087 507.2323636 136.6914978
16 04 2018 07:10 558.5366821 6.33552599 743.1429832 129.5950012
16 04 2018 07:20 69.75808716 3.088201046 19.44478743 153.7843018
16 04 2018 07:30 0
                       1.717929959 0
                                         173.1994934
16 04 2018 07:40 0
                       1.552175045 0
                                         191.0839996
16 04 2018 07:50 0
                       2.152229071 0
                                         140.6434021
16 04 2018 08:00 0
                       3.301827908 32.9464999 128.9712067
16 04 2018 08:10 0
                       3.567357063 59.90694901 131.8858948
                 25.69791031 3.818396091 95.77044793 149.6315002
16 04 2018 08:20
16 04 2018 08:30
                 22.38999939 3.428132057 44.3639905 137.8717041
16 04 2018 08:40
                 9.190500259 3.185786963 24.70652644 141.4604034
16 04 2018 08:50 7.456003189 2.904726028 0
                                               138.1985931
16 04 2018 09:00 0
                       1.843309999 0
                                         149.096405
16 04 2018 09:10 0
                       2.641218901 0
                                         154.2897949
16 04 2018 09:20 0
                       2.746606112 0
                                         126.5070038
16 04 2018 09:30 0
                       2.444941044 0
                                         139.3426056
16 04 2018 09:40 0
                       3.305811882 33.2676528 156.0444031
16 04 2018 09:50 0
                       2.443346024 0
                                         161.8701019
16 04 2018 10:00 0
                       2.265456915 0
                                         147.7165985
16 04 2018 10:10 0
                       3.10384202 20.18559785 140.0012054
16 04 2018 10:20 0
                       3.191236019 25.04524981 158.0531006
16 04 2018 10:30 0
                       2.706861973 0
                                         167.7151031
16 04 2018 10:40 0
                       3,633394003 68,36364513 140,4358063
16 04 2018 10:50 39.2713089 3.638674021 69.06992905 138.2064972
16 04 2018 11:00 44.41814041 3.5379529
                                         56.3659586 138.5608978
16 04 2018 11:10 8.031737328 2.86937809 0
                                               145.6349945
16 04 2018 11:20 0
                                         160.7931061
                       2.660996914 0
16 04 2018 11:30 17.65189934 3.939343929 116.6483671 162.0110931
                                         162.0469055
16 04 2018 11:40 0
                       2.616117954 0
16 04 2018 11:50 0
                       2.695967913 0
                                         161.8419952
16 04 2018 12:00 0
                       2.685584068 0
                                         161.3193054
16 04 2018 12:10 0
                       3.071247101 18.68599918 162.633606
16 04 2018 12:20 0
                       3.228199005 27.46835104 139.2870941
16 04 2018 12:30 37.1796608 3.47200799 48.92757908 142.9757996
                 42.4825592 3.534243107 55.9290352 137.1723022
16 04 2018 12:40
16 04 2018 12:50
                 19.34936905 2.891453981 0
                                               144.3733978
                 12.59510994 3.675139904 74.06958813 141.7510071
16 04 2018 13:00
16 04 2018 13:10 0
                       2.135827065 0
                                         144.3562927
16 04 2018 13:20 0
                       2.321382046 0
                                         141.7360992
16 04 2018 13:30 0
                       2.916027069 0
                                         125.677002
16 04 2018 13:40 0
                       3.356009007 37.53168122 105.8563004
16 04 2018 13:50 17.26358986 3.029036999 16.99663574 99.9162674
16 04 2018 14:00 85.91094208 4.04991293 132.3226058 109.7044983
16 04 2018 14:10 161.2442017 4.530764103 228.5399693 125.197403
16 04 2018 14:20 139.4436035 4.341795921 189.2429908 121.3749008
16 04 2018 14:30 22.85244942 2.97537899 0
                                               132,2548065
16 04 2018 14:40 77.83293915 3.834954977 98.49054436 131.9120941
16 04 2018 14:50 131.3820038 4.217512131 164.480348 140.3847961
16 04 2018 15:00
                 205.9642944 4.685736179 262.382898 139.3206024
16 04 2018 15:10
                 177.5225983 4.632657051 250.6191089 139.1681061
16 04 2018 15:20
                 200.0924988 4.612158775 246.1248398 140.9871979
16 04 2018 15:30
                 291.7692871 5.223690987 392.9142187 137.3692932
16 04 2018 15:40 343.9432068 5.56776619 488.7069598 136.521698
16 04 2018 15:50 292.3764038 5.212734222 390.0324432 141.6103058
16 04 2018 16:00 262.2038879 5.09699297 360.1899169 142.9501953
16 04 2018 16:10 417.0284119 5.831689835 569.671985 142.2057953
16 04 2018 16:20 364.7033081 5.654070854 514.4325989 139.5122986
16 04 2018 16:30 254.2373962 5.16242981 376.9286604 138.0630035
```

```
16 04 2018 16:40 379.9241943 5.65073204 513.4240743 134.6593018
16 04 2018 16:50 386.9963989 5.682500839 523.0640766 133.5955963
16 04 2018 17:00
                 359.7804871 5.547513962 482.7725602 141.2142029
16 04 2018 17:10 414.4916077 5.730905056 537.9421651 144.0610962
16 04 2018 17:20 431.3106079 5.724850178 536.0683981 144.0693054
16 04 2018 17:30 454.2923889 5.763542175 548.1051143 145.3356018
16 04 2018 17:40 485.0820923 5.963925838 612.8896911 147.6761932
                 539.2125854 6.146747112 674.6219198 148.5348053
16 04 2018 17:50
                 495.818512 5.985009193 619.9509838 149.6719971
16 04 2018 18:00
                 480.5852966 5.802760124 560.4588974 154.7225037
16 04 2018 18:10
16 04 2018 18:20
                 523.1445923 6.091210842 655.1910488 157.118103
16 04 2018 18:30 536.0830078 6.104164124 659.693634 159.4515076
16 04 2018 18:40 563.1917114 6.26847887 718.3680318 163.5809021
16 04 2018 18:50 554.5404053 6.280703068 722.8489021 160.7138977
16 04 2018 19:00 641.4976807 6.789859772 924.1314116 154.4584961
16 04 2018 19:10 600.9456177 6.635763168 860.1282646 153.2140045
16 04 2018 19:20 572.2479858 6.371349812 756.5799036 158.8632965
16 04 2018 19:30 423.6578064 5.787907124 555.761857 160.4328003
16 04 2018 19:40 388.0686951 5.708814144 531.1233741 164.4004059
16 04 2018 19:50 486.5920105 6.011716843 627.9514038 161.5753021
16 04 2018 20:00 476.7701111 5.849328041 575.3312227 160.2012024
                                         188.6703057 162.2035065
16 04 2018 20:10
                 168.6148071 4.3389678
                 91.4271698 3.888247967 107.542691 159.5279999
16 04 2018 20:20
16 04 2018 20:30
                 65.10677338 3.714103937 79.64688063 159.0140991
16 04 2018 20:40 8.648810387 3.203195095 25.80530277 170.8769989
16 04 2018 20:50 0
                       3.291307926 32.11067827 164.1623993
16 04 2018 21:00 0
                       3.198169947 25.48314451 152.7563019
16 04 2018 21:10
                 17.00708961 3.766094923 87.46715202 163.8162994
16 04 2018 21:20
                 83.0700531 3.863703966 103.3172902 156.460907
                 32.05844116 3.199359894 25.55906598 142.3038025
16 04 2018 21:30
16 04 2018 21:40 15.54039955 3.122534037 21.12225638 146.1607971
16 04 2018 21:50 0
                       2.35857296 0
                                         132.3379059
16 04 2018 22:00 0
                       2.563633919 0
                                         122.3426971
                                         144.655899
16 04 2018 22:10 0
                       2.243534088 0
16 04 2018 22:20 0
                       2.004024029 0
                                         149.1609039
16 04 2018 22:30 0
                       1.872949958 0
                                         146.3898926
16 04 2018 22:40 0
                       2.906774044 0
                                         120.6826019
16 04 2018 22:50 8.205264091 3.872502089 104.8208584 118.9997025
16 04 2018 23:00 71.58685303 3.766627073 87.54943191 113.9335022
16 04 2018 23:10
                 241.1887054 4.999512196 335.8797717 87.79276276
16 04 2018 23:20
                 72.78119659 3.389657974 40.61572213 88.27101135
16 04 2018 23:30 3.049401045 2.492909908 0
                                               75.7545166
16 04 2018 23:40 0
                       1.313343048 0
                                         61.17687988
16 04 2018 23:50 0
                       0.99682653 0
                                         109.1475983
17 04 2018 00:00 0
                       2.316174984 0
                                         93.45201874
17 04 2018 00:10 0
                       3.211437941 26.34249432 95.77868652
17 04 2018 00:20 23.25686073 3.614095926 65.82017418 98.22783661
17 04 2018 00:30 0
                       2.654133081 0
                                         127.1838989
17 04 2018 00:40 0
                       2.160650969 0
                                         167.8410034
17 04 2018 00:50 0
                       4.585949898 240.4173993 249.8029938
17 04 2018 01:00 430.3161926 5.986610889 620.4893777 234.1625977
17 04 2018 01:10 560.6400146 6.345627785 746.9178955 214.9945984
17 04 2018 01:20 422.3904114 5.808959007 562.4258311 209.7572021
17 04 2018 01:30 136.354599 4.391313076 199.3418941 199.2344971
17 04 2018 01:40 108.1396027 3.903173923 110.1594164 184.3771973
17 04 2018 01:50 180.4192963 4.52427578 227.155818 172.2068939
17 04 2018 02:00 350.2438049 5.345263004 425.5687196 164.100296
17 04 2018 02:10 212.2106934 4.832531929 295.8989579 162.2404022
17 04 2018 02:20 72.05947876 3.745002985 84.24245133 145.377594
```

```
3.521998882 54.50259088 128.0384979
17 04 2018 02:30 0
17 04 2018 02:40 189.1894073 5.517419815 474.0250071 172.7427979
17 04 2018 02:50
                 704.7045898 6.484756947 800.0412838 181.2333984
17 04 2018 03:00 667.1882935 6.656490803 868.5772886 175.841507
17 04 2018 03:10 528.1160278 5.973228931 615.9996348 169.5547943
17 04 2018 03:20 547.3804932 5.735101223 539.2428651 195.6652985
17 04 2018 03:30 643.8356934 6.314741135 735.410717 217.5843048
17 04 2018 03:40 907.4282227 7.258098125 1136.540177 215.6587067
                 1076.025024 7.706264019 1366.542759 215.0312042
17 04 2018 03:50
                 1170.291016 7.770956039 1401.688506 217.6421967
17 04 2018 04:00
17 04 2018 04:10
                 1668.822021 8.892653465 2075.032363 210.5278931
17 04 2018 04:20 1810.100952 9.086835861 2200.114497 209.3766937
17 04 2018 04:30 2074.664063 9.724080086 2608.256996 211.476593
17 04 2018 04:40 2227.741943 10.00547028 2795.498577 221.0063934
17 04 2018 04:50 1901.723999 9.34873867 2370.789523 224.2277069
17 04 2018 05:00 1331.792969 8.531104088 1847.20878 224.2982025
17 04 2018 05:10 0
                       7.819714069 1428.506796 227.1929016
17 04 2018 06:50 0
                       0
                             0
                                   0
                       3.615737915 66.03426768 0
17 04 2018 07:00 0
                       3.554186106 58.30373457 263.5974121
17 04 2018 07:10 0
17 04 2018 07:20 0
                       3.010433912 16.34259451 221.6192017
                       3.48792696 50.65948018 173.0110931
17 04 2018 07:30 0
17 04 2018 07:40 16.72604942 3.905586004 110.585633 209.4082031
17 04 2018 07:50 0
                       2.223051071 0
                                         239.589798
17 04 2018 08:00 0
                       1.414415956 0
                                         221.8090973
17 04 2018 08:10 0
                       3.840032101 99.33334164 197.6620026
17 04 2018 08:20 48.17602158 3.812927008 94.88168983 182.9983063
                 104.4264984 4.232727051 167.4682917 188.4420929
17 04 2018 08:30
17 04 2018 08:40 42.65742111 3.399377108 41.54023337 214.463501
                                         209.759201
17 04 2018 08:50 0
                       2.808953047 0
17 04 2018 09:00 7.796537876 3.46654892 48.34299699 232.9013062
17 04 2018 09:10 0
                       1.405578017 0
                                         320.0481873
17 04 2018 09:20 0
                       2.090722084 0
                                         149,4573975
17 04 2018 09:30 0
                       2.05926609 0
                                         225.6127014
17 04 2018 09:40 0
                       1.856197953 0
                                         134.371994
17 04 2018 09:50 0
                       3.579133034 61.36386274 134.8670044
17 04 2018 10:00 0
                       1.666578054 0
                                         168.425293
17 04 2018 10:10 0
                       1.63765204 0
                                         104.1568985
17 04 2018 10:20 0
                       3.499558926 51.95061523 79.94827271
17 04 2018 10:30 101.0007019 4.258933067 172.6426802 57.88203049
17 04 2018 10:40 210.5971985 4.890697002 309.5945185 53.5284996
17 04 2018 10:50 172.7684937 4.616402149 247.0530019 68.68910217
17 04 2018 11:00 193.165802 4.768519878 281.1026631 72.77471161
17 04 2018 11:10
                 19.58003044 3.026560068 16.90635716 93.34628296
17 04 2018 11:20 4.037464142 3.015574932 16.51780411 103.1190033
                 173.8090057 4.413162231 203.8418139 83.5668869
17 04 2018 11:30
17 04 2018 11:40 9.211072922 2.583102942 0
                                               87.46903992
17 04 2018 11:50
                 36.67136002 2.913820982 0
                                               103.5418015
17 04 2018 12:00 0
                       2.421358109 0
                                         91.57792664
17 04 2018 12:10 0
                       2.380091906 0
                                         93.24291992
17 04 2018 12:20 0
                       2.727104902 0
                                         67.47116089
17 04 2018 12:30 0
                       2.140657902 0
                                         71.50950623
17 04 2018 12:40 0
                       3.015683889 16.52156321 78.72376251
17 04 2018 12:50 0
                       2.911354065 0
                                         72.20841217
17 04 2018 13:00 0
                       1.42337501 0
                                         51.4491806
17 04 2018 13:10
                 0
                       1.118934035 0
                                         318.5643005
17 04 2018 13:20 0
                       2.705307007 0
                                         74.66335297
17 04 2018 13:30 0
                       2.141726017 0
                                         103.4820023
17 04 2018 13:40 0
                    2.42225194 0
                                         81.63622284
```

```
17 04 2018 13:50 0
                       2.924928904 0
                                         90.17043304
17 04 2018 14:00 0
                       2.171061039 0
                                         69.10640717
17 04 2018 14:10 0
                       3.407491922 42.32371486 45.57678986
17 04 2018 14:20 0
                       3.518254042 54.07110947 64.90846252
17 04 2018 14:30 0
                       3.353885889 37.34316625 58.8772316
17 04 2018 14:40 14.28940964 3.832168102 98.02967931 66.63194275
17 04 2018 14:50 95.09864044 4.184346199 158.0078724 68.15566254
17 04 2018 15:00 45.00252914 3.73150897 82.21671693 52.9620018
                 133.0119934 4.453760147 212.2759033 68.83640289
17 04 2018 15:10
                 205.1392975 4.829652786 295.227294 61.12123871
17 04 2018 15:20
17 04 2018 15:30
                 286.3085022 5.518970966 474.4738283 54.63552856
17 04 2018 15:40 337.3721924 5.517099857 473.932456 49.29653931
17 04 2018 15:50 378.0949097 5.705235958 530.0234383 56.03562927
17 04 2018 16:00 359.2887878 5.562728882 487.2273066 53.38983154
17 04 2018 16:10 358.2533875 5.643567085 511.2634645 50.280159
17 04 2018 16:20 393.9122925 5.761444092 547.4485814 52.5952301
17 04 2018 16:30 299.8164063 5.306454182 415.0075347 63.42794037
17 04 2018 16:40 292.2153015 5.430204868 449.144363 59.59642029
17 04 2018 16:50 239.0121002 5.187835217 383.5205703 59.65465927
17 04 2018 17:00 286.6289063 5.47279501 461.2078389 60.54066849
17 04 2018 17:10 0
                       6.084492207 652.8626986 70.56835175
                       7.61671114 1318.742437 0
17 04 2018 18:10 0
17 04 2018 18:20 0
                       7.425848007 1219.837814 0
17 04 2018 18:30 743.2996216 7.655953884 1339.56473 71.68035126
17 04 2018 18:40 895.3214111 7.316351891 1165.006139 71.21750641
17 04 2018 18:50 986.7680054 7.596875191 1308.292504 70.3008194
17 04 2018 19:00 930.6478882 7.281873226 1148.099981 71.44197083
17 04 2018 19:10 839.3505859 7.202496052 1109.813187 71.19164276
17 04 2018 19:20 782.3032837 7.059679985 1043.082291 69.05980682
17 04 2018 19:30 558.1066895 6.331767082 741.741151 66.16214752
17 04 2018 19:40 521.2952881 6.114914894 663.4442364 72.50147247
17 04 2018 19:50 584.3781738 6.301665783 730.5704382 77.56365967
17 04 2018 20:00 379.9017944 5.648114204 512.6340837 75.27474976
17 04 2018 20:10 178.9394073 4.685966015 262.4342364 65.56144714
17 04 2018 20:20 102.2638016 4.21325922 163.6472654 59.67430878
                 73.11799622 4.106032848 142.9403984 52.19004059
17 04 2018 20:30
17 04 2018 20:40 50.30091858 3.911550999 111.6436498 52.06805038
17 04 2018 20:50 59.65493011 3.866956949 103.8717705 54.74544144
17 04 2018 21:00 56.16070175 3.78558898 90.51085096 49.22602081
17 04 2018 21:10 18.55734062 3.250739098 29.05325873 47.26493073
17 04 2018 21:20 63.83396912 3.794841051 91.97669736 53.3572197
17 04 2018 21:30 82.88144684 3.987632036 125.6375883 62.60200119
17 04 2018 21:40 25.36734962 3.376230955 39.36336909 58.64971924
17 04 2018 21:50 1.91286695 2.851881981 0
                                             56.7881813
17 04 2018 22:00 0
                       2.824028969 0
                                         64.20243073
17 04 2018 22:10 0
                       2.76571393 0
                                         53.76898956
17 04 2018 22:20 0
                       2.805042982 0
                                         36.9408989
17 04 2018 22:30 0
                       3.056047916 18.04484284 22.3307209
17 04 2018 22:40 0
                       2.672915936 0
                                         38.14062119
17 04 2018 22:50 0
                       2.539067984 0
                                         38.20198059
17 04 2018 23:00 0
                       3.250504017 29.03630954 26.07933998
17 04 2018 23:10 0
                       3.877712011 105.7170544 25.13565063
17 04 2018 23:20 9.910199165 3.590348959 62.77211816 25.60269928
17 04 2018 23:30 0
                       3.471539021 48.87717249 22.46217918
17 04 2018 23:40 26.51197052 4.221610069 165.2839458 18.02494049
17 04 2018 23:50 56.77183151 4.1758461 156.3579241 26.37343025
18 04 2018 00:00 57.59027863 4.120862007 145.7707497 33.77632904
18 04 2018 00:10 91.65543365 4.259017944 172.6594973 40.66213989
18 04 2018 00:20 124.2121964 4.405434132 202.2470762 43.02146149
```

```
18 04 2018 00:30 146.7884979 4.101784229 142.1314156 49.29590988
                 287.9146118 5.413834095 444.5508704 44.11507034
18 04 2018 00:40
18 04 2018 00:50
                 312.5494995 5.477262974 462.4829083 40.76490021
18 04 2018 01:00 333.4689026 5.542140961 481.2045883 41.86597824
18 04 2018 01:10 342.0253906 5.434185982 450.2650592 43.11874008
18 04 2018 01:20
                 370.2553101 5.636671066 509.1886365 40.75173187
18 04 2018 01:30
                 370.7676086 5.693043232 526.2848576 39.51688004
18 04 2018 01:40
                 361.7825928 5.561196804 486.7777491 43.1348114
18 04 2018 01:50
                 315.5256042 5.369317055 432.180331 40.93568039
                 327.4260864 5.375463009 433.8777698 43.55947113
18 04 2018 02:00
18 04 2018 02:10
                 412.8215942 5.748526096 543.4160018 48.75294113
18 04 2018 02:20
                 524.2354736 6.135435104 670.6373729 50.99182892
18 04 2018 02:30
                 577.6339722 6.322076797 738.1343507 52.43503952
18 04 2018 02:40
                 690.7835083 6.554552078 827.4953157 51.39839172
18 04 2018 02:50
                 712.2493896 6.635904789 860.1858255 51.60165024
18 04 2018 03:00
                 795.5670776 6.773718834 917.2971033 50.30342102
18 04 2018 03:10
                 809.5137939 7.002698898 1017.204207 51.98439026
18 04 2018 03:20
                 794.4318848 6.816681862 935.5568059 50.97716141
                 758.6218262 6.750518799 907.5278112 54.40370178
18 04 2018 03:30
18 04 2018 03:40
                 698.0903931 6.553398132 827.0369873 57.57192993
18 04 2018 03:50
                 688.0305786 6.462099075 791.2450551 58.25156021
                 749.1165161 6.637001991 860.6318546 56.93751907
18 04 2018 04:00
18 04 2018 04:10
                 807.3770752 6.756404877 910.0003728 51.90703964
18 04 2018 04:20
                 1018.557007 7.14197588 1081.202928 50.14542007
18 04 2018 04:30
                 1115.344971 7.310135841 1161.945661 49.972229
18 04 2018 04:40
                 1251.863037 7.674180031 1349.3018
                                                     48.36943054
18 04 2018 04:50
                 1334.573975 7.952174187 1502.728868 49.50939941
                 1297.58606 8.19832325 1645.530614 50.36648178
18 04 2018 05:00
                 1293.44104 7.92386198 1486.701641 51.45640945
18 04 2018 05:10
                 1255.737061 8.003679276 1532.104378 52.34283829
18 04 2018 05:20
18 04 2018 05:30
                 1095.573975 7.850772858 1445.733684 54.67136002
18 04 2018 05:40 974.6906128 7.627706051 1324.55657 55.2634697
18 04 2018 05:50
                 953.6102295 7.548500061 1283.022778 55.04475021
18 04 2018 06:00
                 928.8713989 7.523022175 1269.838459 53.55595016
                 747.7827759 7.018891811 1024.515912 57.4285202
18 04 2018 06:10
                 660.5629272 6.650278091 866.039694 57.41954041
18 04 2018 06:20
18 04 2018 06:30
                 587.3004761 6.396471024 766.0857255 58.83996964
18 04 2018 06:40
                 708.7252197 6.791228771 924.712488 57.64123917
18 04 2018 06:50
                 798.0866699 7.248120785 1131.712657 55.59236145
18 04 2018 07:00
                 855.0496216 7.373967171 1193.638512 54.17102051
18 04 2018 07:10 959.1644897 7.539864063 1278.544097 49.39664078
18 04 2018 07:20 876.4412231 7.415834904 1214.750112 49.06444168
18 04 2018 07:30
                 851.175415 7.21949482 1117.938863 52.16194916
18 04 2018 07:40
                 545.8679199 6.328228951 740.4230522 54.19955826
18 04 2018 07:50
                 577.5560303 6.489789963 802.0029056 59.62968063
18 04 2018 08:00
                 628.0924072 6.527835846 816.9222969 61.16669846
                 523.281189 6.286508083 724.9824122 62.46147156
18 04 2018 08:10
18 04 2018 08:20
                 389.6669006 5.922550201 599.1698376 56.99925995
18 04 2018 08:30 274.4090881 5.468869209 460.088994 55.94335175
18 04 2018 08:40
                 249.9391937 5.250758171 400.0761329 55.03376007
18 04 2018 08:50
                 184.7315063 4.820920944 293.1938502 55.63523102
18 04 2018 09:00
                 141.6674042 4.52867794 228.0946495 54.82117081
18 04 2018 09:10
                 93.97075653 4.161012173 153.487098 60.90380859
18 04 2018 09:20
                 84.25602722 4.028181076 128.2498588 61.83108902
18 04 2018 09:30
                 58.19755936 3.940525055 116.8637921 59.16117096
18 04 2018 09:40
                 64.00229645 3.939342976 116.6481933 59.71154022
18 04 2018 09:50 41.08356094 3.700493097 77.67102546 64.91266632
18 04 2018 10:00 34.51557922 3.694844961 76.85980036 63.73838043
18 04 2018 10:10 5.231995106 3.202835083 25.78208833 65.15168762
```

```
3.027249098 16.9313722 54.45967102
18 04 2018 10:20 0
18 04 2018 10:30 0
                       2.714201927 0
                                         56.30569077
18 04 2018 10:40 0
                       2.76416707 0
                                         51.88349915
18 04 2018 10:50 0
                       3.089862108 19.52160334 39.1327095
18 04 2018 11:00 28.59295082 4.188436031 158.8030304 26.34441948
18 04 2018 11:10 94.14420319 4.266993999 174.2415092 26.54324913
18 04 2018 11:20
                 146.3314972 4.654312134 255.3963379 26.47270966
                 167.1643982 4.641047001 252.4663846 26.28370094
18 04 2018 11:30
18 04 2018 11:40
                 156.9781952 4.472807884 216.2661236 24.50939941
18 04 2018 11:50
                 181.8582001 4.487261772 219.3083046 24.72549057
18 04 2018 12:00
                 239.2839966 4.964570999 327.3433327 25.02737045
18 04 2018 12:10 233.1423035 5.047255039 347.6940143 23.79360008
18 04 2018 12:20 266.7640076 5.083315849 356.7344064 30.75295067
18 04 2018 12:30 292.6523132 5.17790699 380.9382334 28.29394913
18 04 2018 12:40 296.5712891 4.987009048 332.814556 33.42985916
18 04 2018 12:50 341.6689148 5.298346996 412.8176783 31.13408089
18 04 2018 13:00 357.2192993 5.556372166 485.3634959 31.36521912
18 04 2018 13:10 442.8125
                           6.01300478 628.3873488 33.64715958
18 04 2018 13:20 496.7087097 6.078876972 650.9204328 32.8303299
                 352.0953064 5.415168762 444.9244687 38.10467148
18 04 2018 13:30
18 04 2018 13:40
                 297.0044861 5.14908886 373.4881202 36.34928894
                 263.6159058 5.027140141 342.695129 33.76364899
18 04 2018 13:50
18 04 2018 14:00
                 270.6112976 5.080869198 356.1178165 31.76810074
18 04 2018 14:10 391.0510864 5.638784885 509.8241406 32.40504837
18 04 2018 14:20 578.5792236 6.456148148 788.9441847 36.41947937
18 04 2018 14:30 775.9387817 7.159039021 1089.219266 37.20478058
18 04 2018 14:40 787.0222168 6.827939034 940.3776447 39.73337173
18 04 2018 14:50 939.9395142 7.075685024 1050.426409 39.08533859
18 04 2018 15:00 1084.895996 7.359072208 1186.190102 38.51099014
                 1558.958984 8.403513908 1768.839142 39.72975922
18 04 2018 15:10
18 04 2018 15:20 2142.2771 9.773109436 2642.763369 41.25492096
18 04 2018 15:30 2420.960938 11.03442001 3284.459714 42.40813065
18 04 2018 15:40 2592.302002 11.83390045 3493.725585 42.77870941
18 04 2018 15:50 2667.656006 11.8862896 3503.150267 41.92860031
18 04 2018 16:00 2509.053955 11.29878998 3368.041282 43.07696152
18 04 2018 16:10 2347.446045 10.53792953 3083.681116 41.67208099
                 1592.162964 8.703465462 1954.863298 43.5856514
18 04 2018 16:20
                 1561.166016 8.589216232 1883.288728 42.62527084
18 04 2018 16:30
18 04 2018 16:40 1758.989014 9.197097778 2271.747636 41.15996933
18 04 2018 16:50 1965.646973 9.791361809 2655.401856 41.26393127
18 04 2018 17:00 2010.099976 9.841130257 2689.298335 39.50434113
18 04 2018 17:10 2040.687012 9.578562737 2500.956217 37.55931091
18 04 2018 17:20 1507.814941 8.966643333 2122.509782 32.19182968
18 04 2018 17:30
                 1212.354004 7.90819788 1477.871772 31.71511078
18 04 2018 17:40
                 1369.765991 8.062360764 1565.907863 33.95368958
18 04 2018 17:50
                 1411.010986 8.248734474 1675.490094 32.81425095
                 1702.397949 8.806055069 2019.792163 34.68294907
18 04 2018 18:00
                 1608.427979 8.617490768 1900.92521 35.47946167
18 04 2018 18:10
                 2019.969971 9.583738327 2504.900431 33.6557312
18 04 2018 18:20
18 04 2018 18:30
                 2264.683105 10.04335976 2818.768531 32.13761902
18 04 2018 18:40
                 2299.675049 10.11289024 2860.319914 33.74626923
                 1964.906006 9.654187202 2557.643485 34.43864059
18 04 2018 18:50
18 04 2018 19:00
                 1731.897949 8.984054565 2133.716616 35.93912888
18 04 2018 19:10
                 1822.260986 9.095052719 2205.439308 28.93586922
18 04 2018 19:20
                 1808.68396 9.106916428 2213.131437 27.00762939
18 04 2018 19:30 2591.298096 10.64562035 3132.42623 24.02160072
18 04 2018 19:40 2712.822021 10.77348995 3186.465213 25.04318047
18 04 2018 19:50 3232.052002 12.04743958 3529.13496 29.74320984
18 04 2018 20:00 3193.079102 12.25706959 3556.385036 31.91245079
```

```
3164.85791 12.04312038 3528.49662 36.34072876
18 04 2018 20:10
                 3425.914063 12.63591003 3587.891158 44.13000107
18 04 2018 20:20
18 04 2018 20:30
                 18.82069969 13.84961033 3600 54.29745865
18 04 2018 20:40 0
                       14.22589016 3600 57.34944153
18 04 2018 20:50 0
                       14.25125027 3600 56.3392601
18 04 2018 21:00 2420.569092 12.96226025 3597.78346 50.84204865
18 04 2018 21:10
                 3526.604004 12.86056042 3596.356277 49.21932983
                 3513.636963 12.54938984 3582.638055 49.37416077
18 04 2018 21:20
18 04 2018 21:30
                 3561.947998 13.20775032 3600 49.69290924
                 3567.843018 12.9237299 3597.416773 50.64675903
18 04 2018 21:40
18 04 2018 21:50
                 3592.396973 13.66199017 3600 53.85507965
18 04 2018 22:00
                 3596.099121 13.61421967 3600 49.10668945
18 04 2018 22:10
                 3535.060059 13.58302021 3600 50.80781937
18 04 2018 22:20
                 3576.01001 13.59288979 3600
                                              52.34505081
18 04 2018 22:30
                 3529.787109 13.11688042 3600
                                               54.18664932
18 04 2018 22:40
                 3571.365967 13.93206024 3600
                                               55.61413956
18 04 2018 22:50
                 3598.587891 14.10750961 3600 52.34796906
18 04 2018 23:00
                 3601.321045 14.51152039 3600 50.14546967
18 04 2018 23:10
                 3582.455078 13.95977974 3600 52.29579163
18 04 2018 23:20
                 3596.054932 14.52719021 3600
                                               50.75772095
                 3602.920898 14.85974026 3600
                                               54.40396118
18 04 2018 23:30
18 04 2018 23:40
                 3603.825928 14.45522022 3600
                                               51.44215012
18 04 2018 23:50
                 3596.718018 14.41784954 3600
                                               54.5410881
19 04 2018 00:00
                 3602.654053 14.97523975 3600
                                               51.69136047
                 3603.153076 15.43257046 3600
19 04 2018 00:10
                                               51.40443039
19 04 2018 00:20
                 3603.63501 15.3849802 3600
                                               53.61154938
19 04 2018 00:30
                 3603.764893 14.88654041 3600
                                               54.8386116
19 04 2018 00:40
                 3603.691895 14.54308987 3600
                                               54.99383926
19 04 2018 00:50
                 3603.047119 14.22581959 3600
                                               55.94815826
19 04 2018 01:00
                 3603.272949 15.08127022 3600
                                               55.79745102
                 3603.281982 15.08473015 3600 56.3190918
19 04 2018 01:10
19 04 2018 01:20
                 3600.685059 14.78699017 3600 58.72927856
19 04 2018 01:30
                 3603.843018 15.41081047 3600
                                               59.02326965
19 04 2018 01:40
                 3603.662109 14.90977001 3600
                                               62.75497055
                 3603.446045 14.59138012 3600
19 04 2018 01:50
                                               61.97391891
19 04 2018 02:00
                 3603.809082 14.97976017 3600
                                               62.83652115
19 04 2018 02:10
                 3604.154053 14.97554016 3600
                                               63.02698135
19 04 2018 02:20
                 3604.019043 14.88792038 3600
                                               63.22190857
                 3604.135986 14.53112984 3600
19 04 2018 02:30
                                               63.21437836
19 04 2018 02:40
                 3604.173096 14.74116993 3600
                                               61.82218933
                 3604.10498 14.69095993 3600
19 04 2018 02:50
                                               59.66664886
                 3604.11499 14.36023045 3600
19 04 2018 03:00
                                               57.49829102
19 04 2018 03:10
                 3604.146973 14.26603031 3600
                                               57.75363159
                                              62.23690033
19 04 2018 03:20
                 3604.035889 14.84076023 3600
19 04 2018 03:30
                 3604.044922 14.3406496 3600 57.52138138
19 04 2018 03:40
                 3604.124023 14.18089962 3600 57.29074097
19 04 2018 03:50
                 3601.716064 14.25761032 3600
                                               63.48591995
                 3604.00708 15.1117897 3600
                                               64.3681488
19 04 2018 04:00
                 3603.86792 15.01968002 3600
19 04 2018 04:10
                                               65.23438263
19 04 2018 04:20
                 3604.461914 14.7697401 3600
                                               63.47481918
                 3604.529053 13.96444035 3600
19 04 2018 04:30
                                               56.13759995
19 04 2018 04:40
                 3604.427002 14.28678036 3600
                                               57.54302979
19 04 2018 04:50
                 3604.5271
                             14.07456017 3600
                                               56.76314926
19 04 2018 05:00
                 3604.870117 14.34418964 3600
                                               52.2816391
19 04 2018 05:10
                 3604.802002 14.31867027 3600
                                               54.9658699
19 04 2018 05:20
                 3604.636963 14.47492981 3600
                                               55.02632141
19 04 2018 05:30
                 3604.524902 14.39227962 3600 55.98353958
19 04 2018 05:40 3584.263916 14.14605999 3600 59.10441971
19 04 2018 05:50 3597.061035 13.93391037 3600 58.6776619
```

```
19 04 2018 06:00 3590.103027 13.68972015 3600 59.04727936
                 3593.272949 12.91117954 3597.251596 58.95698929
19 04 2018 06:10
19 04 2018 06:20
                 3567.431885 12.83806992 3595.840215 61.01298141
19 04 2018 06:30 3416.041016 12.2281599 3553.055339 61.26536179
19 04 2018 06:40
                 3165.727051 11.73373032 3474.332875 61.31993866
19 04 2018 06:50
                 2767.010986 10.64962959 3134.183136 60.04705048
19 04 2018 07:00
                 2359.887939 9.840950966 2689.177696 58.65417862
                 2526.579102 10.16703987 2891.665032 58.67192841
19 04 2018 07:10
19 04 2018 07:20
                 2156.849121 9.335823059 2362.334905 56.83917999
19 04 2018 07:30
                 1851.802002 8.858016014 2052.892992 54.74406052
19 04 2018 07:40
                 1647.319946 8.392274857 1761.99484 56.75230026
19 04 2018 07:50
                 1208.344971 7.372805119 1193.056244 53.07706833
19 04 2018 08:00
                 1100.334961 7.161013126 1090.149234 50.33699036
19 04 2018 08:10
                 1113.057007 7.202510834 1109.820236 46.68347168
19 04 2018 08:20
                 1167.215942 7.295340061 1154.683141 48.80426025
19 04 2018 08:30
                 1534.291992 8.041427612 1553.809132 49.31274033
19 04 2018 08:40
                 1771.765015 8.793505669 2011.818659 47.48215866
19 04 2018 08:50 1465.279053 7.95710516 1505.529053 46.1024704
19 04 2018 09:00 1720.234985 8.473366737 1811.595649 43.46533966
19 04 2018 09:10 2327.258057 9.651880264 2555.944008 44.23379135
19 04 2018 09:20
                 2300.608887 9.522565842 2457.666453 42.45470047
                 1805.682007 8.478766441 1814.91603 42.46818924
19 04 2018 09:30
19 04 2018 09:40
                 1414.279053 7.804090977 1419.883394 37.90145111
19 04 2018 09:50
                 1846.386963 8.626976013 1906.853331 43.32550812
19 04 2018 10:00 2118.789063 9.117230415 2219.822562 33.35662079
19 04 2018 10:10 2482.479004 10.04074955 2817.179763 37.91936111
19 04 2018 10:20 2132.120117 8.952477455 2113.401246 32.6256218
19 04 2018 10:30 2248.698975 9.484378815 2459.73196 34.39487839
19 04 2018 10:40 2376.162109 9.737073898 2617.481421 36.61365128
19 04 2018 10:50 2702.133057 10.35593987 2994.281001 33.38061142
19 04 2018 11:00 2590.876953 10.22356987 2923.457977 33.573349
19 04 2018 11:10 2317.717041 9.449357986 2436.745701 31.1271801
19 04 2018 11:20
                 2515.179932 9.758402824 2632.498522 31.30328941
19 04 2018 11:30
                 2931.729004 10.79393959 3194.731101 31.19318008
                 2965.144043 10.86108017 3221.15649 28.57732964
19 04 2018 11:40
19 04 2018 11:50
                 2798.493896 10.74687958 3175.555388 31.08184052
                 2768.708008 10.73359966 3170.045394 27.00169945
19 04 2018 12:00
19 04 2018 12:10
                 2532.543945 10.27855968 2953.488916 27.16909981
19 04 2018 12:20 2353.760986 9.921867371 2742.556547 26.3236599
19 04 2018 12:30 2249.468018 9.616217613 2529.434553 25.77005959
19 04 2018 12:40 2555.461914 10.14391994 2878.389346 26.48146057
19 04 2018 12:50 2478.275879 9.871627808 2709.665573 23.89958
19 04 2018 13:00 2348.101074 9.862660408 2703.708496 26.27084923
19 04 2018 13:10 2470.462891 10.33135986 2981.507017 30.28800011
19 04 2018 13:20
                 2563.552002 10.19359016 2906.714457 28.91476059
19 04 2018 13:30
                 2688.88208 10.62199974 3121.99182 29.86516953
                            10.5852499 3105.471642 28.44676018
19 04 2018 13:40
                 2758.7771
                 2756.552979 10.68684006 3150.294279 29.22750092
19 04 2018 13:50
19 04 2018 14:00 2827.193115 10.90297031 3237.097222 28.3671608
19 04 2018 14:10
                 2747.724121 10.55375004 3091.03172 27.41764069
19 04 2018 14:20
                 2909.979004 11.09165955 3303.853115 29.03336906
19 04 2018 14:30
                 2767.341064 10.99442959 3270.471718 28.65576935
19 04 2018 14:40
                 2540.712891 10.12197018 2865.637423 29.98204041
19 04 2018 14:50
                 2676.843994 10.47719002 3054.842429 31.30150986
19 04 2018 15:00
                 2739.083984 10.53730965 3083.391755 31.28897095
19 04 2018 15:10
                 2899.785889 11.18367958 3333.510482 32.63233948
19 04 2018 15:20 3009.423096 11.37308979 3388.856368 31.09597015
19 04 2018 15:30 3373.166992 12.30237961 3561.333355 32.5005188
19 04 2018 15:40 3115.406006 11.27318001 3360.601192 33.05958939
```

```
19 04 2018 15:50
                 3073.705078 11.61128998 3448.118618 35.29288101
                           11.2937603 3366.590908 35.45724106
19 04 2018 16:00
                 2984.875
                 3216.945068 11.91337967 3507.833439 39.11637115
19 04 2018 16:10
19 04 2018 16:20
                 2725.050049 10.53841019 3083.905412 37.6150589
19 04 2018 16:30
                 2726.170898 10.78668022 3191.808518 38.92546082
19 04 2018 16:40
                 2805.636963 11.15227032 3323.595662 41.45687103
19 04 2018 16:50
                 2959.091064 11.46251011 3412.416962 42.25037003
                 2772.908936 10.96786022 3260.976047 43.04724121
19 04 2018 17:00
19 04 2018 17:10
                 3034.209961 11.74853039 3477.313019 44.98746872
19 04 2018 17:20
                 2904.510986 11.34702015 3381.682445 44.20833969
19 04 2018 17:30
                 2722.923096 11.0916996 3303.86643 45.08036041
19 04 2018 17:40 2808.176025 11.36565018 3386.823291 47.80498886
19 04 2018 17:50 3446.48999 12.59832001 3585.747045 45.63871002
19 04 2018 18:00 3478.106934 12.82944965 3595.623056 45.52032852
19 04 2018 18:10 3135.303955 12.09564972 3536.046561 48.90605927
19 04 2018 18:20
                 3481.149902 12.31906986 3563.073489 46.58853149
19 04 2018 18:30
                 3582.375
                             12.22183037 3552.308292 45.49195099
19 04 2018 18:40
                 3260.653076 11.81431007 3490.075612 46.9380188
19 04 2018 18:50
                 3038.26709 11.92294025 3509.455494 52.01937103
                 3376.780029 12.21597004 3551.610829 47.32442093
19 04 2018 19:00
                 3400.518066 12.04374981 3528.58984 47.24142838
19 04 2018 19:10
                 3197.51709 11.32211971 3374.69987 45.5026207
19 04 2018 19:20
19 04 2018 19:30
                 2893.586914 11.02740002 3282.030527 48.56916046
19 04 2018 19:40
                 2576.695068 10.23579979 2930.212794 47.90835953
19 04 2018 19:50
                 2839.469971 10.88101006 3228.792434 45.26451874
19 04 2018 20:00 2669.666016 10.54757023 3088.168278 43.14189148
19 04 2018 20:10 2735.061035 10.71339989 3161.580192 45.72750854
19 04 2018 20:20 2791.981934 10.87938976 3228.175161 42.69034958
19 04 2018 20:30 2732.803955 10.71819973 3163.600899 43.13862991
19 04 2018 20:40 2633.712891 10.78660965 3191.780043 42.23434067
19 04 2018 20:50
                 2560.172119 10.73705006 3171.481209 42.19746017
19 04 2018 21:00
                 2441.987061 10.41598988 3024.779369 40.93634033
19 04 2018 21:10
                 2407.795898 10.12852001 2869.457778 39.62792969
19 04 2018 21:20 2487.030029 10.31900978 2975.024514 38.76327896
19 04 2018 21:30 2427.172119 10.11975956 2864.345105 38.01839066
                 2280.150879 9.88619709 2719.28807 38.22998047
19 04 2018 21:40
19 04 2018 21:50
                 2314.184082 10.00189972 2793.282627 38.32387161
19 04 2018 22:00
                 2183.415039 9.855460167 2698.906301 39.67070007
19 04 2018 22:10 1945.344971 9.238197327 2298.53829 38.15790176
                 1883.703003 9.121864319 2222.829903 37.57226944
19 04 2018 22:20
19 04 2018 22:30
                 1582.302979 8.492367744 1823.289189 37.60216904
19 04 2018 22:40 1486.848022 8.340648651 1730.685193 36.31940079
19 04 2018 22:50
                 1388.119019 8.272828102 1689.888541 35.8932991
19 04 2018 23:00
                 1308.762939 7.996223927 1527.835035 30.52345085
19 04 2018 23:10
                 1502.312988 8.290302277 1700.362658 31.09897041
19 04 2018 23:20
                 1547.552002 8.674871445 1936.873831 35.69272995
19 04 2018 23:30
                 1237.895996 8.112437248 1595.027271 38.5723114
                 865.836792 6.984405041 1008.983939 38.51485825
19 04 2018 23:40
19 04 2018 23:50
                 708.7122192 6.522304058 814.7430432 37.18708038
20 04 2018 00:00
                 579.0512085 6.140499115 672.419431 40.39614868
20 04 2018 00:10
                 488.5884094 5.895579815 590.3240575 41.90108109
20 04 2018 00:20
                 323.3082886 5.322277069 419.2977637 43.50027847
20 04 2018 00:30
                 118.0063019 4.273892879 175.6125641 41.73686981
20 04 2018 00:40
                 73.28019714 3.955677032 119.6471523 32.42467117
20 04 2018 00:50
                 63.01308823 3.897958994 109.2411162 32.15370178
20 04 2018 01:00
                 8.145353317 3.047904968 17.71654986 33.73421097
20 04 2018 01:10 0.871333897 2.723493099 0
                                               31.69141006
20 04 2018 01:20 0 2.159250021 0
                                         31.6093502
20 04 2018 01:30 0
                       2.164928913 0
                                         30.19852066
```

```
20 04 2018 01:40 0
                       2.756458044 0
                                         5.367953777
20 04 2018 01:50 0
                       2.245852947 0
                                         11.02285957
20 04 2018 02:00
                       3.130883932 21.55873412 358.7744141
                 0
20 04 2018 02:10 74.25663757 4.054831982 133.247458 351.446991
20 04 2018 02:20 21.19413948 3.115288019 20.7525228 346.7880859
20 04 2018 02:30 53.08488083 3.574804068 60.82570746 335.0297852
20 04 2018 02:40
                 0
                       2.212847948 0
                                         337.0151978
                       2.211044073 0
20 04 2018 02:50
                 0
                                         320.6394958
20 04 2018 03:00 0
                       2.956289053 0
                                         307.6329041
                       3.052059889 17.882735
20 04 2018 03:10 0
                                               302.4507141
20 04 2018 03:20 145.7003937 4.307918072 182.411528 302.6239014
20 04 2018 03:30 412.9136963 5.406016827 442.3658608 310.2120056
20 04 2018 03:40 298.1713867 5.124820232 367.2662153 306.1145935
20 04 2018 03:50 921.7849121 7.100893974 1062.061714 304.2037048
20 04 2018 04:00 1153.661011 7.696493149 1361.278707 307.7760925
20 04 2018 04:10 1381.131958 8.039423943 1552.653391 306.550415
20 04 2018 04:20 1082.44397 7.249736786 1132.493613 313.9985962
20 04 2018 04:30 586.2901001 6.143850803 673.6004196 336.2833862
20 04 2018 04:40 261.5947876 4.938412189 321.012413 345.3375854
20 04 2018 04:50 49.01871109 3.510643959 53.20118692 4.863990784
20 04 2018 05:00
                 28.16436958 3.45946002 47.59100145 7.438187122
20 04 2018 05:10 42.02566147 3.720773935 80.6259712 327.873291
20 04 2018 05:20
                 132.7949066 4.363504887 193.6536695 318.3900146
20 04 2018 05:30
                 107.9713974 4.023908138 127.4515765 304.2763062
20 04 2018 05:40 246.1587067 4.680375099 261.1863805 297.8268127
20 04 2018 05:50 270.6608887 5.054206848 349.4289333 5.446246147
20 04 2018 06:00 420.2673035 5.356585979 428.6747052 356.8728943
20 04 2018 06:10 464.2054138 5.727066994 536.7540005 344.5385132
20 04 2018 06:20 703.5717163 6.358673096 751.8091434 10.60284042
20 04 2018 06:30 717.1472168 6.367928028 755.2904263 22.61617088
20 04 2018 06:40 859.8148193 6.746024132 905.6424808 23.00507927
20 04 2018 06:50 742.5413208 6.558500767 829.0648
                                                   25.11852074
20 04 2018 07:00 907.0516968 6.800072193 928.4714794 21.74073029
20 04 2018 07:10
                 1608.932007 7.927688122 1488.862509 23.80573082
20 04 2018 07:20 3128.762939 11.03197002 3283.613191 35.40684128
                 3154.281982 11.23453045 3349.111619 47.19701004
20 04 2018 07:30
                 3313.520996 11.19141006 3335.917984 43.75566101
20 04 2018 07:40
20 04 2018 07:50
                 3019.076904 10.77425003 3186.774274 45.5904808
20 04 2018 08:00 2750.001953 9.684874535 2580.073922 41.86785889
20 04 2018 08:10 2688.262939 9.639165878 2546.544154 26.37869072
20 04 2018 08:20 2515.26709 9.48995018 2463.389868 22.52026939
20 04 2018 08:30 2230.756104 8.902180672 2081.131883 18.10811043
20 04 2018 08:40 2022.421021 8.833848
                                         2037.480141 27.63224983
20 04 2018 08:50
                 1830.428955 8.418663979 1778.080768 31.90749931
20 04 2018 09:00
                 2110.427002 9.428793907 2423.25452 36.93468094
20 04 2018 09:10
                 3104.447021 11.24740982 3352.975441 40.09592056
                 2857.427979 10.38512993 3009.231095 36.26031876
20 04 2018 09:20
20 04 2018 09:30
                 1811.703979 8.451690674 1798.288353 29.82945061
                 1878.030029 8.512834549 1835.914071 29.23567009
20 04 2018 09:40
20 04 2018 09:50
                 1815.963013 8.641030312 1915.647585 26.07345963
20 04 2018 10:00 0
                       8.339859962 1730.208555 29.56818008
                 1143.409058 8.615682602 1899.795792 13.42920017
20 04 2018 10:10
20 04 2018 10:20
                 3242.186035 11.18338013 3333.416964 5.318972111
20 04 2018 10:30 2981.025879 10.28518963 2957.050714 5.508473873
20 04 2018 10:40 2332.273926 9.427607536 2422.476351 4.67582798
20 04 2018 10:50 2412.995117 9.664967537 2565.560526 3.325397968
20 04 2018 11:00 2588.394043 9.855690002 2699.059853 3.172439098
20 04 2018 11:10 2749.352051 10.33187008 2981.7739 5.313189983
20 04 2018 11:20 2754.74292 10.38204956 3007.664639 4.6179142
```

```
20 04 2018 11:30 2952.949951 10.88247967 3229.351765 9.293728828
                 2715.706055 10.3193903 2975.22489 12.42257023
20 04 2018 11:40
20 04 2018 11:50
                 2684.582031 10.72037029 3164.512804 18.39219093
20 04 2018 12:00 2390.166992 9.404145241 2407.090668 15.36699009
                 2830.114014 10.52674007 3078.442283 20.9342804
20 04 2018 12:10
20 04 2018 12:20
                 3102.031006 11.2321701 3348.399694 21.6789093
                 2148.575928 9.134771347 2231.210017 26.14193916
20 04 2018 12:30
                 2286.535889 9.583836555 2504.975197 23.84803009
20 04 2018 12:40
20 04 2018 12:50
                 2798.346924 10.4092598 3021.41093 26.7241497
                 2482.532959 9.865814209 2705.806574 23.95381927
20 04 2018 13:00
20 04 2018 13:10
                 3234.804932 11.43836975 3406.214658 22.28587914
20 04 2018 13:20
                 3388.066895 11.75786018 3479.171056 22.82761955
20 04 2018 13:30 3299.36499 11.59918022 3445.37258 22.41033936
20 04 2018 13:40 3416.832031 11.85050964 3496.766347 25.12285995
20 04 2018 13:50 2887.636963 10.59550953 3110.11887 28.61964035
20 04 2018 14:00 3020.665039 10.60181999 3112.963698 28.91576004
20 04 2018 14:10 2710.38501 10.09323025 2848.720812 28.75267029
20 04 2018 14:20 3222.559082 11.0854702 3301.791417 23.93688011
20 04 2018 14:30 3515.824951 12.13376999 3541.23631 24.02043915
20 04 2018 14:40 3573.187988 11.47998047 3416.833337 17.05069923
20 04 2018 14:50
                 3368.961914 11.61413002 3448.758591 23.47190094
20 04 2018 15:00 3548.051025 12.1072197 3537.647289 27.35419083
20 04 2018 15:10
                 2994.812988 10.72970009 3168.4191
                                                     27.55709076
20 04 2018 15:20
                 3387.311035 11.77367973 3482.285239 26.28981972
                 3360.509033 11.69878006 3467.135213 30.40427017
20 04 2018 15:30
20 04 2018 15:40 3257.491943 11.20621014 3340.491273 31.26539993
20 04 2018 15:50 3027.227051 10.6888504 3151.154727 34.66577148
20 04 2018 16:00 3356.822021 11.89237976 3504.214342 35.79275131
20 04 2018 16:10 3254.35791 11.28242016 3363.301434 37.30797958
20 04 2018 16:20 2994.241943 10.30879974 2969.632681 33.5643692
20 04 2018 16:30 2860.001953 10.36532974 2999.116086 40.11560822
20 04 2018 16:40 3521.968994 12.64241028 3588.240516 31.66498947
20 04 2018 16:50
                 3566.552002 12.8111496 3595.126397 35.65114975
20 04 2018 17:00 3497.668945 12.36851025 3567.969265 34.76031113
                 3530.24292 12.73857975 3592.677367 33.65681076
20 04 2018 17:10
                 3500.669922 12.58215046 3584.759567 38.40042877
20 04 2018 17:20
                 2734.733887 10.35906029 2995.890521 34.55754852
20 04 2018 17:30
20 04 2018 17:40
                 3163.63208 10.8550396 3218.823408 31.44449997
20 04 2018 17:50
                 3074.310059 11.09607983 3305.320321 33.36360168
20 04 2018 18:00
                 2625.573975 10.04174042 2817.783127 32.97018051
20 04 2018 18:10
                 2066.447998 9.038948059 2169.128937 33.2689209
20 04 2018 18:20 2461.809082 9.730098724 2612.536842 37.66777039
20 04 2018 18:30 2800.89209 10.59453964 3109.680719 39.92736053
20 04 2018 18:40 3279.792969 11.39667988 3395.22849 40.26440048
20 04 2018 18:50
                 3385.164063 11.87716007 3501.542899 42.19247818
20 04 2018 19:00
                 3602.914063 12.64054012 3588.140649 44.94380951
                 3589.881104 12.83176041 3595.682322 47.24855042
20 04 2018 19:10
                 3600.789063 13.47712994 3600 48.72739029
20 04 2018 19:20
                 3599.033936 12.9572897 3597.748034 50.28688049
20 04 2018 19:30
20 04 2018 19:40
                 2919.501953 10.50446987 3067.916563 45.41711044
20 04 2018 19:50
                 2500.197021 9.550424576 2479.344695 44.77215958
20 04 2018 20:00
                 2470.403076 9.566832542 2491.981391 45.59706116
20 04 2018 20:10
                 2159.024902 9.141083717 2235.310346 40.79027176
20 04 2018 20:20
                 2003.500977 8.611599922 1897.246445 33.65781021
20 04 2018 20:30
                             9.492706299 2465.199512 39.75333023
                 2379.75
20 04 2018 20:40
                 1617.953003 7.907509804 1477.484519 45.79602051
20 04 2018 20:50
                 1698.027954 8.239354134 1669.898145 49.17406845
20 04 2018 21:00 1402.479004 7.685319901 1355.273569 50.77119064
20 04 2018 21:10 1752.94397 8.456800461 1801.422182 50.35617828
```

```
20 04 2018 21:20 1770.213013 8.536459923 1850.524345 56.8286705
                 2149.389893 9.332895279 2360.418792 60.27719116
20 04 2018 21:30
20 04 2018 21:40
                 2279.664063 9.483758926 2459.324986 62.3230896
20 04 2018 21:50
                 2902.611084 10.48948002 3060.757251 58.66054916
20 04 2018 22:00
                 3570.064941 12.16934967 3545.86295 51.65774918
20 04 2018 22:10
                 3361.135986 11.59691048 3444.854775 50.4528389
                 1631.292969 8.218140602 1657.280876 49.23696899
20 04 2018 22:20
                 1468.202026 8.092064857 1583.151008 58.64908981
20 04 2018 22:30
20 04 2018 22:40 1793.208984 8.688037872 1945.151192 49.84421158
20 04 2018 22:50
                 1494.53894 8.032268524 1548.529387 54.80905151
20 04 2018 23:00
                 1506.437012 8.166885376 1626.963986 60.86737823
20 04 2018 23:10
                 1556.141968 8.260450363 1682.485224 57.88650131
20 04 2018 23:20
                 1164.016968 7.405004025 1209.263762 63.45994949
20 04 2018 23:30
                 1319.161987 7.822608948 1430.107772 57.47486877
20 04 2018 23:40 1614.584961 8.288764954 1699.440126 64.13777161
20 04 2018 23:50 2191.995117 9.651016235 2555.307017 61.10372925
21 04 2018 00:00 3307.014893 12.1073103 3537.659736 54.61592865
21 04 2018 00:10 3247.231934 11.76253033 3480.095149 52.93745041
21 04 2018 00:20 2824.827881 10.86003971 3220.755249 53.76078033
21 04 2018 00:30 2397.075928 9.839537621 2688.226327 51.24417114
21 04 2018 00:40
                 2068.916016 9.355957985 2375.516613 54.74243927
                 2183.378906 9.477669716 2455.327438 48.4139595
21 04 2018 00:50
21 04 2018 01:00
                 2077.920898 9.211621284 2281.209696 48.82022858
21 04 2018 01:10
                 2684.944092 10.27552986 2951.857008 43.73020935
21 04 2018 01:20 2602.853027 10.34667969 2989.488516 48.47496033
21 04 2018 01:30 2086.599121 9.529920578 2463.416865 55.645401
21 04 2018 01:40 2045.19397 9.229244232 2292.698518 50.91693115
21 04 2018 01:50 2327.225098 9.682177544 2578.115702 46.63742065
21 04 2018 02:00 1709.421021 8.542441368 1854.22956 51.00505829
21 04 2018 02:10
                 1566.858032 8.192564011 1642.122504 50.43328094
21 04 2018 02:20
                 1289.427979 7.720159054 1374.048879 48.53084946
21 04 2018 02:30 952.0858765 7.075427055 1050.307772 55.18106842
21 04 2018 02:40
                 1004.421997 7.158288002 1088.865612 48.90058899
21 04 2018 02:50 905.6063232 6.830561161 941.5027446 54.42229843
21 04 2018 03:00 932.9453125 7.029582977 1029.361733 54.66923904
21 04 2018 03:10
                 1318.958984 7.844011784 1441.974232 47.49573898
                 1105.807983 7.35371685 1183.520011 47.12136078
21 04 2018 03:20
                 1088.604004 7.506978989 1261.581157 43.31729126
21 04 2018 03:30
21 04 2018 03:40 1133.562988 7.659957886 1341.700238 39.28506851
21 04 2018 03:50 872.0811768 7.016909122 1023.618857 38.36296844
21 04 2018 04:00 916.057373 7.243738174 1129.596528 35.05078888
21 04 2018 04:10 932.4882202 7.237802029 1126.734541 34.80236816
21 04 2018 04:20
                 767.4324951 6.785999775 922.4942218 34.8860817
21 04 2018 04:30
                 757.7785034 6.680156231 878.2840964 31.23023987
21 04 2018 04:40
                 1211.526978 7.510445118 1263.362201 29.17148972
21 04 2018 04:50
                 870.15802
                             6.793579102 925.7106132 31.67691994
21 04 2018 05:00
                 595.31073
                             5.922245026 599.0693175 30.68560982
                 759.0905762 6.448528767 786.0039178 32.29317856
21 04 2018 05:10
21 04 2018 05:20 837.4896851 6.644079208 863.5121542 29.39837074
21 04 2018 05:30
                 668.5598145 6.39475584 765.4345142 33.50608063
21 04 2018 05:40
                 582.369812 5.837302208 571.4692497 33.52687073
21 04 2018 05:50
                 747.4348145 6.324710846 739.1137583 29.92095947
21 04 2018 06:00
                 613.8358765 6.131687164 669.3202139 31.37689972
21 04 2018 06:10 479.9059143 5.601326942 498.6262486 35.03606033
21 04 2018 06:20
                 385.906311 5.161306858 376.6385029 31.95961952
21 04 2018 06:30 544.0349731 5.763196945 547.9970544 32.747509
21 04 2018 06:40 436.6296997 5.392189026 438.5141521 31.4226799
21 04 2018 06:50 428.9928894 5.331830978 421.8986728 31.49740028
21 04 2018 07:00 371.3505859 5.112270832 364.0673541 33.75502014
```

```
21 04 2018 07:10 307.9807129 4.858952045 302.0898417 30.56044006
21 04 2018 07:20
                 379.6671143 5.14837122 373.3034539 29.15405083
21 04 2018 07:30
                 563,6856079 5,774846077 551,6499498 28,56985092
21 04 2018 07:40 775.2626953 6.338346958 744.1960299 25.79360962
21 04 2018 07:50 714.758728 6.094023228 656.1671158 29.02610016
21 04 2018 08:00 956.8278809 6.926301003 983.1542584 32.45170975
21 04 2018 08:10
                 1054.656006 7.024919987 1027.24641 30.3652401
21 04 2018 08:20 964.1555176 6.692035198 883.180808 28.36938095
                 1195.63501 7.347383022 1180.367459 30.87039948
21 04 2018 08:30
21 04 2018 08:40
                 1646.295044 8.141291618 1611.916801 30.07740021
21 04 2018 08:50
                 1789.098999 8.471153259 1810.235159 27.06148911
21 04 2018 09:00 1444.786987 7.667833805 1345.906689 29.79063988
21 04 2018 09:10 1908.962036 8.671707153 1934.886096 27.4459095
21 04 2018 09:20
                 1549.897949 7.833712101 1436.257182 27.10705948
21 04 2018 09:30 1229.823975 7.354025841 1183.673954 25.96404076
21 04 2018 09:40 1381.777954 7.693018913 1359.409801 28.03187943
21 04 2018 09:50
                 1510.147949 7.924531937 1487.079893 25.99003983
21 04 2018 10:00
                 1170.79895 7.342475891 1177.929025 23.8323307
21 04 2018 10:10 1101.442993 7.146831989 1083.480375 18.59505081
                 1260.031006 7.503423214 1259.755741 15.82448959
21 04 2018 10:20
21 04 2018 10:30
                 1169.416992 7.33019495 1171.841702 15.36100006
                 1359.864014 7.892479897 1469.038629 15.99987984
21 04 2018 10:40
21 04 2018 10:50
                 1566.384033 8.336285591 1728.049053 14.01550961
21 04 2018 11:00
                 1619.767944 8.375240326 1751.640264 15.07516003
21 04 2018 11:10
                 1669.275024 8.481797218 1816.780651 14.87440014
21 04 2018 11:20 1427.704956 7.989077091 1523.747803 15.46557045
21 04 2018 11:30 1488.030029 8.075439453 1573.489233 13.0620203
21 04 2018 11:40 1606.793945 8.374412537 1751.137674 14.33139992
21 04 2018 11:50 1409.149048 8.12352562 1601.508254 17.79849052
21 04 2018 12:00
                 1502.582031 8.082562447 1577.625388 19.93893051
21 04 2018 12:10
                 1475.110962 7.929779053 1490.044065 15.65917969
21 04 2018 12:20
                 1409.390015 7.781688213 1407.567551 17.9877491
21 04 2018 12:30
                 1444.670044 7.822051048 1429.799158 19.62010002
21 04 2018 12:40
                 1394.334961 7.845396996 1442.744047 18.2389698
21 04 2018 12:50 1139.094971 7.404345989 1208.930999 18.13323975
                             7.405754089 1209.643141 21.32563019
21 04 2018 13:00
                 1173.625
                 955.9938965 6.843953133 947.2618659 21.49337959
21 04 2018 13:10
                 828.4907227 6.568518162 833.0542675 23.13347054
21 04 2018 13:20
21 04 2018 13:30 937.7706299 6.882906914 964.1370611 22.36873055
21 04 2018 13:40 908.4603882 6.754854202 909.3485864 21.09993935
21 04 2018 13:50 997.8621826 6.912075043 976.8942726 21.73723984
21 04 2018 14:00 859.0899048 6.719317913 894.4891109 22.09760094
21 04 2018 14:10 865.7321777 6.831949234 942.0986723 22.58012962
21 04 2018 14:20
                 1011.844971 7.152078152 1085.944301 22.49971962
21 04 2018 14:30
                 954.9511719 6.95749712 996.9697262 18.44499016
                 941.177002 6.855538845 952.2616827 19.36644936
21 04 2018 14:40
21 04 2018 14:50
                 717.0170288 6.364329815 753.9358364 21.40839005
21 04 2018 15:00 682.0844116 6.206060886 695.7387307 18.22190094
21 04 2018 15:10 631.9014282 6.1841712 687.9017424 23.24684906
21 04 2018 15:20
                 581.0180054 6.063301086 645.5504872 22.84300041
21 04 2018 15:30
                 580.9777832 5.934968948 603.2687248 20.67019081
21 04 2018 15:40
                 755.744812 6.501832008 806.707698 24.57056999
21 04 2018 15:50
                 615.6702881 6.002696037 624.902987 17.15658951
21 04 2018 16:00 601.4542236 6.116996765 664.1719624 15.60309982
21 04 2018 16:10 409.3304138 5.430558205 449.2437708 16.10141945
21 04 2018 16:20 285.1384888 4.985411167 332.4236794 15.42134953
21 04 2018 16:30 393.888092 5.444860935 453.2771306 15.37761974
21 04 2018 16:40 466.5335999 5.763936043 548.2284127 10.40301991
21 04 2018 16:50 398.0205078 5.575647831 491.0269002 16.01037979
```

```
21 04 2018 17:00 383.9657898 5.44003582 451.9143929 16.58328056
21 04 2018 17:10 311.2838135 5.021502972 341.29979
                                                     22.50975037
21 04 2018 17:20 220.7207947 4.626657009 249.3008112 30.84884071
21 04 2018 17:30 180.1954041 4.270884991 175.0144805 40.79911041
21 04 2018 17:40 250.5303955 4.818267822 292.5770618 54.32817078
21 04 2018 17:50 437.1146851 5.800844193 559.8517544 64.72588348
21 04 2018 18:00 540.2252197 6.095963001 656.8408264 71.52953339
21 04 2018 18:10 556.6746216 6.319271088 737.0919407 73.00171661
21 04 2018 18:20 634.4005127 6.551091194 826.121157 77.68016052
21 04 2018 18:30 454.8360901 5.970478058 615.079077 76.91684723
21 04 2018 18:40 484.0783081 5.858182907 578.1844079 74.24299622
21 04 2018 18:50 504.9581909 6.017035007 629.7526591 68.302742
21 04 2018 19:00 464.2018127 5.85403204 576.8459206 72.48896027
21 04 2018 19:10 692.6085815 6.588092804 840.8825475 73.95233917
21 04 2018 19:20 524.5595093 5.770816803 550.3849189 76.7816391
21 04 2018 19:30 479.1317139 5.195656776 385.5606535 76.4865036
21 04 2018 19:40 629.0615234 6.495073795 804.0653034 78.65820313
21 04 2018 19:50 444.637085 5.369691849 432.2837496 76.60868835
21 04 2018 20:00 212.1524963 4.080536842 138.0984355 84.26928711
21 04 2018 20:10 205.9654999 4.203989983 161.83474
                                                    84.96151733
21 04 2018 20:20 307.2424927 4.517601013 225.7345627 81.54714203
21 04 2018 20:30 193.8688965 3.766180992 87.48045676 86.85681152
21 04 2018 20:40 85.37148285 3.43127203 44.68035006 94.40651703
21 04 2018 20:50 61.98698044 3.384212017 40.10429447 102.7595978
21 04 2018 21:00 122.3189011 3.811450958 94.64264328 108.2220993
21 04 2018 21:10 52.85213089 3.309228897 33.54512557 106.1433029
                                               103.729599
21 04 2018 21:20 8.078196526 2.956927061 0
21 04 2018 21:30 3.452529907 2.709047079 0
                                               92.89241028
21 04 2018 21:40 0
                       2.638034105 0
                                      90.68213654
21 04 2018 21:50 0
                       3.657385111 71.60873827 77.81365967
21 04 2018 22:00 13.67294979 3.16101408 23.22649328 81.1048584
21 04 2018 22:10 15.69913006 2.996026993 0
                                              72.13803101
21 04 2018 22:20 13.56622982 3.14249897 22.18444356 55.26417923
21 04 2018 22:30 19.18675041 3.211898088 26.37280282 53.69903946
21 04 2018 22:40 21.54331017 3.080060959 19.07473125 42.92715836
21 04 2018 22:50 12.90069962 2.972704887 0
                                               56.05598068
21 04 2018 23:00 53.14999008 3.435669899 45.12609764 47.92219925
21 04 2018 23:10
                 172.7438965 4.471996784 216.0957743 50.06716156
21 04 2018 23:20 273.9490967 5.065069199 352.1473066 50.1088295
21 04 2018 23:30 328.0960999 5.293908119 411.621063 51.81668091
21 04 2018 23:40 220.1703033 4.908641815 313.8690269 42.31155014
21 04 2018 23:50 114.5874023 4.125119209 146.5852361 36.34473038
22 04 2018 00:00 237.3858032 4.779448986 283.6087816 47.32625961
22 04 2018 00:10 305.3682861 5.169106007 378.6558271 49.38959122
22 04 2018 00:20 374.751709 5.510525227 472.032771 48.76480103
22 04 2018 00:30 489.5751038 5.960688114 611.8095183 52.00569916
22 04 2018 00:40 632.2891846 6.382864952 760.9286735 52.86587906
22 04 2018 00:50 465.6023865 5.809383869 562.560785 49.04153061
22 04 2018 01:00 355.3720093 5.425346851 447.7787429 53.85475922
22 04 2018 01:10
                 316.9296875 5.276219845 406.8694126 52.36146927
22 04 2018 01:20
                 317.7875061 5.278539181 407.4909463 53.11383057
22 04 2018 01:30 255.2722015 5.006306171 337.5503295 47.92731094
22 04 2018 01:40
                 163.0998993 4.494609833 220.8596546 46.07498169
22 04 2018 01:50 342.9195862 5.324615955 419.9337612 55.09856033
22 04 2018 02:00 403.1427002 5.605144978 499.761489 54.34432983
22 04 2018 02:10 405.9431152 5.629077911 506.9093601 55.36045074
22 04 2018 02:20 318.1386108 5.244079113 398.3031731 53.09889984
22 04 2018 02:30 233.7947998 4.792668819 286.6511879 50.51222992
22 04 2018 02:40 382.2416077 5.439453125 451.7499667 55.73768997
```

```
500.3900146 6.06655407 646.6698449 58.35889053
22 04 2018 02:50
                  386.0020142 5.566739082 488.4050647 61.36061859
22 04 2018 03:00
22 04 2018 03:10
                  148.4335022 4.349518776 190.8090834 54.90187836
22 04 2018 03:20
                  190.712204 4.447256088 210.9182728 58.52582932
22 04 2018 03:30
                  510.2012024 6.223997116 702.1985792 62.38835907
22 04 2018 03:40
                  367.6282959 5.581904888 492.8728245 66.4039917
                  539.7965088 6.264826775 717.0324508 69.68464661
22 04 2018 03:50
                  410.5065918 5.667040825 518.3605807 67.50846863
22 04 2018 04:00
22 04 2018 04:10
                  458.2145996 5.890388012 588.6300013 70.42694855
22 04 2018 04:20
                  432.7349854 5.922008038 598.9912642 72.57203674
22 04 2018 04:30
                  299.7883911 5.345930099 425.7513995 69.7009964
22 04 2018 04:40
                  139.0480957 4.267136097 174.2697238 73.43998718
22 04 2018 04:50
                  126.7169037 4.174676895 156.1312515 73.04325867
22 04 2018 05:00
                  115.1462021 4.037237167 129.9444567 75.13407898
22 04 2018 05:10
                  145.9156036 4.371677876 195.3209771 77.18141174
22 04 2018 05:20
                  146.286499 4.464925766 214.6123466 72.16985321
22 04 2018 05:30
                  6.728980064 3.0140481
                                           16.46532711 89.32372284
22 04 2018 05:40
                  0
                        3.281563044 31.3522372 85.47855377
                  0
                        3.028110027 16.96273476 90.83174133
22 04 2018 05:50
22 04 2018 06:00
                  0
                        1.764389038 0
                                           83.35736084
22 04 2018 06:10
                        1.987048984 0
                                           98.53543091
                  0
22 04 2018 06:20
                                           98.49633026
                  0
                        1.626376987 0
22 04 2018 06:30
                  0
                        1.894343019 0
                                           79.01428986
22 04 2018 06:40
                  0
                        1.942762971 0
                                           99.77197266
22 04 2018 06:50
                        2.301666021 0
                                           100.9505005
22 04 2018 07:00
                        2.408829927 0
                                           102.9965973
22 04 2018 07:10
                        1.815685034 0
                                           81.50267792
22 04 2018 07:20
                        1.185449004 0
                                           52.27350998
                  0
22 04 2018 07:30
                  0
                        1.550014973 0
                                           61.3667984
22 04 2018 07:40
                  0
                        1.816329002 0
                                           64.9447937
22 04 2018 07:50
                  0
                        1.978353024 0
                                           80.73664093
22 04 2018 08:00
                  0
                        1.919921994 0
                                           77.50467682
22 04 2018 08:10
                                           72.90415955
                        1.601253986 0
22 04 2018 08:20
                        2.266952991 0
                                           61.31235886
                  0
22 04 2018 08:30
                        1.857216001 0
                                           57.79561996
                  0
22 04 2018 08:40
                  0
                        2.113022089 0
                                           45.04528046
22 04 2018 08:50
                  0
                        2.111474037 0
                                           20.56669998
22 04 2018 09:00
                  0
                        1.388628006 0
                                           28.47868919
22 04 2018 09:10
                        1.506921053 0
                                           19.72843933
22 04 2018 09:20
                        1.709619999 0
                                           17.02590942
22 04 2018 09:30
                        1.849012971 0
                                           16.10063934
                  0
22 04 2018 09:40
                  0
                        2.044466972 0
                                           16.61367989
22 04 2018 09:50
                        2.273948908 0
                  0
                                           21.81644058
22 04 2018 10:00
                  0
                        2.006074905 0
                                           6.602108955
22 04 2018 10:10
                  0
                        1.756868958 0
                                           3.9052701
22 04 2018 10:20
                        1.480674982 0
                                           317.8132019
22 04 2018 10:30
                  0
                        1.520933032 0
                                           352.9093018
22 04 2018 10:40
                                           312.0056152
                  0
                        2.341583014 0
22 04 2018 10:50
                  0
                        2.166182995 0
                                           327.6068115
22 04 2018 11:00
                  0
                        1.634879947 0
                                           335.0549927
22 04 2018 11:10
                  0
                        1.829182029 0
                                           334.8978882
22 04 2018 11:20
                        1.570008039 0
                                           334.7171936
22 04 2018 11:30
                        1.066792965 0
                                           3.940260887
22 04 2018 11:40
                        1.580435991 0
                                           72.89707947
                  0
22 04 2018 11:50
                                           51.31497955
                  0
                        2.278841019 0
22 04 2018 12:00
                  0
                        1.964653015 0
                                           55.27841187
22 04 2018 12:10
                  0
                        2.445815086 0
                                           84.20343018
22 04 2018 12:20
                  0
                        1.951750994 0
                                           68.72044373
22 04 2018 12:30
                        3.928325891 114.6495454 86.76895905
```

```
3.83446002 3.369564056 38.75225715 95.52488708
22 04 2018 12:40
22 04 2018 12:50
                         3.121299028 21.05864525 115.1942978
                   0
22 04 2018 13:00
                         2.797662973 0
                                            114.6690979
                   0
22 04 2018 13:10
                   0
                         1.063609958 0
                                            152,4929962
22 04 2018 13:20
                   0
                         1.016666055 0
                                            240.902298
22 04 2018 13:30
                   0
                         1.184234977 0
                                            247.0446014
22 04 2018 13:40
                   0
                         1.542680025 0
                                            256.9052124
                                            223.0189056
22 04 2018 13:50
                   0
                         1.391244054 0
22 04 2018 14:00
                   0
                         1.980834961 0
                                            221.866806
22 04 2018 14:10
                   0
                         1.054172039 0
                                            219.0057983
22 04 2018 14:20
                   0
                         1.025506973 0
                                            182.0767975
22 04 2018 14:30
                   0
                         1.052474022 0
                                            247.7929993
22 04 2018 14:40
                         1.182402968 0
                                            227.4768066
22 04 2018 14:50
                   0
                         0.847522318 0
                                            183.9770966
22 04 2018 15:00
                         0.592575312 0
                                            263.754303
                   0
22 04 2018 15:10
                   0
                         0.56176579
                                            178.3567047
22 04 2018 15:20
                   0
                         0.583739877 0
                                            201.8123016
22 04 2018 15:30
                   0
                                            207.5487976
                         0.808221817 0
                   0
22 04 2018 15:40
                         0.752924323 0
                                            179.270401
22 04 2018 15:50
                   0
                         0.929281473 0
                                            111.2806015
22 04 2018 16:00
                         0.672421575 0
                                            81.57967377
                   0
22 04 2018 16:10
                   0
                         0.891429722 0
                                            75.71109009
22 04 2018 16:20
                   0
                         1.15467298
                                            84.52407074
22 04 2018 16:30
                   0
                         1.244848967 0
                                            92.15711212
22 04 2018 16:40
                         1.241222978 0
                                            77.8989563
22 04 2018 16:50
                         0.901709676 0
                                            63.39271927
22 04 2018 17:00
                         0.877097905 0
                                            70.88751984
22 04 2018 17:10
                         0.81170392
                                            102.4452972
                   0
                                      0
22 04 2018 17:20
                   0
                         0.51966548
                                            121.7210999
22 04 2018 17:30
                   0
                         0.542451084 0
                                            117.7034988
22 04 2018 17:40
                   0
                         0.843056798 0
                                            75.01431274
22 04 2018 17:50
                   0
                         1.078565001 0
                                            81.06262207
22 04 2018 18:00
                   0
                                            81.60462952
                         0.818621874 0
                                            99.61779022
22 04 2018 18:10
                         0.711099684 0
                   0
22 04 2018 18:20
                         0.567574501 0
                   0
                                            81.67624664
22 04 2018 18:30
                   0
                         0.37233451
                                            63.2253685
22 04 2018 18:40
                   0
                         0.340456694 0
                                            26.1713295
                         0.460158587 0
22 04 2018 18:50
                   0
                                            135.6766968
22 04 2018 19:00
                         0.520282984 0
                                            161.6378021
22 04 2018 19:10
                         0.606283307 0
                                            178.392395
22 04 2018 19:20
                         0.671991408 0
                                            176.1994019
                   0
22 04 2018 19:30
                                            279.5295105
                   0
                         0.502359211 0
22 04 2018 19:40
                         1.359977007 0
                                            334.3702087
                   0
                                            341.0802917
22 04 2018 19:50
                   0
                         1.558459997 0
22 04 2018 20:00
                   0
                         1.020046949 0
                                            358.0274048
22 04 2018 20:10
                   0
                         0.604537308 0
                                            341.0445862
22 04 2018 20:20
                   0
                         0.776997626 0
                                            337.4118042
22 04 2018 20:30
                   0
                         0.524025917 0
                                            342.9794006
22 04 2018 20:40
                   0
                         0.664364576 0
                                            1.586400986
22 04 2018 20:50
                   0
                         1.076171041 0
                                            21.93501091
22 04 2018 21:00
                   0
                         0.802257121 0
                                            35.61286926
22 04 2018 21:10
                         0.4973827
                                            159.8856049
22 04 2018 21:20
                         1.347816944 0
                                            129.2745056
22 04 2018 21:30
                         1.525272965 0
                                            135.7104034
                   0
22 04 2018 21:40
                                            131.7899017
                   0
                         1.561099052 0
22 04 2018 21:50
                   0
                         1.430740952 0
                                            153.9423981
22 04 2018 22:00
                   0
                         1.450865984 0
                                            181.2695007
22 04 2018 22:10
                   0
                         0.568769217 0
                                            150.8638
22 04 2018 22:20
                         0.605495095 0
                                            113.7802963
```

```
22 04 2018 22:30
                        0.433065593 0
                                          100.2306976
                 0
22 04 2018 22:40
                  0
                        0.745596826 0
                                          164.7942047
22 04 2018 22:50
                        1,225824952 0
                                          166.8553009
                  0
22 04 2018 23:00
                 0
                        0.918041825 0
                                          154,6687012
22 04 2018 23:10
                 0
                        1.550143957 0
                                          112.9838028
22 04 2018 23:20
                        2.517527103 0
                                          102.4020996
22 04 2018 23:30
                 0
                        2.272727966 0
                                          87.4156723
                                          74.88240051
22 04 2018 23:40
                 0
                        1.702419043 0
22 04 2018 23:50
                 0
                        1.912752986 0
                                          74.64350128
23 04 2018 00:00
                                          81.67421722
                 0
                        1.940999985 0
23 04 2018 00:10
                 0
                        1.830855012 0
                                          88.0428772
23 04 2018 00:20
                  0
                        1.816002965 0
                                          92.0974884
23 04 2018 00:30
                        1.57961297 0
                                          82.7071228
23 04 2018 00:40
                 0
                        1.720703959 0
                                          84.8021698
23 04 2018 00:50
                                          94.75939178
                 0
                        1.615380049 0
23 04 2018 01:00
                 0
                        1.495865941 0
                                          101.9436035
23 04 2018 01:10
                 0
                        1.680037975 0
                                          112.5102005
23 04 2018 01:20
                 0
                        1.496747971 0
                                          117.8423996
23 04 2018 01:30
                 0
                        2.068989038 0
                                          141.397995
23 04 2018 01:40
                 0
                        2.640873909 0
                                          146.0128021
23 04 2018 01:50
                 0
                        3.264803886 30.08341223 146.9812927
23 04 2018 02:00
                        3.561337948 59.17083767 160.4653931
                 0
23 04 2018 02:10
                 59.27613831 4.284386158 177.7027732 165.5005951
23 04 2018 02:20
                 143.0010986 4.428555965 207.0285972 156.9967041
23 04 2018 02:30
                 169.8195953 4.411746025 203.5493163 165.6531982
23 04 2018 02:40
                 176.7682037 4.487710953 219.4030449 172.6793976
23 04 2018 02:50
                 205.134903 4.609464169 245.5360373 175.7742004
                 212.8943024 4.893539906 310.2701454 173.7543945
23 04 2018 03:00
                 93.00853729 4.126311779 146.813554 174.9819031
23 04 2018 03:10
                 149.392807 4.467588902 215.1706992 177.3901978
23 04 2018 03:20
23 04 2018 03:30
                 209.6768036 4.755363941 278.096781 180.3815002
23 04 2018 03:40 67.80740356 5.168982983 378.6239674 199.4335938
23 04 2018 03:50
                        5.189651012 383.9937333 205.1053009
23 04 2018 04:00
                 0
                        5.105552197 362.3599196 215.1374054
23 04 2018 04:10
                        5.007081032 337.7410817 210.4268036
                 0
23 04 2018 04:20
                 65.77594757 5.214031219 390.3730512 209.0558014
                  297.319397 5.188948154 383.8105494 208.1215057
23 04 2018 04:30
                  355.5350952 5.444448948 453.1606927 206.9965973
23 04 2018 04:40
23 04 2018 04:50
                 450.1062012 6.07589817 649.891456 209.8869019
23 04 2018 05:00
                 400.6072998 5.799958229 559.5711261 214.9739075
23 04 2018 05:10
                403.8204041 5.783528805 554.3815448 217.7332001
                 331.442688 5.282699108 408.6068649 217.6403961
23 04 2018 05:20
23 04 2018 05:30
                 383.3070068 5.737052917 539.8484354 223.1750031
23 04 2018 05:40
                 438.8782043 5.780663967 553.4794226 219.1083069
                 417.2424011 5.658471107 515.7633933 224.1161957
23 04 2018 05:50
23 04 2018 06:00
                  389.7674866 5.520754814 474.990255 223.9965057
                              5.631221771 507.5523314 224.1797943
23 04 2018 06:10
                 418.5513
                 507.3464966 6.161273956 679.7589316 217.0782013
23 04 2018 06:20
23 04 2018 06:30
                478.8320007 5.867475986 581.1875179 216.0110931
23 04 2018 06:40
                 529.2736206 5.940793991 605.196942 218.3829041
23 04 2018 06:50
                  484.0039063 6.038430214 637.0297425 213.5162048
23 04 2018 07:00
                 433.3969116 5.619296074 503.9812629 208.5260925
23 04 2018 07:10
                 465.1846008 5.698276997 527.8878634 206.9485016
23 04 2018 07:20
                 258.4833069 4.821634769 293.3598822 208.688797
23 04 2018 07:30
                 179.9221954 4.41616106 204.461559 207.1327972
23 04 2018 07:40
                 76.14826202 3.446635008 46.25094667 214.727005
23 04 2018 07:50
                 27.83387947 3.448873997 46.48299709 225.091507
23 04 2018 08:00 92.27610016 3.765456915 87.36856436 215.4631958
23 04 2018 08:10 40.37820816 3.273813963 30.75997372 218.8638
```

```
23 04 2018 08:20 11.75463009 2.779500008 0
                                                 225.7335052
23 04 2018 08:30
                  0
                        1.224256992 0
                                           305.8760986
23 04 2018 08:40
                        1.37646997 0
                                           246.4562073
                  0
23 04 2018 08:50
                  0
                        1.653933048 0
                                           213.9243011
23 04 2018 09:00
                  0
                        2.069705963 0
                                           225.2653046
23 04 2018 09:10
                        1.547850013 0
                                           218.1840973
23 04 2018 09:20
                  0
                        1.790271044 0
                                           329.4093933
23 04 2018 09:30
                  0
                        1.789242983 0
                                           272.4906006
23 04 2018 09:40
                  0
                        2.315720081 0
                                           285.2099915
23 04 2018 09:50
                  0
                        1.84029901 0
                                           310.2748108
23 04 2018 10:00
                  0
                        1.739508033 0
                                           264.7262878
23 04 2018 10:10
                        2.064146996 0
                                           302.9078979
23 04 2018 10:20
                        2.146224976 0
                                           263.8279114
23 04 2018 10:30
                        1.86077404 0
                                           291.6791077
23 04 2018 10:40
                        1.798688054 0
                                           284.1398926
                  0
23 04 2018 10:50
                  0
                        2.158034086 0
                                           308.5332947
23 04 2018 11:00
                  0
                        2.25605011 0
                                           288.1907959
23 04 2018 11:10
                  0
                        2.481209993 0
                                           288.2943115
                  0
23 04 2018 11:20
                        2.535568953 0
                                           293.2434082
23 04 2018 11:30
                  0
                        2.275583029 0
                                           295.2307129
23 04 2018 11:40
                        2.73705411 0
                                           301.9122009
                  0
23 04 2018 11:50
                        3.208427906 26.14506835 299.6217041
                  0
23 04 2018 12:00
                        2.935318947 0
                                           289.6940002
23 04 2018 12:10
                  0
                        2.890124083 0
                                           281,4135132
23 04 2018 12:20
                        2.740070105 0
                                           289.0531921
23 04 2018 12:30
                        2.600194931 0
                                           309.9251099
23 04 2018 12:40
                        2.78432703 0
                                           293.3088989
23 04 2018 12:50
                                           291.6972961
                        2.864403009 0
                  0
23 04 2018 13:00
                  0
                        2.790170908 0
                                           295.4590149
23 04 2018 13:10
                                           301.508606
                  0
                        2.898169041 0
23 04 2018 13:20
                        3.243366957 28.52594066 305.2202148
                  0
23 04 2018 13:30
                  0
                                          305.6444092
                        2.950726986 0
23 04 2018 13:40
                        2.377958059 0
                                           298.9653015
                                           302.2402039
23 04 2018 13:50
                        2.548265934 0
                  0
23 04 2018 14:00
                        2.751674891 0
                                           315.9822998
                  0
23 04 2018 14:10
                  0
                        2.534744978 0
                                           315.9447937
23 04 2018 14:20
                  0
                        2.227035046 0
                                           319.5206909
                                           312.653595
23 04 2018 14:30
                  0
                        2.563321114 0
23 04 2018 14:40
                        2.037735939 0
                                           330.3020935
23 04 2018 14:50
                        2.685187101 0
                                           354,0776062
23 04 2018 15:00
                        2.276523113 0
                                           354.4577942
                  0
23 04 2018 15:10
                        3.39721489 41.33324994 0.146099299
                  0
23 04 2018 15:20
                        2.654433966 0
                                          15.84016991
                  0
23 04 2018 15:30
                  0
                        3.083250999 19.2184903 20.90069962
23 04 2018 15:40
                  0
                        3.650281906 70.63834559 22.27137947
                  94.6259079 4.252336025 171.3367323 18.60814095
23 04 2018 15:50
                  163.9147949 4.598474979 243.1395415 24.15173912
23 04 2018 16:00
                  195.0614014 4.752239227 277.38458
23 04 2018 16:10
                                                       23.85195923
23 04 2018 16:20
                  255.7964935 5.097910881 360.4223553 35.07970047
23 04 2018 16:30
                  394.2923889 5.747851849 543.2059822 42.97827911
23 04 2018 16:40
                  351.9201965 5.478680134 462.8877185 42.44865036
23 04 2018 16:50
                  216.2402039 4.762781143 279.7900154 37.22121048
23 04 2018 17:00
                  364.2384033 5.457341194 456.8116329 40.40333176
23 04 2018 17:10
                  587.7963257 6.40496397 769.3150156 44.04447937
23 04 2018 17:20
                  668.0394287 6.512643814 810.9455566 46.84587097
23 04 2018 17:30
                  734.6425171 6.780202866 920.038826 49.28578186
23 04 2018 17:40
                  750.3833008 6.925811768 982.9385601 51.50040054
23 04 2018 17:50
                  826.7252197 6.986028194 1009.711584 49.0118103
23 04 2018 18:00 841.4108887 7.035698891 1032.140391 49.55994034
```

```
23 04 2018 18:10 970.1295166 7.313574791 1163.638148 46.51445007
                 1048.412964 7.427741051 1220.801368 47.87184906
23 04 2018 18:20
23 04 2018 18:30
                 1135.457031 7.523170948 1269.915194 47.09799957
23 04 2018 18:40
                 1112.89502 7.523427963 1270.047766 48.48311996
23 04 2018 18:50
                 1198.704956 7.62836504 1324.905536 47.50035095
23 04 2018 19:00
                 1048.449951 7.3697052
                                         1191.503943 49.50991058
23 04 2018 19:10 841.3554077 7.103818893 1063.417127 51.43201065
23 04 2018 19:20
                 674.1884155 6.515248775 811.9685558 54.57189178
23 04 2018 19:30
                 617.1663818 6.472558022 795.2983744 55.49966049
23 04 2018 19:40
                 635.8905029 6.535984993 820.1388829 49.40999985
23 04 2018 19:50
                 588.6707764 6.396091938 765.9417688 52.79373169
23 04 2018 20:00
                 525.8953857 6.15107584 676.1502925 50.61943817
23 04 2018 20:10
                 500.2077942 6.004097939 625.3761626 50.22423172
23 04 2018 20:20 478.7927856 5.904434204 593.219706 51.21783066
23 04 2018 20:30 494.6203918 5.949528217 608.0949115 50.18582916
23 04 2018 20:40 448.5480042 5.862613201 579.6149658 51.93671036
23 04 2018 20:50 512.4525757 6.181582928 686.9784773 54.81644821
23 04 2018 21:00 539.4802246 6.140845776 672.5415234 58.75712967
23 04 2018 21:10 672.8596802 6.66845417 873.476229 61.27043915
                 571.3654785 6.179331779 686.1760511 62.59846878
23 04 2018 21:20
                 622.9760742 6.364278793 753.9166388 63.33863068
23 04 2018 21:30
23 04 2018 21:40
                 665.4849243 6.418501854 774.4788583 60.23514938
23 04 2018 21:50
                 616.9174194 6.385975838 762.1059989 66.0092926
23 04 2018 22:00
                 525.7490845 6.08978796 654.697545 66.30207825
23 04 2018 22:10 427.5983887 5.871609211 582.5260697 67.72505951
23 04 2018 22:20
                 351.0671997 5.602820873 499.070283 70.7662735
23 04 2018 22:30 300.9808044 5.435500145 450.635313 75.94172668
23 04 2018 22:40 376.8710938 5.982901096 619.2427888 75.28764343
23 04 2018 22:50 381.394104 5.747517109 543.1017318 73.54250336
                 334.9881897 5.513162136 472.7942042 75.05683136
23 04 2018 23:00
23 04 2018 23:10 274.0036011 5.089362144 358.2601771 70.15287781
23 04 2018 23:20 228.9589996 4.84524107 298.8708313 68.92389679
23 04 2018 23:30
                 227.6705933 4.894385815 310.4712922 63.84405899
23 04 2018 23:40 190.4718933 4.747578144 276.3234365 57.63850021
23 04 2018 23:50 174.3634949 4.606704235 244.9334382 58.45320892
                 220.2628021 4.80896616 290.4185427 55.37308884
24 04 2018 00:00
24 04 2018 00:10
                 284.2056885 5.241525173 397.6262169 59.38214111
                 288.8779907 5.338290215 423.6615814 61.52219009
24 04 2018 00:20
24 04 2018 00:30
                 268.4916992 5.159564018 376.1883761 61.75371933
                 255.0021057 5.008691788 338.137758 68.20554352
24 04 2018 00:40
24 04 2018 00:50 231.6215057 4.813486099 291.466671 67.02546692
24 04 2018 01:00 236.4378052 4.839233875 297.4646979 62.17245102
24 04 2018 01:10
                 268.068512 5.045488834 347.253831 59.0254097
24 04 2018 01:20
                 274.8153992 5.049411774 348.2318556 62.28623962
24 04 2018 01:30
                 291.8803101 5.277238846 407.1424274 68.49741364
24 04 2018 01:40
                 268.8577881 5.13929081 370.9704304 69.90763855
                 227.1407928 4.849493027 299.8676568 69.83934021
24 04 2018 01:50
                 208.0267944 4.767999172 280.9834664 68.95275116
24 04 2018 02:00
                 205.2962952 4.82109499 293.234329 68.36683655
24 04 2018 02:10
24 04 2018 02:20
                 166.779007 4.611534119 245.988304 74.15750122
24 04 2018 02:30
                 218.962204 4.923423767 317.4078006 73.93373871
24 04 2018 02:40
                 255.5402985 5.121192932 366.3403193 73.79620361
24 04 2018 02:50
                 82.96212006 3.638113022 68.99467499 84.88115692
24 04 2018 03:00
                 90.75415802 3.559730053 58.97518027 99.77719116
24 04 2018 03:10
                 108.0768967 3.603864908 64.49590325 97.70777893
24 04 2018 03:20
                 153.7821045 3.999792099 127.9600865 103.4792023
24 04 2018 03:30 91.35951233 3.590775013 62.82600969 96.06130981
24 04 2018 03:40 33.72417068 3.105843067 20.28319854 94.36367798
24 04 2018 03:50 0.574132383 2.71193409 0 102.2337036
```

```
24 04 2018 04:00 0
                       3.354183912 37.36958469 108.7763977
24 04 2018 04:10 107.1623993 4.500175953 222.0369442 113.3890991
24 04 2018 04:20 170.866806 4.285161972 177.8575432 107.018898
24 04 2018 04:30 304.684906 5.00088501 336.2170473 111.2609024
24 04 2018 04:40 310.3841858 5.15358305 374.6455318 114.7409973
24 04 2018 04:50 290.2513123 5.060664177 351.0438133 118.8999023
24 04 2018 05:00 452.8702087 5.962640762 612.4608287 122.7742996
24 04 2018 05:10 619.0410767 6.64360714 863.3198525 123.7956009
24 04 2018 05:20 608.3654785 6.538627148 821.1833721 124.7764969
24 04 2018 05:30
                 567.9702759 6.458645821 789.9094112 125.8322983
24 04 2018 05:40
                 308.1340027 5.301163197 413.5777324 123.1707001
24 04 2018 05:50 210.4613037 4.862626076 302.9546962 118.8766022
24 04 2018 06:00 84.15292358 4.108094215 143.3332129 118.7529984
24 04 2018 06:10 64.31243896 3.864310026 103.4204665 123.8779984
24 04 2018 06:20 5.755653858 2.992791891 0
                                           122.770401
24 04 2018 06:30 0
                       2.311368942 0
                                      122.2509003
24 04 2018 06:40 0
                       1.12163198 0
                                         104.8167038
24 04 2018 06:50 0
                       1.213243008 0
                                       67.37943268
24 04 2018 07:00 0
                       2.680531979 0
                                         69.52763367
24 04 2018 07:10 0
                       2.991507053 0
                                         68.21853638
24 04 2018 07:20 0
                       2.751430988 0
                                         79.08338165
24 04 2018 07:30 0
                       3.076009035 18.894479 85.2261734
24 04 2018 07:40 0
                       2.323821068 0
                                      74.23285675
24 04 2018 07:50 0
                      2.588145971 0
                                         82.36692047
24 04 2018 08:00 0
                      2.463604927 0
                                         84.56482697
24 04 2018 08:10 0
                      1.969915032 0
                                         82.63469696
24 04 2018 08:20 0
                       2.237112999 0
                                         59.78750992
24 04 2018 08:30 0
                       2.369117975 0
                                         61.81003952
24 04 2018 08:40 0
                       2.710671902 0
                                         65.22786713
24 04 2018 08:50 0
                       2.4853971 0
                                         56.98936081
24 04 2018 09:00 0
                      2.40862298 0
                                       58.61502075
24 04 2018 09:10 0
                       2.688740015 0
                                       62.33456039
24 04 2018 09:20 0
                      2.48893404 0
                                         56.05276871
                                         68.80388641
24 04 2018 09:30 0
                      1.972502947 0
24 04 2018 09:40 0
                                      45.31278992
                       2.303653955 0
24 04 2018 09:50
                 0
                       2.655066013 0
                                         40.690979
24 04 2018 10:00 0
                       2.491624117 0
                                         53.48268127
24 04 2018 10:10 0
                       2.704668045 0
                                         54.48886108
24 04 2018 10:20 0
                       2.911948919 0
                                         43.96912003
24 04 2018 10:30 0
                       2.842706919 0
                                         45.68899155
24 04 2018 10:40 0
                       3.119028091 20.94231385 39.07907867
24 04 2018 10:50 43.3534584 4.113518238 144.36778 36.40232086
24 04 2018 11:00 41.25090027 3.236911058 28.07130184 47.84403992
                 11.31571007 3.056420088 18.06010091 41.31465912
24 04 2018 11:10
24 04 2018 11:20 6.562002182 2.89686799 0
                                               58.75846863
24 04 2018 11:30 45.94567108 3.633394957 68.36377229 65.6496582
                 32.93362045 3.196986914 25.40788877 64.49590302
24 04 2018 11:40
24 04 2018 11:50
                 19.75219917 3.045967102 17.63998522 37.55261993
24 04 2018 12:00 48.99736023 3.415513992 43.10859798 42.2874794
24 04 2018 12:10
                 15.31427002 2.923969984 0
                                               47.99594116
24 04 2018 12:20
                 1.721801043 2.887773991 0
                                               47.98326874
24 04 2018 12:30 0
                       2.625226974 0
                                         45.34416962
24 04 2018 12:40
                       3.143503904 22.23959458 63.28416061
24 04 2018 12:50 13.12497997 4.073141098 136.6995937 71.47086334
24 04 2018 13:00 33.43016815 2.991364956 0
                                               56.22750092
24 04 2018 13:10 0
                       2.478159904 0
                                         35.82118988
24 04 2018 13:20 0
                       2.320355892 0
                                         29.53672028
24 04 2018 13:30 0
                       3.033036947 17.1444975 24.71286011
24 04 2018 13:40 4.64351511 3.272665977 30.6730501 38.11618042
```

```
24 04 2018 13:50 0.283133298 2.713447094 0
                                               36,62060928
                       3.094600916 19.74317597 54.63787842
24 04 2018 14:00 0
24 04 2018 14:10 0
                       2.821882963 0
                                       54.35655975
24 04 2018 14:20 0
                       2.693125963 0
                                         53.77904892
24 04 2018 14:30 4.320001125 3.447390079 46.3291132 60.79708099
24 04 2018 14:40 0.048333138 2.865590096 0
                                               62.98775864
24 04 2018 14:50 99.74680328 4.079414845 137.8860556 57.41857147
                 115.4135971 4.169663906 155.1601562 57.25312042
24 04 2018 15:00
24 04 2018 15:10 194.576004 4.68665123 262.5873136 61.26567841
24 04 2018 15:20
                 223.6949005 4.845026016 298.8204484 60.72895813
24 04 2018 15:30
                 227.3798065 4.886722088 308.650847 57.94678116
24 04 2018 15:40 203.758606 4.767003059 280.7554946 58.76572037
24 04 2018 15:50 235.7971954 4.957161903 325.545018 63.65129089
24 04 2018 16:00 281.6343994 5.22144413 392.322453 63.34101105
24 04 2018 16:10 232.1555939 4.944134235 322.3929063 69.87206268
24 04 2018 16:20 328.4425964 5.478604794 462.8661931 66.56284332
24 04 2018 16:30 418.2666931 5.871942997 582.6342443 67.44821167
24 04 2018 16:40 439.8258057 5.947724819 607.4958895 66.79168701
24 04 2018 16:50 527.895813 6.182210922 687.2024239 66.1556015
24 04 2018 17:00 511.8157043 6.184507847 688.0218808 66.16413116
24 04 2018 17:10 509.6961975 6.202120781 694.3242975 71.23969269
24 04 2018 17:20 583.9475098 6.380869865 760.1741813 70.38777161
24 04 2018 17:30 652.1218872 6.619119167 853.3793325 70.3375473
24 04 2018 17:40
                 732.4890747 6.792992115 925.4612735 72.68010712
24 04 2018 17:50 813.5343018 6.926092148 983.062173 72.25700378
24 04 2018 18:00 714.755188 6.712199211 891.5301692 71.63664246
24 04 2018 18:10 501.9702148 6.073637009 649.1110087 71.26528931
24 04 2018 18:20 485.8841858 6.050909996 641.2970453 68.80947876
24 04 2018 18:30 416.3158875 5.760293007 547.0885713 63.03601074
24 04 2018 18:40 403.5245972 5.735597134 539.3966999 62.56872177
24 04 2018 18:50 471.2016907 5.962493896 612.4118271 63.57653046
24 04 2018 19:00 457.2012024 5.933237076 602.6961303 62.69361877
24 04 2018 19:10
                347.0495911 5.490035057 466.1378694 65.63128662
24 04 2018 19:20 365.2755127 5.51556778 473.4894177 61.61067963
24 04 2018 19:30 397.1058044 5.638278008 509.6717123 59.18899155
24 04 2018 19:40
                 384.2041931 5.594370842 496.5615152 56.70870972
                 347.5004883 5.416071892 445.1773617 56.93832016
24 04 2018 19:50
24 04 2018 20:00 321.7124023 5.341901779 424.6488582 55.61249924
24 04 2018 20:10 273.7406921 5.045043945 347.1429913 56.12625122
24 04 2018 20:20 240.4826965 4.914969921 315.3820038 52.0318718
24 04 2018 20:30 122.2919998 4.291618824 179.1468862 51.6247406
24 04 2018 20:40 169.5991974 4.523335934 226.9555334 56.52030182
24 04 2018 20:50 85.88868713 4.016499996 126.0695017 55.50289917
24 04 2018 21:00
                 145.9445038 4.454915047 212.5172309 65.47818756
24 04 2018 21:10
                 101.2645035 4.121257782 145.8464326 61.47518921
24 04 2018 21:20
                 61.97727966 3.703214884 78.06377011 57.96583176
24 04 2018 21:30
                       3.121221066 21.05463783 79.85991669
24 04 2018 21:40
                 32.7070694 3.740380049 83.54517089 78.88378906
                 39.89490891 3.673027992 73.77423002 75.63762665
24 04 2018 21:50
24 04 2018 22:00
                 17.56171036 3.459100962 47.55312622 77.00702667
24 04 2018 22:10
                 3.782139063 3.287448883 31.80851309 75.48680878
24 04 2018 22:20
                 0
                       2.865026951 0
                                       67.90560913
24 04 2018 22:30
                       2.741385937 0
                                         55.57477951
24 04 2018 22:40
                       2.572228909 0
                                         53.45552063
                 0
24 04 2018 22:50
                       2.846370935 0
                                         48.26107025
                 0
24 04 2018 23:00
                 0
                       2.643271923 0
                                         52.30855179
24 04 2018 23:10
                 0
                    2.746294975 0
                                         59.49689865
                                      58.18904114
51.6457901
                   2.695278883 0
2.630717039 0
24 04 2018 23:20 0
24 04 2018 23:30 0
```

```
24 04 2018 23:40
                         2.646945
                                            53.81903076
                  0
                                     0
24 04 2018 23:50
                         2.364274025 0
                   0
                                            53.07159042
25 04 2018 00:00
                         2.540796995 0
                                            44.71039963
                   0
25 04 2018 00:10
                  0
                         2.967221975 0
                                            35.09331894
25 04 2018 00:20
                   0
                         2.917360067 0
                                            37.7179985
25 04 2018 00:30
                         2.414985895 0
                                            38.79045868
25 04 2018 00:40
                   0
                         2.095756054 0
                                            47.59930038
25 04 2018 00:50
                   0
                         1.830518007 0
                                            46.75273132
25 04 2018 01:00
                   0
                         1.271474957 0
                                            64.22535706
25 04 2018 01:10
                   0
                         1.602203012 0
                                            60.42240143
25 04 2018 01:20
                         2.062601089 0
                   0
                                            39.65171051
25 04 2018 01:30
                         2.909478903 0
                                            33.21389008
25 04 2018 01:40
                         3.087853909 19.42878981 29.73810959
25 04 2018 01:50
                   0
                         2.996421099 0
                                            36.5743103
25 04 2018 02:00
                         2.922663927 0
                                            45.03310013
                   0
25 04 2018 02:10
                   0
                         2.954699993 0
                                            42.05686188
25 04 2018 02:20
                  0
                         2.713846922 0
                                            45.10987091
25 04 2018 02:30
                   0
                         3.062094927 18.29550005 43.83868027
25 04 2018 02:40
                   0
                         2.575830936 0
                                            58.99081039
25 04 2018 02:50
                   0
                         2.037584066 0
                                            70.23235321
                         2.862191916 0
25 04 2018 03:00
                                            48.41168976
                   0
25 04 2018 03:10
                         3.231220007 27.67605555 37.62203979
                   0
25 04 2018 03:20
                   0
                         1.908844948 0
                                            60.55857086
                                            74.88722229
25 04 2018 03:30
                   0
                         1.748633027 0
25 04 2018 03:40
                         1.577451944 0
                                            71.54509735
25 04 2018 03:50
                         2.755158901 0
                                            81.33335114
25 04 2018 04:00
                         2.674108982 0
                                            76.56539154
                   0
25 04 2018 04:10
                         3.030097008 17.03557064 77.70809174
                   0
25 04 2018 04:20
                   0
                         2.364085913 0
                                            42.64427948
25 04 2018 04:30
                   0
                         3.318069935 34.27171659 71.79595184
25 04 2018 04:40
                  0
                         2.336850882 0
                                            55.2813797
25 04 2018 04:50
                   0
                         2.49633503
                                            76.24384308
25 04 2018 05:00
                   0
                         2.90260601
                                            78.10186005
                         2.947622061 0
25 04 2018 05:10
                                            79.27039337
                   0
25 04 2018 05:20
                                            75.26825714
                   0
                         2.487812996 0
25 04 2018 05:30
                   0
                         1.946158051 0
                                            22.50877953
25 04 2018 05:40
                   0
                         2.256975889 0
                                            50.47032928
25 04 2018 05:50
                   0
                         1.82514298 0
                                            24.89652061
25 04 2018 06:00
                         1.894621015 0
                                            15.29403973
25 04 2018 06:10
                         2.042859077 0
                                            13.73768044
25 04 2018 06:20
                         1.97342205
                                            46.58192825
                   0
25 04 2018 06:30
                   0
                         1.638380051 0
                                            32.84173965
25 04 2018 06:40
                                            48.79024887
                   0
                         1.281726956 0
25 04 2018 06:50
                  0
                         1.658853054 0
                                            33.97901917
25 04 2018 07:00
                   0
                         1.591707945 0
                                            31.15974998
25 04 2018 07:10
                   0
                         1.295526981 0
                                            27.99278069
25 04 2018 07:20
                   0
                         2.079389095 0
                                            13.91501999
25 04 2018 07:30
                   0
                         2.141930103 0
                                            22.44824982
25 04 2018 07:40
                   0
                         2.178648949 0
                                            27.17515945
25 04 2018 07:50
                   0
                         2.456136942 0
                                            18.79277039
25 04 2018 08:00
                   0
                         2.323606968 0
                                            26.98188972
25 04 2018 08:10
                         2.575294018 0
                                            22.80830956
25 04 2018 08:20
                         2.727415085 0
                                            29.93844986
25 04 2018 08:30
                         1.978078961 0
                                            45.26218033
                   0
25 04 2018 08:40
                                            49.08388138
                   0
                         2.480793953 0
25 04 2018 08:50
                   0
                         2.611351967 0
                                            65.35761261
25 04 2018 09:00
                  0
                         3.341012001 36.21551882 78.86714172
                         3.190486908 24.99840202 74.49846649
25 04 2018 09:10
                  0
25 04 2018 09:20
                   0
                         2.777379036 0
                                           69.57076263
```

```
3.010641098 16.34957377 84.23034668
25 04 2018 09:30
                  0
25 04 2018 09:40
                  0
                        3.517482042 53.98243848 84.73674774
25 04 2018 09:50
                        2.809484005 0
                                          74.89131165
                  0
25 04 2018 10:00
                  0
                        3.143963099 22.26484905 82.56948853
25 04 2018 10:10
                        3.202037096 25.73070613 79.90926361
                  0
25 04 2018 10:20
                        2.689882994 0
                                          68.43327332
25 04 2018 10:30
                  0
                        2.843293905 0
                                          71.20671082
25 04 2018 10:40
                  0
                        2.739130974 0
                                          53.66733932
25 04 2018 10:50
                  0
                        2.417062998 0
                                          48.40396118
25 04 2018 11:00
                  0
                        2.68827796 0
                                          56.57946014
25 04 2018 11:10
                  0
                        2.884980917 0
                                          53.84249115
25 04 2018 11:20
                  0
                        2.333597898 0
                                          59.43053818
25 04 2018 11:30
                        2.400943995 0
                                          59.51264954
                                          61.69237137
25 04 2018 11:40
                        2.545098066 0
                  0
25 04 2018 11:50
                        3.274355888 30.80108071 43.77576065
                  0
25 04 2018 12:00
                  0
                        2.976500034 0
                                          28.95454979
25 04 2018 12:10
                 0
                        3,373507023 39,11282442 26,51544952
25 04 2018 12:20
                 0
                        3.144606113 22.30026987 35.5112381
25 04 2018 12:30
                 0
                        3.215723991 26.62611496 38.00159073
25 04 2018 12:40
                  0
                        3.005810022 16.18862122 34.34263992
25 04 2018 12:50
                        2.868129969 0
                                          28.62479973
                  0
25 04 2018 13:00
                  0
                        2.916760921 0
                                          23.63503075
25 04 2018 13:10
                  0
                        3.346580982 36.70006161 21.84476089
25 04 2018 13:20
                  3.895541906 3.010293007 16.3378519 24.62475014
25 04 2018 13:30 0
                        2.847481966 0
                                          24.1847496
25 04 2018 13:40 0
                        2.865766048 0
                                          21.49068069
25 04 2018 13:50 0
                        3.094717026 19.74865002 18.22216988
25 04 2018 14:00
                 25.20545006 3.849586964 100.9306235 10.94462967
25 04 2018 14:10
                 337.2950134 5.404644966 441.9829725 15.51239967
25 04 2018 14:20
                  307.1463928 5.349387169 426.6987174 20.69171906
25 04 2018 14:30
                 309.3287048 5.281229019 408.2123391 20.77017975
25 04 2018 14:40
                  166.261795 4.428650856 207.0482836 21.37792969
25 04 2018 14:50
                  301.8532104 5.142332077 371.7510811 25.07694054
25 04 2018 15:00
                  349.9184875 5.380364895 435.2339947 26.44438934
                  206.0928955 4.67092514 259.0818829 37.15459824
25 04 2018 15:10
                  142.5256958 4.263639927 173.5758388 35.26704025
25 04 2018 15:20
25 04 2018 15:30
                  203.8722992 4.654661179 255.4735876 30.36993027
25 04 2018 15:40
                  380.7351074 5.493486881 467.1282354 24.65250015
                  429.869812 5.768057823 549.5196524 21.39003944
25 04 2018 15:50
                  298.8861084 5.119626999 365.9409278 27.41201019
25 04 2018 16:00
                 426.1528015 5.687746048 524.6651661 26.10976982
25 04 2018 16:10
25 04 2018 16:20
                 510.1481018 6.036254883 636.2876193 28.67625999
25 04 2018 16:30
                 465.7775879 5.939397812 604.7344482 30.08374023
25 04 2018 16:40
                 406.7286072 5.789233208 556.180302 35.29792023
25 04 2018 16:50
                  364.6987
                              5.578296185 491.807752 40.56464005
25 04 2018 17:00
                  336.7867126 5.402319908 441.3344278 43.22481155
25 04 2018 17:10
                  387.5486145 5.642094135 510.8199077 40.56155014
                  465.7084045 5.905598164 593.6009668 37.46340942
25 04 2018 17:20
25 04 2018 17:30
                  543.9852295 6.098040104 657.562679 37.17634964
25 04 2018 17:40
                  531.0219116 6.289380074 726.0392946 41.78054047
25 04 2018 17:50
                  527.4194946 6.197256088 692.5802479 42.03184128
25 04 2018 18:00
                  581.8231201 6.3947258
                                          765.4231113 39.20069885
25 04 2018 18:10
                  593.1359253 6.434951782 780.7804809 41.74002075
25 04 2018 18:20
                  578.5349121 6.342298031 745.6723863 44.33533096
25 04 2018 18:30
                  564.5950928 6.077363968 650.3976725 42.52495956
25 04 2018 18:40
                  515.1107178 6.112817764 662.7116448 48.97927856
25 04 2018 18:50
                 484.4078064 6.047110081 639.9959502 50.10482025
25 04 2018 19:00 548.1220093 6.226210117 702.9979976 47.60379028
25 04 2018 19:10 587.0690918 6.4153862 773.2886573 55.18376923
```

```
25 04 2018 19:20 567.4281006 6.22758913 703.4964142 65.92064667
25 04 2018 19:30 479.2203064 5.879722118 585.158612 67.99317932
25 04 2018 19:40
                 392,7030945 5,628164768 506,6356308 69,25322723
25 04 2018 19:50
                 380.6358948 5.656939983 515.3001134 70.28949738
                 264.3269958 5.155091763 375.0344445 61.12638855
25 04 2018 20:00
25 04 2018 20:10 253.7173004 5.050673962 348.5467844 61.98466873
25 04 2018 20:20
                 262.5650024 5.162025928 376.8242905 61.21630859
                 349.9075012 5.508022785 471.3107606 66.89913177
25 04 2018 20:30
25 04 2018 20:40
                 370.9827881 5.564290047 487.6856262 66.16378021
25 04 2018 20:50
                 405.910614 5.684757233 523.752506 67.2388916
25 04 2018 21:00
                 436.8234863 5.780461788 553.4157889 68.19790649
25 04 2018 21:10 466.1328125 5.93896389 604.5907507 67.5341568
25 04 2018 21:20 547.4630127 6.122488022 666.0936744 66.46917725
25 04 2018 21:30 642.175415 6.4039011 768.910447 68.0252533
25 04 2018 21:40 604.2905884 6.321450233 737.9014885 68.02205658
25 04 2018 21:50 575.8364868 6.251716137 712.2496798 68.53294373
25 04 2018 22:00 592.9608154 6.382814884 760.9097338 70.88265228
25 04 2018 22:10 580.0665894 6.41519022 773.2138271 74.11325836
25 04 2018 22:20 519.8942261 6.109025002 661.3879103 71.89351654
25 04 2018 22:30 501.9071045 6.059792995 644.3446135 71.80927277
25 04 2018 22:40 517.5474243 6.137096882 671.221861 73.17725372
25 04 2018 22:50 475.2267151 6.04613018 639.6606815 74.62725067
25 04 2018 23:00 445.4985962 5.962516785 612.4194636 76.63739777
25 04 2018 23:10
                 387.8772888 5.942121983 605.6370401 78.37615967
25 04 2018 23:20 475.6435852 6.078264236 650.7086961 77.2959671
25 04 2018 23:30 517.515625 6.255918026 713.780519 77.87528992
25 04 2018 23:40 489.0852966 6.172627926 683.7896628 77.96198273
25 04 2018 23:50 405.9458923 5.96378994 612.8443299 77.89483643
26 04 2018 00:00 333.292511 5.453204155 455.6384314 75.86580658
26 04 2018 00:10 510.6455994 6.313084126 734.7962973 78.5356369
26 04 2018 00:20 536.0443726 6.282614231 723.5509084 77.88629913
26 04 2018 00:30 593.557373 6.406041145 769.7251553 77.26888275
26 04 2018 00:40 539.6384277 6.166444778 681.5928957 71.81423187
26 04 2018 00:50 493.8420105 6.110088825 661.7590466 68.58918762
26 04 2018 01:00 483.3884888 5.956903934 610.5484547 65.16996765
26 04 2018 01:10
                 504.7441101 6.070243835 647.9408689 65.13932037
26 04 2018 01:20
                 507.7354126 6.0645051 645.9646589 65.47116852
                 501.3525085 6.149058819 675.4378801 62.53754044
26 04 2018 01:30
26 04 2018 01:40
                 491.4067078 5.991888046 622.2651937 59.55501175
26 04 2018 01:50
                 513.6359253 6.028427124 633.6213319 58.31277847
26 04 2018 02:00 489.7858887 5.953380108 609.3755258 60.68503952
26 04 2018 02:10 482.5880127 5.939085007 604.6308577 61.97011948
26 04 2018 02:20 480.428894 5.959577084 611.4391131 62.9159317
26 04 2018 02:30 524.7885742 6.107532978 660.8675917 61.10715103
26 04 2018 02:40 556.4274292 6.30702877 732.553493 64.09850311
26 04 2018 02:50
                 547.1538086 6.146514893 674.5399851 60.29890823
26 04 2018 03:00
                 574.3701782 6.211790085 697.7983882 59.96549988
                 611.7689209 6.33811903 744.110914 58.95600128
26 04 2018 03:10
26 04 2018 03:20 599.260376 6.277427197 721.6465283 58.45264053
26 04 2018 03:30
                 619.7614746 6.339633942 744.6767378 57.28126907
26 04 2018 03:40
                 607.5731812 6.270979881 719.2834863 59.27043915
26 04 2018 03:50
                 612.4868164 6.423480988 776.3831287 63.79006958
26 04 2018 04:00
                 680.8018799 6.747414112 906.2252677 65.43919373
26 04 2018 04:10
                 603.4868164 6.347456932 747.6026079 62.88341141
26 04 2018 04:20
                 534.7111206 6.178561211 685.901505 63.72301865
26 04 2018 04:30 594.0968018 6.345981121 747.0501331 63.02833176
26 04 2018 04:40 617.2844849 6.484659195 800.0032128 62.22460938
26 04 2018 04:50 624.3566284 6.401884079 768.1430317 65.60045624
26 04 2018 05:00 703.4865112 6.653196812 867.2313002 64.83187103
```

```
26 04 2018 05:10 695.1868286 6.662994862 871.2386291 66.01524353
26 04 2018 05:20 644.0070801 6.449497223 786.3772839 65.03883362
26 04 2018 05:30
                 674,4464722 6,580270767 837,7491812 66,98887634
26 04 2018 05:40
                 742.7858887 6.7059412 888.9338494 66.41806793
26 04 2018 05:50
                 755.4235229 6.84568882 948.0098688 68.82694244
26 04 2018 06:00
                 692.8709106 6.734801769 900.9455004 69.96803284
26 04 2018 06:10
                 667.3787842 6.652645111 867.0059863 69.01280212
26 04 2018 06:20
                 698.1137695 6.6690979 873.7402998 68.97606659
26 04 2018 06:30
                 756.0394287 6.846074104 948.1759583 69.99511719
                 644.1436157 6.419826984 774.9853894 71.40447998
26 04 2018 06:40
26 04 2018 06:50
                 586.0437012 6.275969982 721.1120448 71.03546906
26 04 2018 07:00
                 698.1887207 6.511610031 810.5397871 71.14267731
26 04 2018 07:10
                 621.6168823 6.410430908 771.3978913 68.78579712
26 04 2018 07:20
                 535.0634155 6.015607834 629.2689804 67.72132874
26 04 2018 07:30 570.6798096 6.08940506 654.5647791 68.62097168
26 04 2018 07:40 597.234314 6.237731934 707.1686
                                                     69.67681122
26 04 2018 07:50 629.5267944 6.402499199 768.377019 67.158638
26 04 2018 08:00
                 707.77948
                             6.559490204 829.4583456 69.89688873
26 04 2018 08:10 652.1948242 6.413938046 772.7358143 70.33513641
26 04 2018 08:20 452.5248108 5.734896183 539.1792675 67.74030304
                 395.4919128 5.683795929 523.4591497 66.5786972
26 04 2018 08:30
26 04 2018 08:40
                 243.9924011 4.723369122 270.8356676 64.68244171
26 04 2018 08:50
                 195.2326965 4.443761826 210.1899139 59.94269943
26 04 2018 09:00
                 444.4208984 5.449015141 454.4520689 59.93399811
26 04 2018 09:10
                 352.6751099 5.241475105 397.6129512 58.44697189
26 04 2018 09:20
                 251.7198029 4.75054884 276.9995751 67.11831665
26 04 2018 09:30
                 220.6701965 4.527990818 227.9480319 61.07733154
26 04 2018 09:40
                390.5660095 5.392573833 438.6211101 60.56692886
                560.6328735 5.988472939 621.1156336 56.63679123
26 04 2018 09:50
26 04 2018 10:00
                 482.1376953 5.833677769 570.3082162 63.14276886
                 443.8183899 5.56364584 487.4964751 59.09503937
26 04 2018 10:10
26 04 2018 10:20
                 707.5189209 6.503507137 807.3634409 61.6534996
26 04 2018 10:30
                 1003.791016 7.320495129 1167.049141 61.44538116
26 04 2018 10:40
                 857.9995728 6.873908997 960.2226824 60.45027161
                 597.1314087 5.975840092 616.8741887 59.14001083
26 04 2018 10:50
26 04 2018 11:00
                 976.3953247 7.210823059 1113.788667 62.45085144
26 04 2018 11:10
                 886.718811 6.836341858 943.9860416 57.77511978
26 04 2018 11:20
                 720.685791 6.408906937 770.8169372 59.711689
26 04 2018 11:30
                 542.7836304 5.836010933 571.0554548 53.72948074
26 04 2018 11:40
                 395.0946045 5.164614201 377.4933748 50.08452988
26 04 2018 11:50 376.0404053 5.287089825 409.7862902 47.70014191
26 04 2018 12:00 489.8757019 5.440147877 451.9460168 47.04584122
26 04 2018 12:10 661.5886841 6.152470112 676.643004 48.54138184
26 04 2018 12:20
                 434.5653992 5.315470219 417.4495082 43.07801819
26 04 2018 12:30
                 528.4083862 5.718660831 534.1567768 30.73726082
26 04 2018 12:40 551.388916 5.824502945 567.3752278 35.66120911
26 04 2018 12:50
                 555.0258179 5.94224596 605.678136 40.06652069
                 744.2349243 6.46261692 791.4454597 54.86766052
26 04 2018 13:00
                 538.1901245 5.828928947 568.7890455 51.04478836
26 04 2018 13:10
26 04 2018 13:20
                 698.9492798 6.285214901 724.506816 47.29589844
26 04 2018 13:30
                 791.0159302 6.577810764 836.7651753 48.46282959
26 04 2018 13:40
                 832.5053711 6.827441216 940.1641347 52.61532974
26 04 2018 13:50
                 519.3502808 5.688364029 524.853981 49.28604126
26 04 2018 14:00
                 448.4902954 5.558414936 485.9620294 50.86991882
26 04 2018 14:10
                 486.8345032 5.780084133 553.2969369 46.71477127
26 04 2018 14:20
                 544.6677856 5.946520805 607.0961532 46.27724838
26 04 2018 14:30
                 771.5239258 6.530059814 817.7993938 50.65942001
26 04 2018 14:40 621.1558228 6.211379051 697.6505037 53.63055038
26 04 2018 14:50 1022.549011 7.371489048 1192.397043 59.55570984
```

```
1060.985962 7.429728031 1221.813314 61.68199921
26 04 2018 15:00
                  1347.349976 8.037714005 1551.6674
26 04 2018 15:10
                                                       66.00108337
26 04 2018 15:20
                  1175.998047 7.640695095 1331.445108 68.70245361
26 04 2018 15:30
                  762.3336182 6.635323048 859.9493946 73.61692047
26 04 2018 15:40
                  302.8529968 4.739048004 274.3852817 80.21656799
26 04 2018 15:50
                  412.3461914 5.392232895 438.5263449 80.04754639
26 04 2018 16:00
                  196.9246063 4.074923992 137.0365805 91.24716187
                  76.42398071 3.545332909 57.24169157 103.3721008
26 04 2018 16:10
26 04 2018 16:20
                  599.9990845 5.973061085 615.943443 129.2095947
                  1544.30603 8.369135857 1747.935246 162.8383026
26 04 2018 16:30
26 04 2018 16:40
                  844.8079834 6.839354992 945.2820322 180.4904022
26 04 2018 16:50
                  134.0496979 4.330184937 186.8945985 166.8083954
26 04 2018 17:00
                  16.97380066 4.445141792 210.477475 144.8659058
26 04 2018 17:10
                  139.1000061 4.434969902 208.3604286 150.3253021
26 04 2018 17:20
                  30.77243996 3.305001974 33.20215951 117.2354965
26 04 2018 17:30
                  394.6083984 5.689557076 525.2186046 61.27725983
26 04 2018 17:40
                  733.0891113 6.791037083 924.6311118 69.35030365
26 04 2018 17:50
                  606.5979004 6.440080166 782.7511292 68.40132904
26 04 2018 18:00
                  435.8778076 5.747141838 542.9848719 69.02867889
                  44.53821945 4.384995937 198.0458978 76.2650528
26 04 2018 18:10
                  45.45077896 3.567244053 59.89307494 70.75343323
26 04 2018 18:20
                              3.960210085 120.4869953 74.69629669
26 04 2018 18:30
                  98.141922
26 04 2018 18:40
                  10.12465
                              2.904578924 0
                                                 95.8704071
26 04 2018 18:50
                  0
                        2.251264095 0
                                           93.3776474
26 04 2018 19:00
                  0
                        3.404266119 42.01100341 76.22155762
26 04 2018 19:10
                        3.964971066 121.3726067 72.45700073
26 04 2018 19:20
                        3.374614
                                     39.21449995 75.68347931
26 04 2018 19:30
                        3.401365995 41.73128483 84.1378479
                  0
26 04 2018 19:40
                  0
                        2.818682909 0
                                           81.41375732
26 04 2018 19:50
                  0
                        1.940857053 0
                                           71.32634735
26 04 2018 20:00
                  0
                        1.756875038 0
                                           45.79940033
                  0
26 04 2018 20:10
                        1.875504971 0
                                           42.35638046
26 04 2018 20:20
                                           27.21340942
                        0.846247017 0
                                           79.91031647
26 04 2018 20:30
                        1.201177955 0
                  0
26 04 2018 20:40
                  0
                        1.668849945 0
                                           51.79555893
26 04 2018 20:50
                  0
                        1.311926007 0
                                           53.39492035
26 04 2018 21:00
                  0
                        0.941769302 0
                                           352.5304871
                        1.602085948 0
                                           319.9971008
26 04 2018 21:10
                  0
26 04 2018 21:20
                        2.025841951 0
                                           309.471405
26 04 2018 21:30
                        2.174412012 0
                                           296.0231934
26 04 2018 21:40
                        2.156120062 0
                                           265.5598145
                  0
26 04 2018 21:50
                  0
                        1.812646031 0
                                           266.5378113
26 04 2018 22:00
                  0
                        2.257726908 0
                                           264.6178894
26 04 2018 22:10
                  0
                                           272.9533081
                        2.592878103 0
26 04 2018 22:20
                  0
                        2.544342041 0
                                           271.495697
26 04 2018 22:30
                        2.131738901 0
                                           278.8396912
26 04 2018 22:40
                  0
                        1.965266943 0
                                           280.3948975
26 04 2018 22:50
                  0
                        2.116763115 0
                                           282.293396
26 04 2018 23:00
                  0
                        2.212760925 0
                                           297.5822144
26 04 2018 23:10
                  0
                        2.426863909 0
                                           305.7991028
26 04 2018 23:20
                  0
                        2.144140959 0
                                           329.1178894
26 04 2018 23:30
                        2.600033045 0
                                           312.9862976
26 04 2018 23:40
                        2.641853094 0
                                           317.0963135
26 04 2018 23:50
                        2.769438028 0
                                           329.8908081
                  0
27 04 2018 00:00
                                           347.7358093
                  0
                        2.523972988 0
27 04 2018 00:10
                  0
                        2.80962801 0
                                           336.2102966
27 04 2018 00:20
                  0
                        3.688555956 75.96253494 334.3479919
                  22.62828064 3.893305063 108.4252769 319.305603
27 04 2018 00:30
27 04 2018 00:40 8.163746834 3.077574968 18.96382904 309.3760986
```

```
27 04 2018 00:50 0
                       3.054127932 17.96648045 327.4325867
27 04 2018 01:00 0
                       2.890965939 0
                                      329.5716858
27 04 2018 01:10 0
                       2.917114019 0
                                         303.3345032
27 04 2018 01:20 0
                       2.78094101 0
                                         309.3037109
27 04 2018 01:30 0
                       3.192394972 25.11790511 292.5737915
27 04 2018 01:40 11.3903904 3.732698917 82.39418164 287.072113
27 04 2018 01:50 26.18630028 3.513822079 53.5633568 298.9762878
                                         306.4117126
27 04 2018 02:00 0
                       2.793307066 0
27 04 2018 02:10
                 0
                       3.287022114 31.77524315 333.6810913
                       3.351138115 37.10025774 346.9472046
27 04 2018 02:20 0
27 04 2018 02:30 4.599402905 3.1105299 20.51430548 354.0188904
27 04 2018 02:40 0
                       2.735860109 0
                                         1.180659056
27 04 2018 02:50 0
                       3.195097923 25.28818952 25.02429008
27 04 2018 03:00 5.220064163 3.448693991 46.46431149 39.61434174
27 04 2018 03:10 64.50422668 4.005258083 123.9768563 40.18162155
27 04 2018 03:20 228.270401 4.996032238 335.0254505 50.09783173
27 04 2018 03:30 253.5812073 5.033814907 344.3504582 45.6867218
27 04 2018 03:40 172.5243988 4.625668049 249.0837435 43.20365906
27 04 2018 03:50 134.4331055 4.582164764 239.5966961 43.4094696
27 04 2018 04:00 258.5701904 5.356736183 428.7159826 37.26691055
27 04 2018 04:10 272.8663025 5.297275066 412.5285573 41.51583862
27 04 2018 04:20 433.2434082 5.798354149 559.0632376 48.62501144
27 04 2018 04:30 378.6362915 5.604961872 499.7070134 49.90653992
27 04 2018 04:40 295.1401978 5.27980423 407.8301456 52.91545105
27 04 2018 04:50 442.5162048 5.964643955 613.1294216 52.00907898
27 04 2018 05:00 531.0612793 6.216287136 699.4175521 54.96611023
27 04 2018 05:10 383.9460144 5.629446983 507.020018 57.4448204
27 04 2018 05:20 480.2398987 6.090627193 654.9885934 58.01208115
27 04 2018 05:30 510.6899109 6.256745815 714.0823245 60.76897812
27 04 2018 05:40 426.442688 5.858263016 578.2102573 59.82125092
27 04 2018 05:50 479.3800049 6.072811127 648.8260891 59.86112976
27 04 2018 06:00 508.0421143 6.146181107 674.4222245 57.39595032
27 04 2018 06:10 580.378418 6.439770222 782.6319471 55.93822098
27 04 2018 06:20 636.1715698 6.586017132 840.0503977 56.64746094
27 04 2018 06:30 656.72229
                            6.577616215 836.6873842 55.3108902
27 04 2018 06:40 637.2202148 6.455761909 788.7949843 59.40871048
                 742.1547241 6.911647797 976.706654 65.12566376
27 04 2018 06:50
27 04 2018 07:00 799.107605 6.842729092 946.7345781 65.50496674
27 04 2018 07:10 677.9661255 6.581445217 838.2192041 65.06278992
27 04 2018 07:20 574.7108765 6.190207958 690.0579084 63.18400955
27 04 2018 07:30 481.0244141 5.875522137 583.794913 61.4716301
27 04 2018 07:40 573.2202148 6.218704224 700.2887211 65.94242096
27 04 2018 07:50 347.4685974 5.368103027 431.8454238 68.17682648
27 04 2018 08:00 319.4241943 5.166478157 377.9755563 66.62272644
27 04 2018 08:10 472.8482971 5.926464081 600.4598795 70.73197174
27 04 2018 08:20 556.2283936 6.11991787 665.1938266 70.48486328
27 04 2018 08:30 659.6948853 6.58060503 837.8829397 68.94513702
27 04 2018 08:40 656.5134888 6.506504059 808.5373881 67.2408371
27 04 2018 08:50 507.949585 5.962296009 612.3458058 63.67367172
27 04 2018 09:00
                 158.0014038 4.341733932 189.2304335 62.20378113
27 04 2018 09:10
                 166.901001 4.201377869 161.3247471 57.50209045
27 04 2018 09:20
                 285.9361877 4.896994114 311.091841 66.68760681
27 04 2018 09:30 490.6368103 5.857263088 577.8876498 66.82274628
27 04 2018 09:40 379.1054077 5.443986893 453.0301226 56.5104599
27 04 2018 09:50 416.1021118 5.472982883 461.2614177 49.02285004
27 04 2018 10:00 352.2590027 5.214309216 390.4460747 47.98521042
27 04 2018 10:10 344.2409973 5.163553238 377.2190436 50.22890091
27 04 2018 10:20 323.7571106 5.04707098 347.6481308 46.40060043
27 04 2018 10:30 313.5791016 5.036677837 345.0615112 46.79484177
```

```
27 04 2018 10:40 593.465271 5.993382931 622.7687825 51.68278122
27 04 2018 10:50 672.9265747 6.260017872 715.276012 47.13592148
                 394.6290894 5.285152912 409.2657985 46.28450012
27 04 2018 11:00
27 04 2018 11:10 415.4728088 5.358613014 429.231919 33.81238937
27 04 2018 11:20
                 580.8806763 6.036976814 636.5338532 26.48521996
27 04 2018 11:30
                 730.1243896 6.340528965 745.0111486 32.26628113
27 04 2018 11:40
                 682.1212769 6.222837925 701.780046 31.00362968
27 04 2018 11:50
                 966.2484131 7.104310989 1063.645276 31.55879974
27 04 2018 12:00
                 890.2913818 6.813570023 934.2268524 36.39612961
                 966.010498 6.964879036 1000.256648 33.11418915
27 04 2018 12:10
27 04 2018 12:20
                 920.8928223 6.969313145 1002.234295 30.62870979
27 04 2018 12:30 932.2642212 6.973396778 1004.057814 38.11531067
27 04 2018 12:40 925.9844971 6.926241875 983.1281881 34.32752991
27 04 2018 12:50 979.6672974 7.003920078 1017.754451 37.86476135
27 04 2018 13:00 1090.946045 7.310114861 1161.935341 35.49977875
27 04 2018 13:10 1237.483032 7.679680824 1352.248689 35.8639183
27 04 2018 13:20
                 1175.546997 7.645235062 1333.85787 36.0305481
27 04 2018 13:30
                 1024.516968 7.241076946 1128.312868 36.77365875
27 04 2018 13:40 1020.405029 7.117259979 1069.66027 37.49015045
27 04 2018 13:50
                 1180.574951 7.632007122 1326.835195 37.88164902
                 1005.763977 7.07685709 1050.965538 40.45523834
27 04 2018 14:00
                 1279.343994 7.732316017 1380.635401 40.65867996
27 04 2018 14:10
27 04 2018 14:20
                 1206.439941 7.59708786 1308.404273 44.97848129
27 04 2018 14:30
                 672.246582 6.401765823 768.0980528 46.7310791
                 769.9661255 6.561585903 830.2922664 45.33850098
27 04 2018 14:40
27 04 2018 14:50
                 952.0858765 6.918960094 979.9208445 39.50133896
27 04 2018 15:00 1462.104004 8.164173126 1625.366474 45.1578598
27 04 2018 15:10 2103.489014 9.500650406 2440.41468 48.25606155
27 04 2018 15:20 2138.711914 9.519913673 2455.58799 50.22027969
27 04 2018 15:30 2183.031006 9.798266411 2660.153705 53.78083038
27 04 2018 15:40 2161.210938 9.736645699 2617.178355 51.91312027
27 04 2018 15:50
                 2241.666016 10.14953041 2881.625599 55.29465866
27 04 2018 16:00
                 2427.86792 10.54905987 3088.859429 57.38927841
27 04 2018 16:10 2291.525879 10.04566956 2820.172692 58.15000916
27 04 2018 16:20 2268.070068 10.00687981 2796.372257 55.34140015
27 04 2018 16:30
                 2614.464111 10.93894005 3250.454957 59.90644073
                 2887.22998 11.74273968 3476.151784 64.99830627
27 04 2018 16:40
27 04 2018 16:50
                 2881.676025 11.41145992 3399.163389 59.68321991
27 04 2018 17:00 2661.376953 10.833333015 3210.366309 56.36988831
27 04 2018 17:10 2537.719971 10.67368984 3144.640689 59.23040009
27 04 2018 17:20 2407.073975 10.46313953 3048.030458 60.68967819
27 04 2018 17:30 2489.899902 10.86120987 3221.206489 62.8478508
27 04 2018 17:40 2717.804932 11.23766994 3350.056715 64.24622345
27 04 2018 17:50
                 3096.3479
                             11.66180992 3459.27482 61.47779846
27 04 2018 18:00
                 2975.61792 11.65324974 3457.418357 64.79223633
                 3198.524902 11.95919037 3515.461033 62.96630096
27 04 2018 18:10
27 04 2018 18:20
                 3383.249023 12.49446011 3578.715534 65.07592773
                 3142.905029 12.3052597 3561.6368
27 04 2018 18:30
                                                     68.2064209
27 04 2018 18:40
                 3286.656006 13.02266979 3600 70.08376312
27 04 2018 18:50
                 3370.498047 12.56700993 3583.799242 68.46430206
27 04 2018 19:00
                 2751.780029 11.12535
                                         3314.926753 65.62521362
27 04 2018 19:10
                 2890.205078 11.42210007 3401.968845 67.37568665
27 04 2018 19:20
                 3369.941895 12.68824005 3590.525402 74.47545624
27 04 2018 19:30
                 3397.254883 12.74927998 3593.086801 73.00311279
27 04 2018 19:40
                 3425.666992 12.75016975 3593.120092 72.10751343
27 04 2018 19:50 3453.548096 12.75368977 3593.250659 71.81022644
27 04 2018 20:00 3496.856934 13.04125023 3600 72.07050323
27 04 2018 20:10 3421.206055 12.93445015 3597.540045 71.37624359
27 04 2018 20:20 3487.5271 12.96881008 3597.824777 67.94817352
```

```
27 04 2018 20:30 3208.730957 11.99781036 3521.609101 66.5774231
27 04 2018 20:40 2998.471924 11.7263298 3472.82762 70.58789825
27 04 2018 20:50
                 3410.812988 12.92442036 3597.425207 71.13472748
27 04 2018 21:00 3569.618896 13.0152998 3600 67.58943176
27 04 2018 21:10 3581.677979 13.1630497 3600 67.92305756
27 04 2018 21:20 3557.635986 12.94291019 3597.625753 68.13553619
27 04 2018 21:30
                 3599.924072 13.26373959 3600 69.7640686
                 3575.666992 13.67502022 3600
27 04 2018 21:40
                                              71.9265213
27 04 2018 21:50
                 3595.544922 13.54384041 3600 69.88369751
                 3569.719971 13.33092022 3600 69.81791687
27 04 2018 22:00
27 04 2018 22:10
                 3436.090088 12.71551991 3591.737888 68.88600922
27 04 2018 22:20 3273.204102 12.40695
                                         3571.510208 71.3899765
27 04 2018 22:30 3392.553955 12.75319958 3593.232585 70.8568573
27 04 2018 22:40 3441.374023 12.88167953 3596.774541 70.18689728
27 04 2018 22:50 3559.544922 12.86553955 3596.460669 67.35812378
27 04 2018 23:00 3460.511963 12.76342964 3593.602492 69.43695068
27 04 2018 23:10 3530.389893 12.90421963 3597.150285 67.34851837
27 04 2018 23:20 3313.217041 12.25339985 3555.969844 64.5525589
27 04 2018 23:30 3270.936035 12.03721046 3527.618064 64.57887268
27 04 2018 23:40 3424.156006 12.84125996 3595.917856 65.49150085
27 04 2018 23:50 3446.356934 12.97994041 3597.881015 66.93419647
28 04 2018 00:00 3401.623047 12.44093037 3574.448594 64.46508789
28 04 2018 00:10 2982.028076 11.7055397 3468.544908 67.80335236
28 04 2018 00:20 2978.068115 11.91530037 3508.16059 72.03955841
28 04 2018 00:30 3080.956055 12.48336029 3577.866954 73.59996033
28 04 2018 00:40 2936.950928 11.77437019 3482.420124 72.32563019
28 04 2018 00:50 2715.018066 11.18700027 3334.546224 72.77127838
28 04 2018 01:00 2630.090088 10.94944954 3254.300726 73.69547272
28 04 2018 01:10 2515.487061 10.81173038 3201.839319 74.39595795
28 04 2018 01:20 2668.931885 11.10340977 3307.743767 74.39260101
28 04 2018 01:30 2782.975098 11.5534296 3434.744615 74.48616028
28 04 2018 01:40 2854.86499 11.4968996 3421.052886 74.28058624
28 04 2018 01:50 2793.833008 11.42343998 3402.320522 74.96032715
28 04 2018 02:00 3084.028076 12.13325024 3541.167173 74.09895325
28 04 2018 02:10 3291.896973 12.38589001 3569.598864 72.95185089
                 3324.237061 12.58411026 3584.881347 71.64492035
28 04 2018 02:20
                 3107.093994 11.7781601 3483.158954 72.12658691
28 04 2018 02:30
28 04 2018 02:40 3174.903076 12.24367046 3554.85856 70.22505188
28 04 2018 02:50 3234.570068 12.14019012 3542.086612 72.21305847
28 04 2018 03:00 3219.531006 12.14986992 3543.355749 72.45131683
28 04 2018 03:10 3134.218018 12.07083035 3532.537175 74.8315506
28 04 2018 03:20 2967.594971 11.56626987 3437.768069 72.95007324
28 04 2018 03:30 2702.634033 10.90452003 3237.678985 71.75972748
28 04 2018 03:40 3163.412109 12.3107996 3562.216765 75.36978149
28 04 2018 03:50 3283.38501 12.41804981 3572.489767 74.7592392
28 04 2018 04:00 3168.740967 12.55875969 3583.261386 77.94377899
                 3027.836914 12.13191986 3540.990006 76.41007996
28 04 2018 04:10
                 2842.981934 11.7297802 3473.530679 76.60462952
28 04 2018 04:20
28 04 2018 04:30 2947.498047 11.66602039 3460.18291 74.26271057
28 04 2018 04:40
                 2953.680908 11.58790016 3442.789508 73.34174347
28 04 2018 04:50
                 3106.26709 11.92078972 3509.092026 73.11784363
                 3061.020996 11.93725014 3511.853502 68.47648621
28 04 2018 05:00
28 04 2018 05:10
                 3255.650879 12.60552025 3586.174125 69.84507751
28 04 2018 05:20 3452.172119 13.02118015 3600 70.93657684
28 04 2018 05:30
                 3395.7771
                             12.81976986 3595.366392 69.81111908
28 04 2018 05:40 3423.870117 13.00553989 3600 72.06355286
28 04 2018 05:50 3170.806885 12.07619953 3533.305124 70.90663147
28 04 2018 06:00 3213.297119 12.10634041 3537.526423 68.8576889
28 04 2018 06:10 3259.947998 12.26640987 3557.432018 70.89367676
```

```
12.49752998 3578.946895 73.0823288
28 04 2018 06:20 3294.8479
                 3547,462891 13,36384964 3600 72,48233032
28 04 2018 06:30
28 04 2018 06:40
                 3426.330078 12.66621971 3589.466458 72.19783783
28 04 2018 06:50 3230.2229
                            12.07549
                                         3533,203918 72,19629669
28 04 2018 07:00 2940.248047 11.55735016 3435.67115 73.40991211
28 04 2018 07:10 2779.434082 11.26867962 3359.279553 72.24434662
28 04 2018 07:20 2533.808105 10.50831032 3069.741129 73.26392365
                 2856.116943 11.20569038 3340.331464 74.38131714
28 04 2018 07:30
28 04 2018 07:40 2786.004883 11.19371986 3336.634824 74.08817291
28 04 2018 07:50
                 2675.129883 10.89062977 3232.444387 75.31906128
28 04 2018 08:00 2921.88501 11.5858202 3442.31055 75.73567963
28 04 2018 08:10 2889.448975 11.12195015 3313.820627 72.79966736
28 04 2018 08:20 2980.634033 11.29477024 3366.882562 70.63131714
28 04 2018 08:30 2799.164063 10.96494961 3259.925939 71.82601166
28 04 2018 08:40 2706.590088 10.76035976 3181.103851 71.61839294
28 04 2018 08:50 2643.9729 10.33425999 2983.023031 69.33997345
28 04 2018 09:00 3152.346924 11.73806
                                         3475.208858 72.39727783
28 04 2018 09:10 2955.931885 11.24468994 3352.162406 71.59461975
28 04 2018 09:20 2800.028076 10.83848
                                         3212.382711 70.75659943
28 04 2018 09:30 2738.885986 10.86023045 3220.828823 70.01737976
28 04 2018 09:40
                 2621.350098 10.36065006 2996.709483 66.88905334
                 2725.221924 10.8334198 3210.401464 64.86151886
28 04 2018 09:50
28 04 2018 10:00
                 2721.937012 10.85846996 3220.149406 66.06569672
28 04 2018 10:10
                 2813.958008 10.96259975 3259.076718 63.37720871
28 04 2018 10:20 2985.386963 11.42940998 3403.88304 64.71708679
28 04 2018 10:30 3205.887939 11.86011028 3498.501592 61.25651932
28 04 2018 10:40 2996.134033 11.43618011 3405.646329 60.43318176
28 04 2018 10:50 2959.656982 11.34663963 3381.576702 60.18769073
28 04 2018 11:00 1833.911987 8.77654171 2001.053625 56.67071152
28 04 2018 11:10 1362.156982 7.639719963 1330.927216 58.43613052
28 04 2018 11:20 1693.18396 8.648358345 1920.23793 61.10456085
28 04 2018 11:30 1551.532959 8.286269188 1697.942874 59.87123108
28 04 2018 11:40
                 1054.739014 7.056410789 1041.586272 58.11510849
28 04 2018 11:50
                 1060.483032 7.093300819 1058.548287 60.63209152
                 1361.786011 7.742019176 1385.905329 58.97203827
28 04 2018 12:00
                 206.3724976 6.24080801 708.284472 36.13412094
28 04 2018 12:10
28 04 2018 12:20
                 0
                       7.496553898 1256.195878 25.96383095
28 04 2018 12:30
                 0
                       6.678546906 877.6219586 25.56994057
28 04 2018 12:40 0
                       6.768185139 914.9611562 59.41004944
28 04 2018 12:50 0
                       7.33093214 1172.206492 50.53261948
28 04 2018 13:00 0
                       6.695722103 884.7039312 45.6536293
                       6.318160057 736.6793931 52.49137878
28 04 2018 13:10 0
28 04 2018 13:20 718.0424194 6.319611073 737.2182105 49.96371078
28 04 2018 13:30
                 751.2034912 6.485226154 800.2240393 57.18320847
28 04 2018 13:40 839.3607788 6.752682209 908.4361202 62.77146149
28 04 2018 13:50
                 996.9647827 7.183181763 1100.62865 64.15041351
28 04 2018 14:00
                 1063.274048 7.296403885 1155.20428 59.82886887
                 883.2780762 6.760653019 911.787421 58.74296951
28 04 2018 14:10
28 04 2018 14:20 539.0526123 5.633320808 508.1822882 56.58068085
                 618.536377 5.921730995 598.9000262 56.16641998
28 04 2018 14:30
28 04 2018 14:40
                 964.7453003 6.850411892 950.0471425 56.24967957
28 04 2018 14:50
                 1231.090942 7.353905201 1183.613848 58.55274963
28 04 2018 15:00
                 2837.853027 10.81344032 3202.518467 58.24596024
28 04 2018 15:10
                 2593.208008 10.44884968 3041.047618 59.6824913
28 04 2018 15:20
                 2850.162109 11.33267975 3377.676734 65.49286652
28 04 2018 15:30 3036.762939 11.88607025 3503.111821 63.16564941
28 04 2018 15:40 3009.226074 11.77400017 3482.347848 66.11187744
28 04 2018 15:50 3333.895996 12.56266022 3583.516954 68.97251129
28 04 2018 16:00 3297.996094 12.33565044 3564.758402 67.55349731
```

```
28 04 2018 16:10 2999.634033 11.54189968 3432.002536 65.86086273
                 2934.655029 11.11046982 3310.06674 61.95080948
28 04 2018 16:20
28 04 2018 16:30 2798.737061 11.04141998 3286.870877 62.46805954
28 04 2018 16:40 3112.148926 11.54314995 3432.301123 61.97718811
28 04 2018 16:50 3264.38208 12.06719017 3532.013768 65.79255676
28 04 2018 17:00 3216.10498 12.13173962 3540.96598 69.07552338
                 3336.156982 12.51354027 3580.130156 71.62037659
28 04 2018 17:10
                 3355.431885 12.44499016 3574.787684 73.21193695
28 04 2018 17:20
28 04 2018 17:30
                 3584.433105 13.83502007 3600 73.57962799
28 04 2018 17:40
                 3604.291016 15.1235199 3600 75.63287354
28 04 2018 17:50
                 3602.753906 15.71222019 3600 76.26381683
28 04 2018 18:00
                 3603.927002 15.94433022 3600 76.1151886
28 04 2018 18:10
                 3603.909912 15.58870983 3600 75.70944977
28 04 2018 18:20 3604.150879 15.53287029 3600 74.81551361
28 04 2018 18:30 3596.474121 15.38239002 3600 75.61937714
28 04 2018 18:40 3603.873047 15.99913025 3600
                                              76.95715332
28 04 2018 18:50
                 3589.398926 15.6865797 3600 77.66088104
28 04 2018 19:00
                 3511.399902 13.76772022 3600 75.55584717
                 3504.11499 13.44097996 3600 76.35095978
28 04 2018 19:10
                 3579.285889 14.35515022 3600 76.09850311
28 04 2018 19:20
                 3568.36499 14.27385998 3600
                                              76.88594818
28 04 2018 19:30
28 04 2018 19:40
                 3597.053955 14.81336975 3600
                                              75.92495728
28 04 2018 19:50
                 3545.011963 14.53806019 3600
                                              77.02223206
28 04 2018 20:00
                 3571.302002 14.56085014 3600
                                              76.84336853
28 04 2018 20:10
                 3531.458984 14.53219032 3600 79.07512665
28 04 2018 20:20 3574.772949 14.96259022 3600 78.32901001
28 04 2018 20:30 3584.947021 14.57656956 3600 76.03315735
28 04 2018 20:40 3595.790039 14.72255039 3600 73.90593719
28 04 2018 20:50 3588.361084 14.47875023 3600
                                              75.17241669
28 04 2018 21:00 3596.769043 14.38115978 3600 73.95529175
28 04 2018 21:10 3593.983887 14.36240005 3600 74.13078308
28 04 2018 21:20 3596.708008 14.49343967 3600 75.43097687
28 04 2018 21:30
                 3541.916992 13.82316971 3600 73.19930267
28 04 2018 21:40 3597.416992 13.92800999 3600 74.09031677
28 04 2018 21:50 3599.709961 13.84531021 3600 72.74375153
28 04 2018 22:00 3493.906982 13.35007954 3600 72.99862671
28 04 2018 22:10 3418.586914 12.72984028 3592.330505 73.42299652
28 04 2018 22:20 2992.070068 11.69929028 3467.241912 73.52651978
28 04 2018 22:30 3400.729004 12.58504009 3584.938924 71.93562317
28 04 2018 22:40 3246.468994 12.0550499 3530.252023 71.34681702
28 04 2018 22:50 3007.802979 11.61752033 3449.520555 73.22718048
28 04 2018 23:00 3297.226074 12.2207098 3552.17536 71.52568817
28 04 2018 23:10 3429.903076 12.70674992 3591.360064 72.0549469
28 04 2018 23:20 3305.364014 12.35990047 3567.144415 73.08384705
28 04 2018 23:30 3431.086914 12.68795967 3590.512369 71.61863708
28 04 2018 23:40 3367.39502 12.57833004 3584.520508 72.29992676
                 3271.219971 12.30924988 3562.055018 72.3691864
28 04 2018 23:50
                 3004.611084 11.71259975 3470.008216 73.17292023
29 04 2018 00:00
29 04 2018 00:10 3019.051025 11.81429005 3490.071845 73.26579285
29 04 2018 00:20
                 2879.281982 11.5907402 3443.442154 73.84838104
29 04 2018 00:30
                 2825.665039 11.23233986 3348.450934 74.65984344
29 04 2018 00:40
                 2597.73291 11.03124046 3283.36085 75.0434494
29 04 2018 00:50
                 2676.384033 11.23231983 3348.444889 75.13947296
29 04 2018 01:00
                 2295.98999 10.42819977 3030.858726 76.55487061
29 04 2018 01:10
                 2272.906006 10.28771019 2958.401528 76.47033691
29 04 2018 01:20 2293.858887 10.52583981 3078.019341 77.38023376
29 04 2018 01:30 2285.23999 10.6106596 3116.931352 76.4313736
29 04 2018 01:40 1544.448975 8.70565033 1956.239875 77.130867
29 04 2018 01:50 1719.447021 9.796842575 2659.175105 78.03531647
```

```
29 04 2018 02:00 1585.743042 9.616533279 2529.671165 80.2976532
29 04 2018 02:10 841.8555908 6.420415878 775.2105558 82.44127655
29 04 2018 02:20
                 665,6890259 5,658355236 515,7283256 83,53523254
29 04 2018 02:30 412.853302 4.833053112 296.0206052 85.99098206
                 175.3889008 3.803533077 93.36629097 96.07272339
29 04 2018 02:40
                 246.8979034 4.255072117 171.8780924 88.78088379
29 04 2018 02:50
                 113.9600983 3.680582047 74.83397925 98.17962646
29 04 2018 03:00
                 124.4414978 3.696098089 77.03934284 99.69235992
29 04 2018 03:10
29 04 2018 03:20
                 125.4035034 3.733022928 82.44254277 98.97434998
29 04 2018 03:30
                 137.0596008 3.781389952 89.85009898 99.29945374
29 04 2018 03:40
                 202.2019958 4.327879906 186.4292687 96.0043335
29 04 2018 03:50
                 205.782196 4.096623898 141.1499799 95.96777344
29 04 2018 04:00 229.4073029 4.232080936 167.3411648 102.021698
29 04 2018 04:10 239.6295929 4.263879776 173.6234211 103.4272003
29 04 2018 04:20 272.9796143 4.672698975 259.4764677 105.6464996
29 04 2018 04:30 346.4332886 5.194038868 385.1382451 105.5786972
29 04 2018 04:40 489.0527039 5.133344173 369.4461617 100.5803986
29 04 2018 04:50
                 770.1763916 6.006523132 626.1952209 100.767601
29 04 2018 05:00 610.3596191 5.869626045 581.8835967 103.8965988
                 266.0456848 4.635709763 251.290722 107.7375031
29 04 2018 05:10
29 04 2018 05:20
                 185.254303 4.138782978 149.2052732 109.2303009
                 269.4023132 4.666557789 258.1112545 106.3472977
29 04 2018 05:30
29 04 2018 05:40
                 262.5681152 4.586894989 240.6224568 117.3914032
29 04 2018 05:50
                 888.4882202 6.708618164 890.0439095 116.6792984
29 04 2018 06:00
                 721.3278198 6.128569126 668.2255689 116.8779984
29 04 2018 06:10 413.1160889 5.423008919 447.1222889 116.6315994
29 04 2018 06:20 468.1914063 5.851168156 575.9234716 120.357399
29 04 2018 06:30 354.7255859 5.445916176 453.5754378 123.3979034
                 297.9870911 5.184177876 382.5683552 122.0921021
29 04 2018 06:40
                 103.4632034 3.911483049 111.6315655 127.1118011
29 04 2018 06:50
                 149.5915985 4.29559803 179.9425848 126.9113998
29 04 2018 07:00
29 04 2018 07:10
                 27.40130997 2.874155045 0
                                               144.4835968
29 04 2018 07:20
                        2.884533882 0
                                         144.6286926
29 04 2018 07:30
                       2.804678917 0
                                         154,4302063
                 0
29 04 2018 07:40
                                         170.8538971
                 0
                       1.436787009 0
29 04 2018 07:50
                 0
                        1.943433046 0
                                         175.0503998
29 04 2018 08:00 0
                       1.29240799 0
                                          266.8100891
                                         290.5332947
29 04 2018 08:10 0
                       0.888464093 0
29 04 2018 08:20
                       0.997363389 0
                                         153.8049011
29 04 2018 08:30 0
                        2,426074982 0
                                         162,4687958
29 04 2018 08:40 0
                        2.247867107 0
                                         155.8408051
29 04 2018 08:50
                                         147.1544952
                 0
                        2.696815968 0
29 04 2018 09:00
                 0
                        2.322312117 0
                                         159.5431061
29 04 2018 09:10
                 0
                                         183.1434937
                       1.260751963 0
29 04 2018 09:20
                 0
                       0.742822826 0
                                         189.3014069
29 04 2018 09:30
                 0
                       0.742009223 0
                                         148.341095
29 04 2018 09:40
                 0
                       1.85640204 0
                                         135.7801971
29 04 2018 09:50
                 0
                        3.125417948 21.27174726 124.4671021
                        3.627809048 67.62142556 131.1876068
29 04 2018 10:00
                 0
29 04 2018 10:10
                 9.708444595 3.289407015 31.96153809 136.1345062
29 04 2018 10:20
                 2.567270994 2.980565071 0
                                                139.8710022
29 04 2018 10:30
                 0
                        2.720971107 0
                                         145.0247955
29 04 2018 10:40
                        2.688182116 0
                                         147.2317047
29 04 2018 10:50
                        2.831262112 0
                                         122.2725983
                 0
29 04 2018 11:00
                        2.828362942 0
                 0
                                         115.6966019
29 04 2018 11:10
                 0
                       3.082075119 19.16530982 106.9035034
29 04 2018 11:20
                 0
                       2.79578495 0
                                         109.7069016
29 04 2018 11:30 0
                       3.020697117 16.69657739 105.5983963
                       3.171746016 23.85560801 95.13378143
29 04 2018 11:40 0
```

```
3.09175992 19.60990808 100.2580032
29 04 2018 11:50 0
                       3.119364977 20.95951908 97.42569733
29 04 2018 12:00 0
29 04 2018 12:10 0
                       2.826939106 0
                                         93.22418213
29 04 2018 12:20 0
                       2.524614096 0
                                         95.12140656
29 04 2018 12:30 0
                       3.662503958 72.31304617 72.29815674
29 04 2018 12:40 285.545105 5.303359032 414.1708297 71.48658752
29 04 2018 12:50 448.9544067 6.005421162 625.8229754 71.13858032
                 556.3989868 6.33105278 741.474935 72.84781647
29 04 2018 13:00
                 645.557312 6.493405819 803.4139207 72.96534729
29 04 2018 13:10
29 04 2018 13:20
                 686.0551758 6.560410023 829.8242992 73.95378876
29 04 2018 13:30
                 790.8071289 6.941479206 989.8609187 74.39546967
29 04 2018 13:40 986.0258789 7.497521877 1256.698943 74.43560791
29 04 2018 13:50
                 1130.630981 7.932831764 1491.76996 75.49878693
29 04 2018 14:00 1232.442993 8.240187645 1670.394715 75.65492249
29 04 2018 14:10 1259.322021 7.936182976 1493.66578 73.77327728
29 04 2018 14:20 1373.436035 8.156496048 1620.848419 73.23368073
29 04 2018 14:30
                 1466.706055 8.420061111 1778.933923 73.16178894
29 04 2018 14:40 1413.261963 8.365123749 1745.501787 72.35254669
29 04 2018 14:50 1479.196045 8.565229416 1868.368242 73.18018341
29 04 2018 15:00
                 1529.515991 8.68564415 1943.645549 72.86255646
29 04 2018 15:10
                 1580.63501 8.739808083 1977.797076 72.43875122
29 04 2018 15:20 1799.437988 9.186640739 2264.938444 70.31926727
29 04 2018 15:30
                 1881.801025 9.331485748 2359.496368 71.12767029
29 04 2018 15:40
                 1864.741943 9.341376305 2365.969715 72.11860657
29 04 2018 15:50 1837.688965 9.159255028 2247.120724 72.76959229
29 04 2018 16:00 1882.146973 9.50904274 2447.041822 73.02246094
29 04 2018 16:10 1972.238037 9.90307045 2730.346162 76.97280121
29 04 2018 16:20 2098.566895 10.09597969 2850.350002 75.71914673
29 04 2018 16:30 2292.364014 10.18745041 2903.252818 72.61903381
29 04 2018 16:40 2434.306885 10.53532982 3082.466902 74.31101227
29 04 2018 16:50 2605.460938 10.9795599 3265.177414 74.56993103
29 04 2018 17:00 2520.846924 10.82495975 3207.07528 72.44831848
29 04 2018 17:10 2463.345947 10.68239021 3148.386076 71.92101288
29 04 2018 17:20 2478.672119 10.78781033 3192.264337 74.9677124
29 04 2018 17:30 2468.587891 10.98188972 3266.010294 75.96453857
                 2390.355957 10.91580009 3241.896484 75.47567749
29 04 2018 17:40
                 2074.947998 10.46350002 3048.205897 74.8705368
29 04 2018 17:50
29 04 2018 18:00
                 2000.612061 10.0374403 2815.162472 73.420578
29 04 2018 18:10 1876.155029 9.571702957 2495.713753 72.41335297
29 04 2018 18:20 1870.39502 9.753232002 2628.872057 74.38564301
29 04 2018 18:30 1824.546997 9.73935318 2619.093572 76.92375946
29 04 2018 18:40 2023.641968 9.971493721 2774.24984 77.8732605
29 04 2018 18:50 1943.470947 10.12576962 2867.855115 78.97982788
29 04 2018 19:00
                 1694.019043 9.426300049 2421.61876 78.07926178
29 04 2018 19:10
                 1560.25
                           9.111761093 2216.273943 76.77597809
29 04 2018 19:20
                 1771.078003 9.77326107 2642.868826 75.73243713
                 1703.485962 9.63410759 2542.788757 75.56533813
29 04 2018 19:30
                 1682.001953 9.640428543 2547.480187 77.37535858
29 04 2018 19:40
29 04 2018 19:50 1557.23999 9.040388107 2170.059493 76.52607727
29 04 2018 20:00
                 1609.604004 9.258838654 2312.00935 76.06358337
29 04 2018 20:10
                 1558.17395 9.021386147 2157.786775 76.80198669
29 04 2018 20:20
                 1689.887939 9.188014984 2265.833122 76.3868866
29 04 2018 20:30
                 1490.57605 8.93568325 2102.613924 76.95942688
29 04 2018 20:40 1485.119995 8.817166328 2026.85881 75.54064178
29 04 2018 20:50 1353.621948 8.439257622 1790.671377 76.57765961
29 04 2018 21:00 1389.168945 8.463272095 1805.394032 76.15258026
29 04 2018 21:10 1251.698975 8.284031868 1696.601122 76.16996002
29 04 2018 21:20 1216.328979 8.128123283 1604.198988 76.1680603
29 04 2018 21:30 958.3331299 7.438722134 1226.401337 77.39405823
```

```
29 04 2018 21:40 739.3469849 6.684730053 880.1675731 77.82524109
29 04 2018 21:50
                 623.7161255 6.134888172 670.445068 80.25995636
29 04 2018 22:00
                 761.9951782 6.828967094 940.8186656 77.16861725
29 04 2018 22:10 463.8266907 5.257487774 401.8663009 83.63152313
29 04 2018 22:20
                 242.1703949 4.368463993 194.6648936 87.35069275
29 04 2018 22:30
                 199.5187073 4.107102871 143.1442769 89.1657486
29 04 2018 22:40
                 167.4944
                             3.924957991 114.0424385 91.08984375
                 114.6528015 3.981883049 124.5478033 99.7371521
29 04 2018 22:50
29 04 2018 23:00
                 94.41143799 3.590078115 62.73787428 99.94348145
29 04 2018 23:10
                  86.32518005 3.635520935 68.64761863 93.10122681
29 04 2018 23:20
                 19.35910034 2.864341021 0
                                                95.24636841
29 04 2018 23:30
                 0
                       2.434062004 0
                                         104.9128036
29 04 2018 23:40
                        2.137530088 0
                                          96.71015167
29 04 2018 23:50
                 0
                        2.064213991 0
                                          95.38720703
30 04 2018 00:00 0
                        1.843829989 0
                                          90.14958191
30 04 2018 00:10 0
                       2.13736701 0
                                         92.24598694
30 04 2018 00:20 0
                       1.871211052 0
                                         100.0707016
30 04 2018 00:30 0
                       2.022423983 0
                                         91.13791656
30 04 2018 00:40 0
                       2.477030039 0
                                         87.67598724
30 04 2018 00:50 0
                       2.46013689 0
                                         89.13387299
30 04 2018 01:00 0
                       2.480901957 0
                                         82.61412811
30 04 2018 01:10 0
                       2.272185087 0
                                         84.17051697
30 04 2018 01:20
                 0
                       2.157634974 0
                                         85.68739319
30 04 2018 01:30 0
                       2.313889027 0
                                         89.86593628
30 04 2018 01:40 0
                        3.031502962 17.08748972 87.43492126
30 04 2018 01:50
                        3.471366882 48.85867925 85.15267944
30 04 2018 02:00
                 11.65754032 3.828140974 97.365909
                                                      85.07523346
30 04 2018 02:10 13.20827961 3.610059977 65.29577325 83.41661072
                       3.115046978 20.74036787 95.35788727
30 04 2018 02:20 0
30 04 2018 02:30
                 17.1301403 4.072315216 136.5435427 80.81880188
30 04 2018 02:40 46.52909851 4.234494209 167.8161004 73.00816345
                 34.66888046 3.945647955 117.8007389 72.50740814
30 04 2018 02:50
30 04 2018 03:00
                 26.14137077 3.811470032 94.64573001 70.67373657
30 04 2018 03:10 43.76633835 3.965420961 121.4564814 69.09085846
                 37.63265991 3.933536053 115.5923186 69.67816162
30 04 2018 03:20
                  33.35177994 3.863617897 103.3026425 67.71839905
30 04 2018 03:30
                 12.27210999 3.667387009 72.98881782 66.82752228
30 04 2018 03:40
30 04 2018 03:50
                  4.685932159 3.379687071 39.68296801 70.63395691
30 04 2018 04:00
                        3.773402929 88.60106102 78.4624176
30 04 2018 04:10
                 58.15702057 4.16148901 153.579212 73.40733337
30 04 2018 04:20
                 5.432126045 3.366231918 38.44948683 77.83426666
30 04 2018 04:30
                       3.235321999 27.9604194 82.38427734
30 04 2018 04:40
                 4.299668789 3.788686991 91.00015725 85.81996155
30 04 2018 04:50
                 13.96078968 3.527261972 55.11279812 75.97506714
30 04 2018 05:00
                 13.63790035 3.561312914 59.16778823 77.59763336
30 04 2018 05:10
                       3.038724899 17.3591662 83.2219696
30 04 2018 05:20
                  0
                       3.490402937 50.93249723 90.05872345
30 04 2018 05:30
                       3.410104036 42.57815481 80.17138672
                  0
                       3.540158987 56.62682609 74.5738678
30 04 2018 05:40
                  0
30 04 2018 05:50
                  0
                       3.383728981 40.05916186 80.37303925
30 04 2018 06:00
                  0
                       3.670203924 73.38038957 87.32150269
30 04 2018 06:10
                       3.254301071 29.31115706 81.88730621
30 04 2018 06:20
                       2.591577053 0
                                          75.53764343
30 04 2018 06:30
                       3.138505936 21.96690148 82.99046326
                 0
30 04 2018 06:40
                        2.674762011 0
                 0
                                         79.14491272
30 04 2018 06:50
                 0
                       2.75327611 0
                                          73.88925934
30 04 2018 07:00
                 0
                        3.101216078 20.05849004 82.90219879
30 04 2018 07:10 0
                        3.649935007 70.5911613 87.48233795
30 04 2018 07:20 37.63093948 4.005080223 123.9437932 83.14347839
```

```
30 04 2018 07:30 28.28408051 3.915218115 112.2969155 76.24590302
30 04 2018 07:40
                 15.41858006 3.75682807 86.0415964 76.83379364
30 04 2018 07:50
                 17.2345295 3.613837957 65.78657767 73.68955231
30 04 2018 08:00 2.311798096 3.304533005 33.16428423 78.10488892
30 04 2018 08:10 0
                       3.391633034 40.80237173 80.35713959
30 04 2018 08:20
                 0
                       2.937434912 0
                                         76.82736206
30 04 2018 08:30 0
                       2.903815985 0
                                         81.93328094
30 04 2018 08:40
                 0
                       3.154788971 22.87001711 74.84430695
30 04 2018 08:50
                 0
                       3.848316908 100.7174671 77.09980011
                 147.718399 4.5854249
30 04 2018 09:00
                                         240.3035142 72.00965118
30 04 2018 09:10
                 147.453598 4.499784946 221.9541818 75.23428345
30 04 2018 09:20
                 147.4203033 4.356861115 192.3010644 75.68887329
30 04 2018 09:30
                 161.6643982 4.556344032 234.022022 68.9969635
30 04 2018 09:40
                 175.7955933 4.579755783 239.0748415 64.0296402
30 04 2018 09:50
                 146.487793 4.460039139 213.5889028 66.92037201
30 04 2018 10:00
                 227.9001007 4.888453007 309.0616381 69.27718353
30 04 2018 10:10
                 278.7514038 5.126813889 367.7755593 67.91757965
30 04 2018 10:20 236.4754944 4.864461899 303.3872048 70.85175323
30 04 2018 10:30 258.2988892 4.890932083 309.6503641 70.9412384
30 04 2018 10:40
                 324.5227966 5.299283981 413.0704824 67.53156281
                 283.2919922 5.098240852 360.5059287 65.54486084
30 04 2018 10:50
                 256.4639893 5.053922176 349.3578159 54.64762878
30 04 2018 11:00
30 04 2018 11:10
                 249.8491974 5.289806843 410.5169525 36.73920059
30 04 2018 11:20
                 233.0614014 5.046919823 347.6104512 37.26205063
30 04 2018 11:30
                 274.3785095 5.317718029 418.0594116 32.86959839
30 04 2018 11:40 371.4909973 6.019453049 630.5726467 29.16717911
30 04 2018 11:50 413.8252869 6.167683125 682.0325314 21.17767906
30 04 2018 12:00 446.9313049 6.241568089 708.5603533 23.59695053
30 04 2018 12:10 467.0694885 6.183176041 687.5466733 23.64138985
30 04 2018 12:20 493.2398071 6.350799084 748.8546275 24.01618004
30 04 2018 12:30
                 521.9345703 6.442092896 783.5253364 25.71750069
30 04 2018 12:40
                 498.4714966 6.088784218 654.3495432 28.97632027
30 04 2018 12:50
                 412.8375854 5.732513905 538.4406583 33.9541893
30 04 2018 13:00
                 466.6864929 6.000877857 624.2896203 31.14179039
                 406.2554016 5.65294981 514.093855 32.057621
30 04 2018 13:10
30 04 2018 13:20
                 446.0562134 5.946250916 607.0065701 31.0539093
30 04 2018 13:30
                 549.7835083 6.3522892 749.4132379 29.16581917
                 586.0117188 6.341053963 745.2073457 30.24171066
30 04 2018 13:40
30 04 2018 13:50
                 572.7077026 6.306016922 732.1791072 29.97513008
30 04 2018 14:00
                619.227478 6.475642204 796.4959423 29.79684067
30 04 2018 14:10 640.9998779 6.699820995 886.3991018 28.21611023
30 04 2018 14:20 780.309082 7.217644215 1117.052318 25.78334045
30 04 2018 14:30
                 704.4318848 6.575641155 835.8978934 25.52338028
30 04 2018 14:40
                 725.2039185 6.774226189 917.5114549 28.42663002
30 04 2018 14:50
                 482.6033936 5.910953999 595.357131 39.31703186
30 04 2018 15:00
                 0
                       6.523750782 815.3126522 38.60680008
30 04 2018 15:10
                       6.361433029 752.84633
                                               35.47262955
                 838.0037231 7.637065887 1329.518251 26.22867966
30 04 2018 15:20
                 991.1124878 7.821074009 1429.258773 28.92584991
30 04 2018 15:30
30 04 2018 15:40
                 1144.392944 8.079936028 1576.099704 25.67845917
30 04 2018 15:50
                 1300.652954 8.188419342 1639.671718 25.57519913
30 04 2018 16:00
                 1222.906006 8.116743088 1597.54256 26.44408035
30 04 2018 16:10
                 1085.686035 7.914338112 1481.329828 28.67827988
30 04 2018 16:20
                 1089.94104 7.982583046 1520.038534 26.16534042
30 04 2018 16:30
                 1004.995972 7.828951836 1433.619004 25.0078392
30 04 2018 16:40
                 920.5836182 7.441269875 1227.703194 24.56483078
30 04 2018 16:50 810.5316162 7.112658978 1067.520499 26.62022018
30 04 2018 17:00 766.9793701 7.10204792 1062.59632 26.11718941
30 04 2018 17:10 622.0164795 6.514282227 811.5888925 26.55798912
```

```
30 04 2018 17:20 504.3337097 6.283409119 723.8430016 23.81588936
30 04 2018 17:30 439.7243958 6.059154987 644.1254454 26.59487915
30 04 2018 17:40
                 346,2640991 5,519445896 474,6112924 27,56868935
30 04 2018 17:50 341.3340149 5.447604179 454.0528305 24.13849068
30 04 2018 18:00 301.6530151 5.401256084 441.0378482 20.25271988
30 04 2018 18:10 242.2854004 5.165633202 377.7569422 19.0417099
30 04 2018 18:20
                 208.7308044 4.851901054 300.4327637 21.42670059
                 143.8395996 4.605893135 244.7564359 16.20381927
30 04 2018 18:30
30 04 2018 18:40
                 117.300499 4.352668762 191.4488032 12.22721958
                 114.7432022 4.320510864 184.9435786 11.23937988
30 04 2018 18:50
30 04 2018 19:00
                 131.3166046 4.505436897 223.1513951 14.93218994
30 04 2018 19:10
                 86.79399109 4.110143185 143.7238648 8.795389175
30 04 2018 19:20
                 48.33491135 3.686146021 75.62038163 0.973858714
                 20.92416
30 04 2018 19:30
                             3.28214097 31.39679321 355.2970886
30 04 2018 19:40 0
                       2.445189953 0
                                         358.8884888
30 04 2018 19:50
                 0
                       2.670523882 0
                                         342.8427124
30 04 2018 20:00 0
                       2.626373053 0
                                         343.3254089
30 04 2018 20:10 0
                       2.509077072 0
                                         335.7506104
                       3.080513954 19.09504628 329.9784851
30 04 2018 20:20 0
30 04 2018 20:30 21.38909912 3.905949116 110.6498757 318.4783936
30 04 2018 20:40 59.08176041 4.068380833 135.8005717 318.5675049
                 85.64900208 4.352294922 191.3728526 317.9403076
30 04 2018 20:50
30 04 2018 21:00
                 164.9537964 4.681065083 261.340269 318.9736023
30 04 2018 21:10
                 114.7142029 4.439446926 209.2914785 314.7095947
30 04 2018 21:20 94.1684494 4.268813133 174.6027931 312.810791
30 04 2018 21:30 41.24972153 3.832468987 98.07937665 309.839386
30 04 2018 21:40
                 114.078598 4.338458061 188.5671319 304.9943848
30 04 2018 21:50 106.2630005 4.275881767 176.0082933 306.1525879
30 04 2018 22:00 128.3838043 4.362616062 193.4725717 311.4500122
30 04 2018 22:10
                 149.3746948 4.494194031 220.7717828 313.3660889
30 04 2018 22:20
                 147.2758942 4.430159092 207.3612579 311.6158142
30 04 2018 22:30
                 194.1894989 4.699170113 265.3894986 312.907196
30 04 2018 22:40
                 182.3551025 4.722123146 270.5542951 314.4880981
30 04 2018 22:50
                 141.2819061 4.484862804 218.802523 311.0870056
30 04 2018 23:00 147.4161072 4.493464947 220.6177298 304.1958008
30 04 2018 23:10
                 216.4694977 4.867664814 304.1423704 303.0461121
30 04 2018 23:20
                 266.7473145 5.156333923 375.3547843 302.6633911
30 04 2018 23:30
                 291.5863037 5.297725201 412.6499556 303.0495911
30 04 2018 23:40 390.4675903 5.733836174 538.8505492 304.9809875
30 04 2018 23:50 451.2202148 5.887478828 587.6819826 302.3132019
01 05 2018 00:00 432.5440063 5.839684963 572.2332644 303.6416931
01 05 2018 00:10 306.2110901 5.421854973 446.7984598 301.9187012
01 05 2018 00:20
                 232.1452026 5.061748981 351.3154251 300.6836853
01 05 2018 00:30
                 176.8462067 4.908945084 313.9414681 296.4529114
01 05 2018 00:40
                 166.8802948 4.956251144 325.3242441 294.6394958
01 05 2018 00:50
                 138.4299927 4.577853203 238.6629445 295.4674988
01 05 2018 01:00
                 141.7480927 4.601239204 243.7416374 294.8171997
                 130.7471924 4.399209976 200.9651606 289.5101013
01 05 2018 01:10
                 101.1499023 4.031604767 128.890074 282.6299133
01 05 2018 01:20
01 05 2018 01:30
                 75.05664063 3.702771902 77.99976858 274.5147095
01 05 2018 01:40
                 59.70672989 3.738620996 83.28075
                                                     270.7908936
01 05 2018 01:50
                 57.45582962 3.83702302 98.83333949 282.8800964
01 05 2018 02:00
                 3.148000002 4.102117062 142.1947596 287.3429871
01 05 2018 02:10
                 74.91368103 3.895008087 108.7234169 269.4187012
01 05 2018 02:20 92.37190247 4.000885963 123.1645106 278.5191956
01 05 2018 02:30
                 111.1013031 4.104833126 142.7118718 280.6622009
01 05 2018 02:40 108.591301 4.078313828 137.6777041 276.6690979
01 05 2018 02:50 165.7434998 4.429418087 207.2074754 273.1141052
01 05 2018 03:00 112.2382965 4.101101875 142.0015676 272.769104
```

```
78.78263855 3.740411997 83.5499779 273.2666931
01 05 2018 03:10
01 05 2018 03:20
                  72.75640869 3.768455982 87.83255916 278.3648071
01 05 2018 03:30
                   61,46963882 3,771565914 88,31522604 283,7571106
01 05 2018 03:40
                   24.90113068 3.542059898 56.85223142 283.8233948
01 05 2018 03:50
                         3.376606941 39.39804517 295.48349
01 05 2018 04:00
                         3.830168009 97.69969011 295.4465027
01 05 2018 04:10
                   59.66535187 4.041621208 130.7661389 295.1654053
                   61.5114212 4.037376881 129.9706291 300.9565125
01 05 2018 04:20
01 05 2018 04:30
                   70.56941986 4.075547218 137.154412
                                                        300,4848022
01 05 2018 04:40
                   78.08460236 4.125371933 146.6336144 306.5506897
01 05 2018 04:50
                   79.54492188 4.309327126 182.6944229 314.1690063
01 05 2018 05:00
                   52.68270111 4.078557968 137.7238993 321.6487122
01 05 2018 05:10
                   13.87812042 3.72001195 80.51375898 321.9313965
01 05 2018 05:20
                   -0.515600026
                                     2.878205061 0
                                                        330.0010986
01 05 2018 05:30
                         2.427514076 0
                                           326.8330994
                   0
01 05 2018 05:40
                   0
                         2.585530043 0
                                           331.5480042
01 05 2018 05:50
                   0
                         2.435378075 0
                                           329.1500854
01 05 2018 06:00
                   0
                                           321.9743958
                         2.059607983 0
01 05 2018 06:10
                   0
                         1.753144979 0
                                           321.5169067
01 05 2018 06:20
                   0
                         1.731091976 0
                                           326.4591064
01 05 2018 06:30
                                           314.796814
                         1.518944025 0
                   0
01 05 2018 06:40
                                           298.7240906
                   0
                         1.266975045 0
01 05 2018 06:50
                   0
                         1.916267991 0
                                           287.898407
01 05 2018 07:00
                   0
                         2,296169043 0
                                           281.5497131
01 05 2018 07:10
                         2.179836988 0
                                           277.3203125
01 05 2018 07:20
                         2.036436081 0
                                           267.0262146
01 05 2018 07:30
                         1.617221951 0
                                           250.652298
01 05 2018 07:40
                         1.54569304
                                           261.9742126
                   0
                                     0
01 05 2018 07:50
                   0
                         1.590216041 0
                                           264.9833069
01 05 2018 08:00
                   0
                         1.573091984 0
                                           261.2264099
01 05 2018 08:10
                   0
                         1.946601987 0
                                           260.8049011
01 05 2018 08:20
                   0
                         1.778800964 0
                                           257.047699
01 05 2018 08:30
                         1.787718058 0
                                           249.2431946
01 05 2018 08:40
                         1.870188951 0
                                           234.1203003
                   0
01 05 2018 08:50
                         1.515403032 0
                                           243.5330963
                   0
01 05 2018 09:00
                   0
                         1.58762002
                                           270.7553101
01 05 2018 09:10
                   0
                         1.641888976 0
                                           283.3508911
01 05 2018 09:20
                                           280.0757141
                   0
                         1.747360945 0
01 05 2018 09:30
                         2.373065948 0
                                           267.2833862
01 05 2018 09:40
                         1.954058051 0
                                           273,2876892
01 05 2018 09:50
                         1.64891398
                                           279.6860046
                   0
01 05 2018 10:00
                   0
                         2.182981968 0
                                           274.0842896
01 05 2018 10:10
                         2.366961002 0
                                           283.9100952
                   0
01 05 2018 10:20
                                           318.6669922
                   0
                         0.900627315 0
01 05 2018 10:30
                   0
                         1.464504957 0
                                           291.5715027
01 05 2018 10:40
                   0
                         1.204887033 0
                                           275.2572021
01 05 2018 10:50
                   0
                         1.049350977 0
                                           276.9628906
01 05 2018 11:00
                   0
                         1.061023951 0
                                           227.5706024
01 05 2018 11:10
                   0
                         2.208884001 0
                                           196.5847015
01 05 2018 11:20
                   0
                         1.600877047 0
                                           220.8345032
01 05 2018 11:30
                   0
                         2.221441031 0
                                           210.3500061
01 05 2018 11:40
                         1.943415046 0
                                           225.3148041
01 05 2018 11:50
                         2.120382071 0
                                           230.0317993
01 05 2018 12:00
                         2.155692101 0
                                           242.6945038
                   0
01 05 2018 12:10
                                           227.6031036
                   0
                         2.121860981 0
01 05 2018 12:20
                   0
                         1.621942997 0
                                           211.8470001
01 05 2018 12:30
                   0
                         1.215445995 0
                                           214.3746033
01 05 2018 12:40
                   0
                         1.927628994 0
                                           215.1967926
01 05 2018 12:50
                         2.690260887 0
                                           192.0131073
```

```
01 05 2018 13:00
                        1.947821021 0
                                          183.4674072
                  0
01 05 2018 13:10
                  0
                        1.720613956 0
                                          180.9378052
01 05 2018 13:20
                        1.649309039 0
                                          197,4373932
                  0
01 05 2018 13:30
                  0
                        1.927638054 0
                                          189.7949982
01 05 2018 13:40
                  0
                        2.150041103 0
                                          215.0328064
01 05 2018 13:50
                        2.211427927 0
                                          211.4656067
01 05 2018 14:00
                  0
                        2.770289898 0
                                          215.7955933
01 05 2018 14:10
                  0
                        2.820333004 0
                                          202.0652008
01 05 2018 14:20
                  0
                        3.116125107 20.79480665 209.3479004
01 05 2018 14:30
                        3.550851107 57.90219075 192.591095
                  0
01 05 2018 14:40
                  0
                        3.448736906 46.46876586 181.5178986
01 05 2018 14:50
                        3.273000002 30.69832014 190.8755951
01 05 2018 15:00
                        3.671971083 73.62668552 180.9272003
01 05 2018 15:10
                  63.10047913 4.171864033 155.5862023 184.4680023
01 05 2018 15:20
                  138.1060944 4.404900074 202.1369962 178.9710999
01 05 2018 15:30
                  84.17228699 4.005475998 124.0173672 182.9658966
01 05 2018 15:40
                  2,463798046 3,289339066 31,95621769 198,3701019
01 05 2018 15:50
                  41.5369606 3.723345995 81.00542611 205.6533966
01 05 2018 16:00
                  135.5747986 4.212975979 163.5918153 206.5126953
                  97.09864044 4.064788818 135.1228783 218.3049011
01 05 2018 16:10
01 05 2018 16:20
                  72.76360321 3.874885082 105.2302352 231.3919067
                  112.2667999 4.20612812 162.2524496 238.7525024 78.59867859 3.98123908 124.4260612 239.5444031
01 05 2018 16:30
01 05 2018 16:40
01 05 2018 16:50
                  36.48994064 3.656987906 71.55426161 246.5578003
01 05 2018 17:00
                  94.1784668 4.129817009 147.4850273 253.9685974
01 05 2018 17:10
                  118.6865997 4.330677032 186.9939782 257.8077087
01 05 2018 17:20
                  51.45933151 3.908632994 111.1253692 268.6541138
                  2.828607082 3.156862974 22.98809459 265.3154907
01 05 2018 17:30
01 05 2018 17:40
                  0
                        3.340745926 36.19249251 279.1199951
01 05 2018 17:50
                        3.337409973 35.90475834 278.0109863
                  0
01 05 2018 18:00
                  0
                        2.768764973 0
                                          239.9160004
01 05 2018 18:10
                  0
                        2.779472113 0
                                          238.2709961
01 05 2018 18:20
                        2.775744915 0
                                          231.3946075
01 05 2018 18:30
                  10.75718975 3.765669107 87.401346
                                                       218,4996948
01 05 2018 18:40
                  44.40887833 3.454874039 47.10880052 227.701004
                  28.21928978 3.38319397 40.00921651 228.6526947
01 05 2018 18:50
                  163.3984985 4.258706093 172.5977107 217.5809021
01 05 2018 19:00
01 05 2018 19:10
                  136.8374023 4.132058144 147.9146564 226.963501
01 05 2018 19:20
                  59.35889816 3.794666052 91.94884438 240.9069977
01 05 2018 19:30
                  18.59948921 3.300954103 32.8764011 242.6212006
01 05 2018 19:40
                  102.4515991 3.826453924 97.08861268 225.4423981
01 05 2018 19:50 60.11779022 3.616508007 66.13482605 236.6734009
01 05 2018 20:00
                  12.47183037 3.002454996 16.07904204 233.5617981
01 05 2018 20:10
                  1.994338989 3.04885006 17.75410817 234.642395
01 05 2018 20:20
                  184.1764984 4.85763979 301.781175 223.7431946
01 05 2018 20:30
                  191.4387054 4.671301842 259.1656619 219.6672058
01 05 2018 20:40
                  37.80189896 3.618118048 66.3453712 217.7857971
                  35.45225143 3.603293896 64.42248663 214.0782928
01 05 2018 20:50
01 05 2018 21:00
                  52.94897079 3.808250904 94.12559085 223.3430023
01 05 2018 21:10
                  6.160202026 3.216362
                                          26.66858517 240.1981964
01 05 2018 21:20
                  0
                        3.129659891 21.49405151 261.5580139
01 05 2018 21:30
                  0
                        2.455583096 0
                                          261.9396973
01 05 2018 21:40
                        2.999583006 0
                                          258.0216064
01 05 2018 21:50
                        3.334645987 35.66770648 261.042511
                  0
01 05 2018 22:00
                        3.478713036 49.65211077 267.3198853
                  0
01 05 2018 22:10
                  0
                        3.389394999 40.59091715 267.3891907
01 05 2018 22:20
                  0
                        3.728197098 81.72398819 276.0645142
01 05 2018 22:30 21.52611923 3.7394979 83.41250433 282.3724976
01 05 2018 22:40 0.788534403 3.259140015 29.66476424 272.3161011
```

```
01 05 2018 22:50
                        3.284096956 31.54798904 279.6391907
                  0
01 05 2018 23:00
                  0
                        2.570610046 0
                                          280.1864929
01 05 2018 23:10
                        2.705894947 0
                                          253.3672028
                  0
01 05 2018 23:20
                  0
                        2.933393002 0
                                          242.8634033
01 05 2018 23:30
                  0
                        3.161823988 23.27332786 241.5861969
01 05 2018 23:40
                        2.894720078 0
                                          242.1427002
01 05 2018 23:50
                  0
                        2.230159044 0
                                          242.9246063
02 05 2018 00:00
                  0
                        2.253434896 0
                                          241.7471008
02 05 2018 00:10
                  0
                        1.692863941 0
                                          221.7556
02 05 2018 00:20
                  0
                        0.562203586 0
                                          196.2745056
02 05 2018 00:30
                  0
                        1.201187968 0
                                          224.949295
02 05 2018 00:40
                  0
                        1.917801976 0
                                          224.7559967
02 05 2018 00:50
                        1.952124
                                    0
                                          222.1085968
02 05 2018 01:00
                  0
                        1.813150048 0
                                          220.5807953
02 05 2018 01:10
                        2.128577948 0
                                          218.5733032
                  0
02 05 2018 01:20
                  0
                        1.974140048 0
                                          215.3504028
02 05 2018 01:30
                 0
                        2.599051952 0
                                          228.1748047
02 05 2018 01:40
                  0
                        3.611027956 65.42130763 218.7037964
02 05 2018 01:50
                  144.539505 4.375090122 196.0181867 211.0070038
                  173.5550995 4.535140038 229.4749348 199.0151978
02 05 2018 02:00
02 05 2018 02:10
                  128.4924927 4.193479061 159.7846644 199.5424042
                  223.0700989 4.761829853 279.5726402 196.9308929
02 05 2018 02:20
                  318.8551941 5.26489687 403.8416363 193.283493
02 05 2018 02:30
02 05 2018 02:40
                  368.1915894 5.557425022 485.6719349 192.3784027
02 05 2018 02:50
                  344.6979065 5.366302013 431.3488261 187.5402069
02 05 2018 03:00
                  254.4506073 5.040794849 346.0851439 182.922699
02 05 2018 03:10
                  157.4329071 4.437139034 208.81138
                                                      184.1949005
02 05 2018 03:20
                  123.2421036 4.302601814 181.3451479 180.6119995
02 05 2018 03:30 58.73648834 3.944737911 117.6339908 177.0041962
02 05 2018 03:40
                  17.53066063 3.468542099 48.55588305 176.2097015
02 05 2018 03:50
                  15.63164043 3.235754013 27.99052479 186.0552979
02 05 2018 04:00
                  1.369132042 3.386348009 40.30431902 196.2599945
02 05 2018 04:10
                  26.74757957 3.16445899 23.42642844 193.5870056
02 05 2018 04:20
                        2.965111017 0
                                          200.1320038
                  0
02 05 2018 04:30
                  0
                        2.810784101 0
                                          200.1620026
02 05 2018 04:40
                  0
                        3.195233107 25.29673669 203.2584076
                        3.525499105 54.90791616 204.2588959
02 05 2018 04:50
                  0
                        3.789606094 91.14561776 205.1580048
02 05 2018 05:00
                  0
02 05 2018 05:10 28.75365067 3.81456089 95.14670399 213.6988068
02 05 2018 05:20
                 43.12419891 3.815838099 95.35416339 223.0144958
02 05 2018 05:30
                  87.23613739 4.242483139 169.3904761 215.8883972
02 05 2018 05:40 96.70049286 4.195529938 160.1842357 204.9705963
02 05 2018 05:50
                  104.5519028 4.321568012 185.1565314 197.6562042
02 05 2018 06:00
                  54.07120132 3.459326982 47.57696559 199.6647034
                                                187.7601013
02 05 2018 06:10
                  0.176466897 2.386826992 0
02 05 2018 06:20
                  73.67854309 3.959002972 120.2630311 189.1748962
                  110.1899033 4.316884995 184.2136406 183.8661957
02 05 2018 06:30
02 05 2018 06:40
                  18.96112061 2.836849928 0
                                                173.9841003
02 05 2018 06:50
                  0
                        1.579146981 0
                                          176.5565033
02 05 2018 07:00
                  0
                        1.391319036 0
                                          178.503006
02 05 2018 07:10
                  0
                        0.912269115 0
                                          180.3157043
02 05 2018 07:20
                        0.96284318 0
                                          214.2969971
02 05 2018 07:30
                        2.095385075 0
                                          196.4246979
02 05 2018 07:40
                        2.367883921 0
                                          206.3264008
                  0
02 05 2018 07:50
                                          210.256897
                  0
                        2.645773888 0
02 05 2018 08:00
                  0
                        2.161027908 0
                                          209.0196075
02 05 2018 08:10
                  0
                        1.55813098 0
                                          194.5836029
02 05 2018 08:20
                  0
                        1.304571033 0
                                          184.3090057
02 05 2018 08:30 0
                        1.817317009 0
                                          219.8117981
```

```
02 05 2018 08:40
                         1.028187037 0
                                           164.2071075
                  0
02 05 2018 08:50
                  0
                         0.716230214 0
                                           41.15356827
02 05 2018 09:00
                         1.250324965 0
                  0
                                           43.21263885
02 05 2018 09:10
                  0
                         0.683521688 0
                                           133,6647034
02 05 2018 09:20
                  0
                         0.693818092 0
                                           326.4554138
02 05 2018 09:30
                         1.430598021 0
                                           354.4659119
02 05 2018 09:40
                  0
                         0.935260892 0
                                           310.8469849
02 05 2018 09:50
                  0
                         2.155555964 0
                                           37.463871
02 05 2018 10:00
                  0
                         2.843410969 0
                                           42.12097168
02 05 2018 10:10
                  0
                         2,256134987 0
                                           46.77585983
02 05 2018 10:20
                         2.243479013 0
                  0
                                           43.07479858
02 05 2018 10:30
                         1.56052804 0
                                           18.48329926
02 05 2018 10:40
                         0.588177502 0
                                           321.8138123
02 05 2018 10:50
                         1.347409964 0
                                           347.8688049
02 05 2018 11:00
                         2.042818069 0
                                           34.4074707
                  0
02 05 2018 11:10
                  0
                         1.501001954 0
                                           27.23661995
02 05 2018 11:20
                  0
                         2.130554914 0
                                           30.55903053
02 05 2018 11:30
                  0
                         1.358690023 0
                                           11.27272987
02 05 2018 11:40
                         1.376482964 0
                                           7.186535835
02 05 2018 11:50
                  0
                         0.806984782 0
                                           314.8900146
02 05 2018 12:00
                         0.803205788 0
                                           351.4755859
                  0
02 05 2018 12:10
                  0
                         1.033627033 0
                                           0.381553113
02 05 2018 12:20
                         2.302109957 0
                                           27.28541946
02 05 2018 12:30
                  0
                         2.034993887 0
                                           33.65110016
02 05 2018 12:40
                         1.56141603 0
                                           46.00522995
02 05 2018 12:50
                         0.908538699 0
                                           39.75865173
02 05 2018 13:00
                         1.024911046 0
                                           350.8392944
02 05 2018 13:10
                         1.174932957 0
                                           341.1281128
                  0
02 05 2018 13:20
                  0
                         1.479333043 0
                                           349.487915
02 05 2018 13:30
                  0
                         2.307312012 0
                                           3.674870968
02 05 2018 13:40
                         3.08792305 19.43197461 20.45702934
                  0
02 05 2018 13:50
                  0
                         2.830255032 0
                                           16.07360077
02 05 2018 14:00
                         2.544450998 0
                                           14.8814497
02 05 2018 14:10
                         2.296233892 0
                                           30.76132965
                  0
02 05 2018 14:20
                         2.476370096 0
                                           49.33942032
                  0
02 05 2018 14:30
                         2.705461979 0
                                           38.00827026
02 05 2018 14:40
                  0
                         3.259972095 29.72594629 38.87324905
02 05 2018 14:50
                         2.865034103 0
                                           45.25119019
02 05 2018 15:00
                         2.1819911
                                           55.46583939
02 05 2018 15:10
                         2.612457037 0
                                           62.86878967
02 05 2018 15:20
                         2.909435987 0
                                           53.42359161
                  0
02 05 2018 15:30
                         3.057503939 18.10466227 42.43262863
                  0
02 05 2018 15:40
                  -0.000466667
                                     3.942930937 117.3032901 45.00220871
02 05 2018 15:50
                  13.40872955 3.544059992 57.09002172 50.26253128
02 05 2018 16:00
                                     26.12208176 71.89304352
                         3.208076
02 05 2018 16:10
                         3.063828945 18.36845698 74.49167633
02 05 2018 16:20
                  0
                         2.43366909 0
                                           72.94045258
02 05 2018 16:30
                  0
                         2.148073912 0
                                           70.38012695
02 05 2018 16:40
                  0
                         2.904742002 0
                                           72.73480988
02 05 2018 16:50
                  0
                         2.648391008 0
                                           81.04480743
02 05 2018 17:00
                  0
                         2.091140032 0
                                           86.69664001
02 05 2018 17:10
                         2.27560091 0
                                           86.69181061
02 05 2018 17:20
                         1.662840009 0
                                           117.8764038
02 05 2018 17:30
                         1.147034049 0
                                           134.8470001
                  0
02 05 2018 17:40
                         1.625828028 0
                  0
                                           133.8739929
02 05 2018 17:50
                  0
                         1.277258992 0
                                           117.0774994
02 05 2018 18:00
                  0
                         1.466570973 0
                                           119.7854996
02 05 2018 18:10
                  0
                         2.358304024 0
                                           104.6705017
02 05 2018 18:20
                         3.240890026 28.35072121 113.8041992
```

```
02 05 2018 18:30 65.39655304 4.051716805 132.6616318 159.6407928
02 05 2018 18:40 222.6302948 5.112458229 364.1150295 155.0858002
02 05 2018 18:50 434.5100098 5.865634918 580.5918555 163.1434021
02 05 2018 19:00 423.6716003 5.860375881 578.8922732 159.6248932
02 05 2018 19:10 429.7717896 5.88144207 585.717596 165.5727997
02 05 2018 19:20
                 767.286377 6.842580795 946.6707079 178.533905
                 115.3215027 6.305311203 731.9180554 199.2837067
02 05 2018 19:30
                 121.1527023 5.610652924 501.4016512 205.8607025
02 05 2018 19:40
02 05 2018 19:50
                 365.4715881 5.398077965 440.1524304 223.0740967
                 273.129303 5.052638054 349.0370914 228.5939026
02 05 2018 20:00
02 05 2018 20:10
                 302.1917114 4.92446804 317.6584044 214.8182068
                 163.2805023 4.118922234 145.3999207 217.7642059
02 05 2018 20:20
02 05 2018 20:30
                 18.35814095 2.292736053 0
                                               238.6891022
02 05 2018 20:40
                       1.296223998 0
                                         275.7438049
02 05 2018 20:50
                 0
                        1.467581987 0
                                         286.2983093
02 05 2018 21:00
                 0
                       1.993821979 0
                                         305.4552002
02 05 2018 21:10 0
                       2.30488205 0
                                         321.9930115
02 05 2018 21:20 0
                       2.607144117 0
                                         327.250885
02 05 2018 21:30 0
                       2.739057064 0
                                         332.432312
02 05 2018 21:40 0
                       2.313173056 0
                                         345.1763
02 05 2018 21:50
                       2.048902988 0
                                         2.32765007
                 0
02 05 2018 22:00
                       2.67681098 0
                 0
                                         16.55294037
02 05 2018 22:10
                 0
                       2.857858896 0
                                         21.36264038
02 05 2018 22:20
                 0
                       3.209834099 26.23711908 20.54495049
02 05 2018 22:30
                       2.998099089 0
                                         31.06395912
02 05 2018 22:40
                       3.343564034 36.43694868 46.4368782
02 05 2018 22:50
                       2.96619606 0
                                         46.72631073
02 05 2018 23:00
                        2.576883078 0
                                         34.12405014
                 0
02 05 2018 23:10
                 0
                       2.514853001 0
                                         43.65288925
02 05 2018 23:20
                 0
                       2.123503923 0
                                         29.19241905
02 05 2018 23:30 0
                       2.390376091 0
                                         33.24375916
02 05 2018 23:40 0
                       2.625767946 0
                                         53.86264038
02 05 2018 23:50
                       2.619412899 0
                                         55.66432953
                 0
03 05 2018 00:00 0
                       2.103636026 0
                                         75.59194183
03 05 2018 00:10
                       3.308691978 33.50140232 75.06468201
                 0
03 05 2018 00:20
                 0
                       2.985028982 0
                                         71.51638794
03 05 2018 00:30
                 0
                       3.445625067 46.14653815 71.46318054
03 05 2018 00:40
                 0
                       2.926964998 0
                                         60.82743073
03 05 2018 00:50
                       2.760037899 0
                                         65.69473267
03 05 2018 01:00
                        3.265010118 30.09875282 78.18974304
03 05 2018 01:10 21.1565094 3.962485075 120.909724 65.63970184
03 05 2018 01:20 52.71836853 4.026769161 127.9859903 57.38430023
03 05 2018 01:30
                 30.52820969 3.673124075 73.78765202 44.39321899
03 05 2018 01:40
                 0
                       3.301357985 32.90878629 53.96475983
03 05 2018 01:50
                        3.772097111 88.39782342 73.65820313
03 05 2018 02:00 5.887399197 3.643124104 69.66866032 68.45681763
                 108.0270996 4.194945812 160.0704093 64.01473999
03 05 2018 02:10
                 236.5399017 4.893538952 310.2699187 66.92212677
03 05 2018 02:20
03 05 2018 02:30 394.6989136 5.590552807 495.4301882 72.05281067
03 05 2018 02:40
                 420.5853882 6.011249065 627.793113 75.50906372
03 05 2018 02:50
                 299.2807922 5.256235123 401.5327896 75.29299164
03 05 2018 03:00
                 263.5466003 5.110146999 363.5272278 76.81053162
03 05 2018 03:10
                 142.8125
                             4.09857893 141.5216568 81.08997345
03 05 2018 03:20
                 24.09174919 3.130280018 21.52679122 94.42887878
03 05 2018 03:30 82.58740997 3.651381969 70.78810063 104.7101974
03 05 2018 03:40 252.405899 4.805595875 289.637937 106.1185989
03 05 2018 03:50 119.428299 3.850680113 101.114296 103.174202
03 05 2018 04:00 171.9900055 4.040225983 130.5045433 97.04611969
03 05 2018 04:10 349.2973938 4.753499031 277.671641 94.78314972
```

```
03 05 2018 04:20 369.6953125 4.743320942 275.3555302 92.5749588
                451.9154968 5.163015842 377.0801251 87.80758667
03 05 2018 04:30
03 05 2018 04:40
                990.690918 7.341170788 1177.281086 79.72289276
03 05 2018 04:50 953.8527832 7.635410786 1328.640063 79.4524765
03 05 2018 05:00
                645.2523193 6.25360918 712.9391216 80.36895752
03 05 2018 05:10
                 300.0042114 4.43560791 208.4930389 87.92449951
03 05 2018 05:20
                 181.726593 4.36997509 194.9732978 100.8488998
03 05 2018 05:30
                        4.932759762 319.6510955 109.2264023
03 05 2018 05:40
                  0
                        5.627260208 506.3645535 109.4772034
03 05 2018 05:50
                 77.2525177 5.341762066 424.6106443 99.07053375
03 05 2018 06:00
                 764.5319214 5.877137184 584.3190881 86.52266693
03 05 2018 06:10
                 390.5838013 4.82456398 294.0415763 94.13359833
03 05 2018 06:20
                 397.5075073 4.882980824 307.7636903 94.85801697
03 05 2018 06:30
                 463.6859131 5.188426971 383.674741 92.57878113
                 455.5472107 5.477159977 462.4534946 86.53292084
03 05 2018 06:40
03 05 2018 06:50
                  220.9839935 6.700759888 886.7876718 85.00360107
03 05 2018 07:00
                        5.835813999 570.9923615 94.31387329
03 05 2018 07:10
                  0
                        5.107927799 362.9632313 94.62284088
03 05 2018 07:20
                        5.005268097 337.2948519 96.75639343
03 05 2018 07:30
                  0
                        6.04698801 639.9541788 86.45922852
                        5.739627838 540.6479602 87.93946838
03 05 2018 07:40
                  0
03 05 2018 07:50
                        5.477519035 462.5560385 85.22006989
                  0
03 05 2018 08:00
                  0
                        6.565826893 831.981351 75.57082367
03 05 2018 08:10
                  0
                        6.250194073 711.6956273 68.81984711
03 05 2018 08:20
                        6.77495718 917.8203439 59.33314896
03 05 2018 08:30
                        5.979351997 618.0515816 68.90479279
03 05 2018 08:40
                        5.712668896 532.3097401 64.03247833
03 05 2018 08:50
                        5.688860893 525.0058177 62.47319031
                  0
03 05 2018 09:00
                  0
                        5.359965801 429.6039881 66.02831268
                       4.431365967 207.6117914 71.18940735
03 05 2018 09:10
                 0
03 05 2018 09:20
                       4.760613918 279.2948823 71.60749817
                 0
03 05 2018 09:30
                 0
                       4.720901012 270.2784079 76.05444336
03 05 2018 09:40
                        4.242845058 169.4618775 80.11595917
                 0
03 05 2018 09:50
                        4.521899223 226.6494689 81.7411499
                 0
                        3.366091013 38.4367228 78.94484711
03 05 2018 10:00
                 0
03 05 2018 10:10
                 0
                        2.996809006 0
                                          84.13236237
03 05 2018 10:20
                 0
                        3.439152002 45.48122257 80.61833954
                 7.176663876 3.599950075 63.99360982 77.18650818
03 05 2018 10:30
03 05 2018 10:40
                 9.319084167 2.803060055 0
                                                77.72582245
03 05 2018 10:50
                 15.52667046 3.212502956 26.41269512 76.83738708
03 05 2018 11:00 9.955459595 3.107326984 20.35599003 66.87024689
03 05 2018 11:10 0.412534088 2.986697912 0
                                                71.79898834
03 05 2018 11:20
                        3.544156075 57.10146106 83.0785675
03 05 2018 11:30
                 45.58129883 3.584440947 62.02780789 76.78204346
03 05 2018 11:40
                 5.430397034 3.077645063 18.9669425 66.9540863
                 4.324685097 2.932024002 0
03 05 2018 11:50
                                                65.96698761
03 05 2018 12:00
                        2.704829931 0
                                          75.24511719
                 15.34819984 3.924460888 113.9529831 77.11592865
03 05 2018 12:10
03 05 2018 12:20
                 78.35630798 3.881644964 106.3964663 70.06524658
03 05 2018 12:30
                 94.00435638 3.964699984 121.3220841 66.88497162
03 05 2018 12:40
                 75.61501312 3.698273897 77.35167955 72.07672119
03 05 2018 12:50
                 102.6910019 4.020669937 126.8471511 64.87709045
03 05 2018 13:00
                 70.2249527 3.837555885 98.92177721 67.08721161
03 05 2018 13:10
                 160.1560974 4.486145973 219.0730147 66.14098358
03 05 2018 13:20
                 164.8822937 4.487074852 219.2688834 68.1696167
03 05 2018 13:30
                 315.8143921 5.29718399 412.5039968 68.07174683
03 05 2018 13:40
                 209.4725952 4.76623106 280.5788605 65.89105225
03 05 2018 13:50 204.772995 4.807312012 290.0353194 64.99117279
03 05 2018 14:00 325.0123901 5.648666859 512.8008043 65.34118652
```

```
03 05 2018 14:10 450.4996033 6.108109951 661.0687733 66.641922
03 05 2018 14:20 542.5761108 6.365892887 754.5241004 66.35134888
03 05 2018 14:30 648.8822021 6.73191309 899.7388663 66.89331055
03 05 2018 14:40 663.1826782 6.738725185 902.5859196 66.42487335
03 05 2018 14:50 654.3447266 6.582853794 838.7831315 62.16904068
                 667.3563232 6.888319016 966.4962591 68.0861969
03 05 2018 15:00
                 638.8452759 6.555808067 827.9943436 70.21891022
03 05 2018 15:10
                 733.5532837 6.799065113 928.0429394 69.55386353
03 05 2018 15:20
03 05 2018 15:30
                 728.6021118 6.709152222 890.2654674 66.2503891
                 669.0391235 6.611645222 850.3589991 68.80489349
03 05 2018 15:40
03 05 2018 15:50
                 473.2510986 6.223384857 701.9775013 76.53376007
03 05 2018 16:00 584.364624 6.319349766 737.1211605 75.58865356
03 05 2018 16:10 640.861084 6.579660892 837.5051665 76.48660278
03 05 2018 16:20 786.1580811 7.125440121 1073.471508 74.12129211
03 05 2018 16:30 828.5421753 7.296388149 1155.19657 69.5847168
03 05 2018 16:40 1029.687012 7.501626015 1258.833772 72.26328278
03 05 2018 16:50 1011.231995 7.353865147 1183.593892 69.63519287
03 05 2018 17:00 898.6248779 7.142810822 1081.594279 67.59246063
03 05 2018 17:10 1040.160034 7.386612892 1199.987719 71.19228363
                 1082.77002 7.548344135 1282.941826 72.38137054
03 05 2018 17:20
03 05 2018 17:30
                 1089.738037 7.583166122 1301.100138 72.84308624
                 1043.805054 7.67754221 1351.10254 75.70475769
03 05 2018 17:40
03 05 2018 17:50
                 1032.784058 7.555913925 1286.875561 76.42984009
03 05 2018 18:00
                 911.9147949 7.356054783 1184.68515 77.12677002
03 05 2018 18:10
                 775.5070801 7.169917107 1094.35028 77.80489349
03 05 2018 18:20
                 775.0657959 7.124185085 1072.886194 78.3086319
03 05 2018 18:30 630.097229 6.684456825 880.0549914 78.59210968
03 05 2018 18:40 676.7689819 6.812502861 933.7710303 77.68675232
03 05 2018 18:50 408.1824036 5.60183382 498.7768818 81.30164337
03 05 2018 19:00
                 79.58447266 3.563812017 59.47270384 97.7826767
03 05 2018 19:10
                 0.225866899 2.541286945 0
                                               105.3048019
                                         97.93695068
03 05 2018 19:20
                 0
                       2.816348076 0
03 05 2018 19:30
                       3.019170046 16.64284072 90.57185364
03 05 2018 19:40 0
                       2.410541058 0
                                         94,60968018
03 05 2018 19:50 0
                       2.121222019 0
                                         95.56165314
03 05 2018 20:00
                 0
                       2.887447119 0
                                         86.97277069
03 05 2018 20:10 0
                       3.051496029 17.8600202 83.88609314
03 05 2018 20:20
                 0
                       3.50763011 52.85922978 74.37042999
03 05 2018 20:30
                       3.151329994 22.67462119 84.60836029
03 05 2018 20:40
                       3.331382036 35.38934947 92.11660004
03 05 2018 20:50
                 0
                       3.471462965 48.86900107 90.77391815
03 05 2018 21:00 9.95816803 3.73140502 82.20122487 89.31861115
03 05 2018 21:10 0
                       3.392553091 40.88953326 95.32689667
03 05 2018 21:20 0
                       3.0534091
                                  17.93729374 89.9923172
03 05 2018 21:30 0
                       3.052474022 17.89945054 113.8516006
                       3.427059889 44.25632834 128.1345978
03 05 2018 21:40 0
03 05 2018 21:50
                 0
                       2.63102293 0
                                         124.8877029
03 05 2018 22:00
                 0
                       2.621138096 0
                                         92.23799133
03 05 2018 22:10
                 18.99887085 3.990505934 126.1843503 77.14354706
03 05 2018 22:20
                  36.14939117 3.957734108 120.0278612 73.83100128
03 05 2018 22:30
                 1.202270031 3.352368116 37.20884288 90.31286621
03 05 2018 22:40
                       3.691392899 76.36650397 101.6427994
03 05 2018 22:50
                 20.50035095 3.600116014 64.01485093 87.03404236
03 05 2018 23:00
                 2.233736992 3.166043997 23.51905661 98.49732208
03 05 2018 23:10
                 7.650619984 2.110238075 0
                                               105.7917023
03 05 2018 23:20 0
                       1.688948035 0
                                         105.7931976
03 05 2018 23:30 0
                       2.171773911 0
                                         112.620697
03 05 2018 23:40 0
                                         109.2537003
                       2.064941883 0
03 05 2018 23:50 0
                    2.701920033 0
                                         109.5718002
```

```
04 05 2018 00:00
                         3.011483908 16.37803546 123.6530991
                  0
04 05 2018 00:10
                         3.578517914 61.28721137 140.2872009
                  0
04 05 2018 00:20
                         2.089071989 0
                                           132,6632996
                  0
04 05 2018 00:30
                  0
                         1.551414013 0
                                           107.0011978
04 05 2018 00:40
                  0
                         1.025050998 0
                                           96.36078644
04 05 2018 00:50
                         2.456859112 0
                                           101.7741013
04 05 2018 01:00
                  0
                         2.330605984 0
                                           97.40299225
04 05 2018 01:10
                  0
                        0.802216709 0
                                           173.4790955
04 05 2018 01:20
                  0
                        2.211991072 0
                                           166.0137024
04 05 2018 01:30
                  0
                         2.938358068 0
                                           164.3298035
04 05 2018 01:40
                  0
                        2.592067957 0
                                           162.6495056
04 05 2018 01:50
                        1.742082
                                     0
                                           143.7483978
04 05 2018 02:00
                        1.584511042 0
                                           123.177803
04 05 2018 02:10
                         1.840477943 0
                                           105.7305984
04 05 2018 02:20
                                           107.5233994
                  0
                         1.619441032 0
04 05 2018 02:30
                  0
                         2.164956093 0
                                           103.2078018
04 05 2018 02:40
                  0
                        1.427863002 0
                                           101.9728012
04 05 2018 02:50
                  0
                                           112,1598969
                        0.775687277 0
04 05 2018 03:00
                  0
                        0.736168981 0
                                           134.6954956
04 05 2018 03:10
                  0
                        0.532879889 0
                                           151.884201
04 05 2018 03:20
                        0.867064714 0
                                           200.2174072
                  0
04 05 2018 03:30
                  0
                        1.340823054 0
                                           245.527298
04 05 2018 03:40
                  0
                        1.578485966 0
                                           259.2997131
04 05 2018 03:50
                  0
                        0.623232722 0
                                           205.1569977
04 05 2018 04:00
                        0.385577708 0
                                           329.6282043
04 05 2018 04:10
                        0.232649207 0
                                           3.483551025
04 05 2018 04:20
                        1.059201956 0
                                           94.01554108
04 05 2018 04:30
                         1.605759978 0
                                           70.42858887
                  0
04 05 2018 04:40
                  0
                         1.92681098 0
                                           75.98813629
04 05 2018 04:50
                  0
                         2.090533018 0
                                           77.32135773
04 05 2018 05:00
                  0
                        2.098432064 0
                                           65.16840363
04 05 2018 05:10
                  0
                        2.434314966 0
                                           48.34635162
04 05 2018 05:20
                        2.973511934 0
                                           68.21479034
04 05 2018 05:30
                        3.544250011 57.11264636 69.04811859
                  0
                         3.222836971 27.10328834 49.15103912
04 05 2018 05:40
                  0
04 05 2018 05:50
                  0
                         2.885807991 0
                                           54.84107971
04 05 2018 06:00
                  0
                         3.26431489 30.04706536 69.20929718
                         3.203912973 25.85165521 79.56524658
04 05 2018 06:10
04 05 2018 06:20
                  25.32736969 3.544997931 57.20175332 79.11440277
                  50.2349205 3.670330048 73.39795134 73.70883179
04 05 2018 06:30
04 05 2018 06:40
                  24.50651932 3.233535051 27.83621126 74.04855347
                  0.121000297 3.012543917 16.41399332 101.2069016
04 05 2018 06:50
04 05 2018 07:00
                         3.667149067 72.95580034 117.9172974
04 05 2018 07:10
                  0
                         3.044410944 17.57893676 127.0253983
04 05 2018 07:20
                  0
                         3.475389004 49.29202451 126.2405014
04 05 2018 07:30
                         3.265089989 30.10469581 131.3665924
04 05 2018 07:40
                  0
                         3.106724977 20.32641695 117.6891022
                         3.493304968 51.25374228 104.4324036
04 05 2018 07:50
                  0
04 05 2018 08:00
                  0
                        3.553186893 58.18323972 104.6708984
04 05 2018 08:10
                         3.274668932 30.8248476 111.5549011
04 05 2018 08:20
                         3.323723078 34.74286898 104.3203964
04 05 2018 08:30
                  73.74494934 3.984148026 124.9765237 93.12586975
04 05 2018 08:40
                  34.44208908 3.057215929 18.09280273 92.55378723
04 05 2018 08:50
                  13.99806976 2.651026011 0
                                                 91.78237152
04 05 2018 09:00
                  101.4525986 3.954371929 119.4059641 75.06645966
04 05 2018 09:10
                  134.5820007 4.239455223 168.7933779 74.26674652
04 05 2018 09:20
                  169.0390015 4.587337017 240.7183834 73.92199707
04 05 2018 09:30
                  102.6865997 3.721853971 80.78517958 77.89026642
                  42.18759918 3.232553005 27.76816819 84.27600098
04 05 2018 09:40
```

```
04 05 2018 09:50 64.28751373 3.25118494 29.08542803 79.17575836
04 05 2018 10:00 83.32186127 3.840562105 99.42155958 73.57050323
                 31,49006081 2,753155947 0
04 05 2018 10:10
                                               80.9577179
04 05 2018 10:20
                 2.268532038 2.547382116 0
                                               99.04210663
04 05 2018 10:30 6.435798168 2.775579929 0
                                                85.9759903
04 05 2018 10:40
                       4.439602852 209.323926 68.71253204
04 05 2018 10:50
                 0
                        4.285501957 177.9253781 58.02138901
                       4.099737167 141.7419376 62.18104935
04 05 2018 11:00
                 0
04 05 2018 13:10
                 0
                       0
                             0
                                    0
                        7.729284763 1378.991418 0
04 05 2018 13:20
                 0
04 05 2018 13:30
                 549.8419189 6.990970135 1011.929059 69.28462219
04 05 2018 13:40
                 939.9265137 7.229393005 1122.688678 68.77548981
04 05 2018 13:50
                 996.9638062 7.433119774 1223.54206 71.9577179
04 05 2018 14:00
                 1005.934021 7.518241882 1267.374447 72.1058197
04 05 2018 14:10 972.8670044 7.480051041 1247.641503 71.59964752
04 05 2018 14:20
                 1042.630981 7.522923946 1269.787796 69.48161316
04 05 2018 14:30
                 1212.329956 7.903889179 1475.447671 63.55615997
04 05 2018 14:40
                 1508.610962 8.387836456 1759.294705 62.61751938
04 05 2018 14:50
                 1718.811035 9.022075653 2158.231863 63.19607925
                 1823.659058 9.206666946 2277.981309 62.39733124
04 05 2018 15:00
                 1920.418945 9.627368927 2537.771835 63.52471924
04 05 2018 15:10
                  2152.233887 9.845721245 2692.383869 60.31644821
04 05 2018 15:20
04 05 2018 15:30
                  2417.323975 10.57277012 3099.781807 63.0634613
04 05 2018 15:40
                 2459.405029 10.72597027 3166.860062 62.72143936
04 05 2018 15:50
                 2430.294922 10.50994015 3070.514258 61.27996063
04 05 2018 16:00
                 2400.063965 10.39527988 3014.374021 58.20563889
04 05 2018 16:10 2335.936035 10.22220039 2922.698873 56.76961136
04 05 2018 16:20
                 2271.072021 10.13492966 2873.183862 56.83496094
                 1801.333984 8.814919472 2025.429315 58.69400024
04 05 2018 16:30
                 1214.088989 7.871407986 1457.239726 63.55104828
04 05 2018 16:40
04 05 2018 16:50
                 979.6837769 7.360479832 1186.892613 63.42599106
04 05 2018 17:00
                 1358.733032 8.228758812 1663.59129 68.22238922
04 05 2018 17:10
                 1530.381958 8.516921043 1838.4384
                                                      67.92282104
04 05 2018 17:20
                 1481.448975 8.379175186 1754.03005 61.83047104
                 1513.983032 8.359862328 1742.31255 62.45484161
04 05 2018 17:30
04 05 2018 17:40
                  1451.920044 8.406476974 1770.645224 68.01225281
04 05 2018 17:50
                 1583.030029 8.519013405 1839.731363 66.54853821
04 05 2018 18:00
                 1621.514038 8.601067543 1890.674716 68.40409088
04 05 2018 18:10
                 2040.034058 9.809668541 2667.965979 71.62036896
04 05 2018 18:20
                 2331.197021 11.02945995 3282.744501 73.46875763
04 05 2018 18:30
                 2094.378906 10.52902031 3079.512566 74.13986206
04 05 2018 18:40
                 2174.7771
                             10.29522038 2962.415596 74.28250122
04 05 2018 18:50
                 2060.582031 10.14941978 2881.561879 70.19779968
04 05 2018 19:00
                 1920.456055 9.842885017 2690.478503 70.22460175
04 05 2018 19:10
                 2077.063965 10.21889973 2920.867051 74.59731293
04 05 2018 19:20
                  1878.577026 10.06184959 2829.96262 79.56104279
04 05 2018 19:30
                 1187.116943 8.271162033 1688.891264 80.47196198
                 738.1013794 5.967273235 614.0076305 79.3302536
04 05 2018 19:40
                 660.895874 5.696938992 527.4778009 73.29199219
04 05 2018 19:50
04 05 2018 20:00
                  496.842804 5.542276859 481.2442136 83.44286346
04 05 2018 20:10
                  261.5407104 4.161724091 153.6246283 81.7177887
04 05 2018 20:20
                 83.40033722 3.086177111 19.35178709 95.41934204
04 05 2018 20:30
                 7.802598
                             2.640746117 0
                                                98.58463287
04 05 2018 20:40
                 26.81580925 3.337266922 35.89245964 112.6811981
04 05 2018 20:50
                 113.0708008 4.09773016 141.3602725 136.4432983
04 05 2018 21:00
                 120.4969025 4.241044044 169.1066308 149.4738007
04 05 2018 21:10 97.2496109 4.167263031 154.6955088 164.548996
04 05 2018 21:20 140.6311035 4.421178818 205.4996939 181.2561035
04 05 2018 21:30 294.1498108 5.204776764 387.9457594 200.8760986
```

```
04 05 2018 21:40
                  470.8605957 6.0130229
                                           628.3934834 214.8240051
04 05 2018 21:50
                  596.2545776 6.364267826 753.9125123 215.9252014
04 05 2018 22:00
                  422.9544067 5.866083145 580.7368432 215.3612061
04 05 2018 22:10
                  554.3345947 6.482089043 799.0026037 209.3742065
04 05 2018 22:20
                  526.1151123 6.122194767 665.9909659 213.3161926
04 05 2018 22:30
                  264.1671143 5.075389862 354.7386541 223.4665985
04 05 2018 22:40
                  26.77630997 3.569329977 60.14948909 251.1148071
                  15.53384972 3.302508116 33.00115251 263.2770081
04 05 2018 22:50
04 05 2018 23:00
                  0
                        2.955317974 0
                                           255.1002045
04 05 2018 23:10
                        3.141047955 22.10509658 277.4742126
                  0
04 05 2018 23:20
                        3.154448986 22.8507267 319.3684998
                  0
04 05 2018 23:30
                  0
                        2.578561068 0
                                           328.3362122
04 05 2018 23:40
                        2.244858027 0
                                           314.0246887
04 05 2018 23:50
                  0
                        2.246016979 0
                                           314.2172852
05 05 2018 00:00
                        2.385896921 0
                                           328.7278137
                  0
05 05 2018 00:10
                  0
                        3.334073067 35.61872325 355.4219055
05 05 2018 00:20
                  0
                        3.248620033 28.90079474 23.07662964
05 05 2018 00:30
                  0
                        3.088485003 19.45788773 9.350984573
05 05 2018 00:40
                  0
                        2.863379002 0
                                           357.9483948
05 05 2018 00:50
                  0
                        2.904726982 0
                                           1.760787964
                        3.311279058 33.71250205 12.80729961
05 05 2018 01:00
                  0
05 05 2018 01:10
                  0
                        2.754746914 0
                                           27.12927055
05 05 2018 01:20
                  0
                        3.436742067 45.23523683 37.08012009
05 05 2018 01:30
                  38.79772186 3.654129982 71.16304209 33.81277084
05 05 2018 01:40
                  18.71822929 3.424367905 43.98682243 23.49724007
05 05 2018 01:50
                  0.028733309 3.325071096 34.8559725 34.32495117
05 05 2018 02:00
                        2.451280117 0
                                           35.3772316
05 05 2018 02:10
                        1.267238021 0
                  0
                                           15.10112953
05 05 2018 02:20
                  0
                        1.169635057 0
                                           23.32774925
05 05 2018 02:30
                  0
                        1.03698802
                                     0
                                           34.27925873
05 05 2018 02:40
                  0
                        1.145588994 0
                                           24.40331078
05 05 2018 02:50
                                           47.0069809
                  0
                        1.368033051 0
05 05 2018 03:00
                                           8.958460808
                  0
                        1.717556
                        1.835765958 0
05 05 2018 03:10
                                           7,69558382
                  0
05 05 2018 03:20
                        2.117063999 0
                                           356.485199
                  0
05 05 2018 03:30
                  0
                        1.881137013 0
                                           330.9345093
05 05 2018 03:40
                  0
                        1.113567948 0
                                           320.5205994
05 05 2018 03:50
                  0
                        0.852101326 0
                                           326.1288147
05 05 2018 04:00
                        0.808911026 0
                                           0.227709204
05 05 2018 04:10
                        1.138733029 0
                                           3.052341938
05 05 2018 04:20
                        2.000891924 0
                                           353.5744019
                  0
05 05 2018 04:30
                        3.097670078 19.88859804 340.6756897
                  0
05 05 2018 04:40
                        3.35798502 37.70778258 337.6885986
                  0
05 05 2018 04:50
                  0
                        2.842045069 0
                                           341.6000977
05 05 2018 05:00
                        3.202527046 25.76224183 342.6455994
                  0
05 05 2018 05:10
                        3.248842955 28.91679983 350.6507874
05 05 2018 05:20
                  0
                        2.104810953 0
                                           359.8851013
                                           10.31774044
05 05 2018 05:30
                  0
                        2.205302954 0
05 05 2018 05:40
                  0
                        1.61124301 0
                                           13.09269047
05 05 2018 05:50
                  0
                        0.701138794 0
                                           20.23335075
05 05 2018 06:00
                        0.593614399 0
                                           24.06125069
05 05 2018 06:10
                                           24.26441956
                        0.643269181 0
05 05 2018 06:20
                        0.740590513 0
                                           21.79068947
05 05 2018 06:30
                        0.694886804 0
                                           22.29478073
                  0
05 05 2018 06:40
                                           17.36601067
                  0
                        0.630818903 0
05 05 2018 06:50
                  0
                        0.447742999 0
                                           6.348920822
05 05 2018 07:00
                  0
                        1.030459046 0
                                           301.3434143
05 05 2018 07:10
                  0
                        1.003522992 0
                                           300.3797913
05 05 2018 07:20
                  0
                        1.267807007 0
                                           286.4288025
```

```
05 05 2018 07:30
                        1.319666028 0
                                          273.7557983
                  0
05 05 2018 07:40
                  0
                        1.343412995 0
                                          239.822403
05 05 2018 07:50
                        2.119673967 0
                                           236,6860046
                  0
05 05 2018 08:00
                  0
                        1.549829006 0
                                          250,4736023
05 05 2018 08:10
                  0
                        0.678627789 0
                                          219.059906
05 05 2018 08:20
                        1.099601984 0
                                           267.3782959
05 05 2018 08:30
                  0
                        0.830104411 0
                                           276.056488
                        0.634296894 0
                                          284.5141907
05 05 2018 08:40
                  0
05 05 2018 08:50
                  0
                        0.625446677 0
                                           322.6752014
05 05 2018 09:00
                  0
                        0.705860913 0
                                          88.52632904
05 05 2018 09:10
                  0
                        1.164510012 0
                                          52.38169861
05 05 2018 09:20
                        1.658175945 0
                                          74.56826019
05 05 2018 09:30
                        1.87352705 0
                                          77.18229675
05 05 2018 09:40
                        1.677204967 0
                                          82.76397705
05 05 2018 09:50
                                          87.24434662
                  0
                        0.734820426 0
05 05 2018 10:00
                  0
                        1.211923957 0
                                          96.55525208
05 05 2018 10:10
                  0
                        1.430135965 0
                                          57.97861099
05 05 2018 10:20
                  0
                                          61.83885956
                        1.410143971 0
05 05 2018 10:30
                  0
                        1.110836029 0
                                          94.53678894
05 05 2018 10:40
                  0
                        0.70004499 0
                                          86.0901413
                                          48.31147003
05 05 2018 10:50
                        0.446022302 0
                  0
05 05 2018 11:00
                  0
                        0.720532119 0
                                          64.5328598
05 05 2018 11:10
                  0
                        1.004745007 0
                                          81.82196045
05 05 2018 11:20
                  Θ
                        0.575635672 0
                                          96.29019928
05 05 2018 11:30
                        1.07922101 0
                                          69.96391296
05 05 2018 11:40
                        1.555449963 0
                                          96.56049347
05 05 2018 11:50
                        1.186794996 0
                                          94.32302856
                  0
05 05 2018 12:00
                        1.063115001 0
                                          70.33482361
                  0
05 05 2018 12:10
                  0
                        3.295974016 32.47921798 58.73099136
05 05 2018 12:20
                  0
                        3.412581921 42.82052876 53.15710068
                        3.023597956 16.79968366 65.58184052
05 05 2018 12:30
                  0
05 05 2018 12:40
                  0
                        2.892216921 0
                                          54.32976913
05 05 2018 12:50
                  40.3057518 4.030818939 128.743081 46.82614136
05 05 2018 13:00
                  177.8907928 4.584313869 240.0625609 53.14767838
                  317.7359009 5.422997952 447.1192106 54.37104034
05 05 2018 13:10
05 05 2018 13:20
                  388.8331909 5.711952209 532.0890566 54.37918854
05 05 2018 13:30
                  439.6170959 5.875929832 583.9272079 51.96820831
05 05 2018 13:40
                  546.3809204 6.199604034 693.4216977 52.72718048
05 05 2018 13:50
                  542.4309082 6.233644962 705.6875898 52.08924866
                  631.7081909 6.332623959 742.0605764 56.72562027
05 05 2018 14:00
05 05 2018 14:10
                  962.8883057 7.448967934 1231.642749 59.41381836
                  1099.790039 7.852594852 1446.747681 56.09981155
05 05 2018 14:20
05 05 2018 14:30
                  1251.496948 7.917681217 1483.214334 51.60340118
05 05 2018 14:40
                  900.2922974 7.111692905 1067.071567 54.30876923
05 05 2018 14:50
                  481.6805115 5.936398983 603.7417646 59.37944031
05 05 2018 15:00
                  687.5839233 6.891032219 967.6803247 58.99058914
                  1020.492004 7.912192822 1480.121173 52.21033859
05 05 2018 15:10
                  1061.322998 8.056724548 1562.645965 53.69519043
05 05 2018 15:20
                  1235.724976 8.11307621 1595.400412 47.56866074
05 05 2018 15:30
05 05 2018 15:40
                  1087.459961 7.755311012 1393.142725 43.21931839
05 05 2018 15:50
                  871.366272 7.153390884 1086.56142 45.99504852
05 05 2018 16:00
                  931.4102173 7.190965176 1104.323783 42.51211929
05 05 2018 16:10
                  841.4785156 6.996591091 1014.454972 43.13158035
05 05 2018 16:20
                  988.3001709 7.640934944 1331.57251 45.42580032
05 05 2018 16:30
                  1187.843018 8.289016724 1699.591197 48.93360901
05 05 2018 16:40
                  1049.281006 8.068995476 1569.751701 54.3158989
05 05 2018 16:50
                  1317.307983 8.520277023 1840.512358 56.4260788
05 05 2018 17:00
                  1358.147949 8.672896385 1935.633072 62.26063156
05 05 2018 17:10 1262.136963 8.217974663 1657.182339 70.29473877
```

```
05 05 2018 17:20 1083.353027 7.64579916 1334.157842 74.08778381
05 05 2018 17:30 1014.666992 7.802223206 1418.854348 74.4957962
05 05 2018 17:40 873.8071289 7.032858849 1030.84947 79.82940674
05 05 2018 17:50 469.949585 5.68969202 525.2598558 84.34825134
05 05 2018 18:00
                 453.6217957 5.337123871 423.3429854 82.56286621
05 05 2018 18:10
                 361.134613 4.829486847 295.1886005 88.88825989
                 380.4934082 5.144378185 372.2767076 104.7192993
05 05 2018 18:20
                 376.5675049 5.135799885 370.0752763 109.2152023
05 05 2018 18:30
                 319.8688049 6.066119194 646.520138 119.7389984
05 05 2018 18:40
                       6.093729973 656.0652992 115.9797974
05 05 2018 18:50
                 0
05 05 2018 19:00
                 95.69139099 4.171764851 155.5669909 103.2587967
05 05 2018 19:10
                 71.06655121 3.665086985 72.67003928 110.5307999
05 05 2018 19:20
                 215.6802979 4.676476002 260.3173447 112.5400009
05 05 2018 19:30 484.4385071 5.928208828 601.0354816 126.5814972
05 05 2018 19:40
                 1114.491943 7.570913792 1294.692817 143.3668976
05 05 2018 19:50
                 2002.35498 9.423903465 2420.046878 159.9597931
05 05 2018 20:00
                 2229.079102 9.900951385 2728.962478 168.4653015
05 05 2018 20:10 2036.796021 9.572035789 2495.968503 172.9355927
                 1969.744995 9.064243317 2185.485833 186.5178986
05 05 2018 20:20
                 2562.687012 11.16090965 3326.344158 194.0323944
05 05 2018 20:30
                 2167.897949 10.08030033 2841.028267 192.385498
05 05 2018 20:40
                 1569.031006 8.571430206 1872.221607 196.8350067
05 05 2018 20:50
                 874.4011841 7.16794014 1093.41659 204.2664948
05 05 2018 21:00
05 05 2018 21:10
                 703.6273804 6.728168011 898.1759569 205.6851959
05 05 2018 21:20
                 501.72229
                             6.203020096 694.6469903 214.0009003
05 05 2018 21:30
                 206.2154999 5.06487608 352.098897 214.6325073
05 05 2018 21:40 54.41556168 3.874130964 105.1005863 207.6988068
05 05 2018 21:50 0
                       2.448081017 0
                                         207.9087067
05 05 2018 22:00 0
                       2.335798025 0
                                         219.1477966
05 05 2018 22:10 0
                       2.928658009 0
                                         213.5834961
05 05 2018 22:20 0
                       3.265060902 30.10253138 184.9465942
05 05 2018 22:30 0
                       3.37826705 39.55142247 170.5193024
05 05 2018 22:40 0
                       3,383333921 40,02227711 164,7268982
                                         181.4548035
05 05 2018 22:50 0
                       2.59480691 0
05 05 2018 23:00 0
                       2.744570017 0
                                         180.4219055
05 05 2018 23:10
                 0
                       3.260185957 29.7416892 183.4028931
05 05 2018 23:20
                 53.89736938 4.099792004 141.7523683 172.1652985
                 284.6435852 5.260039806 402.5461743 180.3636932
05 05 2018 23:30
05 05 2018 23:40 270.6711121 5.163981915 377.3298747 186.2810974
05 05 2018 23:50
                 146.4355011 4.452690125 212.0523813 186.6696014
06 05 2018 00:00 58.16165924 3.880985975 106.2824543 196.5003052
06 05 2018 00:10 23.83427048 3.439121962 45.47815054 202.0005951
06 05 2018 00:20
                 290.1633911 5.56264782 487.203515 189.0290985
06 05 2018 00:30
                 312.1099854 5.337514877 423.4497787 186.8099976
06 05 2018 00:40
                 521.6370239 6.177405834 685.4899748 176.8955994
06 05 2018 00:50
                 478.90979
                             5.940899849 605.2320166 170.7904053
06 05 2018 01:00
                 599.2105713 6.400547028 767.6345692 155.8574982
06 05 2018 01:10
                 678.371582 6.585505009 839.8451592 157.3175049
06 05 2018 01:20
                 941.8521118 6.980666161 1007.309101 178.2588043
06 05 2018 01:30
                 1661.151001 8.163379669 1624.899259 198.7277985
06 05 2018 01:40
                 2349.48291 9.798218727 2660.120943 205.3482056
06 05 2018 01:50
                 1471.948975 8.221197128 1659.096336 200.6652069
06 05 2018 02:00
                 1265.047974 7.970253944 1513.00861 194.8932037
06 05 2018 02:10
                 1254.819946 7.876759052 1460.231279 188.7330933
06 05 2018 02:20 929.1633301 7.210995197 1113.87095 196.5088043
06 05 2018 02:30 671.5571289 6.41626215 773.6231687 196.604599
06 05 2018 02:40 565.3076782 6.153206825 676.9034297 196.0126953
06 05 2018 02:50 498.0205994 6.063104153 645.4827582 197.5393066
06 05 2018 03:00 481.4713135 5.823489189 567.0516816 193.7893066
```

```
440.7438965 6.055337906 642.8151131 183.6148071
06 05 2018 03:10
06 05 2018 03:20
                  400.0739136 5.917039871 597.3563341 174.2207031
06 05 2018 03:30
                  60.53905869 3.548099995 57.57228816 170.3717041
06 05 2018 03:40
                  2.09700489 2.218087912 0
                                                  176.125
06 05 2018 03:50
                         1.877280951 0
                                            178.6100006
06 05 2018 04:00
                  0
                         2.262912989 0
                                            182.6903992
06 05 2018 04:10
                  0
                         2.340879917 0
                                            205.8314056
06 05 2018 04:20
                  0
                         1.738896966 0
                                            207.9790039
06 05 2018 04:30
                  0
                         1.632277966 0
                                            183.1990967
06 05 2018 04:40
                  0
                         2.110385895 0
                                            192.5252991
06 05 2018 04:50
                         2.249875069 0
                  0
                                           157.2308044
06 05 2018 05:00
                  0
                         2.630908012 0
                                            138.8491058
06 05 2018 05:10
                         3.382349968 39.93051881 169.5213928
                         2.179457903 0
06 05 2018 05:20
                  0
                                           154.3061066
06 05 2018 05:30
                         1.533069015 0
                                           155.9776001
                  0
06 05 2018 05:40
                  0
                         1.918519974 0
                                            180.0563049
06 05 2018 05:50
                  0
                         2.506473064 0
                                           184.8294067
06 05 2018 06:00
                  0
                         1.816283941 0
                                           160.548996
06 05 2018 06:10
                  0
                         1.892277956 0
                                           152.572998
06 05 2018 06:20
                  0
                         1.793409944 0
                                           153.6963043
06 05 2018 06:30
                  0
                         2.139693022 0
                                            221.0375061
06 05 2018 06:40
                  25.60486984 3.45106101 46.71043514 201.1907959
06 05 2018 06:50
                  27.61455917 3.393853903 41.01299663 199.3374023
06 05 2018 07:00
                  10.74771023 3.109786987 20.4774382 198.337204
06 05 2018 07:10
                         2.517136097 0
                                            194.0850983
06 05 2018 07:20
                         2.237464905 0
                                           196.3871002
06 05 2018 07:30
                         1.315896988 0
                                            227.9326019
                  0
06 05 2018 07:40
                         0.733972073 0
                                            20.25926018
                  0
06 05 2018 07:50
                  0
                         1.007488966 0
                                            339.5653992
06 05 2018 08:00
                  0
                         1.180016041 0
                                            275.7909851
06 05 2018 08:10
                  0
                         1.212502956 0
                                            237.2330933
06 05 2018 08:20
                  0
                         1.427801013 0
                                            237.0180969
06 05 2018 08:30
                         1.758666992 0
                                            240.7527008
                  0
06 05 2018 08:40
                         2.19867897
                                           236.6419983
                  0
06 05 2018 08:50
                         2.053966999 0
                                            241.3079987
                  0
06 05 2018 09:00
                  0
                         1.767063975 0
                                            237.1631927
06 05 2018 09:10
                  0
                         0.84360981
                                            257.6879883
06 05 2018 09:20
                  0
                                            341.5043945
                         1.277830005 0
06 05 2018 09:30
                         2,243629932 0
                                            334.322113
06 05 2018 09:40
                         2.751914978 0
                                            346.1693115
06 05 2018 09:50
                         2.724802017 0
                                           11.34689999
                  0
06 05 2018 10:00
                  0
                         1.856217027 0
                                           12.8886404
06 05 2018 10:10
                         1.306478024 0
                                           4.435254097
                  0
06 05 2018 10:20
                  0
                         1.332888007 0
                                           16.07759094
06 05 2018 10:30
                  0
                         1.723461986 0
                                            3.563565016
06 05 2018 10:40
                         2.252106905 0
                                            29.77005959
06 05 2018 10:50
                  0
                         1.200742006 0
                                            30.62475014
06 05 2018 11:00
                  0
                         1.686378956 0
                                           31.82188034
06 05 2018 11:10
                  0
                         2.200428009 0
                                            12.4538002
06 05 2018 11:20
                  0
                         1.844776034 0
                                           12.47181988
06 05 2018 11:30
                  0
                         1.262989998 0
                                            31.66091919
06 05 2018 11:40
                         1.590752959 0
                                            69.97396088
06 05 2018 11:50
                         1.299654961 0
                                            48.02851105
06 05 2018 12:00
                         1.593310952 0
                                           88.71935272
                  0
06 05 2018 12:10
                                            75.77040863
                  0
                         1.666707039 0
06 05 2018 12:20
                  0
                         1.499794006 0
                                            30.88017082
06 05 2018 12:30
                  0
                         1.406903982 0
                                           41.77228165
06 05 2018 12:40
                  0
                         1.203884959 0
                                            264.7703857
06 05 2018 12:50
                         0.827070892 0
                                            192.408905
```

```
06 05 2018 13:00 0
                       1.355705976 0
                                         190.829895
06 05 2018 13:10 0
                       2.803934097 0
                                         168.5610046
06 05 2018 13:20 0
                                         154,4223022
                       2.868005991 0
06 05 2018 13:30 0
                       1.582502007 0
                                         169.0988007
06 05 2018 13:40 0
                       2.311846018 0
                                         219.1707001
06 05 2018 13:50 0
                       1.917979956 0
                                         215.3666992
                       3.459424019 47.58720293 244.6461945
06 05 2018 14:00 0
                             3.603602886 64.4622079 240.0827026
06 05 2018 14:10
                 39.96875
06 05 2018 14:20
                 205.9965973 4.800533772 288.4669712 226.3928986
                 330.9202881 5.543613911 481.6341625 207.3336029
06 05 2018 14:30
06 05 2018 14:40
                 468.5737
                             5.980439186 618.4163381 195.0214996
06 05 2018 14:50
                 662.7537231 6.460709095 790.7072828 194.9223022
06 05 2018 15:00
                 1294.682007 7.908504963 1478.044617 201.8278961
06 05 2018 15:10
                 1251.213989 7.763082981 1397.384361 200.2640991
06 05 2018 15:20 1006.155029 7.391674042 1202.535445 199.3069
06 05 2018 15:30 516.4373779 5.798173904 559.0061844 197.7492981
06 05 2018 15:40
                 204.4129944 4.538825989 230.263386 197.1172943
06 05 2018 15:50 0.034533329 1.934950948 0
                                               210.3267059
06 05 2018 16:00 24.24374008 3.503334999 52.37440967 222.9042969
                 113.0437012 4.214853764 163.9595052 225.241394
06 05 2018 16:10
06 05 2018 16:20 45.65406036 3.591747999 62.94919154 244.2342987
06 05 2018 16:30 0.178466007 2.650577068 0
                                               251.1804962
06 05 2018 16:40 0
                       2.399204016 0
                                         260.3210144
06 05 2018 16:50 0
                       2.21645093 0
                                         244.5061035
06 05 2018 17:00 0
                       2.938961983 0
                                         238.7328033
06 05 2018 17:10 0
                       2.985332012 0
                                         257.8302917
06 05 2018 17:20 0
                       2.56871891 0
                                         286.0523987
06 05 2018 17:30 0
                       2.012686968 0
                                         258.2901001
06 05 2018 17:40 6.136538029 3.700032949 77.60474481 230.933197
06 05 2018 17:50 200.9674988 4.770936012 281.6559921 224.4076996
06 05 2018 18:00 331.3016968 5.473092079 461.2925602 220.7765961
06 05 2018 18:10 572.5490723 6.30735302 732.6734892 214.9039001
06 05 2018 18:20 986.3272095 7.20299387 1110.050588 214.8363037
06 05 2018 18:30
                 1639.204956 8.595511436 1887.21088 213.2566986
                 2084.173096 9.733178139 2614.72183 211.8925018
06 05 2018 18:40
                 2227.516113 10.2362299 2930.449557 208.978302
06 05 2018 18:50
06 05 2018 19:00
                 2450.618896 10.56130981 3094.520917 208.1320953
                 2287.592041 10.31274986 2971.722215 206.9963074
06 05 2018 19:10
06 05 2018 19:20 1725.784058 8.858922005 2053.471339 208.3072052
06 05 2018 19:30 1948.36499 9.336443901 2362.741242 209.3462982
06 05 2018 19:40 2216.864014 9.813792229 2670.780701 214.3619995
06 05 2018 19:50 2487.639893 10.56429958 3095.896698 215.4859009
06 05 2018 20:00 2265.080078 10.05708027 2827.085266 215.1578064
06 05 2018 20:10 2328.912109 10.37833977 3005.774604 213.4326019
06 05 2018 20:20
                 1977.420044 9.492948532 2465.358563 213.3925934
                 2158.689941 9.826652527 2679.522539 215.563797
06 05 2018 20:30
06 05 2018 20:40 2506.695068 10.65616989 3137.040384 216.8350983
06 05 2018 20:50 2596.738037 10.68418026 3149.154293 216.5068054
06 05 2018 21:00 2361.947021 10.19388008 2906.877639 218.3175964
06 05 2018 21:10 2290.437988 9.788266182 2653.266221 217.9416962
06 05 2018 21:20
                 2244.909912 9.700592041 2591.43602 218.0995941
06 05 2018 21:30 2405.582031 10.47924995 3055.836652 219.8820953
06 05 2018 21:40
                 2072.745117 9.811161041 2668.985374 221.847702
06 05 2018 21:50
                 1973.166016 8.90550518 2083.261296 220.5039063
06 05 2018 22:00 2026.642944 9.195671082 2270.818452 218.9389038
06 05 2018 22:10 1852.801025 8.326601028 1722.203305 217.608902
06 05 2018 22:20 1706.732056 8.348799706 1735.614209 215.3701019
06 05 2018 22:30 1953.44397 8.988482475 2136.568661 213.0077972
06 05 2018 22:40 2231.404053 9.718180656 2604.049903 211.4123993
```

```
06 05 2018 22:50 2309.074951 10.05383015 2825.120442 211.6481018
                 2193.095947 9.504433632 2443.405355 209.2899017
06 05 2018 23:00
                 2275.769043 9.80109787 2662.097752 206.3025055
06 05 2018 23:10
06 05 2018 23:20 2496.868896 10.07071972 2835.295415 204.3591003
06 05 2018 23:30
                 2733.808105 10.63014984 3125.608302 204.8397064
06 05 2018 23:40
                 2493.958008 10.20948982 2915.627187 207.0583038
06 05 2018 23:50
                 2276.925049 9.537282944 2469.153577 204.135498
                 2200.340088 9.53477478 2467.201437 204.5585938
07 05 2018 00:00
                 2095.066895 9.340559959 2365.43535 206.3423004
07 05 2018 00:10
07 05 2018 00:20
                 2020.597046 9.310868263 2346.008251 207.7812958
07 05 2018 00:30
                 2159.209961 9.5735569
                                         2497.132257 205.3701019
07 05 2018 00:40 2129.177002 9.213813782 2282.638597 204.7805939
07 05 2018 00:50
                 2041.165039 9.143803596 2237.07748 203.2769012
07 05 2018 01:00
                 2014.592041 8.972317696 2126.160729 202.8840942
07 05 2018 01:10
                 1867.911987 8.787067413 2007.731233 203.6188965
07 05 2018 01:20
                 1646.109009 8.536218643 1850.374936 203.253006
07 05 2018 01:30
                 1319.21106 7.894180775 1469.993166 204.7458038
07 05 2018 01:40
                 1167.060059 7.590957165 1305.184652 205.9680939
07 05 2018 01:50 823.3046875 6.806330204 931.1371435 206.1436005
07 05 2018 02:00 485.5090027 5.671237946 519.6351908 210.8390961
                 143.1851044 4.225419044 166.0316478 223.7960052
07 05 2018 02:10
07 05 2018 02:20 432.3369141 5.618282795 503.6784723 230.8269958
07 05 2018 02:30
                 1330.36499 8.188528061 1639.735985 221.1450043
07 05 2018 02:40
                 1834.654053 9.268989563 2318.637792 214.2658997
07 05 2018 02:50 2189.906982 9.915074348 2738.156968 213.4868011
07 05 2018 03:00 2676.366943 10.9827404 3266.314089 206.9790955
07 05 2018 03:10 2525.458008 10.29948044 2964.685367 203.2626038
07 05 2018 03:20 2339.201904 9.914540291 2737.81045 201.1587067
07 05 2018 03:30 1857.973999 9.060456276 2183.035498 200.8721924
07 05 2018 03:40
                 2108.325928 9.366941452 2382.710122 202.8099976
07 05 2018 03:50
                 1449.666016 8.03909874 1552.465848 205.8294067
07 05 2018 04:00
                 1069.819946 7.501646042 1258.844044 199.9577942
07 05 2018 04:10
                 1035.555054 7.128065109 1074.696409 201.8592987
07 05 2018 04:20
                 1791.175049 8.392254829 1761.982653 198.3435974
                 2104.961914 8.98530674 2134.523068 201.649704
07 05 2018 04:30
07 05 2018 04:40
                 1776.296021 8.510288239 1834.341752 210.6165924
07 05 2018 04:50
                 798.9431152 6.527497768 816.789013 211.168396
07 05 2018 05:00
                 910.8391724 6.843434811 947.038563 206.9485016
07 05 2018 05:10
                 986.7581787 6.986629963 1009.981435 207.7395935
07 05 2018 05:20
                 164.4662018 4.365765095 194.1143844 219.7888947
07 05 2018 05:30
                       2.573112011 0
                                         247.2346039
07 05 2018 05:40
                 0
                       2.859106064 0
                                         244.1430054
07 05 2018 05:50
                       3.345571995 36.61190412 245.3807983
07 05 2018 06:00
                 44.78440857 3.699934959 77.59063449 241.4747009
07 05 2018 06:10
                 107.9428024 3.989490032 125.9909229 239.5733948
                  1178.534058 7.550673008 1284.151244 206.313797
07 05 2018 06:20
07 05 2018 06:30
                 28.62668991 2.103077888 0
                                               153.9380035
07 05 2018 06:40
                 0
                       2.063710928 0
                                         214.3164063
07 05 2018 06:50
                 0
                       1.661568046 0
                                         224.2335052
07 05 2018 07:00
                 0
                       1.791993976 0
                                         230.4570007
07 05 2018 07:10
                 0
                       1.399880052 0
                                         238.3197021
07 05 2018 07:20
                 0
                       1.35264802 0
                                         211.4570007
07 05 2018 07:30
                       2.082319021 0
                                         229.3450928
07 05 2018 07:40
                                         251.1239929
                 0
                       2.996680021 0
07 05 2018 07:50
                       3.232165098 27.74133377 267.5704956
                 0
07 05 2018 08:00
                 3.923068047 3.170196056 23.76360961 285.9923096
07 05 2018 08:10
                 0.411933005 3.10335207 20.16179826 304.4338989
07 05 2018 08:20 0
                       3.277225971 31.01957021 353.1913147
07 05 2018 08:30 0
                       2.953716993 0
                                         354.6836853
```

```
07 05 2018 08:40 5.070263863 3.699486017 77.52600761 346.5582886
                  34.07838058 3.249228954 28.94453227 340.1199951
07 05 2018 08:50
07 05 2018 09:00
                        1.741379023 0
                                          354.7150879
                  0
07 05 2018 09:10
                 0
                        1.94393599 0
                                          352,2900085
07 05 2018 09:20
                 5.446401119 3.793982983 91.84017358 287.0134888
07 05 2018 09:30
                  108.7356033 4.173782825 155.9579649 278.6008911
07 05 2018 09:40
                  0.259532899 2.110738039 0
                                                266.8497009
07 05 2018 09:50
                  0
                        2.278562069 0
                                          245.1296997
07 05 2018 10:00
                  0
                        2.626327991 0
                                          249.9411926
07 05 2018 10:10
                  4.461393833 3.579823017 61.44991504 224.6235962
07 05 2018 10:20
                                          251.3695984
                  0
                        1.158521056 0
07 05 2018 10:30
                  0
                        1.959954023 0
                                          295.7843018
07 05 2018 10:40
                        1.861549973 0
                                          306.7992859
07 05 2018 10:50
                  0
                        2.370419979 0
                                          296.5533142
07 05 2018 11:00
                        2.615206003 0
                                          271.4819946
                  0
07 05 2018 11:10
                  0
                        2.425017118 0
                                          299.9032898
07 05 2018 11:20
                 0
                        1.786466956 0
                                          303.1369934
07 05 2018 11:30
                 0
                        2.588097095 0
                                          263.8237915
07 05 2018 11:40
                  0
                        2.574517012 0
                                          259.2391968
07 05 2018 11:50
                  0
                        2.517575979 0
                                          279.6373901
07 05 2018 12:00
                                          282.0346985
                        1.632035017 0
                  0
07 05 2018 12:10
                  0
                        1.701326966 0
                                          320.064209
07 05 2018 12:20
                  0
                        2.490469933 0
                                          317.3843079
                                          311.2376099
07 05 2018 12:30
                  0
                        2.431304932 0
07 05 2018 12:40
                        3.375674009 39.3120452 318.6094971
07 05 2018 12:50
                        2.638701916 0
                                          327.7880859
07 05 2018 13:00
                        2.818856955 0
                                          338.5022888
07 05 2018 13:10
                        5.124532223 367.1926602 346.3695068
                  0
                        5.096495152 360.0638847 345.9041138
07 05 2018 13:20
                  0
                        7.17314291 1095.87491 352.9914856
07 05 2018 13:30
                  0
07 05 2018 13:40
                        8.319778442 1718.089766 0.638752699
                  0
07 05 2018 13:50
                  0
                        8.045856476 1556.365197 16.12166023
07 05 2018 14:00
                        7.098065853 1060.752229 14.19398022
07 05 2018 14:10
                  0
                        6.477878094 797.3647808 6.407324791
07 05 2018 14:20
                        6.170118809 682.8977229 10.8783102
                  0
07 05 2018 14:30
                  0
                        6.352125168 749.3517342 9.210680008
07 05 2018 14:40
                  0
                        5.633562088 508.2547275 21.63545036
07 05 2018 14:50
                  0
                        4.512320995 224.6122025 11.53246021
07 05 2018 15:00
                        3.962285042 120.8725215 9.814484596
07 05 2018 15:10
                 80.4955368 4.204541206 161.9424057 19.80327034
07 05 2018 15:20
                 428.9298096 5.515786171 473.5525577 31.19375992
                676.8621826 6.639667988 861.7161951 31.05344963
07 05 2018 15:30
07 05 2018 15:40
                 599.5120239 6.434981823 780.7920161 33.7844696
07 05 2018 15:50
                  207.9268951 4.67792511 260.6402071 40.96044922
07 05 2018 16:00
                  27.78005981 3.5785079
                                          61.28596406 39.54141998
07 05 2018 16:10
                  16.60272026 3.127170086 21.36322121 33.51535034
07 05 2018 16:20
                  0
                        2.330159903 0
                                          14.42354965
07 05 2018 16:30
                  0
                        2.3348701
                                          10.14568043
                                    0
07 05 2018 16:40
                  0
                        3.025780916 16.87816177 351.9454956
07 05 2018 16:50
                  28.53473091 3.789947987 91.19976129 340.4937134
07 05 2018 17:00
                  156.7221985 4.689679146 263.2641219 320.8839111
07 05 2018 17:10
                 51.28715134 3.694109917 76.75460345 310.2854919
07 05 2018 17:20
                  270.2471008 5.211390972 389.6798354 300.3088989
07 05 2018 17:30
                 326.7598877 5.232947826 395.3566699 306.3045044
07 05 2018 17:40 844.3510132 6.93344593 986.3077612 312.5491028
07 05 2018 17:50
                 772.1046143 6.689673901 882.2061422 309.9437866
07 05 2018 18:00
                 483.5999146 5.73228693 538.3703159 306.0473022
07 05 2018 18:10 524.5266724 5.849279881 575.3157267 308.1924133
07 05 2018 18:20 420.7273865 5.553822994 484.6171355 307.1086121
```

```
07 05 2018 18:30 359.0228882 5.303265095 414.1454488 308.2361145
07 05 2018 18:40
                 411.0531921 5.533199787 478.6013086 307.2950134
                 405.1845093 5.580657005 492.5043851 314.3120117
07 05 2018 18:50
07 05 2018 19:00
                 385.2720032 5.484270096 464.4862744 310.9092102
07 05 2018 19:10 519.4404297 5.832654953 569.980817 309.0158081
07 05 2018 19:20
                 557.2407837 6.009297848 627.1330944 304.8656006
07 05 2018 19:30
                 429.3829041 5.559253216 486.2077594 317.7831116
                 461.9206848 5.718646049 534.1522158 337.9779053
07 05 2018 19:40
07 05 2018 19:50
                 716.12677
                             6.623167038 855.0177891 342.6383057
                 813.3239136 6.566417217 832.2166233 314.9255981
07 05 2018 20:00
07 05 2018 20:10
                 557.0750732 5.830749989 569.3713318 300.4754028
07 05 2018 20:20
                 321.8062134 5.077035904 355.1527193 319.221405
07 05 2018 20:30
                 724.7858887 6.335179806 743.0138148 311.9328918
07 05 2018 20:40 605.7747192 5.859640121 578.6547234 300.7261047
07 05 2018 20:50 925.5319824 6.837224007 944.3653527 295.3554077
07 05 2018 21:00
                 1099.249023 7.358391762 1185.850611 295.629303
07 05 2018 21:10
                 1521.567993 8.307805061 1710.880071 310.1249084
07 05 2018 21:20
                 1078.708984 7.484691143 1250.042491 305.2752991
07 05 2018 21:30 635.0800781 6.394608974 765.3787679 304.9794006
                 718.3717041 6.550767899 825.9928597 307.1986084
07 05 2018 21:40
                 592.2891846 6.099802017 658.1753556 310.6491089
07 05 2018 21:50
                 789.5230713 6.57449913 835.4415922 309.5093994
07 05 2018 22:00
07 05 2018 22:10
                 905.7124023 6.908740044 975.4303563 312.6148987
07 05 2018 22:20
                 794.2003174 6.690228939 882.4351858 317.6781006
07 05 2018 22:30
                 996.0009766 7.21632719 1116.421676 329.2318115
07 05 2018 22:40 986.9511108 7.188919067 1103.351605 332.2688904
07 05 2018 22:50 950.6259766 7.117054939 1069.564854 329.3143921
07 05 2018 23:00 634.1196289 6.133791924 670.0597161 329.1559143
                 1206.297974 7.666051865 1344.954291 337.0292053
07 05 2018 23:10
                 960.0291138 7.18823719 1103.027748 341.9891968
07 05 2018 23:20
07 05 2018 23:30
                 777.2736206 6.683887005 879.8202286 337.9451904
07 05 2018 23:40
                 517.5681763 5.998785973 624.5909399 336.8194885
07 05 2018 23:50
                 622.0109253 6.445220947 784.7294421 339.8785095
08 05 2018 00:00
                 776.5145264 6.802506924 929.5080228 346.3594971
08 05 2018 00:10
                 742.8242798 6.558726788 829.1546894 353.4356079
08 05 2018 00:20
                 714.2506104 6.394611835 765.3798538 353.8839111
08 05 2018 00:30
                 654.552124 6.361060143 752.7061503 350.4143982
08 05 2018 00:40
                 994.0919189 7.142218113 1081.316457 351.3559875
08 05 2018 00:50
                 1277.787964 7.798254013 1416.66888 353.6101074
08 05 2018 01:00
                 1532.735962 7.863780022 1452.980815 345.9588928
08 05 2018 01:10
                 1445.06897 7.977024078 1516.866884 345.3590088
08 05 2018 01:20 1400.167969 7.88626194 1465.551829 344.7901917
08 05 2018 01:30
                 2062.1521 9.176870346 2258.579138 345.3013916
08 05 2018 01:40
                 2897.291016 10.99300003 3269.964932 346.4914856
08 05 2018 01:50
                 2746.498047 10.80708981 3199.992614 346.7677917
08 05 2018 02:00
                 2701.481934 10.69320011 3153.012961 347.8945923
08 05 2018 02:10
                 2128.450928 9.764332771 2636.646258 350.3033142
08 05 2018 02:20
                 1429.651978 8.105109215 1590.750675 349.5945129
08 05 2018 02:30
                 1680.421997 8.508757591 1833.396817 347.3606873
08 05 2018 02:40
                 1454.444946 7.986917019 1522.513522 342.5328064
08 05 2018 02:50
                 1605.369019 8.42043972 1779.165145 351.780304
08 05 2018 03:00
                 1629.754028 8.603542328 1892.218219 355.2666016
08 05 2018 03:10
                 841.0631104 6.740705967 903.4147889 355.041687
08 05 2018 03:20
                 562.2827759 6.008273125 626.7866348 349.3135986
08 05 2018 03:30
                 389.3548889 5.452877045 455.545734 340.9854126
08 05 2018 03:40
                 301.214386 4.981842041 331.5512897 352.3641052
08 05 2018 03:50
                 155.3166046 4.296569824 180.1370373 357.2481079
08 05 2018 04:00 137.7651978 4.120556831 145.7123969 341.2947083
08 05 2018 04:10 26.01518059 3.190793037 25.01753585 323.5180969
```

```
08 05 2018 04:20 88.70567322 3.790235043 91.24523516 326.8864136
                 139.3441925 4.088724136 139.6499641 319.7377014
08 05 2018 04:30
                 265.6958008 4.727324009 271.7294711 324.1393127
08 05 2018 04:40
08 05 2018 04:50 805.593811 6.788825035 923.6923619 338.4892883
08 05 2018 05:00 605.7216187 6.189466953 689.7930314 335.8203125
08 05 2018 05:10
                 882.5936279 6.76256609 912.5928788 334.4274902
08 05 2018 05:20
                 738.005127 6.269406796 718.7076051 335.5918884
08 05 2018 05:30
                 571.2606201 6.039608955 637.4320864 339.473114
08 05 2018 05:40
                 567.6708984 6.021418095 631.2394785 343.0484009
                 774.1057129 6.727790833 898.0186424 345.3161926
08 05 2018 05:50
08 05 2018 06:00
                 683.4616699 6.364109993 753.8531274 337.4684143
08 05 2018 06:10
                 767.4525146 6.622607231 854.791085 333.1690979
08 05 2018 06:20
                 728.8015747 6.570584774 833.8787079 333.7025146
08 05 2018 06:30
                 768.9771118 6.645508766 864.0946536 333.3392029
08 05 2018 06:40 739.4619141 6.500507832 806.1895586 331.4201965
08 05 2018 06:50 498.9252014 5.864418983 580.1986427 333.1362915
08 05 2018 07:00 462.4041138 5.881855965 585.8521577 338.3765869
08 05 2018 07:10 457.5497131 5.714962006 533.0161804 332.9695129
08 05 2018 07:20 262.3934021 4.819255829 292.8066923 330.8016968
08 05 2018 07:30 278.9624939 5.018270016 340.5006532 331.4480896
08 05 2018 07:40 448.6471863 5.772328854 550.8594507 344.8252869
08 05 2018 07:50 524.5338135 6.005665779 625.9055959 348.0874023
08 05 2018 08:00
                 342.7484131 5.408455849 443.0470089 329.0223083
08 05 2018 08:10
                 165.9062958 4.332781792 187.4191878 317.0056152
08 05 2018 08:20 90.95477295 3.983752012 124.9015061 323.2499084
08 05 2018 08:30 69.248909
                            3.796889067 92.3030249 320.7717896
08 05 2018 08:40 58.48176956 3.534897089 56.00589851 313.5674133
08 05 2018 08:50 61.9388504 3.595186949 63.38578268 319.7309875
08 05 2018 09:00 95.35475159 3.941862106 117.1079256 332.4732056
08 05 2018 09:10 92.10933685 3.776405096 89.06935293 328.7756042
08 05 2018 09:20 82.22464752 3.766467094 87.52469157 314.7207031
08 05 2018 09:30
                 77.75862885 3.890491962 107.9338176 314.3139954
08 05 2018 09:40 81.74445343 3.540230989 56.63535342 315.8420105
08 05 2018 09:50 86.15656281 3.64330101 69.6925275 313.0563049
                 124.4503021 4.063239098 134.8306812 312.2958069
08 05 2018 10:00
08 05 2018 10:10
                 50.23295975 3.227900028 27.44787473 308.3581848
08 05 2018 10:20
                 95.97923279 3.918546915 112.8917761 303.7810059
                 58.46828842 3.456130028 47.24052907 298.7302856
08 05 2018 10:30
08 05 2018 10:40
                 18.31965065 2.852227926 0
                                               312.645813
08 05 2018 10:50 4.291072845 2.645155907 0
                                               309.115509
08 05 2018 11:00 111.1626968 3.804892063 93.58464469 306.6720886
08 05 2018 11:10 66.5629425 3.55944705 58.94078575 308.6586914
08 05 2018 11:20
                 172.8278961 4.373835087 195.761675 320.1382141
08 05 2018 11:30
                 238.9481964 4.845108986 298.8398862 316.7825928
08 05 2018 11:40
                 298.2090149 4.943189144 322.1647275 314.0704956
08 05 2018 11:50
                 79.51257324 3.649214029 70.49315741 317.3001099
08 05 2018 12:00
                 266.1664124 4.847921848 299.4991612 307.760498
08 05 2018 12:10 614.9840088 6.034246922 635.6030439 309.2172852
08 05 2018 12:20
                 390.6585083 5.481831074 463.7884384 321.9975891
08 05 2018 12:30
                 369.0172119 5.085233212 357.2179373 336.9462891
08 05 2018 12:40
                 172.8616943 4.235406876 167.9957927 333.0198975
08 05 2018 12:50
                 112.1548996 3.815116882 95.23698278 343.9663086
08 05 2018 13:00
                 152.3442993 3.857024908 102.1841325 351.2385864
08 05 2018 13:10
                 13.52820015 2.826514959 0
                                               356,4984131
08 05 2018 13:20
                 0.097532913 2.779423952 0
                                               331.0701904
08 05 2018 13:30
                 145.6286926 4.171811104 155.57595
                                                     329.824707
08 05 2018 13:40 39.36606979 3.432431936 44.79761232 327.4967041
08 05 2018 13:50 0 2.326965094 0 325.3692017
08 05 2018 14:00 0
                       3.241015911 28.35960271 311.1767883
```

```
08 05 2018 14:10 73.68282318 3.679956913 74.7459335 321.2980042
                 1.651131034 2.86789608 0
08 05 2018 14:20
                                               316.6960144
08 05 2018 14:30
                 29.57603073 3.244793892 28.6273285 327.1242981
08 05 2018 14:40 287.336792 4.983863831 332.045351 325.5358887
08 05 2018 14:50 342.4784851 5.313024998 416.7865348 325.5262146
08 05 2018 15:00 256.1030884 4.853118896 300.7187196 323.4596863
                 204.0312042 4.464909077 214.6088488 324.1178894
08 05 2018 15:10
                 367.0905151 5.314200878 417.1052874 322.583313
08 05 2018 15:20
08 05 2018 15:30
                 357.229187 5.311718941 416.4326341 322.3179932
                 393.0031128 5.754511833 545.2824769 331.9606018
08 05 2018 15:40
08 05 2018 15:50
                 499.7821045 5.90598917 593.7290748 337.6936951
08 05 2018 16:00
                 381.1651001 5.547587872 482.7941477 339.4819946
08 05 2018 16:10 342.4460144 5.312107086 416.5377941 331.5006104
08 05 2018 16:20 287.3229065 5.201163769 387.0000505 338.5125122
08 05 2018 16:30 210.5178986 4.729413986 272.2022302 344.8965149
08 05 2018 16:40 129.7597046 4.191154003 159.3319297 329.0364075
08 05 2018 16:50
                 173.5455017 4.371362209 195.2565113 324.4509888
08 05 2018 17:00 182.407196 4.442437172 209.9139833 317.6322937
08 05 2018 17:10 178.3865967 4.50333786 222.7065466 318.2742004
08 05 2018 17:20 229.8840027 4.815921783 292.0320746 316.4619141
08 05 2018 17:30
                 138.0657043 4.307332993 182.2940934 314.7705994
                 278.9064026 5.062178135 351.4229012 314.6123962
08 05 2018 17:40
08 05 2018 17:50
                 463.4450073 5.958545208 611.0952153 321.1671143
08 05 2018 18:00
                 398.730896 5.589614868 495.152478 316.6740112
08 05 2018 18:10
                 228.0888977 4.830529213 295.4316902 308.1315918
08 05 2018 18:20
                 193.8325958 4.706975937 267.1419895 308.0329895
08 05 2018 18:30
                 180.2286987 4.591430187 241.6072445 303.8212891
08 05 2018 18:40 161.3712006 4.562294006 235.3029428 303.9710083
                 147.938797 4.374895096 195.9783203 301.5235901
08 05 2018 18:50
                 271.7922058 5.07150507 353.7622688 299.5604858
08 05 2018 19:00
08 05 2018 19:10 434.9151001 5.713525772 532.5736579 302.1328125
08 05 2018 19:20
                 473.2013855 5.846094131 574.2912213 300.612793
08 05 2018 19:30
                 393.5548096 5.684135914 523.5628909 311.182312
08 05 2018 19:40
                 336.5505066 5.369684219 432.2816443 317.1264038
                 136.0894928 4.283761978 177.5782765 311.4789124
08 05 2018 19:50
08 05 2018 20:00
                 74.47888184 4.000572205 123.1062461 296.781311
08 05 2018 20:10
                 116.9264984 4.246960163 170.2742051 292.1341858
08 05 2018 20:20
                 70.04621887 3.871907949 104.7189322 281.8551025
08 05 2018 20:30
                 278.196991 4.917006969 315.8696624 284.1205139
08 05 2018 20:40 543.0953979 5.998284817 624.4217943 285.6792908
08 05 2018 20:50 476.7282104 5.967227936 613.9924937 280.7467957
08 05 2018 21:00 515.9752808 5.955314159 610.0191237 284.8387146
08 05 2018 21:10 507.5877075 5.744771957 542.2472125 286.8304138
08 05 2018 21:20 560.0858154 6.012316227 628.1542632 281.8765869
08 05 2018 21:30 629.8881226 6.199480057 693.3772522 288.100708
08 05 2018 21:40
                 798.9321289 6.738439083 902.4662365 288.9468079
08 05 2018 21:50
                 678.3936768 6.217202187 699.7472818 288.1341858
                 672.3167725 6.306179047 732.2390862 280.550415
08 05 2018 22:00
08 05 2018 22:10
                 1156.609985 7.342280865 1177.832186 276.1531067
08 05 2018 22:20
                 990.0944824 7.227767944 1121.907936 274.0888062
08 05 2018 22:30
                 772.5452881 6.519329071 813.5724545 277.9067993
08 05 2018 22:40
                 475.7687988 5.770400047 550.2541676 281.3782043
08 05 2018 22:50
                 483.8579102 5.957799911 610.8468977 289.4501953
08 05 2018 23:00
                 729.9572144 6.623338223 855.0871205 292.3403015
08 05 2018 23:10
                 629.1851807 6.139321804 672.0048831 283.7167053
08 05 2018 23:20 849.1038208 6.688150883 881.5778328 280.4977112
08 05 2018 23:30
                 1147.238037 7.157616138 1088.549296 278.0924988
08 05 2018 23:40 1061.241943 7.187047958 1102.463075 276.9161987
08 05 2018 23:50 697.065918 6.255568981 713.6532821 275.8056946
```

```
09 05 2018 00:00 785.2163696 6.730508804 899.1526329 280.2094116
09 05 2018 00:10
                 342.1200867 5.372982025 433.1921521 274.728302
09 05 2018 00:20
                 256.1325989 5.1014328
                                         361.3148131 263.4060974
09 05 2018 00:30 418.081604 5.625551224 505.8526219 262.3474121
09 05 2018 00:40 425.755188 5.743240833 541.7709262 271.5945129
09 05 2018 00:50
                 337.564209 5.361815929 430.1131046 277.5201111
                 293.5665894 5.087550163 357.802625 277.3041077
09 05 2018 01:00
                 279.2666016 5.046573162 347.5240445 275.6192932
09 05 2018 01:10
09 05 2018 01:20
                 164.4104004 4.489315987 219.7416735 274.7831116
                 98.73751831 4.126063824 146.7660772 262.207489
09 05 2018 01:30
09 05 2018 01:40
                 115.0787964 4.271015167 175.0403548 242.5966949
09 05 2018 01:50
                 190.6105042 4.773271084 282.1911376 232.8139038
09 05 2018 02:00
                 149.3766937 4.231732845 167.2726847 249.1815033
09 05 2018 02:10 9.892883301 2.895191908 0
                                               235.7433929
09 05 2018 02:20 0
                       3.121068954 21.04682188 249.6701965
09 05 2018 02:30 283.1478882 5.121614933 366.4479841 261.2533875
09 05 2018 02:40
                 303.4483032 5.099588871 360.8474371 270.2880859
09 05 2018 02:50
                 243.2698059 4.871832848 305.1261888 260.009491
                 77.61283875 3.911750078 111.6790589 265.6296082
09 05 2018 03:00
                 68.54727173 3.946485043 117.9542362 258.5047913
09 05 2018 03:10
                 206.1974945 4.804663181 289.4220521 232.4398041
09 05 2018 03:20
                 409.0333862 5.672699928 520.0795788 234.7346039
09 05 2018 03:30
09 05 2018 03:40
                 698.4368286 6.684394836 880.0294506 232.4468994
09 05 2018 03:50
                 752.3875732 6.661180019 870.4955407 230.5585022
09 05 2018 04:00 519.0891113 5.970047951 614.9352184 239.0028076
09 05 2018 04:10 167.1092987 4.332357883 187.3335292 257.2424927
09 05 2018 04:20 286.7854919 5.068762779 353.073746 272.0250854
09 05 2018 04:30 154.2353058 4.489860058 219.856496 269.0513916
                 124.7615967 4.309298038 182.688582 251.2375946
09 05 2018 04:40
09 05 2018 04:50 438.2474976 5.886219978 587.2720338 237.4855042
09 05 2018 05:00 591.4862061 6.086401939 653.5240279 241.6098938
09 05 2018 05:10 815.4108276 6.893434048 968.7292561 239.3285065
09 05 2018 05:20
                 859.1085815 6.861288071 954.7487956 243.7713928
09 05 2018 05:30 885.5263062 6.886240005 965.5895708 241.2064056
09 05 2018 05:40 845.1499023 6.543621063 823.1596851 243.0765076
09 05 2018 05:50
                 959.7106934 6.923665047 981.9924444 258.5898132
09 05 2018 06:00
                 823.7145996 6.626681805 856.4419739 255.009903
09 05 2018 06:10
                 802.9658813 6.671833992 874.8632306 261.9002991
09 05 2018 06:20 592.0776978 6.292860985 727.3214503 260.791687
09 05 2018 06:30 519.4766846 5.945890903 606.8870853 263.0929871
09 05 2018 06:40 596.0241699 6.266260147 717.5564677 264.0188904
09 05 2018 06:50 399.4811096 5.488002777 465.5552972 264.1828003
09 05 2018 07:00
                 252.0912018 4.759016991 278.9302471 267.2926941
09 05 2018 07:10
                 136.7758026 4.267291069 174.300496 260.5040894
09 05 2018 07:20
                 246.3509979 4.899179935 311.6122576 264.8186035
09 05 2018 07:30
                 423.5492859 5.623825073 505.3358328 269.7879028
09 05 2018 07:40
                 439.2294922 5.63979578 510.128211 271.1332092
09 05 2018 07:50
                 408.2226868 5.566971779 488.4734519 267.4269104
09 05 2018 08:00
                 313.7445068 5.19264698 384.775019 267.308197
09 05 2018 08:10
                 147.5578003 4.267227173 174.2878082 272.2518005
09 05 2018 08:20
                 261.5497131 4.900215149 311.8588503 272.9475098
09 05 2018 08:30
                 287.7702942 5.135921001 370.106317 269.4085999
09 05 2018 08:40
                 277.5971069 5.001355171 336.3325904 262.8887024
09 05 2018 08:50
                 291.5350952 5.132487774 369.2268795 259.1057129
09 05 2018 09:00
                 313.3197021 5.158967018 376.0342444 261.9702148
09 05 2018 09:10
                 312.7835999 5.153155804 374.5354307 263.5463867
09 05 2018 09:20 267.9067078 4.959957123 326.2229837 258.0328064
09 05 2018 09:30 234.045105 4.782740116 284.3650715 256.2634888
09 05 2018 09:40 329.3930969 5.282817841 408.638737 261.8268127
```

```
09 05 2018 09:50 258.7384949 4.88848877 309.0701278 259.3742981
                 221.2274933 4.682301998 261.6162193 260.7293091
09 05 2018 10:00
                 363.8248901 5.450468063 454.8633685 258.3163147
09 05 2018 10:10
09 05 2018 10:20
                 209.6322937 4.663559914 257.4457088 248.0948029
09 05 2018 10:30
                 75.74643707 3.670645952 73.44194993 239.8412018
09 05 2018 10:40
                 177.0366974 4.331398964 187.1397977 244.3072968
09 05 2018 10:50
                 374.9749146 5.462018013 458.1397759 239.8215027
                 395.9368896 5.517779827 474.1291557 242.8497925
09 05 2018 11:00
                 355.3417053 5.37076807 432.5807847 237.2843933
09 05 2018 11:10
                 321.2056885 4.968730927 328.3548192 244.2416992
09 05 2018 11:20
09 05 2018 11:30
                 310.2095947 5.134918213 369.8493501 244.8825989
09 05 2018 11:40
                 114.0045013 4.0284729 128.3044082 254.5695038
09 05 2018 11:50
                 33.08393097 2.967241049 0
                                               257.2164001
09 05 2018 12:00
                 129.1744995 4.1453228
                                         150.4624837 252.2866974
09 05 2018 12:10
                 134.683197 4.211425781 163.2884054 248.7449036
09 05 2018 12:20
                 72.33925629 3.642791986 69.6238666 247.6168976
09 05 2018 12:30
                 119.6810989 4.088094234 139.5304836 246.7185059
09 05 2018 12:40
                 58.13526917 3.542099953 56.85698718 246.5088959
09 05 2018 12:50
                 71.13816071 3.780138969 89.65379195 242.759201
09 05 2018 13:00
                 80.0802536 3.725224018 81.28315869 241.0966949
                 114.0197983 3.892740965 108.3266253 243.1320038
09 05 2018 13:10
09 05 2018 13:20
                 125.549202 4.027998924 128.215812 246.1318054
09 05 2018 13:30
                 180.9815063 4.508676052 223.8383887 249.3937988
09 05 2018 13:40
                 115.6340027 4.143152237 150.044986 252.2601013
09 05 2018 13:50
                 162.2476044 4.268798828 174.5999514 248.8522949
09 05 2018 14:00
                 324.7023926 5.136740208 370.3163005 250.0805969
09 05 2018 14:10
                 365.4758911 5.208383083 388.8907956 253.5431976
09 05 2018 14:20
                 363.0296936 5.197133064 385.9462751 262.1506958
                 381.65979 5.559029102 486.1420572 263.9284973
09 05 2018 14:30
                 449.2124939 5.872303009 582.7509313 269.8088074
09 05 2018 14:40
09 05 2018 14:50
                 493.6596069 5.992269993 622.393839 270.7286987
09 05 2018 15:00
                 459.5215149 5.80148983 560.0563099 279.3876953
09 05 2018 15:10
                 410.361908 5.596714973 497.2567941 277.7434998
09 05 2018 15:20
                 439.0125122 5.839182854 572.0722177 277.5584106
                 480.9381104 5.988202095 621.0245186 272.8161926
09 05 2018 15:30
09 05 2018 15:40
                 497.0499878 5.985850811 620.2338507 274.6064148
09 05 2018 15:50
                 554.9337158 6.242003918 708.7185717 277.8865051
09 05 2018 16:00
                 699.9116211 6.558577061 829.0951418 278.6112976
09 05 2018 16:10
                655.5914917 6.318531036 736.8171302 281.1784973
09 05 2018 16:20
                 551.3950195 6.117986202 664.5179863 279.807312
09 05 2018 16:30
                491.1914978 5.96481514 613.1865767 283.3086853
09 05 2018 16:40 358.8403931 5.452557087 455.4550729 286.1737976
09 05 2018 16:50
                 253.6448975 4.967330933 328.0142658 281.8848877
09 05 2018 17:00
                 228.1734009 4.835609913 296.6176563 291.3981934
09 05 2018 17:10
                 273.0069885 5.036365986 344.9840274 293.0371094
09 05 2018 17:20
                 106.9113007 4.233182907 167.557997 286.4447021
09 05 2018 17:30
                 64.24478912 3.979305029 124.0608281 284.7958984
                 59.32472992 3.853652
                                         101.614603 286.6441956
09 05 2018 17:40
                 5.463072777 3.441628933 45.73501501 297.6286011
09 05 2018 17:50
09 05 2018 18:00
                 17.35460091 3.311671972 33.74465658 300.0361938
09 05 2018 18:10
                 1.032667994 2.915311098 0
                                               311.2986145
09 05 2018 18:20
                 0
                       1.580688953 0
                                          300.482605
09 05 2018 18:30
                        3.360044956 37.89202824 281.6665955
09 05 2018 18:40
                 204.3829956 4.772696018 282.0593108 280.558197
09 05 2018 18:50
                 156.3191071 4.617053986 247.1956811 272.4725037
09 05 2018 19:00
                 83.68900299 4.078606129 137.7330123 263.4448853
09 05 2018 19:10
                 195.8885956 4.84644413 299.1527454 251.021698
09 05 2018 19:20 217.3269958 4.923422813 317.4075717 257.7107849
09 05 2018 19:30 133.7792969 4.333337784 187.5315513 258.1958923
```

```
09 05 2018 19:40 43.20981979 3.632458925 68.23902898 254.9456024
                 145.6271973 4.396374226 200.3818444 253.4403992
09 05 2018 19:50
09 05 2018 20:00
                 323.9989929 5.401618004 441.1387351 253.4951019
09 05 2018 20:10 431.8835144 5.878275871 584.6888203 248.9042969
09 05 2018 20:20
                 555.9447021 6.192457199 690.8622741 248.1389008
09 05 2018 20:30
                 638.5009155 6.427371979 777.8731304 250.2097931
09 05 2018 20:40
                 559.5911255 6.184677124 688.082295 246.2292023
                 572.8994751 6.259061813 714.9271107 240.7631989
09 05 2018 20:50
09 05 2018 21:00
                 609.5109253 6.478480816 797.5990857 237.2682037
09 05 2018 21:10
                 635.4318848 6.6208601
                                         854.0837813 233.069397
09 05 2018 21:20
                 937.6519775 7.300117016 1157.024504 233.2675934
09 05 2018 21:30
                 955.5728149 7.15395689 1086.827573 238.3303986
09 05 2018 21:40
                 1035.42395 7.345396996 1179.380149 240.6614075
09 05 2018 21:50
                 1078.192017 7.573203087 1295.888501 243.8829956
09 05 2018 22:00
                 1065.734985 7.54843998 1282.991585 242.7922974
09 05 2018 22:10 968.3948975 7.295887947 1154.951516 245.6694031
09 05 2018 22:20 847.3713989 6.848331928 949.1496282 251.8399963
09 05 2018 22:30
                 211.4414978 4.720918179 270.2822824 309.9653015
                 63.95983887 3.783009052 90.10454375 331.5343018
09 05 2018 22:40
                                               8.306292534
09 05 2018 22:50
                 6.381873131 2.889944077 0
09 05 2018 23:00
                 0
                        2.460268974 0
                                         285.0862122
09 05 2018 23:10
                 0
                        2.913980961 0
                                         268.2289124
09 05 2018 23:20
                 169.9064026 4.772037029 281.9082735 253.4163971
09 05 2018 23:30
                 234.7263947 4.881358147 307.3792235 257.9385071
09 05 2018 23:40 245.1383972 4.945743084 322.7814924 264.0494995
09 05 2018 23:50 174.8388062 4.61318779 246.349813 265.3847961
10 05 2018 00:00
                 123.514801 4.290311813 178.8857152 261.4512024
10 05 2018 00:10 86.96578979 3.895704985 108.8455531 263.6845093
10 05 2018 00:20 332.5934143 5.35321188 427.7479917 270.350708
10 05 2018 00:30 487.1162109 5.890685081 588.7268574 273.1105042
                 302.9454956 5.121840954 366.5056546 266.6723022
10 05 2018 00:40
10 05 2018 00:50
                 344.2441101 5.253555775 400.8198717 267.2463989
10 05 2018 01:00
                 351,3561096 5,40894413 443,1834354 278,2142029
10 05 2018 01:10
                 319.8080139 5.311878204 416.4757817 276.4910889
                 168.5780029 4.343200207 189.5275171 257.9508972
10 05 2018 01:20
10 05 2018 01:30
                 164.5986023 4.358222008 192.577929 254.7543945
10 05 2018 01:40
                 119.9717026 4.134925842 148.4647521 254.4226074
                 170.3220062 4.519373894 226.1117978 257.4713135
10 05 2018 01:50
10 05 2018 02:00
                 132.2019043 4.2202878 165.0245577 249.0276947
                 121.2627029 4.204963207 162.0248419 250.9210968
10 05 2018 02:10
10 05 2018 02:20
                 57.22872925 3.712136984 79.35951019 244.7346039
10 05 2018 02:30 93.06749725 3.889940023 107.8375404 239.2447968
10 05 2018 02:40
                 140.3838959 4.317550182 184.3474988 241.1313934
10 05 2018 02:50
                 90.5581131 4.079071045 137.8209905 252.8215942
10 05 2018 03:00
                 29.41090965 3.69810605 77.32755823 271.3749084
10 05 2018 03:10
                 98.8480835 4.113729
                                         144.4080086 257.9761047
10 05 2018 03:20
                 120.6981964 4.266355038 174.1146513 249.9819031
10 05 2018 03:30
                 138.8509979 4.301269054 181.0780497 254.8838043
                 197.3860931 4.475846767 216.9047035 269.7110901
10 05 2018 03:40
10 05 2018 03:50
                 577.8547974 6.108773232 661.300093 261.2318115
10 05 2018 04:00
                 676.8411865 6.465136051 792.4207781 265.1784058
10 05 2018 04:10 845.4453125 6.959887028 998.0331252 268.247406
10 05 2018 04:20
                 643.9091797 6.063416004 645.5900114 259.5748901
10 05 2018 04:30
                 352.2001953 5.190590858 384.2387462 253.6685944
10 05 2018 04:40
                 199.5505981 4.377065182 196.42204
                                                     270.4303894
10 05 2018 04:50 64.32105255 3.813877106 95.03574284 247.5041046
10 05 2018 05:00
                 145.593399 4.289610863 178.7456866 223.8760071
10 05 2018 05:10 100.7781982 4.020617008 126.8372755 237.7565002
10 05 2018 05:20 9.828061104 3.395859957 41.20392704 278.0765991
```

```
10 05 2018 05:30
                  0
                         3.956310987 119.764408 251.6233063
10 05 2018 05:40
                         4.175209045 156.2344106 256.3063049
                  0
10 05 2018 05:50
                  29.51926041 3.571758986 60.44895454 241.1582031
10 05 2018 06:00
                  172.9492035 4.569599152 236.8786093 240.3757019
10 05 2018 06:10
                  253.7272034 4.887497902 308.8349406 245.3278961
10 05 2018 06:20
                  249.6324005 4.901328087 312.1240443 234.3943939
10 05 2018 06:30
                  230.8912048 4.726506233 271.5445677 220.4044037
                  153.5919037 4.156424046 152.6013476 225.6515045
10 05 2018 06:40
10 05 2018 06:50
                  146.4759064 4.142385006 149.8974675 228.8964996
                  69.86018372 3.733666897 82.53870994 228.6327057
10 05 2018 07:00
10 05 2018 07:10
                  74.65213776 3.715410948 79.83817627 233.0386963
10 05 2018 07:20
                  14.91526985 3.280519962 31.27195473 219.4228058
10 05 2018 07:30
                  6.064400196 2.949472904 0
                                                  219.3186035
10 05 2018 07:40
                         1.841366053 0
                                           238.4458008
10 05 2018 07:50
                  0
                         3.380647898 39.77215849 261.9768982
10 05 2018 08:00
                  0
                         3.214167118 26.52275214 260.2662048
10 05 2018 08:10
                  0
                         3.668343067 73.12157458 267.2102051
10 05 2018 08:20
                  0
                         3.094882965 19.75647705 276.2036133
                  0
                         3.087116957 19.39489175 266.1216125
10 05 2018 08:30
10 05 2018 08:40
                  0
                         2.341172934 0
                                           270.5777893
10 05 2018 08:50
                         2.726191998 0
                                           283.3800049
                  0
10 05 2018 09:00
                  0
                         2.28579402
                                     0
                                           292.3747864
10 05 2018 09:10
                  0
                         2.242208958 0
                                           260.3594971
                                           274.9083862
10 05 2018 09:20
                  0
                         1.599117994 0
10 05 2018 09:30
                         2.532011032 0
                                           265.0321045
10 05 2018 09:40
                         2.790083885 0
                                           253.4488983
10 05 2018 09:50
                         2.927489996 0
                                           265.9089966
10 05 2018 10:00
                         2.665649891 0
                                           264.9562988
                  0
10 05 2018 10:10
                  0
                         3.264941931 30.09367992 258.8700867
                         3.958734035 120.2131652 267.2385864
10 05 2018 10:20
                  0
10 05 2018 10:30
                         3.247631073 28.8298862 278.1429138
                  0
10 05 2018 10:40
                  0
                         3.014091015 16.46679701 295.9200134
10 05 2018 10:50
                         2.134802103 0
                                           327.0432129
10 05 2018 11:00
                         1.658200026 0
                                           332.341095
                  0
10 05 2018 11:10
                         2.182276964 0
                                           321.9873047
                  0
10 05 2018 11:20
                  0
                         1.883371949 0
                                           309.0278931
10 05 2018 11:30
                  0
                         1.925178051 0
                                           348.3113098
10 05 2018 11:40
                  0
                         2.082851887 0
                                           354.3920898
10 05 2018 11:50
                         1.951104999 0
                                           339.1048889
10 05 2018 12:00
                         1.441220045 0
                                           309,5187988
10 05 2018 12:10
                         1.95580101
                                           276.7879944
                  0
                                     0
10 05 2018 12:20
                                           284.3127136
                  0
                         1.538933992 0
10 05 2018 12:30
                         1.789250016 0
                                           325.6853943
                  0
                                           346.4039917
10 05 2018 12:40
                  0
                         1.801730037 0
10 05 2018 12:50
                  0
                         1.366114974 0
                                           334.6478882
10 05 2018 13:00
                  0
                         2.025166988 0
                                           334.4057007
10 05 2018 13:10
                  0
                         1.982651949 0
                                           342.7052917
10 05 2018 13:20
                  0
                         1.683374047 0
                                           3.674999952
10 05 2018 13:30
                  0
                         1.468778968 0
                                           13.50510979
10 05 2018 13:40
                  0
                         1.747411966 0
                                           337.2445068
10 05 2018 13:50
                  0
                         2.053188086 0
                                           328.1116943
10 05 2018 14:00
                         2.339865923 0
                                           322.7370911
10 05 2018 14:10
                         2.107218027 0
                                           288.0396118
10 05 2018 14:20
                         2.40791297
                                           352.3765869
                  0
10 05 2018 14:30
                                           14.56254959
                  0
                         1.937716007 0
10 05 2018 14:40
                  0
                         2.217183113 0
                                           53.93981934
10 05 2018 14:50
                  0
                         2.355720043 0
                                           26.9199791
10 05 2018 15:00
                  0
                         2.907995939 0
                                           20.32501984
10 05 2018 15:10
                         2.633639097 0
                                           29.31080055
```

```
3.178109884 24.23736677 49.87284088
10 05 2018 15:20
                  0
10 05 2018 15:30
                  0
                         3.536981106 56.25129203 60.635849
10 05 2018 15:40
                         3.034919977 17.21499165 67.60964966
                  0
10 05 2018 15:50
                  0
                         2.831186056 0
                                           47,26287079
10 05 2018 16:00
                  0
                         2.617304087 0
                                           28.93161011
10 05 2018 16:10
                         3.084815979 19.28961135 58.03406143
10 05 2018 16:20
                  0
                         2.93207407 0
                                           56.15082169
10 05 2018 16:30
                  0
                         3.266238928 30.19029903 40.90641022
10 05 2018 16:40
                  0
                         3.339051962 36.04616141 47.28691101
                  35.44149017 4.150908947 151.5380079 48.17760849
10 05 2018 16:50
10 05 2018 17:00
                  166.1047058 4.598227978 243.0857638 42.62525177
10 05 2018 17:10
                  200.3784027 4.777391911 283.1364524 46.43347931
10 05 2018 17:20
                  112.8664017 4.200650215 161.1827404 58.17538071
10 05 2018 17:30
                  141.3769989 4.334677219 187.8023148 69.64304352
10 05 2018 17:40
                  80.03948975 3.957592964 120.0017177 70.49067688
10 05 2018 17:50
                  29.0886097 3.524334908 54.77288466 69.11741638
10 05 2018 18:00
                  0
                         3.716130018 79.94353682 76.98285675
10 05 2018 18:10
                  0
                         2.858993053 0
                                           63.84355164
                  0
10 05 2018 18:20
                         2.438520908 0
                                           48.71340179
10 05 2018 18:30
                  0
                         1.661815047 0
                                           352,2496948
10 05 2018 18:40
                                           13.43741989
                  0
                         2.398339033 0
10 05 2018 18:50
                  0
                         1.408790946 0
                                           10.87388992
10 05 2018 19:00
                  0
                         1.14535296 0
                                           348.0405884
10 05 2018 19:10
                                           8.804391861
                  0
                         0.605569005 0
10 05 2018 19:20
                         1.220973969 0
                                           14.10340023
10 05 2018 19:30
                         1.448732972 0
                                           11.64192009
10 05 2018 19:40
                         2.42701602
                                           3.058248997
10 05 2018 19:50
                         1.823060036 0
                                           2.801852942
                  0
10 05 2018 20:00
                  0
                         1.584133029 0
                                           39.52838898
10 05 2018 20:10
                  0
                         0.633540392 0
                                           120.4456024
10 05 2018 20:20
                  0
                         0.820001423 0
                                           199.4911957
10 05 2018 20:30
                  0
                         0.88010931
                                           276.90271
10 05 2018 20:40
                         1.032305002 0
                                           232.2389984
10 05 2018 20:50
                         1.004866004 0
                                           198.6179047
                  0
10 05 2018 21:00
                  0
                         1.139991999 0
                                           179.1105957
10 05 2018 21:10
                  0
                         0.901046813 0
                                           28.24324989
10 05 2018 21:20
                  0
                         0.746228993 0
                                           44.86235809
                         1.504093051 0
10 05 2018 21:30
                                           23.17007065
10 05 2018 21:40
                         1.903429031 0
                                           330.1636047
10 05 2018 21:50
                         2,258569002 0
                                           303.8731079
10 05 2018 22:00
                         2.430032015 0
                                           298.0205078
                  0
10 05 2018 22:10
                  0
                         2.284384012 0
                                           316.9743958
10 05 2018 22:20
                                           324.9548035
                  0
                         2.713021994 0
10 05 2018 22:30
                  0
                         3.521104097 54.39928954 320.9206848
10 05 2018 22:40
                  0
                         3.00149107 16.0478921 324.0080872
10 05 2018 22:50
                         1.956681013 0
                                           325.4289856
10 05 2018 23:00
                  0
                         1.967787981 0
                                           340.2712097
                                           323.7228088
10 05 2018 23:10
                  0
                         1.900454998 0
10 05 2018 23:20
                  0
                         2.583372116 0
                                           339.8768921
10 05 2018 23:30
                  0
                         2.523807049 0
                                           333.6983948
10 05 2018 23:40
                  0
                         2.751224041 0
                                           322.0083008
10 05 2018 23:50
                         2.930717945 0
                                           324.485199
11 05 2018 00:00
                         2.96193099
                                           333.9573975
11 05 2018 00:10
                         2.488600969 0
                                           332,0430908
                  0
11 05 2018 00:20
                                     38.43853678 328.6617126
                  0
                         3.36611104
11 05 2018 00:30
                  0
                         2.640352964 0
                                           320.5043945
11 05 2018 00:40
                  0
                         2.363718033 0
                                           321.6647949
11 05 2018 00:50
                  0
                         2.337327957 0
                                           330.0523071
11 05 2018 01:00
                         2.295243979 0
                                           331.1088867
```

```
11 05 2018 01:10 0
                        2.782166958 0
                                         330.4204102
11 05 2018 01:20
                 0
                        2.955158949 0
                                         325.6326904
11 05 2018 01:30
                       2.793113947 0
                 0
                                         324.6624146
11 05 2018 01:40 0
                       3.252402067 29.17341043 336.9917908
11 05 2018 01:50
                        3.382572889 39.95129371 324.1126099
                 0
11 05 2018 02:00
                       2.58001399 0
                                         311.1224976
11 05 2018 02:10
                 0
                       2.928006887 0
                                         318.7597046
11 05 2018 02:20
                 0
                       2.581901073 0
                                         330.3471069
11 05 2018 02:30
                 0
                       3.180414915 24.37724061 308.5911865
11 05 2018 02:40
                       3.338934898 36.03606598 326.1687927
                 0
11 05 2018 02:50
                       2.522979021 0
                 0
                                         323.1919861
11 05 2018 03:00
                 0
                       2.461985111 0
                                         336.1655884
11 05 2018 03:10
                       3.080915928 19.11310068 336.0744934
11 05 2018 03:20
                 0
                       2.994581938 0
                                         332.6863098
11 05 2018 03:30
                        3.945610046 117.7937903 331.5588074
                 0
11 05 2018 03:40
                 0
                       3.192540884 25.12706765 327.0653992
11 05 2018 03:50
                 0
                       3,160650015 23,20547466 344,5566101
11 05 2018 04:00 0
                        3.826313019 97.065473
                                               345.2521057
11 05 2018 04:10 0
                        3.228517056 27.49014935 334.3728943
11 05 2018 04:20 47.72074127 4.1796422
                                         157.0943383 327.1642151
11 05 2018 04:30
                 210.9723969 4.776556015 282.944604 342.2421875
11 05 2018 04:40
                 226.7846985 4.925289154 317.8555108 340.2745056
                 91.15270996 3.84572506 100.283272 337.3819885
11 05 2018 04:50
11 05 2018 05:00 53.08945847 3.672669888 73.72421861 334.394104
11 05 2018 05:10 154.2886963 4.391197205 199.3181022 343.1069946
11 05 2018 05:20 193.2189026 4.795403004 287.2819423 337.9921875
11 05 2018 05:30 93.55886078 4.122869968 146.1548039 337.252594
                           4.698414803 265.2201383 340.4154968
11 05 2018 05:40 212.1819
11 05 2018 05:50 250.9795074 4.967841148 328.1383606 337.961792
11 05 2018 06:00 278.8052979 5.106182098 362.5198468 341.1594849
11 05 2018 06:10 357.416687 5.246193886 398.8641358 337.7887878
11 05 2018 06:20 265.1051025 4.95085001 324.0162453 331.1441956
11 05 2018 06:30 227.1181946 4.645054817 253.350416 339.5237122
11 05 2018 06:40 117.4143982 4.177752972 156.727753 327.8461914
11 05 2018 06:50 57.91865921 3.726030111 81.40254136 327.8554993
                 107.1183014 4.055146217 133.3065764 329.5757141
11 05 2018 07:00
                 132.5520935 4.232206821 167.3659317 327.6852112
11 05 2018 07:10
                 262.3883972 4.928305149 318.5799197 326.1495972
11 05 2018 07:20
11 05 2018 07:30 121.1680984 3.894867897 108.698857 327.0563965
11 05 2018 07:40 250.2420044 4.695615768 264.5928514 320.2066956
11 05 2018 07:50 404.3543091 5.393404007 438.8519031 334.6957092
11 05 2018 08:00 740.5048218 6.430544853 779.0893681 336.6990967
11 05 2018 08:10 747.3342285 6.473125935 795.5188124 329.6541138
11 05 2018 08:20
                 1019.408997 6.914571762 977.9911191 330.2438049
11 05 2018 08:30
                 1546.084961 8.340766907 1730.756664 356.0386047
11 05 2018 08:40
                 1063.109009 7.381917
                                         1197.627241 354.0586853
11 05 2018 08:50
                 818.9210815 6.690165043 882.4088164 345.1474915
                 1008.984985 7.157104015 1088.308227 357.5242004
11 05 2018 09:00
                 853.1917725 6.753626823 908.8328897 349.4862976
11 05 2018 09:10
11 05 2018 09:20
                 959.6887207 7.016831875 1023.583917 354.256897
11 05 2018 09:30
                 722.2714844 6.256741047 714.0805858 353.7933044
11 05 2018 09:40 970.9744263 6.970952988 1002.966304 351.3190002
11 05 2018 09:50
                 846.9713745 6.846977234 948.5653523 6.129901886
11 05 2018 10:00
                 718.2651978 6.383844852 761.2994064 6.063819885
11 05 2018 10:10
                 1227.025024 7.528242111 1272.532598 359.8806152
11 05 2018 10:20 1209.953979 7.56504488 1291.63067 354.6445923
11 05 2018 10:30 875.4517212 6.746759892 905.9509397 1.802443027
11 05 2018 10:40 565.229126 6.03600502 636.20241
                                                     358.3326111
11 05 2018 10:50 695.4179077 6.546904087 824.4604431 357.3504028
```

```
11 05 2018 11:00 652.4069214 6.101700783 658.8359917 356.7045898
11 05 2018 11:10 803.6575928 6.814976215 934.8276946 356.9153137
11 05 2018 11:20
                 367.819397 5.251893044 400.3777577 344.999115
11 05 2018 11:30 385.4880066 5.348764896 426.5281233 323.4265137
11 05 2018 11:40 384.6158142 5.381866932 435.6499934 327.7001953
11 05 2018 11:50
                 545.56073
                             5.881305218 585.6731078 321.7250061
11 05 2018 12:00
                 336.0372009 5.27600193 406.8110395 341.6462097
11 05 2018 12:10
                        4.874613762 305.7832876 357.7294006
11 05 2018 12:20
                 10.71712971 5.045832157 347.3393768 352.6375122
11 05 2018 12:30
                 533.8707275 6.025094986 632.4883284 355.2719116
11 05 2018 12:40
                 592.6901855 6.134094238 670.1659725 353.4150085
11 05 2018 12:50
                829.2047119 6.715779781 893.0177225 1.635954976
11 05 2018 13:00
                541.6552124 6.008303165 626.79679
                                                     0.132400602
11 05 2018 13:10
                400.4285889 5.204195976 387.7936644 358.1158142
11 05 2018 13:20 387.6124878 5.471010208 460.6990002 12.49660969
11 05 2018 13:30 673.2321167 6.405797005 769.6321865 7.098117828
11 05 2018 13:40 428.9067078 5.5957551 496.9720286 6.945580006
11 05 2018 13:50 237.3274994 4.772478104 282.0093625 9.086960793
11 05 2018 14:00
                 322.0672913 5.18422699 382.5811352 0.384489805
                 306.8229065 5.240840912 397.4449371 5.638930798
11 05 2018 14:10
11 05 2018 14:20
                 288.0086975 5.134458065 369.7314632 8.951244354
11 05 2018 14:30
                 593.8439941 6.021444798 631.2485428 0.942971528
11 05 2018 14:40
                 563.1442871 6.029861927 634.1095636 10.81408024
11 05 2018 14:50
                 589.354126 6.262334824 716.1219617 8.540827751
11 05 2018 15:00 391.8641052 5.487896919 465.5249624 9.759647369
11 05 2018 15:10
                340.9259033 5.354680061 428.151113 13.34195995
11 05 2018 15:20 326.6473999 5.204402924 387.847856 18.41268921
11 05 2018 15:30 236.6396027 4.931628227 319.378863 16.22940063
11 05 2018 15:40 189.3930054 4.538258076 230.1418512 8.906821251
11 05 2018 15:50 289.6214905 5.030938148 343.6366071 8.002432823
11 05 2018 16:00 240.8291016 4.828529835 294.9654837 12.62489986
11 05 2018 16:10 348.5838013 5.273132801 406.042857 7.396706104
11 05 2018 16:20
                 475.6498108 5.822247028 566.6553821 3.266370058
11 05 2018 16:30
                 391.9059143 5.515651226 473.5135427 0.576061428
11 05 2018 16:40 595.0679932 6.212985039 698.2284199 353.0252991
11 05 2018 16:50
                 588.4370117 6.21780777 699.9655472 353.9549866
11 05 2018 17:00
                 359.0259094 5.572319031 490.046362 356.8340149
11 05 2018 17:10 403.0108948 5.594329834 496.5493567 352.4353943
11 05 2018 17:20
                518.3850708 6.107606888 660.8933609 355.4212952
11 05 2018 17:30
                481.6817932 5.810689926 562.9757585 355.8093872
11 05 2018 17:40 350.7633057 5.189886093 384.0550108 355.1921997
11 05 2018 17:50 249.3618011 4.890386105 309.520668 348.3622131
11 05 2018 18:00 147.4055023 4.371260166 195.2356731 347.7601013
11 05 2018 18:10
                 114.8266983 4.185081959 158.1508595 347.5718994
11 05 2018 18:20
                 204.1293945 4.532156944 228.837438 349.2764893
                 291.2242126 4.958730221 325.9253333 359.6341858
11 05 2018 18:30
                 255.2445984 4.898115158 311.3587041 359.3293152
11 05 2018 18:40
                 259.4223938 4.968947887 328.4076088 1.265246987
11 05 2018 18:50
                 380.8494873 5.54615593 482.3759987 354.8595886
11 05 2018 19:00
11 05 2018 19:10
                 485.6182861 5.91154623 595.5515074 352.2723999
11 05 2018 19:20
                 332.8163147 5.248456001 399.4645977 347.2370911
11 05 2018 19:30
                 455.9447021 5.525363922 476.3259646 351.5085144
11 05 2018 19:40
                 1211.410034 7.337853909 1175.635478 341.5350037
11 05 2018 19:50
                 1223.797974 7.422814846 1218.295066 352.1611938
11 05 2018 20:00 907.4230957 6.622854233 854.8911084 351.056488
11 05 2018 20:10 1224.215942 7.660950184 1342.229786 353.1767883
11 05 2018 20:20
                 1398.238037 8.090913773 1582.481184 359.103302
11 05 2018 20:30 1028.458008 7.217281818 1116.878765 2.79894805
11 05 2018 20:40 786.7816162 6.692827225 883.5078749 2.071145058
```

```
11 05 2018 20:50 640.3831177 6.291862965 726.9537068 7.103796005
11 05 2018 21:00
                 719.3140869 6.430427074 779.044201 9.348208427
11 05 2018 21:10 850.8917847 6.54953289 825.5028643 11.12382984
11 05 2018 21:20 1604.378052 8.244604111 1673.026882 8.111149788
11 05 2018 21:30 2112.290039 9.455349922 2440.677664 12.46767044
11 05 2018 21:40 2484.248047 10.11569977 2861.967926 17.78348923
                 1971.296021 9.167625427 2252.56437 27.9517498
11 05 2018 21:50
                 1847.012939 8.573237419 1873.345154 22.81166077
11 05 2018 22:00
11 05 2018 22:10
                 2532.706055 9.722464561 2607.106092 21.78196907
                 2189.850098 9.30181694 2340.089473 22.13511086
11 05 2018 22:20
11 05 2018 22:30
                 1560.373047 8.076569557 1574.145123 22.52750015
11 05 2018 22:40 2198.743896 9.35873127 2377.332755 23.24467087
11 05 2018 22:50 2581.920898 9.994368553 2788.59555 27.16843033
11 05 2018 23:00 2301.9729
                             9.437619209 2429.043791 25.70770073
11 05 2018 23:10 2279.25293 9.179038048 2259.989807 20.30170059
11 05 2018 23:20 2651.789063 10.07304001 2836.68641 24.63728905
11 05 2018 23:30 2619.684082 10.11273956 2860.23146 25.20760918
11 05 2018 23:40 2525.608887 9.82881546 2680.987418 29.7035408
11 05 2018 23:50 2588.986084 9.895007133 2725.073312 29.49235916
12 05 2018 00:00 2701.510986 10.18120956 2899.72277 29.20162964
12 05 2018 00:10 2166.802002 8.933983803 2101.523016 27.18086052
12 05 2018 00:20 2164.513916 9.104020119 2211.253108 29.09357071
12 05 2018 00:30
                 1974.154053 8.735430717 1975.030744 29.70376015
12 05 2018 00:40
                 2618.049072 9.884157181 2717.944942 28.86812973
12 05 2018 00:50
                 1734.444946 8.479587555 1815.421136 37.85548019
12 05 2018 01:00 2127.676025 9.03062439 2163.751726 27.62569046
12 05 2018 01:10 1815.536011 8.3866539 1758.57555 24.83773041
12 05 2018 01:20 2330.368896 9.358773232 2377.360235 27.23620987
12 05 2018 01:30 2032.66394 8.999664307 2143.774494 24.25824928
12 05 2018 01:40 2475.837891 9.67254734 2571.102876 20.25702095
12 05 2018 01:50 2656.429932 10.26589012 2946.647344 22.84638977
12 05 2018 02:00 2734.61499 10.40668011 3020.116478 21.76161957
12 05 2018 02:10 3277.726074 11.76307964 3480.203582 22.39912987
12 05 2018 02:20 2690.355957 10.13158989 2871.243915 31.07900047
12 05 2018 02:30 3002.802979 10.72879982 3168.043111 29.16197014
                 3197.501953 11.18750954 3334.704855 31.7288208
12 05 2018 02:40
                 3591.495117 13.28417969 3600 35.84365845
12 05 2018 02:50
                 3361.236084 12.45242023 3575.401677 34.36354828
12 05 2018 03:00
12 05 2018 03:10 2965.924072 10.86411953 3222.327103 27.66711044
12 05 2018 03:20 3283.965088 11.43400955 3405.082003 29.73838997
12 05 2018 03:30 3328.342041 11.81264019 3489.761302 30.8926506
12 05 2018 03:40 2915.352051 10.80832005 3200.482693 33.28469849
12 05 2018 03:50 2892.228027 10.33670044 2984.296918 39.41120911
12 05 2018 04:00 3225.802979 11.31980991 3374.045664 32.57564926
12 05 2018 04:10 3319.74292 11.65536022 3457.877339 36.22602081
12 05 2018 04:20 3123.495117 11.15019989 3322.934566 37.18202972
12 05 2018 04:30 3089.493896 10.93799019 3250.106106 41.09769058
12 05 2018 04:40 3404.905029 11.97945023 3518.718295 47.54428864
12 05 2018 04:50 3329.330078 11.74209023 3476.021164 52.15446854
12 05 2018 05:00
                 3260.519043 11.72455978 3472.466106 48.24163055
12 05 2018 05:10 3242.061035 11.69995975 3467.381844 53.90721893
12 05 2018 05:20 2513.820068 9.782161713 2649.045412 46.46818924
12 05 2018 05:30 3019.5979
                             10.46232033 3047.631643 35.13660049
12 05 2018 05:40 3483.706055 12.23260021 3553.575535 33.87686157
12 05 2018 05:50
                 3387.25
                             11.76727009 3481.028951 36.88602066
12 05 2018 06:00 3335.018066 11.35925961 3385.067863 31.25581932
12 05 2018 06:10 3346.831055 11.5307703 3429.33125 29.36544037
12 05 2018 06:20 3326.428955 11.30574036 3370.036837 26.02474976
12 05 2018 06:30 2955.550049 10.65857983 3138.090461 28.96641922
```

```
12 05 2018 06:40 2267.093994 9.395608902 2401.494749 36.55398941
12 05 2018 06:50 2142.547119 9.380822182 2391.804004 34.13742065
12 05 2018 07:00
                 1832.904053 8.664259911 1930.210324 39.91662979
12 05 2018 07:10 2369.928955 9.457897186 2442.349321 33.54357147
12 05 2018 07:20 1572.994019 7.889770985 1467.519043 35.008461
12 05 2018 07:30 1897.029053 8.932585716 2100.625654 39.32601929
12 05 2018 07:40 2216.310059 9.383039474 2393.256934 37.22327042
12 05 2018 07:50 3268.74292 11.43813992 3406.155048 35.72510147
12 05 2018 08:00 2744.649902 10.23036003 2927.213696 33.56291962
12 05 2018 08:10 2508.427979 9.62610054 2536.825735 33.41181183
12 05 2018 08:20 2681.25708 10.01988983 2804.407061 34.2630806
12 05 2018 08:30 2608.534912 10.0854702 2844.110156 34.57453156
12 05 2018 08:40 2605.77002 9.944020271 2756.801279 33.48920822
12 05 2018 08:50 2894.685059 10.38420963 3008.763374 31.56637955
12 05 2018 09:00 2844.666992 10.26216984 2944.62961 31.58140945
12 05 2018 09:10 2684.628906 9.923126221 2743.370226 32.71131134
12 05 2018 09:20 2569.356934 9.636360168 2544.462236 25.76810074
12 05 2018 09:30 2559.501953 9.683861732 2579.338846 27.32707024
12 05 2018 09:40 2261.239014 9.337443352 2363.39539 28.1393795
12 05 2018 09:50 2342.066895 9.427071571 2422.124805 25.46023941
12 05 2018 10:00 2278.770996 9.506967545 2445.405508 26.38386917
12 05 2018 10:10 2236.052002 9.524502754 2459.182764 27.35378075
12 05 2018 10:20 2257.299072 9.597528458 2515.362971 29.78590012
12 05 2018 10:30
                 2344.740967 9.578900337 2501.213788 25.8335495
12 05 2018 10:40 2240.253906 9.58740139 2507.686199 26.17522049
12 05 2018 10:50 2050.083984 9.18335247 2262.797889 23.46236038
12 05 2018 11:00 1696.348999 8.429346085 1784.607577 23.80761909
12 05 2018 11:10 1840.567017 8.666528702 1931.634431 22.32224083
12 05 2018 11:20 1540.435059 8.199227333 1646.065894 24.80901909
12 05 2018 11:30 1495.432007 8.099383354 1587.412732 22.32476997
12 05 2018 11:40 1164.573975 7.227343082 1121.703876 21.29260063
12 05 2018 11:50 1476.797974 8.008852959 1535.070505 23.53125954
12 05 2018 12:00 1576.452026 8.368694305 1747.667369 21.13529015
12 05 2018 12:10 1628.604004 8.39779377 1765.354481 24.29297066
12 05 2018 12:20 1314.890991 7.634914875 1328.377004 26.95933914
12 05 2018 12:30
                 1375.426025 7.740806103 1385.245869 25.43906975
12 05 2018 12:40
                 1680.661011 8.392147064 1761.917075 23.23505974
12 05 2018 12:50
                 1827.303955 8.77510643 2000.143534 24.04334068
12 05 2018 13:00 1946.917969 9.107574463 2213.558228 24.36515999
12 05 2018 13:10 1917.745972 9.048130035 2175.063639 25.00999069
12 05 2018 13:20 2009.906982 8.836533546 2039.191371 22.48080063
12 05 2018 13:30 2868.837891 10.77497959 3187.070792 23.86058998
12 05 2018 13:40 2736.881104 10.57258034 3099.694968 25.54795074
12 05 2018 13:50 3011.266113 10.9983902 3271.873334 25.30291939
12 05 2018 14:00
                 2829.888916 10.82201004 3205.911499 26.94672012
12 05 2018 14:10
                 3039.073975 11.35589027 3384.138975 26.89946938
12 05 2018 14:20
                 2482.270996 9.871421814 2709.529025 31.50630951
12 05 2018 14:30 2403.801025 9.391736984 2398.956899 29.17247963
12 05 2018 14:40 2517.789063 9.876126289 2712.64404 31.04372025
12 05 2018 14:50 2038.264038 8.856835365 2052.139374 30.90851974
12 05 2018 15:00
                 2308.27002 9.556186676 2483.79345 35.79888916
12 05 2018 15:10 2176.291992 9.127264977 2226.33573 36.17071915
12 05 2018 15:20 2525.416992 9.892663002 2723.536463 36.25624084
12 05 2018 15:30 2369.625
                             9.736517906 2617.087896 35.60425186
12 05 2018 15:40 2253.101074 9.492015839 2464.746156 37.12623978
12 05 2018 15:50 2284.22998 9.369743347 2384.545517 34.62776184
12 05 2018 16:00 2437.559082 9.994037628 2788.389188 37.31388855
12 05 2018 16:10 1889.383057 8.69271946 1948.096887 39.87802124
12 05 2018 16:20 1652.177979 8.411716461 1773.840531 38.71339035
```

```
12 05 2018 16:30 1722.317993 8.361140251 1743.086964 39.43070984
12 05 2018 16:40
                 2593.11499 10.26152992 2944.282143 42.52939987
12 05 2018 16:50
                 1803.130005 8.560633659 1865.513978 43.42232895
12 05 2018 17:00
                 1254.545044 7.509428978 1262.839896 46.48952103
12 05 2018 17:10 1326.046997 7.557813168 1287.863718 46.56958008
12 05 2018 17:20
                 1456.147949 7.944655895 1498.464418 48.64239883
12 05 2018 17:30
                 1282.338989 7.77072382 1401.561448 50.04312897
                 1361.78894 7.873612881 1458.472
12 05 2018 17:40
                                                     51.5075798
12 05 2018 17:50
                 1356.810059 7.767783165 1399.953032 52.47539902
                 1729.828979 8.677606583 1938.592472 53.14136124
12 05 2018 18:00
12 05 2018 18:10
                 1885.467041 9.095805168 2205.927036 55.59777069
12 05 2018 18:20
                 1902.083008 9.002728462 2145.749984 57.56433105
12 05 2018 18:30 2117.802002 9.538291931 2469.938243 57.27180099
12 05 2018 18:40 2148.939941 9.617844582 2530.653691 58.63034058
12 05 2018 18:50 2161.056885 9.46163559 2444.802795 60.42926025
12 05 2018 19:00 2026.921997 9.193318367 2269.28629 60.76438141
12 05 2018 19:10 2407.648926 9.927276611 2746.049298 62.25022888
12 05 2018 19:20 2331.320068 9.952177048 2762.006742 64.17803955
12 05 2018 19:30 2320.644043 9.850922585 2695.871231 68.30478668
12 05 2018 19:40 2674.072998 10.73888969 3172.245531 73.47712708
12 05 2018 19:50
                            10.74314976 3174.012256 74.67082214
                 2600.2771
                 2663.583984 10.76366997 3182.459482 72.19032288
12 05 2018 20:00
                 2639.995117 10.72404957 3166.055872 72.99347687
12 05 2018 20:10
12 05 2018 20:20
                 2632.961914 10.72387981 3165.984752 73.80203247
12 05 2018 20:30 2431.86792 10.31566048 2973.259036 74.65280151
12 05 2018 20:40 2223.754883 9.78646946 2652.025212 72.38744354
12 05 2018 20:50 2069.968994 9.537595749 2469.396877 72.86403656
12 05 2018 21:00 2111.645996 9.606631279 2522.232203 73.42323303
12 05 2018 21:10 2241.239014 9.939556122 2753.94338 74.85064697
12 05 2018 21:20 2224.371094 9.736371994 2616.984603 74.77636719
12 05 2018 21:30 2447.437988 10.18785
                                       2903.478448 72.28674316
12 05 2018 21:40 2495.486084 10.28351974 2956.154792 71.54138947
12 05 2018 21:50 2449.832031 10.22476006 2924.117256 68.85887146
12 05 2018 22:00 2269.763916 9.805749893 2665.285969 71.69844055
12 05 2018 22:10 2583.452881 10.3399601 2985.995802 68.5597229
12 05 2018 22:20 2381.910889 9.900741577 2728.825401 66.55491638
12 05 2018 22:30
                 2124.445068 9.457640648 2442.180963 65.09089661
12 05 2018 22:40
                 2029.917969 9.321032524 2352.656755 65.88317871
12 05 2018 22:50 2362.843018 9.931930542 2749.046834 64.46234131
12 05 2018 23:00 2624.149902 10.47949028 3055.952571 64.10415649
12 05 2018 23:10 2667.646973 10.55298996 3090.680076 62.32184982
12 05 2018 23:20 2548.634033 10.17984962 2898.952009 61.19866943
12 05 2018 23:30 2827.685059 10.93459988 3248.859244 60.21846008
12 05 2018 23:40 2662.418945 10.61118984 3117.168709 60.82019043
12 05 2018 23:50 2651.51001 10.58650017 3106.039431 59.38653183
13 05 2018 00:00
                 2687.483887 10.65544033 3136.722203 57.21762085
                 2562.014893 10.33403969 2982.907955 58.9254303
13 05 2018 00:10
                 2669.076904 10.70860004 3159.553724 56.38539886
13 05 2018 00:20
13 05 2018 00:30 2628.914063 10.57693958 3101.687288 56.60671997
13 05 2018 00:40
                 2730.667969 10.64008999 3129.996012 57.21350098
13 05 2018 00:50
                 2662.370117 10.60523987 3114.501106 57.29738998
13 05 2018 01:00
                 2366.87207 10.04444027 2819.425596 58.04412842
13 05 2018 01:10
                 2120.25708 9.548422813 2477.796389 59.27281189
13 05 2018 01:20
                 1931.474976 9.193247795 2269.240333 59.7842598
13 05 2018 01:30
                 1667.17395 8.781237602 2004.032006 62.66180038
13 05 2018 01:40 1443.520996 8.334403992 1726.912684 62.68658066
13 05 2018 01:50 1293.437012 7.950829029 1501.965436 62.43125153
13 05 2018 02:00 1493.737061 8.301682472 1707.198056 59.83604813
13 05 2018 02:10 1679.838989 8.570605278 1871.708821 60.28039169
```

```
13 05 2018 02:20 1790.979004 8.673008919 1935.703761 59.84711075
                 2013.073975 9.324136734 2354.687641 55.4317894
13 05 2018 02:30
13 05 2018 02:40
                 1994.895996 9.167984009 2252.797618 57.55796051
13 05 2018 02:50
                 1963.472046 9.164441109 2250.493222 58.09505081
13 05 2018 03:00
                 1835.860962 9.102578163 2210.318069 59.64960861
13 05 2018 03:10
                 1837.781982 9.140369415 2234.846294 57.20983887
13 05 2018 03:20
                 1879.118042 9.072658539 2190.932585 55.58509827
13 05 2018 03:30
                 1702.286011 9.037770271 2168.36791 58.06557846
13 05 2018 03:40
                 1500.842041 8.641403198 1915.881083 59.79436874
                 1429.238037 8.18514061 1637.734089 60.57402039
13 05 2018 03:50
13 05 2018 04:00
                 1412.612061 8.164840698 1625.75961 59.73340988
13 05 2018 04:10
                 1407.463989 8.221728325 1659.411932 60.86859131
13 05 2018 04:20
                 1484.150024 8.328001022 1723.047882 61.50716019
                 1476.452026 8.253985405 1678.623744 61.56592941
13 05 2018 04:30
13 05 2018 04:40
                 1354.686035 7.950878143 1501.993307 61.17155838
13 05 2018 04:50
                 963.3859863 7.17156601 1095.129435 64.99965668
                 525.4445801 5.896161079 590.5138964 60.81072998
13 05 2018 05:00
13 05 2018 05:10 476.1585083 5.736278057 539.6079669 58.62257004
13 05 2018 05:20 298.0534973 4.826836109 294.5707685 58.72148895
                 187.2100983 4.393078804 199.7045461 61.4615097
13 05 2018 05:30
13 05 2018 05:40
                 147.0769043 4.034778118 129.4839478 61.91505814
                 176.9183044 4.309415817 182.7122331 61.95333099
13 05 2018 05:50
13 05 2018 06:00
                 71.56154633 3.470973015 48.81638293 59.46992111
13 05 2018 06:10
                 31.48594093 3.071738005 18.70732346 47.64371109
13 05 2018 06:20
                 13.75030994 3.077786922 18.97324594 44.00614929
13 05 2018 06:30 14.1696701 2.918679953 0
                                               30.77449989
13 05 2018 06:40 43.53525162 3.377721071 39.50093089 45.5890007
13 05 2018 06:50
                 132.084198 3.958157063 120.1062225 41.73347092
13 05 2018 07:00 82.99430084 3.58407402 61.98176556 36.04486084
13 05 2018 07:10 47.26856995 3.289987087 32.00698765 36.83441162
13 05 2018 07:20
                 100.8955994 3.518333912 54.08028872 30.37136078
13 05 2018 07:30
                 122.7014008 3.958616018 120.1912862 30.39184952
13 05 2018 07:40
                 237.2899017 4.522527218 226.783236 33.50642014
13 05 2018 07:50
                 137.6186066 3.741486073 83.71168198 31.83214951
                 226.5830994 4.53474617 229.3907329 38.74066925
13 05 2018 08:00
13 05 2018 08:10
                 162.1327057 3.821254969 96.23693688 32.16738892
13 05 2018 08:20
                 191.1179962 4.058465004 133.9312288 32.18965912
                 286.0766907 4.40458107 202.0712508 28.67267036
13 05 2018 08:30
13 05 2018 08:40
                 270.3669128 4.838699818 297.3398123 40.48648071
13 05 2018 08:50
                 325.4359131 4.964238167 327.2624605 30.08204079
13 05 2018 09:00
                 323.406189 4.939705849 321.3243072 44.08967972
13 05 2018 09:10 277.8895874 4.635651112 251.2778128 46.58126068
13 05 2018 09:20
                 322.4390869 4.866216183 303.800729 35.18180084
13 05 2018 09:30 418.2106018 5.153326988 374.5795431 44.42621994
13 05 2018 09:40
                 302.068512 4.836060047 296.7228172 28.46936035
13 05 2018 09:50
                 308.3078003 4.819776058 292.9276306 30.20134926
                 262.3843994 4.517765999 225.7696604 32.11857986
13 05 2018 10:00
                 380.2778015 5.190327168 384.169996 29.79929924
13 05 2018 10:10
13 05 2018 10:20
                 390.6560059 5.294335842 411.7362936 25.39748001
13 05 2018 10:30
                 488.6296082 5.628942013 506.8686172 22.59654999
                 447.776001 5.41825819 445.7898676 19.10714912
13 05 2018 10:40
13 05 2018 10:50
                 471.0195007 5.550615788 483.678977 21.03601074
13 05 2018 11:00
                 442.5296936 5.422449112 446.9651767 24.67230988
13 05 2018 11:10
                 547.8419189 5.768313885 549.5999257 17.49033928
13 05 2018 11:20
                 695.5170288 6.372159004 756.885029 22.69754028
13 05 2018 11:30
                 356.1835938 5.104670048 362.1360019 16.82753944
13 05 2018 11:40
                 408.8469849 5.38990593 437.8798307 17.72500038
13 05 2018 11:50 553.1998291 5.913914204 596.3290685 16.86249924
13 05 2018 12:00 543.3710938 5.647881985 512.5640383 16.05508995
```

```
13 05 2018 12:10 394.6294861 5.205585957 388.1577149 14.09228992
13 05 2018 12:20 237.6372986 4.48662281 219.1735569 9.831993103
13 05 2018 12:30
                 195.6448975 4.335307121 187.9296817 22.86903954
13 05 2018 12:40
                 198.633606 4.472445965 216.1901075 24.24373055
13 05 2018 12:50
                 315.7496948 4.999811172 335.9532127 23.35578918
13 05 2018 13:00
                 357.1966858 5.026226997 342.4689378 20.46956062
13 05 2018 13:10
                 183.5740967 4.319591999 184.7585309 18.68767929
                 279.994812 4.901113987 312.073021 18.64094925
13 05 2018 13:20
13 05 2018 13:30
                 302.9989929 4.937891006 320.8867936 21.73089027
                 224.1954956 4.611971855 246.0839807 20.18334961
13 05 2018 13:40
13 05 2018 13:50
                 314.9537964 4.986443043 332.6760766 25.25996017
13 05 2018 14:00 240.0926056 4.748375893 276.5049474 24.2077198
13 05 2018 14:10
                 166.6347961 4.278349876 176.4996639 27.10902977
13 05 2018 14:20 205.0205994 4.51400423 224.9698205 26.0459404
13 05 2018 14:30 159.6495972 4.219719887 164.9131782 23.08794975
13 05 2018 14:40 139.6473999 4.201776981 161.4026482 26.39240074
13 05 2018 14:50 63.29270172 3.700484037 77.66972013 24.72011948
13 05 2018 15:00 62.2166481 3.704227924 78.21025113 30.23348999
13 05 2018 15:10 56.25085068 3.658941984 71.82250657 34.55356979
                 58.71619034 3.667104006 72.94954855 37.85483932
13 05 2018 15:20
13 05 2018 15:30
                 38.94401932 3.445919037 46.17691217 33.40433884
                 78.35484314 3.789989948 91.20640781 29.02590942
13 05 2018 15:40
13 05 2018 15:50
                 82.08081818 3.939268112 116.6345465 31.80142021
13 05 2018 16:00
                 79.14324188 3.859493971 102.6021979 28.70126915
13 05 2018 16:10
                 103.7016983 4.013780117 125.5626908 30.97159958
13 05 2018 16:20 104.1324005 4.140849113 149.6022412 38.45252991
13 05 2018 16:30 124.5625992 4.352724075 191.4600414 35.04666138
13 05 2018 16:40 116.5428009 4.280138016 176.855862 37.81438065
13 05 2018 16:50 164.4533997 4.496891022 221.3419242 38.68783951
13 05 2018 17:00
                 182.0756989 4.596004009 242.60173
                                                     38.65085983
13 05 2018 17:10 254.9644928 5.084222794 356.9630885 43.04341125
13 05 2018 17:20 498.7821045 5.962594032 612.445237 46.14389038
13 05 2018 17:30
                 443.799408 5.737494946 539.9856402 47.20880127
13 05 2018 17:40
                 347.6594849 5.463119984 458.4530072 51.46630096
                 238.0122986 4.870736122 304.8671979 49.50494003
13 05 2018 17:50
                 106.6969986 4.099254131 141.6500631 55.3290596
13 05 2018 18:00
13 05 2018 18:10
                 12.00284958 2.522151947 0
                                               66.68113708
13 05 2018 18:20
                       1.561903954 0
                                         286.0183105
                                         278.4325867
13 05 2018 18:30
                       1.727036953 0
                       1.96786499 0
13 05 2018 18:40
                                         304.8099976
13 05 2018 18:50
                       1.987418056 0
                                         316.699707
                 0
13 05 2018 19:00 0
                                         334.9955139
                       1.864742041 0
13 05 2018 19:10
                                         341.7684937
                 0
                       1.647305012 0
                                         331.3230896
13 05 2018 19:20 0
                       1.759278059 0
13 05 2018 19:30 0
                       2.296478033 0
                                         323.7012024
13 05 2018 19:40
                 0
                       2.076653004 0
                                         283.2026978
13 05 2018 19:50
                 0
                       2.751801968 0
                                         260.5906982
13 05 2018 20:00
                 0
                       3.413301945 42.89114203 255.4138031
13 05 2018 20:10
                 0
                       2.343971014 0
                                         250.6517029
13 05 2018 20:20
                 0
                       2.997853041 0
                                         266.5795898
13 05 2018 20:30
                 0
                       2.344140053 0
                                         251.7138062
13 05 2018 20:40
                 0
                        2.898067951 0
                                         258.8631897
13 05 2018 20:50
                        3.520823002 54.366864 240.5821075
13 05 2018 21:00
                 67.85411835 3.816376925 95.44176421 230.2973022
13 05 2018 21:10
                 0.289665788 3.188899994 24.89945642 231.6204987
13 05 2018 21:20
                 0
                        2.866925001 0
                                         240.6719971
13 05 2018 21:30
                 0
                        3.088602066 19.4632922 262.2059937
13 05 2018 21:40 97.14424896 4.310255051 182.8807803 244.3686981
13 05 2018 21:50 106.7313995 4.04518795 131.435281 243.0061035
```

```
13 05 2018 22:00
                  96.14453125 4.030376911 128.6604097 236.3415985
13 05 2018 22:10
                  10.76035976 3.376142979 39.35525855 258.842804
13 05 2018 22:20
                         3.113986969 20.68702534 265.0935974
13 05 2018 22:30
                  8.212533951 3.553373098 58.20568203 257.7630005
13 05 2018 22:40
                  105.1753998 4.213654995 163.7247531 254.0886993
13 05 2018 22:50
                  166.8034973 4.49067688 220.0289139 259.7302856
13 05 2018 23:00
                  117.1281967 4.140470028 149.5293917 260.5068054
                  17.78679085 3.085253954 19.30958546 256.2373047
13 05 2018 23:10
13 05 2018 23:20
                  0
                         2.808888912 0
                                            259.7668152
13 05 2018 23:30
                         3.231585979 27.70131661 264.8843079
                  0
13 05 2018 23:40
                  3.912662029 3.232148886 27.74021275 265.0609131
13 05 2018 23:50
                  16.04413986 3.444864988 46.06806825 269.994812
14 05 2018 00:00
                  10.92572021 3.232458115 27.76160167 270.1932983
14 05 2018 00:10
                         3.063165903 18.3405034 281.9653931
14 05 2018 00:20
                  0
                         2.913422108 0
                                            287.6444092
14 05 2018 00:30
                  0
                         2.173700094 0
                                            272.0606079
14 05 2018 00:40
                  0
                         2,448060989 0
                                            264.344696
14 05 2018 00:50
                  0
                         2.733402014 0
                                            256.2840881
14 05 2018 01:00
                  0
                         2.744920015 0
                                            251.6403046
14 05 2018 01:10
                  0
                         1.772222042 0
                                            286.3078918
                                            290.9690857
14 05 2018 01:20
                  0
                         1.946495056 0
14 05 2018 01:30
                  0
                         2.244108915 0
                                            265.120697
14 05 2018 01:40
                  0
                         2.397450924 0
                                            262.3796082
14 05 2018 01:50
                  0
                         2,402686119 0
                                            240.5747986
14 05 2018 02:00
                  0
                         3.003403902 16.10985179 239.0083008
14 05 2018 02:10
                         2.829689026 0
                                           245.0113983
14 05 2018 02:20
                         2.682667971 0
                                            243.7342072
14 05 2018 02:30
                         1.992125988 0
                                            273.9236145
                  0
14 05 2018 02:40
                  0
                         1.819962978 0
                                            294.3622131
14 05 2018 02:50
                  0
                         1.848914981 0
                                            282.5473022
14 05 2018 03:00
                  0
                         1.542711973 0
                                            257.0979004
14 05 2018 03:10
                  0
                         1.499997973 0
                                            279.1109924
14 05 2018 03:20
                                            272.9031067
                  0
                         1.233564973 0
14 05 2018 03:30
                         1.968121052 0
                                            322,6546936
                  0
14 05 2018 03:40
                                            309.4090881
                  0
                         2.411290884 0
14 05 2018 03:50
                  0
                         2.246462107 0
                                            312.0407104
14 05 2018 04:00
                  0
                         2.222866058 0
                                            313.0690002
14 05 2018 04:10
                  0
                         2.099647999 0
                                            325.5689087
14 05 2018 04:20
                         1.268316031 0
                                            335.5820923
14 05 2018 04:30
                         0.868655801 0
                                            318.833313
14 05 2018 04:40
                         0.83688122
                                           315.4335938
                  0
14 05 2018 04:50
                                            295.6362
                  0
                         0.358099699 0
14 05 2018 05:00
                                            301.2279053
                  0
                         0.424109906 0
14 05 2018 05:10
                  0
                         0.647048414 0
                                            266.0209045
14 05 2018 05:20
                  0
                         0.797409415 0
                                            253.2322998
14 05 2018 05:30
                  0
                         0.611627102 0
                                            209.5899048
14 05 2018 05:40
                  0
                         0.528528988 0
                                           123,6567001
14 05 2018 05:50
                  0
                         0.608973026 0
                                           19.31336975
14 05 2018 06:00
                  0
                         0.791910112 0
                                            307.4598083
14 05 2018 06:10
                  0
                         0.752467513 0
                                            343.9786987
14 05 2018 06:20
                  0
                         1.007598996 0
                                            324.4867859
14 05 2018 06:30
                         0.719201386 0
                                            4.414329052
14 05 2018 06:40
                         0.932745278 0
                                            30.72326088
14 05 2018 06:50
                         1.181401014 0
                                           47.64049149
                  0
14 05 2018 07:00
                         1.023862958 0
                                            19.8719101
                  0
14 05 2018 07:10
                  0
                         1.627468944 0
                                            341.3132019
14 05 2018 07:20
                  0
                         1.634942055 0
                                            340.5263977
14 05 2018 07:30
                  0
                         1.701297045 0
                                            28.31715965
14 05 2018 07:40
                         1.050423026 0
                                           177.9373016
```

```
14 05 2018 07:50
                         1.771911025 0
                                            36.41579056
                   0
14 05 2018 08:00
                   0
                         1.10175395
                                      0
                                            330.7015991
   05 2018 08:10
                         1.359786034 0
                                            30.05267906
                   0
14 05 2018 08:20
                   0
                         1.156227946 0
                                            339.3757935
14 05 2018 08:30
                   0
                         1.008278966 0
                                            86.02423859
   05 2018 08:40
                   0
                         1.713927031 0
                                            48.12134933
   05 2018 08:50
                   0
                         2.006037951 0
                                            37.39086914
14 05 2018 09:00
                   0
                         1.229890943 0
                                            349.2961121
14 05 2018 09:10
                   0
                         1.759827018 0
                                            326.2450867
14 05 2018 09:20
                   0
                         2,478571892 0
                                            353.9739075
14 05 2018 09:30
                   0
                         2.190598965 0
                                            343.3305969
14 05 2018 09:40
                   0
                         2.338255882 0
                                            359.2871094
   05 2018 09:50
                         2.220685005 0
                                            4.657206059
14
   05 2018 10:00
                   0
                         2.142574072 0
                                            0.0553868
   05 2018 10:10
                         1.951442957
                                            328.7430115
14
                   0
                                      0
14
   05 2018 10:20
                   0
                         1.925783038 0
                                            352.8216858
14 05 2018 10:30
                   0
                         2.181488991 0
                                            2.415674925
14 05 2018 10:40
                   0
                         2.009620905 0
                                            325.987793
14 05 2018 10:50
                   0
                         1.934448957 0
                                            348.4732056
14 05 2018 11:00
                   0
                         1.935320973 0
                                            337.8612061
                                            337.9291992
14 05 2018 11:10
                         1.946234941 0
                   0
14 05 2018 11:20
                   0
                         2.0961411
                                      0
                                            9.644616127
14 05 2018 11:30
                   0
                         2.377279997 0
                                            348.2739868
14 05 2018 11:40
                   0
                         1.658413053 0
                                            323,0026855
14 05 2018 11:50
                   0
                         1.690660954 0
                                            338.5917969
14 05 2018 12:00
                         2.194127083 0
                                            9.423217773
14 05 2018 12:10
                         1.287963033 0
                                            332.9448853
                   0
14
   05 2018 12:20
                         1.484541059
                                            337.4453125
                   0
                                      0
   05 2018 12:30
14
                   0
                         2.006788015 0
                                            346.0273132
   05 2018 12:40
14
                   0
                         1.082672
                                      0
                                            328.9248962
14 05 2018 12:50
                   0
                         0.786076307 0
                                            340.6585083
14 05 2018 13:00
                   0
                         1.392135024 0
                                            358.8757019
14 05 2018 13:10
                   0
                         0.660599411 0
                                            1.73723805
                         1.008350968 0
14 05 2018 13:20
                                            6.108318806
                   0
14 05 2018 13:30
                   0
                         0.826654017 0
                                            1.012851954
14
   05 2018 13:40
                   0
                         1.126436949 0
                                            3.953912973
14 05 2018 13:50
                   0
                         2.261723995 0
                                            325.5678101
14 05 2018 14:00
                   0
                         1.800740957 0
                                            317.9963074
14 05 2018 14:10
                         1.594702005 0
                                            292.2044067
14 05 2018 14:20
                         1.903193951 0
                                            253.3303986
14 05 2018 14:30
                         1.374953985 0
                                            252.3128967
                   0
14 05 2018 14:40
                   0
                         2.206846952 0
                                            248.8197937
   05 2018 14:50
                                            245.7518005
14
                   0
                         2.465101004 0
14 05 2018 15:00
                   0
                         2.970402002 0
                                            252.0028992
14 05 2018 15:10
                   0
                         2.959311008 0
                                            249.9499969
14 05 2018 15:20
                   0
                         2.152944088 0
                                            249.1871948
14 05 2018 15:30
                   0
                         2.263648033 0
                                            258.3161011
14 05 2018 15:40
                                            241.0998993
                   0
                         1.841060042 0
14 05 2018 15:50
                   0
                         2.18078208
                                            233.222702
14
   05 2018 16:00
                   0
                         2.758058071 0
                                            241.9192963
14 05 2018 16:10
                   0
                         2.236810923 0
                                            248.2877045
14 05 2018 16:20
                   0
                         2.186749935 0
                                            270.6218872
  05 2018 16:30
                         2.374351978 0
                                            286.6961975
14 05 2018 16:40
                                            290.3406982
                   0
                         2.516560078 0
14 05 2018 16:50
                         3.451098919 46.71438418 298.514801
                   0
14 05 2018 17:00
                   0
                         3.321640968 34.56874399 298.8445129
14 05 2018 17:10
                   0
                         2.860702991 0
                                            316.1536865
14 05 2018 17:20
                   0
                         2.976516962 0
                                            323.8259888
14 05 2018 17:30
                         2.794081926 0
                                            331.1178894
```

```
14 05 2018 17:40
                         2.565783978 0
                                           335.8554077
                  0
14 05 2018 17:50
                  0
                         2.510677099 0
                                           346.5917053
14 05 2018 18:00
                         2,470210075 0
                                           349.4888
                  0
14 05 2018 18:10
                  0
                         2.700484991 0
                                           349.1282959
14 05 2018 18:20
                  0
                         2.695415974 0
                                           347.2951965
14 05 2018 18:30
                         2.568125963 0
                                           350.2609863
14 05 2018 18:40
                  0
                         2.733608007 0
                                           350.5994873
14 05 2018 18:50
                  0
                         2.400856018 0
                                           349.3479919
14 05 2018 19:00
                  0
                         1.948268056 0
                                           353.104187
14 05 2018 19:10
                  0
                         1.862807989 0
                                           353.7607117
14 05 2018 19:20
                  0
                         1.926818967 0
                                           354.7654114
14 05 2018 19:30
                         2.011259079 0
                                           357.6625061
14 05 2018 19:40
                         2.054682016 0
                                           2.314773083
14 05 2018 19:50
                  0
                         1.455621958 0
                                           13.80830002
14 05 2018 20:00
                         1.543367028 0
                                           338.9820862
                  0
14 05 2018 20:10
                  0
                         1.64963305
                                           329.4135132
14 05 2018 20:20
                  0
                         1.563006997 0
                                           338.0895081
14 05 2018 20:30
                  0
                                           349.230011
                         1.887681007 0
14 05 2018 20:40
                  0
                         1.452200055 0
                                           343.6005859
14 05 2018 20:50
                  0
                         0.90406853
                                     0
                                           328.557312
14 05 2018 21:00
                        0.605463088 0
                                           315.0806885
                  0
14 05 2018 21:10
                  0
                        0.261899292 0
                                           189.6419067
14 05 2018 21:20
                  0
                        0.332730889 0
                                           85.35225677
14 05 2018 21:30
                  0
                        0.461430907 0
                                           107.6657028
14 05 2018 21:40
                         0.651904821 0
                                           142.4996948
14 05 2018 21:50
                         0.785853624 0
                                           140.8551025
14 05 2018 22:00
                         0.807440817 0
                                           123.3515015
14 05 2018 22:10
                         0.803215027 0
                                           125.0479965
                  0
14 05 2018 22:20
                  0
                        0.903083026 0
                                           88.7129364
14 05 2018 22:30
                  0
                        0.823205173 0
                                           112.4068985
14 05 2018 22:40
                  0
                        0.768913388 0
                                           160.6911926
14 05 2018 22:50
                  0
                                           128.9967041
                        0.347596288 0
14 05 2018 23:00
                  0
                                           257.0846863
                         0.514015019 0
14 05 2018 23:10
                        0.455290496 0
                                           312.2030029
                  0
14 05 2018 23:20
                        0.296215713 0
                                           192.2106934
                  0
14 05 2018 23:30
                  0
                        0.766550779 0
                                           188.7454987
14 05 2018 23:40
                  0
                        1.216714978 0
                                           164.3466034
14 05 2018 23:50
                  0
                         1.385033011 0
                                           154.2416992
15 05 2018 00:00
                         1.358844995 0
                                           169.0164032
15 05 2018 00:10
                  0
                         1.146854997 0
                                           151,5556946
15 05 2018 00:20
                         1.12777102
                                           183.6578064
                  0
                                     0
15 05 2018 00:30
                  0
                         1.410318971 0
                                           237.0619965
15 05 2018 00:40
                  0
                         1.412214994 0
                                           232.2458954
15 05 2018 00:50
                  0
                         1.616852045 0
                                           205.0639954
15 05 2018 01:00
                  0
                         3.150221109 22.61238604 196.9506989
15 05 2018 01:10
                  11.86927032 3.758595943 86.31249462 196.3807983
                  79.61353302 4.110457897 143.7838848 193.6389008
15 05 2018 01:20
15 05 2018 01:30
                  88.00720978 4.168610096 154.9561746 194.0787048
15 05 2018 01:40
                  145.0531006 4.496583939 221.2769851 191.4667969
15 05 2018 01:50
                  194.0751953 4.701139927 265.8313608 194.572403
15 05 2018 02:00
                  176.6278992 4.620248795 247.8953783 188.9228973
15 05 2018 02:10
                  179.8890076 4.636743069 251.5181908 186.843399
15 05 2018 02:20
                  202.3009949 4.765184879 280.3395586 185.7346954
15 05 2018 02:30
                  199.0384064 4.771400928 281.7625105 180.4620056
15 05 2018 02:40
                  141.0955048 4.526511192 227.6324083 180.3610992
15
   05 2018 02:50
                  100.8365021 4.287097931 178.2438942 179.1515961
15
  05 2018 03:00
                  114.276001 4.127953053 147.1278882 182.7888947
                  121.1604004 4.176848888 156.5523877 188.3321075
15 05 2018 03:10
15 05 2018 03:20
                  134.1829987 4.308787823 182.5861347 191.7174072
```

```
132.2024994 4.360188007 192.9780799 189.6210022
15 05 2018 03:30
                  136.0012054 4.330952168 187.0495481 183.8811035
15 05 2018 03:40
                  84.65535736 4.012237072 125.2753124 178.2628021
15 05 2018 03:50
15 05 2018 04:00
                 100.8421021 4.11811018 145.2447328 179.1139069
15 05 2018 04:10
                  137.2738953 4.284653187 177.7560402 185.1331024
15 05 2018 04:20
                  128.509201 4.302306175 181.2858907 187.0240936
15 05 2018 04:30
                  152.3338928 4.465950012 214.8270404 186.9743958
15 05 2018 04:40
                  183.8152008 4.707241058 267.2015833 185.2841949
15 05 2018 04:50
                  196.9459991 4.715565205 269.0750635 186.1869965
                  188.4700928 4.629742146 249.9783727 185.6300049
15 05 2018 05:00
15 05 2018 05:10
                  281.5775146 5.123764038 366.9965051 188.4187012
15 05 2018 05:20
                  336.2432861 5.343461037 425.0754556 184.8072052
15 05 2018 05:30
                  316.0869141 5.183282852 382.3354963 183.6031952
15 05 2018 05:40
                  300.6299133 5.089186192 358.215735 182.9615021
15 05 2018 05:50
                  351.3982849 5.430139065 449.1258511 182.2646942
15 05 2018 06:00
                  376.8452148 5.469571114 460.2889322 182.3141022
15 05 2018 06:10
                  370.286499 5.313346863 416.8737728 178.1065063
15 05 2018 06:20
                 270.5487061 4.931982994 319.4642051 179.4835968
15 05 2018 06:30
                  214.7808075 4.374934196 195.9863129 179.6423035
15 05 2018 06:40
                  346.0242004 5.363357067 430.5374223 179.3686981
15 05 2018 06:50
                  387.2858887 5.217220783 391.2112644 179.7332001
                  386.7922974 5.490367889 466.233315 180.4122009
15 05 2018 07:00
15 05 2018 07:10
                  209.7597961 4.476047993 216.9470075 178.7472992
15 05 2018 07:20
                  150.1186066 4.08093214 138.1732744 181.5715942
15 05 2018 07:30
                  339.5830994 5.244649887 398.4545391 187.8482971
15 05 2018 07:40
                  157.5895996 4.112130165 144.1028885 187.8074951
15 05 2018 07:50
                  192.1811981 4.634337902 250.9888311 200.5578003
15 05 2018 08:00
                  129.7601929 4.142337799 149.8883918 195.826004
                  79.63986969 3.78907299 91.06123043 197.509903
15 05 2018 08:10
                  207.7675018 4.516592979 225.5201572 192.7436066
15 05 2018 08:20
                  104.530899 3.965620041 121.4936064 206.1719971
15 05 2018 08:30
15 05 2018 08:40
                  215.2225037 4.636161804 251.3902246 211.7619934
15 05 2018 08:50
                  104.7304993 3.983675003 124.886921 224.7601013
15 05 2018 09:00
                  201.5177002 4.479269028 217.6244997 212.764801
                  88.92276764 3.92662096 114.341983 199.5858002
15 05 2018 09:10
15 05 2018 09:20
                  27.78874016 3.139741898 22.03396456 224.2044067
15 05 2018 09:30
                  15.84982014 2.976769924 0
                                                226.1743011
15 05 2018 09:40
                  24.93243027 3.023650885 16.80157746 217.0675049
                  82.86641693 3.632884026 68.295664
15 05 2018 09:50
                                                      223,9976959
15 05 2018 10:00
                  60.40159988 3.667289019 72.97521935 213.012207
15 05 2018 10:10
                  31.72236061 3.279294968 31.17789328 226.832901
                  17.89298058 3.198071003 25.47684187 224.7447052
15 05 2018 10:20
                  50.05699921 3.670535088 73.4265071 224.5406952
15 05 2018 10:30
15 05 2018 10:40
                  0.05606642 2.300512075 0
                                                226.8085938
15 05 2018 10:50
                  0
                        2.037817001 0
                                          225.3325958
15 05 2018 11:00
                  0
                        1.987712026 0
                                          248.3020935
15 05 2018 11:10
                  0
                        1.715186
                                    0
                                          281.842804
                                          353.3338928
15 05 2018 11:20
                  0
                        1.790393949 0
15 05 2018 11:30
                  0
                        1.926862001 0
                                          12.88368034
15 05 2018 11:40
                  0
                        1.23548305 0
                                          45.43119049
15 05 2018 11:50
                  0
                        1.357233047 0
                                          39.77437973
15 05 2018 12:00
                  0
                        2.14606905 0
                                          66.37069702
15 05 2018 12:10
                        1.477512002 0
                                          30.9351902
15 05 2018 12:20
                        0.920233428 0
                                          339.4507141
                  0
15 05 2018 12:30
                  0
                        1.403056979 0
                                          26.76388931
15 05 2018 12:40
                  0
                        1.306843996 0
                                          13.16127968
15 05 2018 12:50
                  0
                        1.156180978 0
                                          80.04525757
15 05 2018 13:00
                  0
                        1.029952049 0
                                          359.7988892
15 05 2018 13:10
                 0
                        0.912207484 0
                                          103.3583984
```

```
15 05 2018 13:20 0
                        0.903086483 0
                                          302.873291
15 05 2018 13:30
                  0
                        1.785753012 0
                                          292.0570068
15 05 2018 13:40
                                          275.0983887
                  0
                        1.857365012 0
15 05 2018 13:50
                 0
                        1.787376046 0
                                          270.138092
15 05 2018 14:00
                  0
                        1.913872957 0
                                          264.9820862
15 05 2018 14:10
                        2.408201933 0
                                          263.6924133
15 05 2018 14:20
                  0
                        2.339226007 0
                                          264.4136047
15 05 2018 14:30
                  0
                        2.698904037 0
                                          252.8796997
15 05 2018 14:40
                  0
                        3.313842058 33.92269286 248.4398041
15 05 2018 14:50
                  0
                        2.59551692 0
                                          244.3950958
15 05 2018 15:00
                  0
                        3.219269991 26.86298602 252.5386963
                  0
15 05 2018 15:10
                        3.599339962 63.91554999 248.248703
15 05 2018 15:20
                  10.10820007 3.254381895 29.31703253 245.1192017
15 05 2018 15:30
                        3.016550064 16.55151442 264.2278137
15 05 2018 15:40
                        2.918040037 0
                                          272.2471924
                  0
15 05 2018 15:50
                  0
                        2.521805048 0
                                          275.2579041
15 05 2018 16:00
                 0
                        2.452826023 0
                                          267.971405
15 05 2018 16:10
                 0
                        1.877547979 0
                                          264.6759033
15 05 2018 16:20
                  0
                        1.674708962 0
                                          273.8815918
15 05 2018 16:30
                  0
                        0.817984819 0
                                          252.7901001
15 05 2018 16:40
                        0.508988976 0
                                          230.0523987
                  0
15 05 2018 16:50
                                          217.8202057
                  0
                        1.092851996 0
15 05 2018 17:00
                  0
                        1.635578036 0
                                          250.490799
15 05 2018 17:10
                 0
                        1.614647985 0
                                          248.0171051
15 05 2018 17:20
                  0
                        2.45727706 0
                                          213.3511047
15 05 2018 17:30
                        3.055546999 18.02434149 207.0335999
15 05 2018 17:40
                        2.892374992 0
                                          198.4174042
                 0
15 05 2018 17:50
                        2.689565897 0
                                          207.0751038
                 0
15 05 2018 18:00
                 0
                        2.10995698 0
                                          222.2492065
15 05 2018 18:10
                 0
                        1.906574011 0
                                          217.179306
15 05 2018 18:20
                 0
                        2.593352079 0
                                          205.3412018
15 05 2018 18:30 0
                        3.597167015 63.63801999 193.2386017
15 05 2018 18:40
                6.970513821 3.422528028 43.8032917 191.0800934
15 05 2018 18:50
                 53.17831039 4.150793076 151.5156832 192.1132965
                  141.9756927 4.445568085 210.5663294 189.0807953
15 05 2018 19:00
                  223.1020966 4.902994156 312.5212086 186.9270935
15 05 2018 19:10
                  354.7846069 5.577606201 491.6042505 181.6952057
15 05 2018 19:20
                 530.2396851 6.176965237 685.3330773 178.0016022
15 05 2018 19:30
15 05 2018 19:40
                 714.6975708 6.553658962 827.1405716 177.3128967
15 05 2018 19:50 811.506897 6.684183121 879.942222 185.7758026
15 05 2018 20:00 815.1923828 6.851173878 950.3760739 189.7229004
15 05 2018 20:10 861.4719238 6.949728012 993.5177679 191.1687012
15 05 2018 20:20 898.7050781 7.132465839 1076.751983 194.1246033
15 05 2018 20:30 879.984375 7.119172096 1070.550357 192.2922058
15 05 2018 20:40
                 1007.718994 7.32417202 1168.864254 193.9794006
15 05 2018 20:50
                  1115.48999 7.632750034 1327.229015 194.1257019
15 05 2018 21:00
                  1196.657959 7.707495213 1367.206897 195.035202
15 05 2018 21:10
                 1222.524048 7.872696877 1457.959996 192.577301
15 05 2018 21:20 1340.042969 8.136323929 1609.003352 192.0670929
15 05 2018 21:30
                  1391.28894 8.406639099 1770.744064 191.703598
15 05 2018 21:40
                  1438.083008 8.42339325 1780.969289 192.2805939
15 05 2018 21:50
                 1472.234985 8.737900734 1976.591569 190.0422058
15 05 2018 22:00
                 1617.225952 8.834086418 2037.632046 190.1708069
15 05 2018 22:10
                 1924.83606 9.709734917 2598.006198 189.6840973
15 05 2018 22:20
                 2139.663086 10.18404961 2901.330629 188.0960999
15 05 2018 22:30 2512.97998 10.85091019 3217.223464 189.2178955
15 05 2018 22:40 2812.885986 11.25123024 3354.114808 191.6082001
15 05 2018 22:50 2894.322021 11.30414009 3369.578269 195.9161987
15 05 2018 23:00 3089.167969 11.88516045 3502.952263 200.5570984
```

```
3095.386963 11.84766006 3496.248151 201.1652069
15 05 2018 23:10
15 05 2018 23:20
                 3126.969971 12.03090954 3526.674856 201.1631012
15 05 2018 23:30
                 3100.939941 11.93671036 3511.763695 198.2254028
15 05 2018 23:40
                 3348.072998 12.62769985 3587.440891 198.5216064
15 05 2018 23:50
                 3523.729004 13.14091969 3600 199.5473022
16 05 2018 00:00
                 3430.571045 13.0194397 3600 199.2162018
16 05 2018 00:10
                 3366.621094 12.77608013 3594.038781 200.4226074
16 05 2018 00:20
                 3202.676025 12.19849014 3549.497297 201.1622009
16 05 2018 00:30
                 3083.694092 12.10356998 3537.144757 198.3041992
                 2791.299072 11.53470039 3430.277305 196.6826019
16 05 2018 00:40
16 05 2018 00:50
                 2982.985107 11.99746037 3521.554535 195.4384003
16 05 2018 01:00
                 2992.98999 12.0962801 3536.134351 196.5894928
16 05 2018 01:10
                 2777.756104 11.74260044 3476.123787 195.1903076
16 05 2018 01:20
                 2957.378906 12.0065403 3522.963357 197.8762054
                 3071.327881 11.98587036 3519.735729 201.1396027
16 05 2018 01:30
16 05 2018 01:40
                 3305.103027 12.67798042 3590.040958 203.0807953
16 05 2018 01:50
                 2941.759033 11.85904026 3498.309004 199.8968964
16 05 2018 02:00
                 2969.643066 11.92041969 3509.029406 196.7393951
16 05 2018 02:10
                 3239.25708 12.61567974 3586.763513 197.3435974
                 3113.552979 12.31311989 3562.458223 200.0074005
16 05 2018 02:20
                 3056.779053 12.05655003 3530.471062 200.0348969
16 05 2018 02:30
16 05 2018 02:40
                 3240.287109 12.28934002 3559.942966 201.0509033
16 05 2018 02:50
                 2849.775879 11.5958004 3444.601171 198.8880005
16 05 2018 03:00
                 2792.022949 11.56233025 3436.843802 196.146698
16 05 2018 03:10
                 3030.444092 12.34638023 3565.825574 193.2519073
16 05 2018 03:20
                 3256.600098 12.44248009 3574.578334 193.7053986
16 05 2018 03:30 3358.283936 12.53293991 3581.511533 195.1829071
16 05 2018 03:40 3434.394043 12.84014034 3595.890773 198.0155945
                 3389.386963 12.58821964 3585.134823 196.0484009
16 05 2018 03:50
                 3388.499023 12.61736012 3586.859507 192.2902069
16 05 2018 04:00
                 3263.529053 12.39750957 3570.661986 191.8952942
16 05 2018 04:10
16 05 2018 04:20
                 3198.801025 12.21415997 3551.394276 191.989502
16 05 2018 04:30
                 3313.924072 12.76035976 3593.493096 189.9029999
16 05 2018 04:40 3123.378906 12.30375004 3561.477907 189.7682037
                 2964.933105 12.02029991 3525.071419 187.7707977
16 05 2018 04:50
16 05 2018 05:00
                 3046.139893 12.04281044 3528.450692 188.6941071
                 3036.87793 11.99929047 3521.839624 190.8453064
16 05 2018 05:10
16 05 2018 05:20
                 3021.340088 12.37014961 3568.125003 188.6029968
16 05 2018 05:30
                 3172.280029 12.40089989 3570.968205 186.6652985
                 3104.756104 12.24147987 3554.606245 185.1385956
16 05 2018 05:40
16 05 2018 05:50 2923.500977 11.60017014 3445.598104 186.9004059
16 05 2018 06:00 2845.236084 11.33965015 3379.629071 186.4420929
16 05 2018 06:10
                 2586.50293 10.72237015 3165.351951 187.6087952
16 05 2018 06:20
                 2242.663086 9.826539993 2679.446282 188.7032928
16 05 2018 06:30
                 2394.674072 10.31529045 2973.063794 192.9588928
16 05 2018 06:40
                 2408.541992 10.33882046 2985.402179 193.2548981
                 2538.112061 10.77163982 3185.712327 193.2940063
16 05 2018 06:50
                 2399.668945 10.36487007 2998.879964 193.9053955
16 05 2018 07:00
16 05 2018 07:10
                 1916.105957 9.277565956 2324.239923 188.4705963
16 05 2018 07:20
                 1250.750977 7.781511784 1407.470793 186.0834961
16 05 2018 07:30
                 1308.282959 7.970086098 1512.913016 189.1613007
16 05 2018 07:40
                 771.3510132 6.791892052 924.9940997 183.6329041
16 05 2018 07:50
                 1121.881958 7.417357922 1215.522996 183.9609985
16 05 2018 08:00
                 880.6044922 6.840277195 945.6789032 193.7696075
16 05 2018 08:10
                 1237.52002 7.729922771 1379.337345 196.5391998
16 05 2018 08:20
                 1391.588013 8.14470768 1613.921612 196.1065063
16 05 2018 08:30 703.4124756 6.521840096 814.5604198 203.1047974
16 05 2018 08:40 1489.041992 8.254727364 1679.066726 211.8592987
16 05 2018 08:50 1716.974976 8.808527946 2021.364331 206.5989075
```

```
16 05 2018 09:00 1759.072021 8.911898613 2087.357842 205.3262024
                 1697.519043 8.785434723 2006.695048 203.0169983
16 05 2018 09:10
                 1912.509033 9.251848221 2307.446068 209.0959015
16 05 2018 09:20
                 1782.58606 8.644921303 1918.084517 209.0522003
16 05 2018 09:30
16 05 2018 09:40
                 875.807312 9.007669449 2148.936272 210.655304
16 05 2018 09:50
                 946.864624 6.908140182 975.1671893 207.0970001
16 05 2018 10:00
                 911.3632202 6.936553955 987.6815042 208.8964996
16 05 2018 10:10
                 896.9130249 6.955698013 996.1696784 217.6208954
16 05 2018 10:20
                 866.6342163 6.603678226 847.1464
                                                      222.6831055
                 1767.269043 8.754432678 1987.04712 213.3023987
16 05 2018 10:30
16 05 2018 10:40
                 1340.69397 7.88975811 1467.511823 214.6842041
16 05 2018 10:50
                 2101.287109 9.772493362 2642.334829 220.4165039
16 05 2018 11:00
                 2444.022949 10.48449993 3058.365374 217.8916931
16 05 2018 11:10
                 1267.447998 7.788137913 1411.107214 222.1020966
16 05 2018 11:20
                 1112.22998 7.221601009 1118.948421 222.3795929
16 05 2018 11:30
                 1316.177979 7.7596488 1395.50923 229.1136932
16 05 2018 11:40
                 1035.134033 7.060445786 1043.43293 226.5816956
16 05 2018 11:50
                 680.4539795 6.347816944 747.7374155 241.0818939
16 05 2018 12:00
                 642.7929077 6.176846027 685.2906302 244.1889038
16 05 2018 12:10
                 140.0684967 3.958743095 120.2148449 249.0951996
                 259.3688965 4.910912991 314.4117016 250.6692963
16 05 2018 12:20
                 267.8179932 4.979308128 330.932517 247.7942963
16 05 2018 12:30
16 05 2018 12:40
                 502.8009949 5.885094166 586.9055491 243.691803
16 05 2018 12:50
                 510.7124939 5.98491621 619.9197369 249.8209991
16 05 2018 13:00
                 184.3141937 4.594274998 242.2256363 243.1996002
16 05 2018 13:10
                242.6690979 4.743506908 275.3977854 242.5554047
16 05 2018 13:20 297.776001 4.978431225 330.7184929 245.453598
                 238.4022064 4.671600819 259.2321614 245.2483063
16 05 2018 13:30
                 233.0935059 4.792943001 286.714416 242.1761017
16 05 2018 13:40
16 05 2018 13:50
                 164.9725037 4.381728172 197.37638
                                                      242.6439056
16 05 2018 14:00
                 187.9971008 4.616064072 246.9790115 247.1091003
16 05 2018 14:10
                 142.9705048 4.36387682 193.7294638 244.5048981
16 05 2018 14:20
                 101.367897 4.035366058 129.5940272 242.2180023
16 05 2018 14:30
                 37.68637085 3.378010035 39.527648
                                                      247.9174957
16 05 2018 14:40
                 27.54998016 3.509140015 53.03036483 247.5223999
16 05 2018 14:50
                 58.27725983 3.678822994 74.58638842 244.466507
16 05 2018 15:00
                 33.74121094 3.445080042 46.09026084 244.9600067
                 94.67479706 4.134631157 148.4082058 248.7046967
16 05 2018 15:10
16 05 2018 15:20
                 127.7624969 4.395216942 200.1439212 250.6345062
16 05 2018 15:30
                 141.6125031 4.453702927 212.2639486 249.2160034
16 05 2018 15:40
                 161.1889954 4.563879013 235.6445357 250.2359009
                 106.6193008 4.16607523 154.4657358 251.3358002
16 05 2018 15:50
16 05 2018 16:00
                 140.3610992 4.478092194 217.3769005 253.1040955
16 05 2018 16:10
                 80.25243378 4.122869015 146.1546214 249.8860016
16 05 2018 16:20
                 177.6616058 4.64159584 252.5873846 244.9382019
16 05 2018 16:30
                 283.6784058 5.294959068 411.9042216 245.3744965
16 05 2018 16:40
                 218.4989929 4.980738163 331.281667 244.9963989
                 133.3865967 4.502085209 222.4411987 244.8869019
16 05 2018 16:50
16 05 2018 17:00
                 145.7628937 4.534811974 229.4047999 242.3639984
16 05 2018 17:10
                 289.0455933 5.264853001 403.8299267 238.847702
16 05 2018 17:20
                 304.781311 5.422554016 446.9946164 237.7976074
16 05 2018 17:30
                 330.3439026 5.626990795 506.2838313 237.438797
16 05 2018 17:40
                 250.8218994 5.062970161 351.6212922 231.2657013
16 05 2018 17:50
                 227.802597 4.931450844 319.3361954 227.5670929
16 05 2018 18:00
                 534.2791748 6.180729866 686.6743379 222.8251953
16 05 2018 18:10
                 796.7385864 6.878221989 962.0977378 226.6884003
16 05 2018 18:20
                 724.1956177 6.805428982 930.7529706 221.3999023
16 05 2018 18:30 683.6931763 6.682248116 879.1452242 221.5823975
16 05 2018 18:40 710.9067993 6.770837784 916.0804697 217.6464996
```

```
16 05 2018 18:50
                 790.1934204 7.000673771 1016.292136 217.142807
                 776.8477173 6.979925156 1006.977376 216.1694946
16 05 2018 19:00
                 948.6281738 7.165134907 1092.092629 217.7539063
16 05 2018 19:10
16 05 2018 19:20
                 974.565979 7.489542007 1252.556082 214.8948059
16 05 2018 19:30
                 865.3358765 7.282456875 1148.384761 215.7984009
16 05 2018 19:40
                 774.0618286 7.080200195 1052.504289 211.7164001
16 05 2018 19:50
                 867.1876831 7.318353176 1165.992651 207.4981995
                 1262.255005 8.16440773 1625.504629 202.7707977
16 05 2018 20:00
16 05 2018 20:10
                 1730.605957 9.100664139 2209.077022 203.0115967
                 1829.635986 9.434008598 2426.675167 201.8406067
16 05 2018 20:20
16 05 2018 20:30
                 1997.988037 9.804178238 2664.209658 199.4403992
16 05 2018 20:40
                 2137.031982 10.12055969 2864.81303 201.5677032
16 05 2018 20:50
                 2350.683105 10.95843983 3257.570216 196.9261932
16 05 2018 21:00
                 2385.447998 10.62030983 3121.239809 193.1696014
16 05 2018 21:10
                 2675.708008 11.32520962 3375.573297 191.1342926
16 05 2018 21:20
                 2725.048096 11.38914967 3393.206721 187.016098
16 05 2018 21:30
                 3135.654053 12.11623001 3538.878423 186.9353943
16 05 2018 21:40 3223.466064 12.27180958 3558.030894 187.5204926
16 05 2018 21:50 2877.299072 11.40717983 3398.028437 193.5926056
16 05 2018 22:00 2619.701904 10.89517975 3234.164079 195.4893951
                 2674.187012 11.14336014 3320.743954 194.9954987
16 05 2018 22:10
16 05 2018 22:20
                 2793.361084 11.36789989 3387.439279 195.5906982
16 05 2018 22:30
                 2902.418945 11.62963963 3452.226504 190.0269928
16 05 2018 22:40
                 2896.886963 11.44676971 3408.386013 187.8047943
16 05 2018 22:50
                 2987.573975 11.75648975 3478.899131 196.8034058
16 05 2018 23:00
                 2906.679932 11.55428028 3434.945906 205.7398071
16 05 2018 23:10
                 2892.779053 11.6955204 3466.452396 207.2617035
16 05 2018 23:20
                 2626.795898 11.18336964 3333.413688 203.2006073
                 2410.043945 10.71813011 3163.571631 196.6557007
16 05 2018 23:30
                 2696.815918 11.08942032 3303.108202 196.2778015
16 05 2018 23:40
16 05 2018 23:50
                 2406.836914 10.50718021 3069.204634 192.0444946
17 05 2018 00:00
                 2678.791992 11.19412041 3336.759015 193.1902008
17 05 2018 00:10
                 2832.743896 11.37104034 3388.297428 191.4920959
17 05 2018 00:20
                 2910.418945 11.44472027 3407.85754 190.4956055
                 3214.970947 12.51401043 3580.164312 186.7147064
17 05 2018 00:30
17 05 2018 00:40
                 3210.829102 12.66720963 3589.515605 184.9532013
17 05 2018 00:50
                 3278.61792 12.68885994 3590.554173 190.8529053
17 05 2018 01:00
                 3008.474121 12.16954041 3545.887191 191.9996948
17 05 2018 01:10
                 3163.245117 12.2628603 3557.035787 190.1860962
                 3342.290039 12.73184967 3592.411248 190.0904999
17 05 2018 01:20
17 05 2018 01:30 3357.327881 12.60785007 3586.310653 189.4075928
17 05 2018 01:40 3078.566895 11.92850971 3510.393051 192.1056976
17 05 2018 01:50
                 2774.004883 11.25086021 3354.00459 194.9756927
17 05 2018 02:00
                 2509.268066 10.58430958 3105.044341 196.9380951
17 05 2018 02:10
                 2538.375
                            10.64424992 3131.824747 196.8802948
17 05 2018 02:20
                 2401.534912 10.43568993 3034.567902 196.4226074
                 2452.186035 10.76401997 3182.602659 194.5588074
17 05 2018 02:30
17 05 2018 02:40
                 2180.139893 9.938936234 2753.546031 196.2743073
17 05 2018 02:50
                 1895.258057 9.313895226 2347.987991 198.7957001
17 05 2018 03:00
                 2054.086914 9.800207138 2661.486474 197.4754028
17 05 2018 03:10
                 2055.727051 10.13916969 2875.641915 193.9848022
17 05 2018 03:20
                 1965.623047 9.703170776 2593.29204 199.2239075
17 05 2018 03:30
                 1855.583008 9.378347397 2390.182437 200.0063934
17 05 2018 03:40
                 1908.668945 9.513674736 2450.688529 198.6869049
17 05 2018 03:50
                 2055.053955 9.894008636 2724.4189
                                                     197.8410034
17 05 2018 04:00
                 2246.887939 10.24929047 2937.613477 198.0142059
17 05 2018 04:10 2326.023926 10.43435001 3033.905495 199.5227051
17 05 2018 04:20 2214.718994 10.14628029 2879.751998 196.7669067
17 05 2018 04:30 2020.295044 9.748723984 2625.703048 197.4445953
```

```
17 05 2018 04:40 1862.733032 9.320405006 2352.246233 201.1038971
                 1715.067017 9.02014637 2156.986526 199.8580933
17 05 2018 04:50
                 1687.990967 8.967556953 2123.097524 200.0334015
17 05 2018 05:00
17 05 2018 05:10
                 1676.470947 8.962843895 2120.065939 199.7868958
17 05 2018 05:20
                 1566.978027 8.608524323 1895.326663 200.3930054
17 05 2018 05:30
                 1338.319946 8.190504074 1640.904245 200.7120056
17 05 2018 05:40
                 1250.337036 7.932409763 1491.531316 201.0312042
                 1200.597046 7.983857155 1520.765931 198.2409973
17 05 2018 05:50
17 05 2018 06:00
                 1015.70697 7.680560112 1352.720091 194.3370972
                 864.3480225 7.207729816 1112.310781 191.8500061
17 05 2018 06:10
17 05 2018 06:20
                 752.458374 6.914245129 977.8475803 191.1264038
17 05 2018 06:30 952.4677734 7.196594238 1107.001293 194.2429047
17 05 2018 06:40 796.1591797 6.800759792 928.7641409 197.6708069
17 05 2018 06:50 656.1854858 6.395175934 765.5939833 196.319397
17 05 2018 07:00 374.6252136 5.50920105 471.6506443 195.9940033
17 05 2018 07:10 375.7423096 5.362580776 430.323662 198.3804016
17 05 2018 07:20 254.1235962 4.721306801 270.3700004 203.5057983
17 05 2018 07:30 69.87169647 7.146617889 1083.379898 217.0740051
17 05 2018 07:40 454.4572144 6.823102951 938.3047492 211.764801
17 05 2018 07:50
                 722.6223755 6.512265205 810.7969353 216.6208954
                 466.9794922 7.016163826 1023.281782 227.4640045
17 05 2018 08:00
                 0
17 05 2018 08:10
                       6.706224918 889.0514598 224.2138977
17 05 2018 08:20
                 0
                       7.416045189 1214.856804 219.9376068
17 05 2018 08:30
                 0
                       8.542655945 1854.362526 218.8076935
17 05 2018 08:40
                       8.990959167 2138.164263 219.1604004
17 05 2018 08:50
                       7.838671207 1439.008322 223.8199005
17 05 2018 09:00
                 383.0050049 7.47771883 1246.435966 225.7142029
                 772.8677979 6.547533989 824.7101528 227.2854004
17 05 2018 09:10
                 699.5341187 6.396227837 765.9933741 243.7286987
17 05 2018 09:20
                            6.783071995 921.2536044 243.4649963
17 05 2018 09:30
                 874.43573
                 298.0945129 5.136538982 370.2647163 240.4577942
17 05 2018 09:40
17 05 2018 09:50
                 191.4364929 4.487539768 219.3669376 237.040802
17 05 2018 10:00
                 558.072876 6.065721989 646.3834167 239.324707
17 05 2018 10:10
                 250.2003937 4.575191021 238.086978 219.7792053
                 201.9526062 4.553854942 233.4868159 241.9113007
17 05 2018 10:20
17 05 2018 10:30
                 221.9487
                             4.578755856 238.8583351 224.3533936
17 05 2018 10:40
                 338.7055054 5.380946159 435.394956 209.8587952
17 05 2018 10:50
                 653.5820923 6.491045952 802.4928658 211.2317963
17 05 2018 11:00
                 580.234314 6.193086147 691.0872934 213.7344055
17 05 2018 11:10
                 605.0825195 6.223021984 701.8464921 211.9490051
17 05 2018 11:20 511.1859131 6.12096405 665.5600245 214.4161987
17 05 2018 11:30 153.6295929 4.462302208 214.0627001 247.7434998
17 05 2018 11:40 543.1237793 5.751379013 544.3051525 224.298996
17 05 2018 11:50
                 799.1192017 6.718326092 894.0764991 224.9329071
17 05 2018 12:00 825.2639771 6.464252949 792.0787924 225.7565002
17 05 2018 12:10 210.5630035 4.470554829 215.7930272 236.9512024
17 05 2018 12:20 685.5040283 6.070715904 648.1035887 226.6533966
                 1038.465942 7.215209007 1115.886434 226.5644989
17 05 2018 12:30
                 1057.550049 7.387176037 1200.271012 222.3215027
17 05 2018 12:40
                 1384.884033 7.98585701 1521.908004 222.7498932
17 05 2018 12:50
17 05 2018 13:00
                 1789.040039 8.861401558 2055.054391 223.7467957
17 05 2018 13:10
                 2145.460938 9.973922729 2775.781001 221.3105927
17 05 2018 13:20
                 1959.390991 9.67232132 2570.937898 215.0659027
17 05 2018 13:30
                 1839.333984 9.681510925 2577.631298 207.6587982
17 05 2018 13:40
                 1908.390015 9.633324623 2542.20666 208.0634003
17 05 2018 13:50
                 2032.104004 9.890945435 2722.409268 208.2261047
17 05 2018 14:00 2088.00293 10.04983997 2822.703775 207.1383057
17 05 2018 14:10 1784.392944 9.312962532 2347.377957 207.3504028
17 05 2018 14:20 1885.740967 9.567560196 2492.539557 208.0171967
```

```
17 05 2018 14:30 1718.828979 8.96940136 2124.284158 210.5447998
17 05 2018 14:40 696.5114136 6.485591888 800.366509 215.1302948
17 05 2018 14:50 406.4342957 5.62470293 505.5986172 228.6546936
17 05 2018 15:00 430.3233032 5.776677132 552.2253685 238.4176025
17 05 2018 15:10 676.0916138 6.516588211 812.4948621 235.636795
17 05 2018 15:20
                 1172.124023 7.710665226 1368.91774 228.9098969
17 05 2018 15:30
                 1412.869995 8.296034813 1703.80447 230.2310944
                 1175.177979 7.742063999 1385.929699 230.6477051
17 05 2018 15:40
17 05 2018 15:50
                 931.7391968 7.020895958 1025.423186 236.046402
                 1247.094971 7.921597958 1485.423751 238.9933014
17 05 2018 16:00
17 05 2018 16:10
                 1170.01001 7.614771843 1317.718542 235.1520996
17 05 2018 16:20
                 1136.302979 7.694552898 1360.234798 234.6096039
17 05 2018 16:30
                 1335.355957 7.94824791 1500.501088 235.7118073
17 05 2018 16:40
                 1110.713989 7.510650158 1263.46761 236.7570038
17 05 2018 16:50 1008.164001 7.409379005 1211.47779 240.6269989
17 05 2018 17:00 564.4586182 6.120546818 665.4139653 247.5995941
17 05 2018 17:10 468.3244934 5.901629925 592.3017341 243.553299
17 05 2018 17:20 714.1668701 6.644080162 863.5125427 243.0310059
17 05 2018 17:30 650.6945801 6.469944
                                        794.2841899 245.8683929
17 05 2018 17:40
                 193.4425964 4.635059834 251.1476839 245.9004974
17 05 2018 17:50
                 164.3760986 4.557042122 234.1721945 246.364502
                 141.225296 4.40150404 201.4373853 240.0720978
17 05 2018 18:00
17 05 2018 18:10
                 187.3345032 4.754704952 277.9465255 229.6743927
17 05 2018 18:20
                 345.2167053 5.315066814 417.3400976 224.5209961
17 05 2018 18:30 616.4630737 6.374519825 757.7756401 232.7402039
17 05 2018 18:40
                 752.0103149 6.755904198 909.7898942 234.4351959
17 05 2018 18:50 570.0872192 6.158532143 678.7876378 232.3067932
17 05 2018 19:00 714.744812 6.593085766 842.8862504 228.802597
17 05 2018 19:10 1121.557007 7.589317799 1304.324544 231.1300049
                 1211.348022 7.555177212 1286.492385 235.5753021
17 05 2018 19:20
17 05 2018 19:30 897.4343872 6.956849098 996.6815097 237.2214966
17 05 2018 19:40 1281.386963 7.944024086 1498.106326 232.3986969
17 05 2018 19:50
                 1269.103027 8.086512566 1579.92129 230.8274994
17 05 2018 20:00 1032.892944 7.487816811 1251.661714 224.6280975
17 05 2018 20:10 1179.078979 8.211694717 1653.455027 219.6228943
17 05 2018 20:20 974.1845703 7.457763195 1236.154804 216.6835022
17 05 2018 20:30 648.3724976 6.260670185 715.5141217 226.6262054
                 295.6798096 5.294147015 411.6854206 245.675293
17 05 2018 20:40
17 05 2018 20:50 525.6627808 6.434206009 780.4941484 230.2075043
17 05 2018 21:00 739.4234009 7.218099117 1117.270198 222.8760986
17 05 2018 21:10 767.2675171 7.044678211 1036.228707 221.1004028
17 05 2018 21:20 750.3585205 6.725105762 896.8992264 225.8871002
17 05 2018 21:30
                 169.0771942 4.553186893 233.3432366 250.087204
17 05 2018 21:40
                 26.69062042 3.463428974 48.0110403 244.2554932
17 05 2018 21:50
                 154.0131073 4.410962105 203.3874578 239.5144043
17 05 2018 22:00
                 389.219696 5.602507114 498.9770082 238.7460938
                 234.2196045 4.806426048 289.8301433 250.3551025
17 05 2018 22:10
17 05 2018 22:20
                 0.568531871 2.890841961 0
                                               262.0853882
                       3.019305944 16.64760778 249.4219971
17 05 2018 22:30 0
                 246.862793 5.15588522 375.2390541 249.771698
17 05 2018 22:40
17 05 2018 22:50
                 613.928772 6.368113041 755.3601146 251.9521027
17 05 2018 23:00
                 711.796875 6.572638988 834.6986786 251.0964966
17 05 2018 23:10
                 814.4822998 6.89628315 969.9744386 248.1730042
17 05 2018 23:20 950.5814819 7.188238144 1103.028201 254.7749023
17 05 2018 23:30
                 724.1282959 6.570827961 833.9757548 258.111908
17 05 2018 23:40 440.8587952 5.940193176 604.9978927 255.6381989
17 05 2018 23:50 1132.821045 7.576591015 1297.659258 252.0164032
18 05 2018 00:00 728.0130005 6.629981041 857.7801063 255.6094055
18 05 2018 00:10 719.0396729 6.569425106 833.4160186 259.7726135
```

```
18 05 2018 00:20 1932.718994 9.276922226 2323.819379 274.255188
                  2005.817993 9.112830162 2216.967502 271.2969055
18 05 2018 00:30
18 05 2018 00:40
                  2647.149902 10.5223999 3076.401309 269.9642944
18 05 2018 00:50
                  2499.766113 10.38115025 3007.206814 282.9697876
18 05 2018 01:00
                  1807.48999 8.744970322 1981.060815 270.9742126
18 05 2018 01:10
                  1535.685059 8.02258873 1542.958777 264.9634094
                  1037.880005 7.114260197 1068.264855 259.6842957
18 05 2018 01:20
                  210.3869934 4.788992882 285.8039957 267.9874878
18 05 2018 01:30
                  911.4667969 7.187411785 1102.635808 243.399704
18 05 2018 01:40
18 05 2018 01:50
                  367.137207 5.464086056 458.7277005 268.0441895
18 05 2018 02:00
                  154.2503052 4.456610203 212.8715918 281.1755066
18 05 2018 02:10
                  95.2782135 4.221484184 165.2592473 290.4130859
18 05 2018 02:20
                  2.084739923 2.924994946 0
                                                 288.0266113
18 05 2018 02:30
                        3.301932096 32.95486636 311.9945984
18 05 2018 02:40
                  0
                        1.897933006 0
                                           318.5922852
18 05 2018 02:50
                  0
                        2.682598114 0
                                           5.932664871
18 05 2018 03:00
                  0
                        1.907222986 0
                                           21.13718033
18 05 2018 03:10
                  0
                        2.890525103 0
                                           35.77904892
18 05 2018 03:20
                  0
                        1.814018011 0
                                           80.18570709
18 05 2018 03:30
                  0
                        1.27778399 0
                                           99.09745026
18 05 2018 03:40
                        2.14932394 0
                                           87.65833282
                  0
18 05 2018 03:50
                  0
                        2.190305948 0
                                           181.0157928
18 05 2018 04:00
                  0
                        2.957462072 0
                                           199.2438049
18 05 2018 04:10
                  0
                        2.540899038 0
                                           206.0140991
18 05 2018 04:20
                        2.294848919 0
                                           202.9998016
18 05 2018 04:30
                        2.606170893 0
                                           189.1558075
18 05 2018 04:40
                        2.531817913 0
                                           192.982193
18 05 2018 04:50
                  0
                        2.783740997 0
                                           196.1477051
18 05 2018 05:00
                  0
                        3.076850891 18.93171327 191.4671936
18 05 2018 05:10
                  0
                        2.850363016 0
                                           192.3878937
18 05 2018 05:20
                  0
                        2.700042009 0
                                           181.8531952
18 05 2018 05:30
                        3.66562891 72.7450728 177.8869019
18 05 2018 05:40
                  48.68418121 4.013543129 125.518547 177.7400055
18 05 2018 05:50
                  34.50942993 3.609477997 65.22037019 172.6443024
18 05 2018 06:00
                  0.905932307 3.002269983 16.07305169 194.7463074
18 05 2018 06:10
                  0
                        2.798125982 0
                                           203.1847992
18 05 2018 06:20
                  0
                        2.907531977 0
                                           201.3370972
18 05 2018 06:30
                        2.452121973 0
                                           204.0178986
18 05 2018 06:40
                        1.535249949 0
                                           163.3871002
18 05 2018 06:50
                        1.547968984 0
                                           31.99630928
18 05 2018 07:00
                        1.832846045 0
                                           93.03179932
18 05 2018 07:10
                                           90.20594788
                  0
                        1.673388958 0
18 05 2018 07:20
                                           119.7710037
                  0
                        2.015688896 0
18 05 2018 07:30
                  0
                        2.574356079 0
                                           141.9797974
18 05 2018 07:40
                  0
                        2.268558979 0
                                           142.4317017
18 05 2018 07:50
                        2.468647003 0
                                           131.4613037
18 05 2018 08:00
                  0
                        2.13144207
                                           124.3406982
18 05 2018 08:10
                                           95.72942352
                  0
                        2.224677086 0
18 05 2018 08:20
                  0
                        2.042521954 0
                                           83.28524017
18 05 2018 08:30
                  0
                        2.008510113 0
                                           98.39350891
18 05 2018 08:40
                        2.358019114 0
                                           102.9192963
18 05 2018 08:50
                        2.649301052 0
                                           87.98854828
18 05 2018 09:00
                        2.268210888 0
                                           92.65753174
18 05 2018 09:10
                        2.047389984 0
                                           65.83432007
                  0
18 05 2018 09:20
                        2.528714895 0
                                           51.49259186
                  0
18 05 2018 09:30
                  0
                        2.551713943 0
                                           68.94831085
18 05 2018 09:40
                  0
                        2.02593708 0
                                           68.71125031
18 05 2018 09:50
                                           45.54557037
                  0
                        1.452803969 0
18 05 2018 10:00
                        1.036376953 0
                                           8.579637527
```

```
18 05 2018 10:10
                        0.75433898 0
                                          8.978165627
                  0
18 05 2018 10:20
                  0
                        0.921667814 0
                                          303.0552063
18 05 2018 10:30
                                           351,234314
                  0
                        0.933865488 0
18 05 2018 10:40
                  0
                        0.947987676 0
                                          1.086199999
18 05 2018 10:50
                  0
                        0.600207388 0
                                          65.90963745
18 05 2018 11:00
                        1.031443954 0
                                           210.3347015
18 05 2018 11:10
                  0
                        1.248937011 0
                                           358.0286865
18 05 2018 11:20
                  0
                        0.680969477 0
                                          305.526001
18 05 2018 11:30
                  0
                        0.963353515 0
                                          271.4100952
                                          217.4542999
18 05 2018 11:40
                  0
                        1.437914968 0
18 05 2018 11:50
                  0
                        2.167627096 0
                                          215.1761017
18 05 2018 12:00
                  0
                        2.832731009 0
                                          225.8710022
18 05 2018 12:10
                        1.740710974 0
                                          239.7261963
18 05 2018 12:20
                  0
                        1.975415945 0
                                          249.8647003
18 05 2018 12:30
                        2.251501083 0
                                          250.6983948
                  0
18 05 2018 12:40
                  0
                        1.828338027 0
                                           243.3638
18 05 2018 12:50
                  0
                        2.200794935 0
                                          263,4978027
18 05 2018 13:00
                  0
                        2.611193895 0
                                          253.3724976
18 05 2018 13:10
                  0
                        2.714849949 0
                                          235.4342041
18 05 2018 13:20
                  0
                        3.772088051 88.39641429 243.7807007
                  128.3034973 4.37113905 195.2109407 241.5187073
18 05 2018 13:30
                  161.5991974 4.300546169 180.9332162 249.2440948
18 05 2018 13:40
18 05 2018 13:50
                  235.3049011 4.774195194 282.4030262 246.2897949
18 05 2018 14:00
                  178.0164032 4.584639072 240.1330808 250.3981018
18 05 2018 14:10
                  162.6665039 4.451192856 211.7397222 257.0118103
18 05 2018 14:20
                  176.4011993 4.545528889 231.6993174 261.2514954
18 05 2018 14:30
                  159.703598 4.408392906 202.8572335 259.3418884
18 05 2018 14:40
                  83.83410645 3.879858971 106.0876317 254.6136017
                  63.3875618 3.631658077 68.1324126 255.7041931
18 05 2018 14:50
                  133.5003967 4.177091122 156.5993698 257.8630981
18 05 2018 15:00
                  130.7257996 4.135912895 148.6541852 258.2640076
18 05 2018 15:10
18 05 2018 15:20
                  162.634201 4.311378956 183.1065591 256.7919006
18 05 2018 15:30
                  52.05871964 3.503690004 52.41436978 257.094696
18 05 2018 15:40
                  16.18541908 3.163223028 23.35447746 270.889801
                  20.74688911 3.036940098 17.2912488 284.8830872
18 05 2018 15:50
18 05 2018 16:00
                  0
                        2.111135006 0
                                           292.9509888
18 05 2018 16:10
                  0
                        2.112169981 0
                                           302.7001953
18 05 2018 16:20
                  0
                        2.188496113 0
                                           308.4685059
18 05 2018 16:30
                        1.812281013 0
                                          296.5260925
18 05 2018 16:40
                        1.679713011 0
                                          289.3157043
18 05 2018 16:50
                        1.696349025 0
                                          285.0953979
                  0
18 05 2018 17:00
                  0
                        2.131983995 0
                                          274.1169128
18 05 2018 17:10
                                           271.9674988
                  0
                        2.375026941 0
18 05 2018 17:20
                  0
                        1.889592052 0
                                          280.2202148
18 05 2018 17:30
                  0
                        1.460479975 0
                                          289.3351135
18 05 2018 17:40
                  0
                        1.667193055 0
                                           300.4672852
18 05 2018 17:50
                  0
                        1.841617942 0
                                          311.4219055
18 05 2018 18:00
                  0
                        1.736034036 0
                                          307.7546082
18 05 2018 18:10
                  0
                        2.054342985 0
                                           284.8526917
18 05 2018 18:20
                  0
                        2.815318108 0
                                           261.8833923
18 05 2018 18:30
                  0
                        3.356412888 37.56762412 252.3332062
18 05 2018 18:40
                  0
                        2.475380898 0
                                           241.1752014
18 05 2018 18:50
                        3.13066411 21.5471003 233.5466003
18 05 2018 19:00
                  33.77930832 3.909456015 111.2714119 222.9049072
18 05 2018 19:10
                  86.63272095 4.023587227 127.3916559 223.6815948
18 05 2018 19:20
                  85.8049469 4.088147163 139.5405225 209.7498932
18 05 2018 19:30
                  85.98561096 4.09888792 141.5804163 210.9891968
18 05 2018 19:40
                  85.00222778 4.078568935 137.7259745 212.7014008
18 05 2018 19:50 150.6544952 4.500566959 222.1197158 210.7454071
```

```
18 05 2018 20:00 281.2307129 5.34092617 424.3820487 202.4734039
18 05 2018 20:10 246.8450928 5.139651775 371.0630463 199.6461945
18 05 2018 20:20 218.9539948 5.060914993 351.1066042 191.680603
18 05 2018 20:30 130.2135925 4.478431225 217.4482223 187.3990021
18 05 2018 20:40 87.39761353 4.134187222 148.3230284 186.3311005
18 05 2018 20:50 32.45149994 3.69373703 76.70127031 189.0702057
18 05 2018 21:00 63.75463104 4.000462055 123.0857926 189.0921936
18 05 2018 21:10
                 111.2265015 4.313876152 183.6084593 183.1941986
18 05 2018 21:20
                 70.53349304 3.932929993 115.4824295 180.479599
18 05 2018 21:30
                 21.52466011 3.499752998 51.9723407 182.8704987
18 05 2018 21:40 5.732261181 2.885524988 0
                                               193.6468964
18 05 2018 21:50 0
                       3.289125919 31.9395332 195.0630951
18 05 2018 22:00 0
                       3.307164907 33.37729947 201.001297
18 05 2018 22:10 0
                       3.183450937 24.5627697 201.5328979
18 05 2018 22:20 0
                       2.928261042 0
                                         203.0538025
18 05 2018 22:30 0
                       2.843061924 0
                                         196.6716003
18 05 2018 22:40 0
                       2.535454035 0
                                         191.2326965
18 05 2018 22:50 0
                       2.557077885 0
                                         212,4714966
18 05 2018 23:00 0
                       2.364722013 0
                                         221.0970001
18 05 2018 23:10 0
                       2.281394005 0
                                         200.9557037
                                         201.399704
18 05 2018 23:20 0
                       2.034516096 0
18 05 2018 23:30 0
                       2.730365038 0
                                         174.0446014
18 05 2018 23:40 36.70779037 3.927479982 114.4968889 165.2299957
18 05 2018 23:50 80.21681976 4.04858017 132.072218 177.7781982
19 05 2018 00:00 98.91763306 4.153809071 152.0969813 183.191803
19 05 2018 00:10 126.9990005 4.355250835 191.9735965 181.5554962
19 05 2018 00:20 181.9360962 4.713984966 268.7190501 174.7386017
19 05 2018 00:30 253.2292023 4.995402813 334.8710264 175.0527954
19 05 2018 00:40 263.2337036 5.052464008 348.9936314 177.2619019
19 05 2018 00:50 296.5176086 5.199109077 386.4627109 182.6802979
19 05 2018 01:00 325.7831116 5.246624947 398.9785246 188.0742035
19 05 2018 01:10 333.924408 5.393725872 438.9413999 190.2937927
19 05 2018 01:20 178.0617981 4.604743004 244.50552
                                                     182.3755035
19 05 2018 01:30 196.4915009 4.649610043 254.356454 184.4194031
19 05 2018 01:40 66.31906891 3.772151947 88.40635265 203.0592957
19 05 2018 01:50
                 34.19623947 3.504780054 52.53719397 221.6490936
19 05 2018 02:00 8.895933151 2.830009937 0
                                               229.6728058
                 101.6800003 3.979765892 124.1478048 216.2332001
19 05 2018 02:10
19 05 2018 02:20 352.3804932 5.387147903 437.1141727 209.2220001
19 05 2018 02:30 176.7465973 4.412903786 203.788427 209.1166992
19 05 2018 02:40 73.84770203 3.857064009 102.1907455 217.6282959
19 05 2018 02:50 97.78215027 4.123494148 146.2742275 236.4828949
19 05 2018 03:00 99.79380798 4.012187004 125.2659895 240.6983948
19 05 2018 03:10 237.1217957 4.881339073 307.3747055 244.7982941
19 05 2018 03:20 155.1195068 4.435760975 208.524857 243.9277954
19 05 2018 03:30 118.2990036 4.233544827 167.6292247 254.029007
19 05 2018 03:40 249.8217926 4.903233051 312.578174 264.1736145
19 05 2018 03:50 193.3840027 4.64546299 253.4405076 266.0242004
19 05 2018 04:00 215.5621033 4.790287971 286.1023678 260.1195068
19 05 2018 04:10 488.5332947 5.852207184 576.2580417 263.616394
19 05 2018 04:20 455.8776855 5.797244072 558.7119148 282.2607117
19 05 2018 04:30 236.6067047 4.782207966 284.2427346 289.7001953
19 05 2018 04:40
                 26.57938004 3.497838974 51.75833869 40.17290878
19 05 2018 04:50
                 145.4459991 4.256812096 172.2225658 124.8985977
19 05 2018 05:00 2.773339033 3.328481913 35.14345056 36.07793045
19 05 2018 05:10 0
                       2.396817923 0
                                         26.11173058
19 05 2018 05:20 0
                       2.83859992 0
                                         1.40318799
19 05 2018 05:30 0
                       3.494031906 51.33442294 36.04241943
19 05 2018 05:40 7.174665928 3.132560968 21.64774382 7.577127934
```

```
19 05 2018 05:50 0.0042
                             2.829483986 0
                                               19.93166924
19 05 2018 06:00 0 2.843085051 0 42.27693939
19 05 2018 06:10 0
                       2.557182074 0
                                         41.6031189
19 05 2018 06:20 0
                       1.882946014 0
                                         21.32669067
19 05 2018 06:30 0
                       2.206425905 0
                                         44.23326111
19 05 2018 06:40 0
                       2.656335115 0
                                         60.79516983
19 05 2018 06:50 0
                       1.839159012 0
                                         70.96080017
19 05 2018 07:00 0
                       2.219450951 0
                                         106.9618988
19 05 2018 07:10 0
                       2.510411024 0
                                         81.19142151
19 05 2018 07:20 0
                       3.251429081 29.10305721 82.52217102
19 05 2018 07:30 0
                                      93.93733978
                       2.530299902 0
19 05 2018 07:40 0
                       2.372098923 0
                                         69.85565948
19 05 2018 07:50 0
                       2.945913076 0
                                         66.60076904
19 05 2018 08:00 19.60478973 3.542474985 56.90152828 70.15854645
19 05 2018 08:10 15.39908028 3.047859907 17.71476269 71.78394318
19 05 2018 08:20 11.2806797 3.108516932 20.41461576 69.7893219
19 05 2018 08:30 75.27487946 3.798858881 92.61752513 68.70304871
19 05 2018 08:40 51.21300888 3.581252098 61.62838726 69.99237061
19 05 2018 08:50 203.5930939 4.508328915 223.7647339 76.22292328
19 05 2018 09:00 103.2529984 4.00512886 123.9528344 74.62474823
19 05 2018 09:10 98.15061188 4.127628803 147.0657782 73.08840942
19 05 2018 09:20 2.96399498 4.118062019 145.2355301 99.70068359
19 05 2018 09:30 0
                       4.646567822 253.6844195 114.4990997
19 05 2018 09:40 0
                       3.70954299 78.98147601 102.4091034
19 05 2018 09:50 0
                       2.461982965 0
                                         70.51344299
19 05 2018 10:00 0
                       3.555897951 58.510537
                                               180.2713928
19 05 2018 10:10 33.16310883 3.707309961 78.65690927 162.9432983
19 05 2018 10:20 158.9909973 4.475442886 216.8198019 151.2154999
19 05 2018 10:30 159.9593048 4.404208183 201.9944078 148.4100037
19 05 2018 10:40 117.3243027 4.164143085 154.0921229 146.8338928
19 05 2018 10:50 131.1268005 4.199674129 160.9922922 172.9147034
19 05 2018 11:00 11.80154037 3.217828035 26.76642137 191.6501007
19 05 2018 11:10 31.71769905 3.359694004 37.86059025 208.2218018
19 05 2018 11:20 5.163216114 2.289978981 0
                                               224.5890961
19 05 2018 11:30 0
                       2.216717005 0
                                         185.1304016
19 05 2018 11:40 0
                       3.073254108 18.77342462 196.871994
19 05 2018 11:50 187.8016052 4.750409126 276.9677625 198.9685059
19 05 2018 12:00 4.159666061 2.749567032 0
                                               228.8932037
19 05 2018 12:10 0
                      2.318986893 0
                                         238.1773071
19 05 2018 12:20 0
                       1.673712969 0
                                         197.2498016
19 05 2018 12:30 0
                       3.132249117 21.63115805 207.4777069
19 05 2018 12:40 0
                       3.420340061 43.58574332 206.4492035
19 05 2018 12:50 0
                       2.521440983 0
                                         205.9414978
19 05 2018 13:00 0
                       2.505008936 0
                                         235.5028076
19 05 2018 13:10 0
                       2.893830061 0
                                         260.3410034
19 05 2018 13:20 0
                       2.837002993 0
                                         263.8710022
19 05 2018 13:30 3.785201073 3.518434048 54.09179847 255.956604
19 05 2018 13:40 9.071616173 2.97925806 0 276.5586853
19 05 2018 13:50 0
                       1.187718987 0
                                         288.7192078
19 05 2018 14:00 0
                       1.112210035 0
                                         354.4917908
19 05 2018 14:10 0
                       1.217515945 0
                                         328.1388855
19 05 2018 14:20 0
                       1.620978951 0
                                         9.200975418
19 05 2018 14:30 0
                       2.94498992 0
                                         45.89472961
19 05 2018 14:40 0
                       4.184537888 158.0451225 53.26470947
19 05 2018 14:50 0
                       4.760913849 279.3633865 51.60525894
19 05 2018 15:00 12.25946999 5.687303066 524.5298426 66.02256775
19 05 2018 15:10 222.459198 4.76632309 280.5999148 54.1774292
19 05 2018 15:20 436.388092 5.712263107 532.1847827 70.30721283
19 05 2018 15:30 155.9875946 4.227311134 166.4033413 60.6069603
```

```
19 05 2018 15:40 184.4837952 4.645711899 253.4954519 74.77887726
19 05 2018 15:50 84.97657776 4.156939983 152.7008992 61.1548996
19 05 2018 16:00
                 181,2559967 4,644516945 253,2317135 71,44779205
19 05 2018 16:10 96.12016296 3.939903975 116.7504857 72.05641937
19 05 2018 16:20 44.24391174 3.325207949 34.86747115 95.91639709
19 05 2018 16:30 0
                       2.176445961 0
                                         103.4685974
19 05 2018 16:40 0
                       2.742830992 0
                                         102.2342987
                       3.168958902 23.69045373 107.1537018
19 05 2018 16:50 0
19 05 2018 17:00 0
                       3.198357105 25.49507066 111.7584
19 05 2018 17:10 0
                       3.147892952 22.48236048 116.6955032
19 05 2018 17:20 108.3664017 4.770492077 281.5542945 121.3868027
19 05 2018 17:30 231.7781067 4.952252865 324.3557673 122.6451035
19 05 2018 17:40 236.4707947 4.967523098 328.061002 137.4174042
19 05 2018 17:50 185.3493958 4.598745823 243.1985146 144.5115967
19 05 2018 18:00 156.5455017 4.318025112 184.4430854 141.0319977
19 05 2018 18:10 11.79899979 2.536783934 0
                                               152.6685944
19 05 2018 18:20 0
                       1.624994993 0
                                         163.7528992
19 05 2018 18:30 14.03866005 3.785960913 90.56951371 149.0605927
19 05 2018 18:40 3.743339062 2.583864927 0
                                               170.9815063
19 05 2018 18:50 0
                       3.054220915 17.97026188 165.5177002
19 05 2018 19:00 21.55168915 3.370287895 38.81826267 154.6728973
19 05 2018 19:10 185.3417969 4.795273781 287.25212 144.9445038
19 05 2018 19:20
                 196.7841034 4.787127972 285.3745483 141.7494965
19 05 2018 19:30 234.4445953 4.893664837 310.2998493 145.8932037
19 05 2018 19:40 384.3530884 5.815207005 564.4123109 139.2151031
19 05 2018 19:50 442.9256897 5.95032692 608.3603213 135.6278992
19 05 2018 20:00 393.944397 5.727837086 536.9922837 136.0549927
19 05 2018 20:10 335.5916138 5.464736938 458.9128205 137.721405
19 05 2018 20:20 232.3964996 4.84966898 299.9089348 138.2142029
19 05 2018 20:30 237.1499023 4.940279961 321.4627622 139.121994
19 05 2018 20:40 443.4147034 5.973620892 616.1308671 140.4763031
19 05 2018 20:50 747.9152832 6.74759388 906.3006567 143.3506012
19 05 2018 21:00 903.2703857 7.322049141 1167.816049 144.2299957
19 05 2018 21:10 963.005188 7.542243004 1279.776838 143.0384064
19 05 2018 21:20 1187.042969 7.849605083 1445.083979 146.9739075
                 1250.052002 8.250624657 1676.617838 146.1053009
19 05 2018 21:30
19 05 2018 21:40 944.2102051 7.445888996 1230.065997 148.6663055
19 05 2018 21:50 969.6646729 7.524378777 1270.538283 147.5469971
19 05 2018 22:00 606.1633911 6.416752815 773.8105827 149.5518951
19 05 2018 22:10 266.0958862 5.032968044 344.1402478 152.2615967
19 05 2018 22:20 134.7012024 4.296092033 180.0414267 152.3556061
19 05 2018 22:30 32.59051895 3.12745595 21.37819192 161.3383942
19 05 2018 22:40 0.333400309 2.388412952 0
                                             161.7411957
19 05 2018 22:50 0
                    1.944023967 0
                                         59.0152092
19 05 2018 23:00 0
                       0.734155416 0
                                         108.591301
19 05 2018 23:10 0
                       0.931808829 0
                                         119.6147995
19 05 2018 23:20 0
                       2.176093102 0
                                         40.65610886
                       2.308763027 0
19 05 2018 23:30 0
                                         14.8094101
19 05 2018 23:40 0
                       1.962476015 0
                                         357.5483093
19 05 2018 23:50 0
                       2.648756981 0
                                         327.2579041
20 05 2018 00:00 0
                       3.2688241
                                   30.38368298 4.644450188
20 05 2018 00:10 0
                       2.684551954 0
                                         33.18869019
20 05 2018 00:20 17.11067963 3.239646912 28.26315255 40.3854599
20 05 2018 00:30 123.1751022 4.062255859 134.6453508 56.68777847
20 05 2018 00:40 328.7507935 5.229988098 394.5749582 58.54626846
20 05 2018 00:50 340.5679016 5.321671963 419.1332981 69.9174881
20 05 2018 01:00 79.98652649 3.14468503 22.30462159 85.29563904
20 05 2018 01:10 22.93017006 2.404861927 0 81.13540649
20 05 2018 01:20 4.338344097 2.580755949 0
                                               98.63237762
```

```
20 05 2018 01:30 0
                       2.278809071 0
                                         107.2955017
20 05 2018 01:40
                 0
                       1.562088013 0
                                         117.7397995
                       0.83674562 0
20 05 2018 01:50
                 0
                                         138.9461975
20 05 2018 02:00 0
                       1.34505105 0
                                         99.79679108
20 05 2018 02:10 0
                       1.756325006 0
                                         84.30919647
20 05 2018 02:20
                 0
                       2.587158918 0
                                         81.37468719
20 05 2018 02:30
                 0
                       3.74753499 84.62580463 81.73075867
20 05 2018 02:40
                 110.6063004 4.063611984 134.9009782 72.72398376
20 05 2018 02:50
                 97.61136627 4.117569923 145.1415043 73.02738953
                 145.8175964 4.268084049 174.4579745 78.38963318
20 05 2018 03:00
20 05 2018 03:10
                 254.5691986 5.275050163 406.5561354 73.51413727
20 05 2018 03:20
                 232.3403931 4.991744995 333.9742059 74.43596649
20 05 2018 03:30
                 253.9734039 5.085109234 357.1866632 69.74803162
20 05 2018 03:40
                 370.8299866 5.489734173 466.0515942 70.60027313
20 05 2018 03:50
                 333.5242004 5.327630043 420.7540586 69.00417328
20 05 2018 04:00
                 337.9690857 5.354860783 428.2007469 69.74598694
                 320.3666077 5.240008831 397.2245485 65.22046661
20 05 2018 04:10
20 05 2018 04:20
                 342.1005859 5.378930092 434.8368027 71.69774628
20 05 2018 04:30 520.8469849 6.074330807 649.3504172 64.6280899
                 600.1414795 6.386898994 762.4555737 61.85832977
20 05 2018 04:40
20 05 2018 04:50
                 786.041687 6.825351238 939.2680858 65.89459991
                 858.8035278 7.077057838 1051.057896 59.72856903
20 05 2018 05:00
20 05 2018 05:10
                 523.3101807 5.996328831 623.7618867 54.37176132
20 05 2018 05:20
                 782.8726196 6.824087143 938.726377 54.81740189
20 05 2018 05:30 664.3837891 6.394246101 765.2410412 55.41207886
20 05 2018 05:40 889.2559814 7.071179867 1048.355788 57.94932938
20 05 2018 05:50 858.7907715 6.956298828 996.4368107 64.14470673
20 05 2018 06:00 951.364624 7.200808048 1109.008459 64.90598297
20 05 2018 06:10 930.2180786 7.091725826 1057.820472 64.36060333
20 05 2018 06:20 946.5662842 7.224954128 1120.556933 61.12314987
20 05 2018 06:30
                 1006.78302 7.353221893 1183.273444 60.1147995
20 05 2018 06:40 894.3397217 7.089476109 1056.781425 63.36101913
20 05 2018 06:50
                 736.9990845 6.775618076 918.0996679 60.74771118
20 05 2018 07:00
                 670.1746216 6.454790115 788.4196612 66.92577362
                 636.4086304 6.397751808 766.5722163 68.05898285
20 05 2018 07:10
20 05 2018 07:20
                 515.1049805 6.087824821 654.017017 67.81613922
20 05 2018 07:30
                 700.531311 6.584208012 839.3255069 64.13522339
20 05 2018 07:40
                 721.4821777 6.581002235 838.0419015 61.8239212
20 05 2018 07:50
                 276.3634949 4.560646057 234.9479499 53.37147141
20 05 2018 08:00
                 369.1547852 5.039712906 345.8160082 34.52787018
20 05 2018 08:10 394.9212036 5.291328907 410.9265421 41.19498062
20 05 2018 08:20 348.3695068 5.177950859 380.949626 35.1654892
20 05 2018 08:30 550.3557129 5.693311214 526.3668703 36.05770874
20 05 2018 08:40 428.8121033 5.418588161 445.8823483 40.15055847
20 05 2018 08:50
                 605.8535156 6.01286602 628.3403725 41.51914978
20 05 2018 09:00
                 415.1315918 5.433643818 450.1123546 34.76417923
20 05 2018 09:10
                 512.5161133 5.569125175 489.1065559 25.20030022
20 05 2018 09:20
                 369.7515869 5.329445839 421.2486147 24.22641945
                 336.3912964 5.092506886 359.0548855 34.89522171
20 05 2018 09:30
20 05 2018 09:40
                 277.5325012 4.757821083 278.6572931 43.08518982
20 05 2018 09:50
                 280.6307983 4.86893177 304.4412895 35.18196106
20 05 2018 10:00
                 438.2903137 5.576748848 491.3514483 23.69496918
20 05 2018 10:10
                 518.7504272 5.896593094 590.6550137 22.28819084
20 05 2018 10:20 462.7141113 5.704274178 529.7280018 20.8660202
20 05 2018 10:30
                 545.7470703 5.953821182 609.5222678 19.70594978
20 05 2018 10:40 488.180603 5.798937798 559.2480039 16.55481911
20 05 2018 10:50 410.7691956 5.640017986 510.1950623 14.8270998
20 05 2018 11:00 312.4003906 5.135857105 370.0899411 18.39908028
20 05 2018 11:10 277.7774048 4.995032787 334.7802577 17.07011986
```

```
20 05 2018 11:20 320.041687 5.209177017 389.0989904 18.40506935
20 05 2018 11:30
                 340.0415039 5.256894112 401.7082252 11.85735989
                 352.0320129 5.356795788 428.732363 12.75533009
20 05 2018 11:40
20 05 2018 11:50
                 357.8575134 5.383472919 436.095002 15.66473007
20 05 2018 12:00
                 463.7174072 5.799582005 559.4519813 13.37959003
20 05 2018 12:10
                 471.5035095 5.878203869 584.6654371 14.24186993
                  545.3743896 6.113094807 662.8083972 12.43257046
20 05 2018 12:20
20 05 2018 12:30
                 715.2910767 6.597011089 844.4634832 8.245293617
                  655.9387207 6.36964798 755.9384199 11.11126995
20 05 2018 12:40
                  528.3389282 6.104351997 659.7590712 8.964449883
20 05 2018 12:50
20 05 2018 13:00
                 708.8997192 6.670517921 874.322989 12.2361002
20 05 2018 13:10
                 634.2603149 6.361933231 753.0343952 15.57756042
20 05 2018 13:20
                  661.934021 6.355052948 750.4499419 16.00646019
20 05 2018 13:30
                 708.2139282 6.583967209 839.2290483 21.6870594
20 05 2018 13:40
                 786.6878052 6.801140785 928.9263265 24.76947021
20 05 2018 13:50
                 687.515686 6.422729969 776.0957276 30.33356094
20 05 2018 14:00
                 798.4456787 6.77392292 917.3833238 34.80681992
20 05 2018 14:10
                 1215.494995 7.753705025 1392.26714 36.44161987
20 05 2018 14:20
                 1475.620972 8.335515976 1727.584218 36.71482086
                 1914.26001 9.410217285 2411.071771 39.49354935
20 05 2018 14:30
                 1930.613037 9.272348404 2320.831602 41.40842056
20 05 2018 14:40
20 05 2018 14:50
                 1535.849976 8.312849045 1713.915806 41.39384079
20 05 2018 15:00
                 1880.043945 9.030614853 2163.745567 40.50214005
20 05 2018 15:10
                 1595.744019 8.081973076 1577.282964 37.82172012
20 05 2018 15:20
                 1393.240967 7.86002779 1450.888241 36.33589172
20 05 2018 15:30 1172.477051 7.29745388 1155.718802 37.30072021
20 05 2018 15:40 1450.970947 7.923319817 1486.395575 38.03762817
20 05 2018 15:50
                 1239.071045 7.462916851 1238.804147 44.17158127
                 709.6160889 6.235326767 706.2968141 48.371521
20 05 2018 16:00
20 05 2018 16:10 546.4006958 5.974538803 616.4382577 58.5945015
20 05 2018 16:20
                 1004.585999 7.291130066 1152.622355 58.77544022
20 05 2018 16:30
                 1075.458984 7.445695877 1229.967147 58.67333984
20 05 2018 16:40
                 1080.475952 7.450088024 1232.216714 60.27576065
20 05 2018 16:50
                 1281.922974 7.799137115 1417.154964 57.44324875
                 1299.432007 8.100000381 1587.77228 62.03908157
20 05 2018 17:00
20 05 2018 17:10
                  1276.337036 7.981135845 1519.212526 62.20346069
20 05 2018 17:20
                 1204.230957 7.812348843 1424.437919 60.04104996
                 997.8571167 7.290178776 1152.157048 58.97613144
20 05 2018 17:30
20 05 2018 17:40
                 1237.265991 7.785242081 1409.517345 60.68603897
20 05 2018 17:50
                 1189.662964 7.590343952 1304.862883 56.48207092
20 05 2018 18:00
                 1457.964966 8.208732605 1651.698173 59.28852081
20 05 2018 18:10 1516.063965 8.353750229 1738.610486 60.62353134
20 05 2018 18:20
                 1813.782959 8.868569374 2059.632313 65.35771942
20 05 2018 18:30
                 1479.910034 8.228636742 1663.518687 66.61802673
20 05 2018 18:40
                 1254.916016 7.804100037 1419.888387 66.91776276
20 05 2018 18:50
                 1248.947998 7.737315178 1383.349098 72.34369659
                 946.9345703 7.155477047 1087.542607 74.35437775
20 05 2018 19:00
                 1203.188965 7.901163101 1473.915018 68.74294281
20 05 2018 19:10
20 05 2018 19:20
                 1095.463989 7.629730225 1325.628644 73.1167984
20 05 2018 19:30
                 1241.534058 8.092524529 1583.418531 72.86004639
20 05 2018 19:40
                 917.8850708 7.214669228 1115.628118 75.84512329
20 05 2018 19:50
                 942.3894043 7.221598148 1118.94705 73.28439331
20 05 2018 20:00
                 712.2316284 6.527266026 816.6976579 77.47837067
20 05 2018 20:10
                 869.3880005 7.258639812 1136.802669 78.20852661
20 05 2018 20:20
                 663.7011108 6.817645073 935.9687028 77.09327698
20 05 2018 20:30
                 742.7772827 6.936719894 987.7548829 67.17012024
20 05 2018 20:40
                 823.6339111 7.069871902 1047.755129 57.41004181
20 05 2018 20:50
                 1048.145996 7.386712074 1200.03761 53.38119125
20 05 2018 21:00 1099.311035 7.410719872 1212.156927 50.26728058
```

```
20 05 2018 21:10 1093.009033 7.435173988 1224.589921 54.17266083
                 905.848877 7.115674973 1068.922821 55.26309967
20 05 2018 21:20
20 05 2018 21:30
                 859,2102051 6,959239006 997,7447147 54,36779022
20 05 2018 21:40 981.8762207 7.270592213 1142.605074 53.79771042
                 1174.645996 7.796364784 1415.629302 56.98591995
20 05 2018 21:50
20 05 2018 22:00
                 988.1754761 7.391531944 1202.463863 54.92308044
                 798.897522 6.979489803 1006.782514 61.52207947
20 05 2018 22:10
                 702.2119751 6.611982822 850.4952917 62.32057953
20 05 2018 22:20
20 05 2018 22:30
                 766.0598755 6.900105
                                         971.6463187 60.54357147
20 05 2018 22:40
                 704.5283203 6.662292957 870.951189 60.93505859
20 05 2018 22:50
                 891.9995728 7.106700897 1064.753756 55.77428055
20 05 2018 23:00
                 871.2614746 7.027077198 1028.224663 54.42435074
20 05 2018 23:10
                 760.6102295 6.932520866 985.8991157 63.90596008
20 05 2018 23:20
                 868.6956177 7.0334692
                                       1031.126813 63.47827148
20 05 2018 23:30
                 1028.831055 7.337545872 1175.482732 59.3931694
20 05 2018 23:40
                 1106.569946 7.491549969 1253.597617 55.73651123
20 05 2018 23:50
                 1089.01001 7.346713066 1180.034341 52.94369888
21 05 2018 00:00
                 1084.147949 7.494394779 1255.074293 56.61510849
21 05 2018 00:10 1062.918945 7.3767519 1195.034658 56.31430054
                 1151.718994 7.803654194 1419.642713 59.81233978
21 05 2018 00:20
21 05 2018 00:30
                 1210.093994 7.623719215 1322.446532 60.55527115
                 1325.36499 8.055212021 1561.771148 64.83709717
21 05 2018 00:40
21 05 2018 00:50
                 1353.646973 7.852979183 1446.961621 68.84707642
21 05 2018 01:00
                 1428.313965 8.152212143 1618.329694 65.93386841
21 05 2018 01:10
                 1571.380005 8.639231682 1914.521423 64.89996338
21 05 2018 01:20 1633.777954 8.883813858 2069.376863 70.57933044
21 05 2018 01:30
                 1686.792969 8.925674438 2096.190922 71.61386108
                 1721.037964 8.932085991 2100.304926 72.24974823
21 05 2018 01:40
                 1721.185059 9.036499023 2167.546553 71.33889771
21 05 2018 01:50
21 05 2018 02:00
                 1815.875
                           9.208511353 2279.1831
                                                    67.35952759
21 05 2018 02:10 2016.652954 9.518099785 2454.164999 67.74099731
21 05 2018 02:20 2004.994995 9.432231903 2425.509682 69.54618835
21 05 2018 02:30
                 1799.814941 9.196960449 2271.658193 67.10664368
21 05 2018 02:40
                 1878.11499 9.528375626 2462.210551 65.85487366
                 1769.583008 9.139717102 2234.422528 68.00351715
21 05 2018 02:50
                 1929.651978 9.514357567 2451.22545 68.03005981
21 05 2018 03:00
                 2143.210938 10.17807961 2897.948011 70.36974335
21 05 2018 03:10
21 05 2018 03:20
                 1952.796997 9.977489471 2778.02597 74.17494965
21 05 2018 03:30 1824.031982 9.267155647 2317.440088 72.37503815
21 05 2018 03:40 1649.369019 9.086864471 2200.133033 71.55033875
21 05 2018 03:50 1543.253052 9.064270973 2185.50373 69.40830994
21 05 2018 04:00 1355.212036 8.512174606 1835.506519 66.42986298
21 05 2018 04:10 1153.345947 7.616611004 1318.689556 72.76038361
21 05 2018 04:20
                 1308.297974 7.882328033 1463.348061 74.5163269
21 05 2018 04:30
                 1027.837036 7.354261875 1183.79156 74.96524811
                 1320.386963 8.115374565 1596.742933 75.46793365
21 05 2018 04:40
                 1481.672974 8.376628876 1752.483441 72.44093323
21 05 2018 04:50
                 1303.657959 8.016677856 1539.561859 72.37301636
21 05 2018 05:00
                 1309.310059 7.994709015 1526.968221 72.38017273
21 05 2018 05:10
21 05 2018 05:20
                 1117.530029 7.550970078 1284.305568 74.64108276
21 05 2018 05:30
                 1071.656006 7.358862877 1186.085654 71.98285675
21 05 2018 05:40
                 1251.522949 7.799675941 1417.451593 71.88909912
21 05 2018 05:50
                 1260.567017 7.77256918 1402.571308 71.02152252
21 05 2018 06:00
                 1161.572998 7.604607105 1312.359769 71.50084686
21 05 2018 06:10
                 1179.052979 7.662798882 1343.216688 72.17746735
21 05 2018 06:20 1067.738037 7.349112034 1181.227465 70.40395355
21 05 2018 06:30 977.880188 7.215941906 1116.237232 66.54789734
21 05 2018 06:40 1263.993042 7.786301136 1410.098672 68.73536682
21 05 2018 06:50 1333.446045 7.896781921 1471.453555 68.45239258
```

```
21 05 2018 07:00 1046.80603 7.173820019 1096.195115 72.30684662
21 05 2018 07:10 959.5692139 7.173186779 1095.895654 66.91641235
21 05 2018 07:20 1018.047974 7.221026897 1118.673172 68.82932281
21 05 2018 07:30 1094.140015 7.327602863 1170.559659 74.00067902
21 05 2018 07:40 1158.293945 7.59773016 1308.741868 70.34393311
21 05 2018 07:50 1536.578979 8.419924736 1778.850639 66.14733124
21 05 2018 08:00
                 1482.396973 8.173816681 1631.04963 66.7333374
                 1488.537964 8.314366341 1714.829413 64.21327972
21 05 2018 08:10
21 05 2018 08:20 1502.541016 8.286377907 1698.008086 65.75895691
21 05 2018 08:30
                 1216.771973 7.724981785 1376.659637 68.99030304
21 05 2018 08:40 1060.192993 7.312519073 1163.118394 69.11904144
21 05 2018 08:50 1136.152954 7.502353191 1259.206764 64.87387848
21 05 2018 09:00 1467.137939 8.148409843 1616.095578 68.37835693
21 05 2018 09:10 1652.738037 8.609677315 1896.046286 65.73326111
21 05 2018 09:20 1451.932983 8.132061958 1606.505666 65.10553741
21 05 2018 09:30 1744.042969 8.702852249 1954.476994 64.52990723
21 05 2018 09:40 1941.807007 9.252223015 2307.6907 60.93135071
21 05 2018 09:50 1475.426025 8.228733063 1663.575975 61.05047989
21 05 2018 10:00 1597.297974 8.41252327 1774.332754 56.63095856
21 05 2018 10:10 1446.196045 8.031909943 1548.322857 57.44646835
21 05 2018 10:20 1323.987061 7.855916977 1448.597516 59.40552139
21 05 2018 10:30 1239.116943 7.746235847 1388.199005 60.55186081
21 05 2018 10:40 1483.297974 8.189281464 1640.18137 56.97280884
21 05 2018 10:50
                 1578.175049 8.389572144 1760.350438 56.20996857
21 05 2018 11:00 1586.623047 8.355080605 1739.416029 54.28442001
21 05 2018 11:10 1594.25
                             8.376906395 1752.651979 56.28437042
21 05 2018 11:20 1917.125
                             9.162439346 2249.191385 58.40911102
21 05 2018 11:30 2162.746094 9.624699593 2535.780099 58.83890152
21 05 2018 11:40 1994.604004 9.328121185 2357.294685 59.43484879
21 05 2018 11:50 2045.416992 9.467877388 2448.899545 58.74320984
21 05 2018 12:00 2165.018066 9.671760559 2570.52851 59.6167717
21 05 2018 12:10 1797.208008 8.912112236 2087.494751 56.94641113
21 05 2018 12:20
                 2019.938965 9.304670334 2341.955164 57.33567047
21 05 2018 12:30
                 1951.994019 9.268760681 2318.488308 57.76195145
21 05 2018 12:40
                 1568.723999 8.301015854 1706.797355 54.41838837
                 1721.046997 8.658923149 1926.86172 54.1530304
21 05 2018 12:50
21 05 2018 13:00
                 1748.342041 8.6954813 1949.835274 54.63336945
                 1804.449951 8.83008194 2035.081023 54.4292717
21 05 2018 13:10
21 05 2018 13:20 1898.853027 9.108914375 2214.427318 54.07584
21 05 2018 13:30 1400.099976 8.105735779 1591.11613 51.49385834
21 05 2018 13:40 1629.145996 8.492400169 1823.309166 52.68515015
21 05 2018 13:50 2035.029053 9.461396217 2444.645694 57.04664993
21 05 2018 14:00 2312.191895 10.09550953 2850.071569 57.22261047
21 05 2018 14:10 2466.641113 10.34459972 2988.408747 57.42261124
21 05 2018 14:20 2235.791992 9.618831635 2531.392865 56.35548019
21 05 2018 14:30 2196.387939 9.771824837 2641.869658 56.22262955
21 05 2018 14:40 2155.883057 9.407225609 2409.110231 53.24132919
21 05 2018 14:50 1484.697998 8.083669662 1578.268773 52.93228912
21 05 2018 15:00 1645.238037 8.394379616 1763.27583 53.97357941
21 05 2018 15:10 1932.755005 9.067165375 2187.376849 54.65547943
21 05 2018 15:20
                 2141.717041 9.390207291 2397.954322 53.43112946
21 05 2018 15:30 2713.88501 10.81474972 3203.03805 54.10813904
21 05 2018 15:40
                2590.124023 10.47531033 3053.934203 54.51686096
21 05 2018 15:50 2451.650879 10.18348026 2901.008492 54.97555161
21 05 2018 16:00 1900.843018 8.957810402 2116.82928 55.83153915
21 05 2018 16:10 1998.008057 9.060555458 2183.099666 53.62073898
21 05 2018 16:20 1555.037964 8.020377159 1541.68739 50.54880905
21 05 2018 16:30 1779.22998 8.713238716 1961.023118 56.46876907
21 05 2018 16:40 2516.260986 10.22601032 2924.809369 57.2053299
```

```
21 05 2018 16:50 2307.727051 9.718175888 2604.046498 56.11516953
21 05 2018 17:00
                 2133.166016 9.446819305 2435.079916 57.00632095
21 05 2018 17:10
                 2421.937988 9.991599083 2786.867473 57.29639053
21 05 2018 17:20
                 2924.778076 11.49283981 3420.045536 60.88039017
21 05 2018 17:30
                 3006.813965 11.61312962 3448.533336 61.23635101
21 05 2018 17:40
                  3114.337891 12.09453011 3535.890474 61.87604904
21 05 2018 17:50
                  2987.708008 11.6511898 3456.96956 63.76197052
                 2674.065918 10.62858963 3124.917303 64.11118317
21 05 2018 18:00
21 05 2018 18:10
                 2316.621094 9.823612213 2677.460824 64.91441345
21 05 2018 18:20
                 2320.534912 9.95602417 2764.454533 64.50670624
21 05 2018 18:30
                 2178.977051 9.637134552 2545.037127 67.26036072
21 05 2018 18:40
                 1733.75
                              8.579250336 1877.084973 67.9776535
21 05 2018 18:50
                 1704.409058 8.594706535 1886.70925 71.79514313
21 05 2018 19:00
                 1679.33606 8.564066887 1867.6461
                                                      73.91454315
21 05 2018 19:10
                 1534.090942 8.331723213 1725.294166 76.40131378
21 05 2018 19:20
                 1465.551025 7.893366814 1469.536329 77.78103638
21 05 2018 19:30
                 2088.413086 9.540762901 2471.858304 76.34375
21 05 2018 19:40
                 1741.359985 8.95533371 2115.237103 75.33370209
21 05 2018 19:50
                 1719.338013 8.857583046 2052.616617 75.28869629
21 05 2018 20:00
                 1625.887939 8.717049599 1963.426529 75.12496185
21 05 2018 20:10
                 2044.384033 9.426584244 2421.805163 75.06224823
                 1865.890991 9.084641457 2198.692838 74.84615326
21 05 2018 20:20
21 05 2018 20:30
                 1793.708008 9.082995415 2197.626549 77.46838379
21 05 2018 20:40
                 1279.271973 7.864105225 1453.162251 76.14360809
21 05 2018 20:50
                 777.0736084 6.330051899 741.1020058 78.47651672
21 05 2018 21:00
                 1199.635986 7.768651962 1400.428121 75.01284027
21 05 2018 21:10
                 1573.650024 8.70780468 1957.597499 76.86714935
                 1110.245972 7.596675873 1308.187759 76.49089813
21 05 2018 21:20
21 05 2018 21:30
                 1086.472046 7.465174198 1239.965858 76.29016876
                 1119.009033 7.659113884 1341.249928 75.89585114
21 05 2018 21:40
21 05 2018 21:50
                 1029.297974 7.417311192 1215.499277 75.73243713
21 05 2018 22:00
                 925.9711304 7.159111023 1089.253176 75.91770935
21 05 2018 22:10
                 1169.360962 7.857834816 1449.665982 74.2326889
21 05 2018 22:20
                 1110.36499 7.674602985 1349.528251 74.55515289
21 05 2018 22:30
                 1259.899048 7.894760132 1470.318375 71.65068054
                 1458.665039 8.139731407 1611.001516 70.24720001
21 05 2018 22:40
21 05 2018 22:50
                 1232.295044 7.689775944 1357.666647 67.11756134
                 1420.795044 8.061052322 1565.150333 69.91401672
21 05 2018 23:00
21 05 2018 23:10
                 1385.75
                              7.982130051 1519.779958 71.80647278
21 05 2018 23:20
                 1485.541016 8.200680733 1646.926563 67.78514099
21 05 2018 23:30
                 1910.766968 9.073815346 2191.681524 69.23912048
21 05 2018 23:40 2258.764893 9.878797531 2714.409561 69.57495117
21 05 2018 23:50
                 1673.86499 8.714580536 1961.869267 72.13593292
22 05 2018 00:00
                 1062.371948 7.476297855 1245.701864 72.56854248
22 05 2018 00:10
                 1189.729004 7.707564831 1367.244456 71.49092865
22 05 2018 00:20
                 1187.881958 7.622745991 1321.931761 68.54940796
22 05 2018 00:30
                 1528.848022 8.28042984 1694.441837 69.78095245
22 05 2018 00:40
                 1147.140015 7.424664974 1219.235927 67.62576294
22 05 2018 00:50
                 1775.727051 8.726464272 1969.367694 63.245121
22 05 2018 01:00
                 1710.208008 8.633235931 1910.768828 62.90388107
22 05 2018 01:10
                 1290.678955 7.777225971 1405.121496 63.46128082
22 05 2018 01:20
                 1318.708008 7.822995186 1430.321449 63.16260147
22 05 2018 01:30
                 1384.281982 7.993113995 1526.055828 63.95175171
22 05 2018 01:40
                 1680.22998 8.651774406 1922.37893 62.50247955
22 05 2018 01:50
                 1426.385986 8.061739922 1565.548402 62.74097824
22 05 2018 02:00 1229.347046 7.683126926 1354.096757 63.12147141
22 05 2018 02:10 1445.223999 8.126625061 1603.321946 66.17648315
22 05 2018 02:20 1124.602051 7.431023121 1222.473207 66.10977173
22 05 2018 02:30 1325.811035 8.024278641 1543.93061 59.53335953
```

```
22 05 2018 02:40 1437.537964 8.149706841 1616.857501 62.28017044
22 05 2018 02:50
                 1026.901001 7.246794224 1131.071849 65.33300018
22 05 2018 03:00
                 1133.845947 7.487557888 1251.527525 62.30162811
22 05 2018 03:10
                 1264.314941 7.811769009 1424.11786 61.1170311
22 05 2018 03:20 1058.473999 7.271357059 1142.977059 59.96284866
22 05 2018 03:30
                 1178.187988 7.648923874 1335.820209 61.24840927
                 1268.480957 7.90704298 1477.221818 63.80207825
22 05 2018 03:40
                 1249.980957 7.747505188 1388.889887 63.86621857
22 05 2018 03:50
22 05 2018 04:00 1129.496948 7.578410149 1298.610679 64.5061264
                 1302.80603 8.014796257 1538.481277 62.78926849
22 05 2018 04:10
22 05 2018 04:20
                 1134.827026 7.648025036 1335.341895 61.35416031
22 05 2018 04:30 1055.552979 7.478664875 1246.924883 63.3449707
22 05 2018 04:40
                 1013.208984 7.350331783 1181.834427 63.0439682
22 05 2018 04:50
                 1018.156006 7.329276085 1171.387121 62.19797897
22 05 2018 05:00 1198.848022 7.731160164 1380.008399 63.8821907
22 05 2018 05:10 1025.206055 7.361501217 1187.402543 64.69841766
22 05 2018 05:20 1207.329956 7.710153103 1368.641266 63.37316132
22 05 2018 05:30 1562.730957 8.397164345 1764.971197 62.92189026
22 05 2018 05:40 1304.238037 7.87405777 1458.720706 63.14099884
22 05 2018 05:50 945.4404297 7.097772121 1060.616285 60.99071884
22 05 2018 06:00 1248.302979 7.6641469 1343.93658 63.70825958
22 05 2018 06:10 1001.765015 7.289525032 1151.837355 63.23741913
22 05 2018 06:20 736.71698
                             6.610650063 849.957319 58.34431839
22 05 2018 06:30
                 791.4993896 6.733271122 900.3060101 56.99766922
22 05 2018 06:40 854.4011841 6.959195137 997.7251921 53.38314056
22 05 2018 06:50 724.1968994 6.54338789 823.067346 52.14326859
22 05 2018 07:00 776.8071289 6.678299904 877.5203592 52.76107025
22 05 2018 07:10 899.7119751 6.838079929 944.7334766 53.68254089
22 05 2018 07:20 820.6091919 6.792672157 925.3253793 55.94758987
22 05 2018 07:30 1052.560059 7.33951807 1176.460922 56.72172165
22 05 2018 07:40 964.9359741 7.159366131 1089.373326 57.98009872
22 05 2018 07:50 760.7075806 6.66607523 872.5007544 58.87207031
22 05 2018 08:00 660.171814 6.388097763 762.9096541 54.44694138
22 05 2018 08:10 337.252594 5.248501778 399.4767531 48.74866104
22 05 2018 08:20 381.111908 5.334947109 422.7487015 52.60226822
22 05 2018 08:30 524.7033081 6.008073807 626.7192583 52.24637985
22 05 2018 08:40 518.7233887 5.865819931 580.651699 51.60271072
22 05 2018 08:50 686.5263062 6.426677227 777.606963 49.23345947
22 05 2018 09:00 464.4967041 5.653645992 514.3042048 47.06835175
22 05 2018 09:10 448.4541016 5.596457958 497.1805368 52.65539169
22 05 2018 09:20 439.6359863 5.687290192 524.5259099 57.31369019
22 05 2018 09:30 472.7721863 5.795518875 558.1661641 48.17971039
22 05 2018 09:40 497.5466003 5.768781185 549.7464378 41.01441956
22 05 2018 09:50 619.34198 6.19861412 693.0668633 39.52069092
22 05 2018 10:00 609.9689941 6.145987034 674.3537607 41.43975067
22 05 2018 10:10
                 448.635498 5.608389854 500.7274015 40.82804108
22 05 2018 10:20
                 531.4987793 5.939370155 604.7252888 38.47127151
22 05 2018 10:30 639.0560303 6.330687046 741.3386496 39.85332108
22 05 2018 10:40 568.9985962 6.008893967 626.9965285 35.81661987
22 05 2018 10:50
                 657.1405029 6.305822849 732.1073126 37.17739105
22 05 2018 11:00
                 851.0435181 6.855461121 952.2280866 35.28316879
22 05 2018 11:10
                 759.40448
                             6.49756813 805.0399737 34.52774811
22 05 2018 11:20
                 743.27771
                             6.545168877 823.7727897 30.88007927
22 05 2018 11:30 642.6937256 6.18750906 689.0934529 33.59566116
22 05 2018 11:40 931.2393799 7.077240944 1051.142142 38.12356186
22 05 2018 11:50 647.5139771 6.287737846 725.4348518 36.73476028
22 05 2018 12:00 566.8460083 6.133511066 669.9610102 42.29018021
22 05 2018 12:10 261.0831909 4.74679184 276.1445718 46.07075882
22 05 2018 12:20 381.1788025 5.3726511 433.1007422 46.34365845
```

```
22 05 2018 12:30 290.7178955 4.969172001 328.4621425 48.11634827
22 05 2018 12:40 155.6130066 4.302546024 181.3339651 48.19459915
22 05 2018 12:50 209.6215057 4.600876808 243.6626738 43.87918091
22 05 2018 13:00 262.2632141 4.858209133 301.91508
                                                    44.17961884
22 05 2018 13:10 241.9618988 4.716235161 269.226049 40.94134903
22 05 2018 13:20
                 306.7926025 5.038673878 345.5576329 37.42654037
                 413.1481018 5.650704861 513.4158688 38.14313889
22 05 2018 13:30
                 344.4461975 5.37731123 434.388876 41.80746078
22 05 2018 13:40
                 238.7848969 4.810454845 290.763596 40.52600861
22 05 2018 13:50
                 500.6871033 5.987197876 620.6867564 39.01036072
22 05 2018 14:00
22 05 2018 14:10 458.4533997 5.744581223 542.1878679 36.91667175
22 05 2018 14:20 290.6306152 5.045647144 347.293276 34.63013077
22 05 2018 14:30 439.4017944 5.6805439 522.4674145 35.81707001
22 05 2018 14:40 598.8909302 6.210965157 697.5016081 36.8014183
22 05 2018 14:50 473.5014954 5.857604027 577.9976355 39.0443306
22 05 2018 15:00 691.2717896 6.429518223 778.6957156 35.19240189
22 05 2018 15:10 1076.430054 7.403320789 1208.412693 37.801651
22 05 2018 15:20 742.9995117 6.658682823 869.4736802 34.74671173
22 05 2018 15:30 809.2182007 6.891306877 967.8002382 37.12903976
22 05 2018 15:40 660.9417725 6.394151211 765.2050283 40.38164139
22 05 2018 15:50 575.2614136 6.034927845 635.8351433 42.22045898
22 05 2018 16:00 767.4503174 6.476749897 796.9263087 35.43740082
22 05 2018 16:10 1163.677002 7.357056141 1185.184434 34.23648071
22 05 2018 16:20
                 1339.312012 7.817066193 1427.043269 38.3213501
22 05 2018 16:30 1433.511963 8.036676407 1551.069241 35.83728027
22 05 2018 16:40 1321.68396 7.704531193 1365.608343 34.02415085
22 05 2018 16:50 1044.980957 7.021802902 1025.833927 35.13592148
22 05 2018 17:00 941.7166748 6.98007679 1007.045252 35.68407822
22 05 2018 17:10 984.272583 7.140861034 1080.680526 36.8748703
22 05 2018 17:20 661.6588745 6.335027218 742.9568852 36.09323883
22 05 2018 17:30 480.3587036 5.745451927 542.4588055 37.57104111
22 05 2018 17:40 295.7922974 5.014451981 339.5579248 42.05831146
22 05 2018 17:50 291.9841003 4.990836143 333.7515318 38.78026962
22 05 2018 18:00 41.4813118 3.52038002 54.31578987 44.55990982
22 05 2018 18:10 132.8148041 4.131713867 147.8486423 50.82423019
                 28.97565079 3.320534945 34.47653028 55.24578094
22 05 2018 18:20
22 05 2018 18:30 42.89445114 3.509740114 53.09848238 56.61560059
                 125.561203 4.121984005 145.9853256 50.60391998
22 05 2018 18:40
22 05 2018 18:50 95.21283722 3.939981937 116.7647054 52.08940887
22 05 2018 19:00 104.8498993 3.992079973 126.484373 45.9720192
22 05 2018 19:10 232.2023926 4.826241016 294.4321327 41.4316597
22 05 2018 19:20 363.3446045 5.518359184 474.2967843 45.50735092
22 05 2018 19:30 305.4403076 5.188869953 383.7901705 55.83879089
22 05 2018 19:40
                 327.7626953 5.271824837 405.6928934 60.11983109
22 05 2018 19:50 297.2789001 5.184986115 382.7786917 59.02383041
22 05 2018 20:00 249.553894 4.945126057 322.6324387 56.89408112
22 05 2018 20:10 213.4548035 4.765865803 280.4953035 63.47777939
22 05 2018 20:20 220.7091064 4.786297798 285.1834552 64.30735016
22 05 2018 20:30 98.12908173 4.050962925 132.5199272 64.16481781
22 05 2018 20:40
                  39.40621948 3.808274984 94.12947553 63.07820892
22 05 2018 20:50
                  14.08170986 3.38892293 40.54641738 69.0581665
22 05 2018 21:00 0
                        3.662549973 72.31939641 74.00792694
22 05 2018 21:10 8.978867531 3.408806086 42.45158799 71.94467926
22 05 2018 21:20 0
                       3.01473093 16.4887498 76.66040802
22 05 2018 21:30 0
                       2.228339911 0
                                        81.27424622
22 05 2018 21:40
                 0
                       1.922425985 0
                                         92.400383
                                      93.84230042
112.4487
130.8567047
                    1.50117898 0
0.946433425 0
1.008893013 0
22 05 2018 21:50 0
22 05 2018 22:00 0
22 05 2018 22:10 0
```

```
22 05 2018 22:20 0
                        1.338611007 0
                                          120.5094986
22 05 2018 22:30 0
                                          69.59140015
                        1.509822965 0
22 05 2018 22:40 0
                        1.403790951 0
                                          63.26816177
22 05 2018 22:50 0
                        1.072358012 0
                                          39.29029083
22 05 2018 23:00 0
                        2.743947983 0
                                          57.88365936
22 05 2018 23:10 0
                        2.554438114 0
                                          58.7745285
                        3.484913111 50.32847754 82.27922058
22 05 2018 23:20 0
22 05 2018 23:30 41.14253998 4.046360016 131.6552937 75.67050934
22 05 2018 23:40
                 69.66001892 3.873384953 104.9724205 70.93965149
22 05 2018 23:50
                        2.32840991 0
                                          90.58190155
                 0
23 05 2018 00:00 0
                        2.498857021 0
                                          108.7951965
23 05 2018 00:10 0
                        2.038264036 0
                                          88.19010925
23 05 2018 00:20 0
                        2.387821913 0
                                          62.09270096
23 05 2018 00:30 0
                        2.98033309 0
                                          65.97968292
23 05 2018 00:40 0
                        3.546847105 57.42244786 65.28356171
23 05 2018 00:50 33.84199905 3.978141069 123.8413104 66.47619629
23 05 2018 01:00 19.27230072 3.439064026 45.47222633 72.36209106
23 05 2018 01:10 35.89682007 3.793421984 91.75097902 70.89169312
23 05 2018 01:20 41.80458832 3.778052092 89.32687151 70.33331299
23 05 2018 01:30 44.42805099 3.842612028 99.76318729 74.79165649
23 05 2018 01:40 99.80583954 4.103157043 142.3927208 69.00119019
23 05 2018 01:50 68.65393829 3.857826948 102.3198282 75.73943329
                 123.5000992 4.167388916 154.7198646 72.44212341
23 05 2018 02:00
                 103.0502014 4.083415985 138.643689 72.88339233
23 05 2018 02:10
23 05 2018 02:20 40.70138931 3.514391899 53.62846284 79.01114655
23 05 2018 02:30 14.20059967 2.994832993 0
                                                79.2023468
                                          82.92310333
23 05 2018 02:40 0
                        2.517913103 0
23 05 2018 02:50 0
                        2.407582998 0
                                          96.54280853
23 05 2018 03:00 0
                        2.510471106 0
                                          82.60122681
23 05 2018 03:10 0
                        3.276881933 30.99331026 78.29033661
23 05 2018 03:20 7.94340086 3.567480087 59.92205475 82.07533264
23 05 2018 03:30 41.03376007 3.67139411 73.54621556 74.87648773
23 05 2018 03:40 16.82579994 3.290489912 32.0464283 78.05951691
23 05 2018 03:50 11.88858032 3.334253073 35.63410766 80.59739685
23 05 2018 04:00 0
                        3.025312901 16.86127225 86.97212982
23 05 2018 04:10 25.52942085 3.558597088 58.83756334 80.12722778
23 05 2018 04:20 8.52322197 3.017021894 16.56788021 76.62270355 23 05 2018 04:30 0.04440004 2.373658895 0 91.38603973
23 05 2018 04:40 0
                        2.517678022 0
                                          84,47545624
23 05 2018 04:50 0
                        2.756525993 0
                                          78.33294678
23 05 2018 05:00 26.24427032 4.020342827 126.7861205 71.74253082
23 05 2018 05:10 109.5410004 4.151463032 151.6447711 72.94779205
23 05 2018 05:20 64.32077026 3.37954402 39.66970166 76.47625732
23 05 2018 05:30 6.430204868 2.872453928 0
                                               71.88886261
23 05 2018 05:40 8.481872559 3.082357883 19.17807795 72.037323
23 05 2018 05:50 18.55393982 3.325067997 34.85571212 77.43282318
                        3.340096951 36.13637728 88.31845093
23 05 2018 06:00 0
23 05 2018 06:10 0
                        3.583861113 61.95505951 85.65857697
23 05 2018 06:20 10.56149006 3.229269981 27.54181735 77.56427002
23 05 2018 06:30 0
                        2.84304595 0
                                          80.61463928
23 05 2018 06:40 0
                        2.646898985 0
                                          70.87233734
23 05 2018 06:50 0
                        2.061434984 0
                                          95.59098816
23 05 2018 07:00 0
                        2.341007948 0
                                          81.42720032
23 05 2018 07:10 0
                        2.828941107 0
                                          65.40544891
23 05 2018 07:20 0
                        2.021912098 0
                                          81.65592957
23 05 2018 07:30
                 0
                        2.199826002 0
                                          80.26859283
23 05 2018 07:40 0
                        2.578907967 0
                                          86.89420319
23 05 2018 07:50 0
                    2.951682091 0
                                          68.43643188
                    2.864090919 0
23 05 2018 08:00 0
                                          81.38889313
```

```
23 05 2018 08:10 0
                       2.956566095 0
                                        80.24215698
23 05 2018 08:20 0
                        2.972317934 0
                                          80.1693573
23 05 2018 08:30 0
                      2.796572924 0
                                          74.17006683
                                      66.50624847
                    2.944442034 0
23 05 2018 08:40 0
23 05 2018 08:50 0
                        3.036432981 17.27204438 68.48194122
23 05 2018 09:00 0
                        3.594121933 63.25037156 68.66400909
23 05 2018 09:10 58.12313843 3.984925985 125.1239673 69.96346283
23 05 2018 09:20 44.83111954 3.796817064 92.29154077 69.85502625
23 05 2018 09:30 11.16800022 3.236272097 28.02666738 72.46000671
23 05 2018 09:40 47.5074501 3.704916954 78.3099755 74.14743042
23 05 2018 09:50 4.346867085 3.289815903 31.99356948 76.81062317
23 05 2018 10:00 0
                        3.699058056 77.46443103 83.92845917
23 05 2018 10:10 5.822744846 3.16643095 23.5417313 74.78395081
23 05 2018 10:20 7.73232317 2.98548007 0 77.93701172
23 05 2018 10:30 0.338599801 2.414938927 0
                                              78.44947815
23 05 2018 10:40 0 2.208595991 0 81.91414642
23 05 2018 10:50 0 2.615062952 0 83.37566376
23 05 2018 11:00 0 2.782995939 0 73.67196655
23 05 2018 11:10 0 3.105221033 20.25279032 77.35637665
23 05 2018 11:20 0
                        2.737230062 0 75.27603912
23 05 2018 11:30 0 3.194745064 25.26589323 78.68617249
23 05 2018 11:40 13.28775978 3.794774055 91.96603372 77.48332214
23 05 2018 11:50 112.8252029 4.294253826 179.6736976 68.19236755
23 05 2018 12:00 117.7033997 4.087841034 139.4824615 60.4453392
23 05 2018 12:10 3.494131088 2.95518589 0 70.3380127
23 05 2018 12:20 0 3.347099066 36.74539102 79.67655945
23 05 2018 12:30 0
                      3.331942081 35.43699024 69.13009644
23 05 2018 12:40 0
                        3.402023077 41.79454282 72.43034363
23 05 2018 12:50 0 3.381576061 39.8584572 74.08730316
23 05 2018 13:00 0 2.927335978 0 68.78768921
23 05 2018 13:10 0 3.295120001 32.41150522 71.69467163
23 05 2018 13:20 68.16993713 4.183784008 157.8986348 67.07145691
23 05 2018 13:30 215.2528992 4.811573029 291.0228748 62.93209839
23 05 2018 13:40 57.00400925 3.60057807 64.07401965 67.93852234
23 05 2018 13:50 23.43717957 3.33297205 35.52473646 62.77032852
23 05 2018 14:00 113.9082031 3.991424084 126.3593078 63.92126846
23 05 2018 14:10 119.9985962 4.046440125 131.6703334 57.42713165
23 05 2018 14:20 26.25362968 3.160141945 23.17617764 51.51343918
23 05 2018 14:30 219.2266998 4.722074986 270.5434213 59.69633102
23 05 2018 14:40 214.5404968 4.697999954 265.1271345 66.57129669
23 05 2018 14:50 313.3976135 5.329648972 421.3039584 57.87718964
23 05 2018 15:00 589.6104126 6.207003117 696.0772224 58.70891953
23 05 2018 15:10 627.4085083 6.412261009 772.0958808 57.01231003
23 05 2018 15:20 322.2926941 5.128911972 368.3119264 59.65097046
23 05 2018 15:30 343.8978882 5.347589016 426.2058514 63.01638031
23 05 2018 15:40 346.6169128 5.296329975 412.2737287 66.72373962
23 05 2018 15:50 379.498291 5.488592148 465.7242069 64.09275055
23 05 2018 16:00 401.3409119 5.609405994 501.0300856 68.70896912
23 05 2018 16:10 255.2687073 4.880917072 307.2747511 68.51576996
23 05 2018 16:20 251.0644989 4.842964172 298.3375654 66.23290253
23 05 2018 16:30 178.2698975 4.48007822 217.7947969 73.2452774
23 05 2018 16:40 251.5399017 4.953080177 324.556064 69.87589264
23 05 2018 16:50 146.8768005 4.291707993 179.1647074 69.63337708
23 05 2018 17:00 359.9455872 5.506859779 470.975404 72.92858887
23 05 2018 17:10 204.8594971 4.452532768 212.019516 70.77359009
23 05 2018 17:20 0 2.183834076 0 91.37111664
23 05 2018 17:30 46.67298889 4.129316807 147.3891708 90.78173065
23 05 2018 17:40 60.39949036 3.479227066 49.70795258 97.4261322
23 05 2018 17:50 0 2.259362936 0 108.668602
```

```
23 05 2018 18:00 0
                       2.744654894 0
                                         96.31276703
                       2.33810997 0
23 05 2018 18:10 0
                                         112.6078033
23 05 2018 18:20 0
                       3.091908932 19.61686595 101.9322968
23 05 2018 18:30 0
                       3.549860001 57.78320164 95.53443909
23 05 2018 18:40 23.24420929 3.158004045 23.05335173 96.87419891
23 05 2018 18:50 5.785471916 3.047328949 17.69372872 108.9356003
23 05 2018 19:00 0
                       2.567971945 0
                                         120.3492966
23 05 2018 19:10 0
                       3.176543951 24.14282776 119.6387024
23 05 2018 19:20 28.04125977 3.980659962 124.3166356 121.9526978
23 05 2018 19:30
                 122.3615036 4.315106869 183.8559394 122.0939026
23 05 2018 19:40 348.6333008 5.347613811 426.2126459 127.7736969
23 05 2018 19:50 408.3713074 5.657498837 515.469182 137.0760956
23 05 2018 20:00 317.9601135 5.468460083 459.9724746 150.2324066
23 05 2018 20:10 253.722702 5.038527012 345.5211185 153.4501038
23 05 2018 20:20 127.0627975 4.354515076 191.8240194 142.8338013
23 05 2018 20:30 323.5400085 5.370010853 432.3717835 169.3274994
23 05 2018 20:40 477.8808899 6.014277935 628.8184648 161.9936066
23 05 2018 20:50 323.8490906 5.315269947 417.3951891 163.8791962
23 05 2018 21:00 437.2525024 5.763284206 548.0243668 166.2118073
23 05 2018 21:10 432.9057922 5.433627129 450.1076543 169.7682037
23 05 2018 21:20 352.637085 5.18520689 382.8361558 173.0997009
23 05 2018 21:30 338.362793 5.226080894 393.5441213 177.1121979
23 05 2018 21:40 377.2296143 5.476449966 462.2507564 184.8135071
23 05 2018 21:50 418.697113 5.717964172 533.9418465 179.5789948
23 05 2018 22:00 279.3352051 4.936385155 320.5239549 177.0028992
23 05 2018 22:10 176.3950958 4.327634811 186.3798072 187.300293
23 05 2018 22:20 34.43643188 3.331911087 35.43435236 188.2402039
23 05 2018 22:30 25.17868996 2.783741951 0
                                               186.5003967
23 05 2018 22:40 185.5045929 4.604572773 244.468389 191.9938049
23 05 2018 22:50 85.21070099 4.020785809 126.8687709 176.8807068
23 05 2018 23:00 127.2360992 4.200084209 161.0722987 171.3551025
23 05 2018 23:10 32.76538086 3.174463987 24.01786223 175.2411041
23 05 2018 23:20 51.28018951 3.378957033 39.6152997 171.5823975
23 05 2018 23:30 49.21992874 3.610809088 65.39291014 166.7333069
23 05 2018 23:40 175.4700012 4.454576015 212.4463789 181.6031952
23 05 2018 23:50 387.5708008 5.976549149 617.1117987 198.5778046
24 05 2018 00:00 274.0483093 4.904586792 312.9010568 202.6851959
24 05 2018 00:10 80.68411255 4.012756824 125.3720999 189.8551941
24 05 2018 00:20 72.83392334 3.795192003 92.03256987 186.7324982
24 05 2018 00:30 156.5254974 4.730586052 272.4674837 195.5341034
24 05 2018 00:40 292.1300964 5.317226887 417.9261117 201.1488037
24 05 2018 00:50 195.888504 4.900547981 311.9381491 201.9597015
24 05 2018 01:00 307.4836121 5.292980194 411.3711293 204.264801
24 05 2018 01:10 69.00623322 3.995268106 127.0932677 222.1152954
24 05 2018 01:20
                 21.17653084 2.968483925 0
                                             228.3717957
24 05 2018 01:30
                 24.94523048 3.394524097 41.0767122 217.4494934
24 05 2018 01:40 44.04703903 3.686321974 75.6453313 215.8591003
24 05 2018 01:50
                 0
                       2.141613007 0
                                         251.5220947
24 05 2018 02:00 0
                       2.824742079 0
                                         302.3446045
24 05 2018 02:10 0
                       2.912065983 0
                                         315.9718933
24 05 2018 02:20 0
                       2.510787964 0
                                         319.7401123
24 05 2018 02:30 0
                       2.432872057 0
                                         324.6427002
24 05 2018 02:40 0
                       2.306274891 0
                                         351.4215088
24 05 2018 02:50 0
                       1.927368999 0
                                         27.34984016
24 05 2018 03:00 0
                       0.972432673 0
                                         153.3312073
24 05 2018 03:10 0
                       2.688034058 0
                                         196.6584015
24 05 2018 03:20 0
                       3.710041046 79.05397645 209.2160034
24 05 2018 03:30 129.8146057 4.710951805 268.0361738 202.281601
24 05 2018 03:40 345.6102905 5.445234776 453.3828005 200.820694
```

```
24 05 2018 03:50 247.1983948 5.096191883 359.9871161 203.0686035
                 39.80332947 3.428564072 44.40742337 210.259201
24 05 2018 04:00
                  22.46969032 3.585772038 62.19501559 223.9069977
24 05 2018 04:10
24 05 2018 04:20
                 57.82146835 3.896505117 108.9858778 224.8625031
24 05 2018 04:30
                  137.8229065 4.332777977 187.4184169 249.7138062
24 05 2018 04:40
                  182.069397 4.428050995 206.9238428 239.1931
                              4.355442047 192.012474 237.6741028
24 05 2018 04:50
                  157.1819
24 05 2018 05:00
                  17.0387001 2.927301884 0
                                                250.0910034
24 05 2018 05:10
                  0
                        2.335062027 0
                                          224.9846039
24 05 2018 05:20
                  0
                        1.872413039 0
                                          197,6452942
24 05 2018 05:30
                                          215.3493042
                  0
                        1.566609979 0
24 05 2018 05:40
                  0
                        1.691411972 0
                                          196.8031006
24 05 2018 05:50
                        1.766911983 0
                                          203.8605042
24 05 2018 06:00
                  0
                        0.930686712 0
                                          195.3804932
24 05 2018 06:10
                        1.428761959 0
                                          95.74656677
                  0
24 05 2018 06:20
                  0
                        1.110041022 0
                                          81.21024323
24 05 2018 06:30
                  0
                        1.867697954 0
                                          36.37977982
24 05 2018 06:40
                  0
                                          55.46416855
                        1.238757968 0
24 05 2018 06:50
                  0
                        1.186957002 0
                                          82.7285614
24 05 2018 07:00
                  0
                        0.979385912 0
                                          37.10029984
24 05 2018 07:10
                        1.003330946 0
                                          31.43450928
                  0
24 05 2018 07:20
                  0
                        1.897047043 0
                                          73.70773315
24 05 2018 07:30
                  0
                        2.257740974 0
                                          95.516922
24 05 2018 07:40
                  0
                        2.135343075 0
                                          104.1204987
24 05 2018 07:50
                  0
                        2.369249105 0
                                          117.9910965
24 05 2018 08:00
                        2.03857708 0
                                          105.2087021
24 05 2018 08:10
                        1.196457982 0
                                          109.3538971
                  0
24 05 2018 08:20
                        1.324313045 0
                                          140.4875946
                  0
24 05 2018 08:30
                  0
                        1.741546035 0
                                          84.49967194
                        3.180731058 24.39649109 63.37047958
24 05 2018 08:40
                  0
24 05 2018 08:50
                  0
                        4.543765068 231.3211949 69.68843842
24 05 2018 09:00
                  26.64282036 4.381247044 197.2778545 69.85614014
24 05 2018 09:10
                  142.7716064 4.465097904 214.6484244 66.68747711
24 05 2018 09:20
                  182.5679016 4.747769833 276.3670473 64.85458374
                  200.6916046 4.677730083 260.5967471 66.58692169
24 05 2018 09:30
                  248.9136047 4.917415142 315.9674134 66.8609314
24 05 2018 09:40
                  229.2534943 4.85897398 302.0950022 65.86853027
24 05 2018 09:50
                  152.7527008 4.43695116 208.7723112 63.4142189
24 05 2018 10:00
24 05 2018 10:10
                  226.8065033 4.845394135 298.9066934 68.72596741
24 05 2018 10:20
                  300.1737061 5.269692898 405.1227747 61.84056091
24 05 2018 10:30
                 332.0314941 5.339270115 423.9293402 62.32093048
                 202.0567017 4.581510067 239.4548339 54.96709061
24 05 2018 10:40
24 05 2018 10:50
                  179.0046997 4.442286968 209.8827017 60.50608826
24 05 2018 11:00
                  245.3032074 4.793894768 286.9339402 57.28034973
24 05 2018 11:10
                  267.0469055 4.859716892 302.2698045 59.08256912
24 05 2018 11:20
                  370.4667053 5.48132515 463.643755 60.270401
24 05 2018 11:30
                  454.7373047 5.818737984 565.5367077 62.52830124
                  342.6192932 5.322389126 419.3282237 65.77690887
24 05 2018 11:40
                  324.3644104 5.235092163 395.9234802 60.78546143
24 05 2018 11:50
24 05 2018 12:00
                  453.193512 5.762962818 547.9237775 58.43479156
24 05 2018 12:10
                  346.3670044 5.243596077 398.1750959 49.49206924
24 05 2018 12:20
                  395.9197998 5.348134995 426.355472 49.55978012
24 05 2018 12:30
                  532.4647217 5.844686985 573.83903
                                                      38.36156082
24 05 2018 12:40
                  583.1099243 5.928472042 601.1223454 46.58955002
24 05 2018 12:50
                  596.3342285 6.090432167 654.920951 49.71210861
24 05 2018 13:00
                  948.8887939 6.974023819 1004.338
                                                      52.9641304
24 05 2018 13:10
                 909.5266724 6.972599983 1003.701846 53.6280098
24 05 2018 13:20
                 1314.262939 7.987100124 1522.618131 60.53654099
24 05 2018 13:30 1359.696045 8.302311897 1707.576435 62.12397003
```

```
24 05 2018 13:40 1351.45105 8.338424683 1729.341286 61.62374878
                 1247.234985 8.10463047 1590.471464 60.08675003
24 05 2018 13:50
24 05 2018 14:00
                 1489.359985 8.620323181 1902.694816 59.20101166
24 05 2018 14:10
                 1659.94397 9.031012535 2164.002415 58.52891159
24 05 2018 14:20
                 1762.432983 9.048645973 2175.397204 56.07638168
24 05 2018 14:30
                 1652.500977 8.725082397 1968.495336 51.4046402
24 05 2018 14:40
                 1171.447998 7.591135979 1305.278489 46.95933151
                 907.7354126 6.976060867 1005.248575 46.09030151
24 05 2018 14:50
                 1251.112061 7.74417305 1387.07667 48.58398056
24 05 2018 15:00
                 1029.032959 7.395100117 1204.262243 50.58974838
24 05 2018 15:10
24 05 2018 15:20
                 1333.680054 7.894999027 1470.452485 56.36006927
24 05 2018 15:30
                 1683.197998 8.735089302 1974.815027 66.27675629
24 05 2018 15:40 2039.892944 9.77846241 2646.481521 69.91945648
24 05 2018 15:50
                 1906.034058 9.230013847 2293.20043 72.36414337
24 05 2018 16:00 1541.156982 8.642205238 1916.383342 74.11165619
24 05 2018 16:10 1299.182983 8.424537659 1781.668525 75.98973846
24 05 2018 16:20
                 1598.796997 9.024427414 2159.7501
                                                    76.43847656
24 05 2018 16:30
                 1859.801025 9.650062561 2554.603632 75.23902893
24 05 2018 16:40 1538.936035 8.526948929 1844.637885 73.55827332
24 05 2018 16:50
                 1529.220947 8.588611603 1882.912159 72.53305817
24 05 2018 17:00
                 1199.052979 7.990197182 1524.388023 74.63477325
                 1011.687988 7.451117992 1232.744665 76.28463745
24 05 2018 17:10
24 05 2018 17:20
                 1153.244019 7.993989944 1526.556861 76.70570374
24 05 2018 17:30
                 1177.703003 7.844113827 1442.030934 75.64946747
24 05 2018 17:40
                 1158.850952 8.243693352 1672.483938 76.40686035
24 05 2018 17:50 841.0645752 7.150760174 1085.324949 79.45326233
24 05 2018 18:00 425.0369873 5.349881172 426.8341709 75.86969757
24 05 2018 18:10 414.1776123 5.757706165 546.2800029 62.80791855
24 05 2018 18:20
                 701.21521 6.585278988 839.7545885 66.41732788
                 1054.751953 7.685873985 1355.571001 59.19472122
24 05 2018 18:30
24 05 2018 18:40
                 557.2576294 6.263017178 716.3712083 79.724617
                 192.982193 4.440434933 209.4971027 96.32565308
24 05 2018 18:50
24 05 2018 19:00
                 215.3643951 4.659658909 256.5805407 118.7874985
24 05 2018 19:10 542.5579224 6.064094067 645.823249 155.7998047
                 1622.572021 8.446805954 1795.294391 160.8764038
24 05 2018 19:20
                 2149.047119 9.136249542 2232.170097 153.3728943
24 05 2018 19:30
                 2823.337891 10.94159985 3251.430693 155.4723053
24 05 2018 19:40
24 05 2018 19:50
                 3147.781006 11.90021038 3505.572916 179.6694946
24 05 2018 20:00
                 1365.750977 8.142313004 1612.516113 183.1721954
24 05 2018 20:10
                 904.1315918 7.120026112 1070.948055 187.2481995
24 05 2018 20:20
                 195.8114929 4.60299778 244.124937 189.6884003
24 05 2018 20:30 6.112411022 2.186064005 0
                                               222.0832977
24 05 2018 20:40
                        1.584079981 0
                                         20.86837006
                 0
24 05 2018 20:50
                 0
                        3.100214958 20.01032169 33.14149094
24 05 2018 21:00
                 11.17570019 3.128309965 21.42299466 39.68346024
24 05 2018 21:10
                 0
                        3.323982
                                   34.76457094 69.04795837
24 05 2018 21:20
                 96.55982208 4.080677032 138.1249759 79.23480225
                 28.6579895 3.293282986 32.26624832 88.50737762
24 05 2018 21:30
24 05 2018 21:40
                 0
                        1.967931032 0
                                         124.7293015
24 05 2018 21:50
                 0
                        2.125134945 0
                                         88.77274323
24 05 2018 22:00
                 0
                       2.648026943 0
                                         114.4806976
24 05 2018 22:10
                 0
                        2.619851112 0
                                         127.3742981
24 05 2018 22:20
                       1.944417953 0
                                         40.60374069
24 05 2018 22:30 22.30208969 4.930891037 319.2015554 54.66450119
24 05 2018 22:40
                 328.0386047 5.256886005 401.7060669 58.73244095
24 05 2018 22:50 373.3416138 5.620108128 504.2239938 52.26493073
24 05 2018 23:00 824.1928711 6.907217979 974.7626932 54.16405869
24 05 2018 23:10 1054.286011 7.378931046 1196.127985 53.054039
24 05 2018 23:20 574.5487061 6.199008942 693.2083743 50.00614929
```

```
24 05 2018 23:30 604.3743286 6.308870792 733.2353284 51.72766876
                 389.5127869 5.464959145 458.9760278 51.59288025
24 05 2018 23:40
                 966.6395874 7.136888981 1078.820626 54.27577972
24 05 2018 23:50
25 05 2018 00:00
                 894.5410767 6.910684109 976.2835478 53.50146103
25 05 2018 00:10
                 733.0349731 6.570504189 833.8465506 54.81835938
25 05 2018 00:20
                 1032 7.549376965 1283.4781
                                               57.67110062
25 05 2018 00:30
                 1004.387024 7.362080097 1187.691619 57.62308121
25 05 2018 00:40
                 704.6575928 6.695096016 884.445173 59.39649963
25 05 2018 00:50
                 771.8328857 6.697914124 885.6102385 56.36077118
25 05 2018 01:00
                 488.1560974 5.807095051 561.833978 67.4886322
25 05 2018 01:10
                 690.5950928 6.456645012 789.1361433 54.24008942
25 05 2018 01:20
                 521.3035889 6.060369968 644.5428522 53.11539078
25 05 2018 01:30
                 527.1334839 6.112817764 662.7116448 53.31452179
25 05 2018 01:40
                 661.0402832 6.557874203 828.815643 59.21868896
25 05 2018 01:50
                 1214.812012 7.659355164 1341.378651 64.0103302
25 05 2018 02:00
                 2247.896973 9.72924614 2611.931322 65.20868683
25 05 2018 02:10
                 2052.919922 9.28086853 2326.397615 67.60523224
25 05 2018 02:20
                 1699.999023 8.860494614 2054.475324 72.48966217
25 05 2018 02:30 1838.473022 9.224884033 2289.855254 74.83303833
25 05 2018 02:40
                 1424.555054 8.24359417 1672.424815 74.24568939
                 1185.11499 7.531156063 1274.038152 73.64560699
25 05 2018 02:50
                 1154.48999 7.676968098 1350.794953 75.41323853
25 05 2018 03:00
25 05 2018 03:10
                 676.5524292 6.012318134 628.1549088 91.30719757
25 05 2018 03:20
                 485.0032959 5.427515984 448.3882385 109.2138977
25 05 2018 03:30
                 761.1668701 6.634110928 859.4568899 94.8303299
25 05 2018 03:40 240.7261047 4.065456867 135.2488718 81.66812897
25 05 2018 03:50 92.29582214 3.797765017 92.44280226 112.8023987
25 05 2018 04:00 71.11657715 3.794835091 91.97574861 87.77346802
25 05 2018 04:10 547.1328735 5.829607964 569.0061242 85.65879059
25 05 2018 04:20 990.4177856 7.208816051 1112.829612 73.87091064
25 05 2018 04:30 697.2332153 6.579037189 837.2556625 55.82979965
25 05 2018 04:40
                 1040.771973 7.055735111 1041.277247 44.10955811
25 05 2018 04:50 65.60051727 3.489072084 50.785627
                                                     38.65782166
25 05 2018 05:00 0
                       1.830553055 0
                                         66.56189728
25 05 2018 05:10 0
                       3.725387096 81.30730226 89.93669128
25 05 2018 05:20 94.35900116 3.086430073 19.36337493 106.6433029
25 05 2018 05:30 0
                       2.82118392 0
                                         66.26611328
                 296.9389038 6.065547943 646.3235141 49.43085098
25 05 2018 05:40
25 05 2018 05:50 1186.430054 7.526565075 1271.666639 56.82793045
25 05 2018 06:00 2193.89502 9.316948891 2349.985381 53.71350098
25 05 2018 06:10 2111.477051 8.989659309 2137.326802 46.2976799
25 05 2018 06:20 2564.306885 9.794896126 2657.836216 43.25788116
25 05 2018 06:30 2149.762939 9.251740456 2307.375729 46.32228088
25 05 2018 06:40 2691.309082 10.56389046 3095.708571 55.09793854
25 05 2018 06:50
                 2626.89209 10.31116962 2970.886833 58.98231888
                 2447.024902 10.05965996 2828.642472 56.41585922
25 05 2018 07:00
25 05 2018 07:10
                 2980.350098 11.71887016 3471.300131 65.42868805
                 3262.397949 11.80119038 3487.59267 60.63502884
25 05 2018 07:20
25 05 2018 07:30 2453.922119 10.09609032 2850.415506 63.11489105
25 05 2018 07:40
                 2712.604004 10.70468998 3157.898652 64.79286957
25 05 2018 07:50
                 2924.060059 10.90466022 3237.731584 59.59841156
25 05 2018 08:00
                 2942.035889 11.43492985 3405.321387 58.12833023
25 05 2018 08:10
                 2218.558105 9.798090935 2660.033137 61.03039932
25 05 2018 08:20
                 1913.614014 8.963644028 2120.580543 61.34753036
25 05 2018 08:30
                 1889.473999 9.119541168 2221.322123 57.31729126
25 05 2018 08:40
                 1316.482056 7.959411144 1506.839459 60.76623154
25 05 2018 08:50
                 1323.370972 7.827056885 1432.569531 58.63505936
25 05 2018 09:00 1538.098999 8.352698326 1737.973661 60.38856125
25 05 2018 09:10 1606.743042 8.352430344 1737.811437 55.32572937
```

```
25 05 2018 09:20 1470.95105 8.116291046 1597.278412 54.63254929
                 1994.534058 9.248731613 2305.411953 59.71038055
25 05 2018 09:30
25 05 2018 09:40
                 2072.366943 9.301175117 2339.669841 57.33134079
25 05 2018 09:50 955.6791992 6.705536842 888.7662462 52.76662064
                 1012.211975 6.959803104 997.995771 42.36420822
25 05 2018 10:00
                 1100.792969 7.094651222 1059.172578 33.20581055
25 05 2018 10:10
25 05 2018 10:20
                 1108.428955 7.184536934 1101.271418 33.20837021
25 05 2018 10:30 984.9224243 6.81223917 933.6584197 39.80654907
                 1234.537964 7.422565937 1218.168525 31.57114983
25 05 2018 10:40
25 05 2018 10:50
                 1098.967041 7.190048218 1103.888034 36.2262001
25 05 2018 11:00
                 1117.208984 7.234360218 1125.077386 35.62366104
25 05 2018 11:10
                 1255.322998 7.549160957 1283.365931 35.7959404
25 05 2018 11:20
                 1216.18396 7.562099934 1290.095833 40.77090073
25 05 2018 11:30
                 1172.113037 7.299088955 1156.520339 36.43244171
25 05 2018 11:40
                 1042.572021 7.03737402 1032.902295 35.48617172
25 05 2018 11:50
                 1383.93396 7.780880928 1407.124849 34.53607941
25 05 2018 12:00
                 1175.128052 7.449680805 1232.008022 42.32569885
25 05 2018 12:10
                 1676.899048 8.455463409 1800.601981 37.08914948
25 05 2018 12:20 1976.625
                            9.120880127 2222.191118 32.33145905
                 1576.791992 8.133487701 1607.341016 33.89669037
25 05 2018 12:30
25 05 2018 12:40
                 1547.41394 8.305112839 1709.260627 37.0696907
                 1548.110962 8.030540466 1547.534208 30.32749939
25 05 2018 12:50
25 05 2018 13:00
                 1913.081055 8.677846909 1938.743504 30.4296093
25 05 2018 13:10
                 1477.020996 8.059829712 1564.442651 30.68681908
25 05 2018 13:20 2136.624023 9.53806591 2469.762504 29.4675293
25 05 2018 13:30 2240.968018 9.53645134 2468.50658 26.98805046
25 05 2018 13:40 2664.924072 10.38395023 3008.631497 28.53347969
25 05 2018 13:50
                 2634.656006 10.4402504 3036.818772 30.18081093
                           9.911052704 2735.545304 32.81027985
25 05 2018 14:00 2478.875
25 05 2018 14:10 3041.590088 11.03730965 3285.456399 32.55641174
25 05 2018 14:20 2526.349121 10.13276958 2871.929539 33.05617142
25 05 2018 14:30 2711.532959 10.50298977 3067.212326 31.56414986
25 05 2018 14:40 2813.165039 10.51496029 3072.891173 29.59490967
25 05 2018 14:50 2308.412109 9.581234932 2502.993839 33.40367126
25 05 2018 15:00 3125.26001 11.3898201 3393.38719 33.79061127
                 2778.211914 10.79887962 3196.712584 33.7678299
25 05 2018 15:10
25 05 2018 15:20
                 2631.754883 10.40629959 3019.925385 36.42338181
                 3138.146973 11.46570015 3413.227894 36.50510025
25 05 2018 15:30
25 05 2018 15:40
                 3349.549072 11.99015045 3520.410083 42.0800209
25 05 2018 15:50 3277.083008 11.72163963 3471.868425 43.01440811
25 05 2018 16:00 2906.447998 10.90834999 3239.11432 48.27149963
25 05 2018 16:10 3010.279053 11.10931015 3309.68593 45.64287186
25 05 2018 16:20
                 3210.346924 11.57009983 3438.66374 41.99131012
25 05 2018 16:30
                 2767.204102 10.76329994 3182.308079 46.88296127
25 05 2018 16:40
                 2721.00293 10.30198002 2966.01474 43.43732071
25 05 2018 16:50
                 2234.166992 9.497639656 2468.438871 47.50381088
                 2242.812012 9.099363327 2208.233651 42.30691147
25 05 2018 17:00
                            8.984531403 2134.023711 44.23431015
25 05 2018 17:10
                 2049.6521
25 05 2018 17:20
                 2230.134033 9.167431831 2252.438443 42.20328903
25 05 2018 17:30
                 2532.12793 9.853487968 2697.58798 37.69210052
25 05 2018 17:40
                 2339.191895 9.662314415 2563.615841 39.08295059
25 05 2018 17:50
                 2199.031006 9.279539108 2325.529026 45.60039139
25 05 2018 18:00
                 1726.478027 8.389250755 1760.154935 48.55751038
25 05 2018 18:10
                 1200.577026 7.304118156 1158.988111 48.22412109
25 05 2018 18:20
                 1614.743042 8.077875137 1574.903013 40.1530304
25 05 2018 18:30
                 1762.495972 8.393120766 1762.509632 38.94256973
25 05 2018 18:40
                 1324.792969 7.448762894 1231.537701 46.71324158
25 05 2018 18:50 2137.271973 9.104352951 2211.468944 39.59854889
25 05 2018 19:00 2512.361084 9.774643898 2643.830185 31.19528961
```

```
25 05 2018 19:10 3192.532959 11.38313007 3391.582259 27.93177986
                 2754.400879 10.57118988 3099.058438 29.44457054
25 05 2018 19:20
25 05 2018 19:30
                 2129.946045 9.08468914 2198.723728 38.43717957
25 05 2018 19:40
                 1704.358032 8.38634491 1758.38766 46.72034073
                 2205.413086 9.016760826 2154.801533 32.41542053
25 05 2018 19:50
25 05 2018 20:00
                 2682.697021 10.4299202 3031.712051 31.54383087
                 2403.175049 9.793527603 2656.894104 39.48661041
25 05 2018 20:10
25 05 2018 20:20
                 2336.124023 9.560533524 2487.141616 51.31304169
25 05 2018 20:30
                 2489.862061 9.813419342 2670.526411 49.69374084
25 05 2018 20:40
                 2874.76001 10.59510994 3109.938383 47.53292084
25 05 2018 20:50
                 2663.737061 10.33150959 2981.585344 47.86663055
25 05 2018 21:00
                 2144.751953 9.263012886 2314.734793 43.65106964
25 05 2018 21:10
                 2621.937012 10.21514034 2918.776766 48.34867096
25 05 2018 21:20
                 1574.547974 8.284036636 1696.603981 51.57516861
25 05 2018 21:30
                 2035.95105 9.097658157 2207.128203 51.36201859
25 05 2018 21:40
                 1739.442017 8.691169739 1947.121644 50.95584869
25 05 2018 21:50
                 1352.321045 7.752799988 1391.773849 45.81674957
25 05 2018 22:00
                 1221.61499 7.625467777 1323.37171 42.83636093
25 05 2018 22:10 1780.743042 8.642947197 1916.848013 51.73025131
                 1855.331055 8.822519302 2030.265531 49.44443893
25 05 2018 22:20
25 05 2018 22:30
                 1757.546997 8.616339684 1900.206195 52.40394974
                 1828.86499 8.90832901 2085.070413 55.64075851
25 05 2018 22:40
25 05 2018 22:50
                 1829.791992 8.777135849 2001.430393 51.97996902
25 05 2018 23:00
                 1718.046021 8.686163902 1943.972442 47.54296112
25 05 2018 23:10
                 1592.203979 8.393629074 1762.818998 46.44371033
25 05 2018 23:20
                 1387.177002 7.955787182 1504.78035 49.55786896
25 05 2018 23:30
                 1584.901978 8.335360527 1727.490336 48.67662048
25 05 2018 23:40
                 1634.067017 8.548473358 1857.968595 49.020401
                 1452.840942 8.091576576 1582.866858 46.03060913
25 05 2018 23:50
                 1813.822998 8.848398209 2046.755871 45.86077118
26 05 2018 00:00
26 05 2018 00:10 2145.888916 9.589136124 2509.003797 46.36405945
26 05 2018 00:20
                 2204.944092 9.572859764 2496.599003 44.52939987
26 05 2018 00:30
                 2383.082031 10.09644985 2850.628367 47.34291077
26 05 2018 00:40 2268.899902 9.516030312 2452.540038 47.2516098
                 2105.001953 9.100516319 2208.981182 44.81166077
26 05 2018 00:50
26 05 2018 01:00
                 2104.697998 9.329045296 2357.899378 43.10649109
26 05 2018 01:10
                 1968.631958 9.063140869 2184.772461 43.83956146
26 05 2018 01:20
                 2515.831055 10.24839973 2937.12647 41.2750206
26 05 2018 01:30
                 2528.447998 10.21916962 2921.016956 41.5276413
26 05 2018 01:40 2660.63501 10.62971973 3125.417875 41.93101883
26 05 2018 01:50 2706.460938 10.9912796 3269.354409 43.30566025
26 05 2018 02:00 2712.337891 11.15305042 3323.84451 44.84986115
26 05 2018 02:10 2728.159912 10.94309044 3251.976791 43.21306992
26 05 2018 02:20 2588.531006 10.69626999 3154.321574 44.72475052
26 05 2018 02:30
                 2505.114014 10.76253986 3181.996973 45.69738007
26 05 2018 02:40
                 2270.549072 10.0170002 2802.627028 44.5564003
26 05 2018 02:50
                 1742.224976 8.655581474 1924.765848 42.00737
                 1767.136963 8.698408127 1951.678004 41.59342957
26 05 2018 03:00
                 1877.562012 8.792161942 2010.96539 39.3695488
26 05 2018 03:10
26 05 2018 03:20
                 2283.672119 9.809071541 2667.558014 35.99906921
                 1936.088013 8.842587471 2043.050264 31.63742065
26 05 2018 03:30
26 05 2018 03:40
                 2129.835938 9.452308655 2438.681907 37.92073059
26 05 2018 03:50
                 1836.18103 8.79406929 2012.176588 40.94926071
26 05 2018 04:00
                 1362.374023 7.758920193 1395.111577 44.25825882
26 05 2018 04:10
                 1773.751953 8.756007195 1988.043715 43.70026016
26 05 2018 04:20
                 2033.220947 9.046977997 2174.318855 37.38190842
26 05 2018 04:30
                 1740.274048 8.46851635 1808.614885 48.02288818
26 05 2018 04:40 1361.659058 7.681361198 1353.149652 46.61740112
26 05 2018 04:50 1503.157959 8.113520622 1595.659964 47.97388077
```

```
26 05 2018 05:00 1681.276001 8.659996033 1927.53477 48.51512146
                 1413.511963 7.891746998 1468.627423 47.80619812
26 05 2018 05:10
26 05 2018 05:20
                 1059.490967 7.127346992 1074.361223 52.70870972
26 05 2018 05:30 860.4373779 6.655179977 868.041511 54.46035004
26 05 2018 05:40 1218.733032 7.531308174 1274.116775 52.50074005
26 05 2018 05:50 1348.370972 7.794170856 1414.422583 47.4836998
26 05 2018 06:00
                 1271.05603 7.686992168 1356.171357 45.94562912
                 1193.803955 7.254662991 1134.876523 49.26609039
26 05 2018 06:10
26 05 2018 06:20
                 1560.89502 8.065112114 1567.501332 35.26546097
26 05 2018 06:30
                 1278.791016 7.452531815 1233.469639 36.2983284
26 05 2018 06:40
                 1500.937012 7.886106014 1465.464447 37.00569916
26 05 2018 06:50 1209.873047 7.444335938 1229.271206 37.12395096
26 05 2018 07:00
                 1603.96106 8.180081367 1634.746178 31.00909042
26 05 2018 07:10 1825.024048 8.613972664 1898.727925 35.19929886
26 05 2018 07:20 1750.822021 8.536552429 1850.581629 34.70758057
26 05 2018 07:30 1554.378052 8.135849953 1608.725497 36.15032959
26 05 2018 07:40 1651.390991 8.474069595 1812.027728 33.92110062
26 05 2018 07:50 1459.400024 7.951754093 1502.490427 33.92737961
26 05 2018 08:00 1801.654053 8.724547386 1968.157621 33.95006943
26 05 2018 08:10 1960.272949 8.948613167 2110.918034 36.61408997
26 05 2018 08:20 1764.437988 8.367513657 1746.951179 34.58855057
26 05 2018 08:30 1789.206055 8.377358437 1752.926517 32.67486954
26 05 2018 08:40
                 1925.166016 8.877103806 2065.086304 30.61064911
26 05 2018 08:50
                 1983.134033 8.802412033 2017.476633 32.74457169
26 05 2018 09:00 2092.873047 9.11214447 2216.522655 30.40447998
26 05 2018 09:10 2060.582031 9.136311531 2232.21036 29.98246002
26 05 2018 09:20 2067.705078 9.404200554 2407.126932 29.03927994
26 05 2018 09:30 1625.832031 8.364811897 1745.312694 33.66362
26 05 2018 09:40 1740.968994 8.636614799 1912.8833
                                                     37.83378983
                 1867.900024 8.971766472 2125.806007 39.6160202
26 05 2018 09:50
26 05 2018 10:00 2088.550049 9.483096123 2458.889841 35.59762955
26 05 2018 10:10 2028.57605 9.113859177 2217.635111 32.53559113
26 05 2018 10:20 2010.287964 8.968902588 2123.963249 27.09437943
26 05 2018 10:30 1972.333008 8.80789566 2020.962315 28.56353951
26 05 2018 10:40 2288.641113 9.658017159 2560.460833 37.37876129
26 05 2018 10:50
                 1922.54895 8.704511642 1955.52241 41.1328392
26 05 2018 11:00
                 2785.931885 10.50174046 3066.617444 55.38727951
26 05 2018 11:10 3345.101074 12.56970978 3583.97302 38.05397034
26 05 2018 11:20 2303.970947 9.809280396 2667.70075 43.64653015
26 05 2018 11:30 2545.868896 10.38286018 3008.077119 44.34473038
26 05 2018 11:40 3315.658936 11.82443047 3491.96978 42.66405869
26 05 2018 11:50 3531.843018 12.72593975 3592.172077 44.24977875
26 05 2018 12:00 3477.230957 12.55247021 3582.844444 50.26876068
26 05 2018 12:10 3537.389893 12.30788994 3561.912765 48.46310043
26 05 2018 12:20 3505.188965 12.3295002 3564.138498 46.03396988
26 05 2018 12:30 3488.104004 12.2207098 3552.17536 42.61209869
26 05 2018 12:40 3583.434082 12.76486015 3593.652999 39.29354095
26 05 2018 12:50 3586.756104 12.96527004 3597.803203 40.03910065
26 05 2018 13:00 3533.149902 13.19347954 3600 39.9397316
26 05 2018 13:10
                 3318.207031 11.66983032 3461.001751 44.03855896
26 05 2018 13:20
                 2860.201904 10.57870007 3102.490481 47.62865067
26 05 2018 13:30
                 3194.528076 11.34508038 3381.143083 46.94787979
26 05 2018 13:40
                 3351.374023 11.91987038 3508.936399 44.26823044
26 05 2018 13:50
                 3103.126953 11.06357956 3294.43104 43.907341
26 05 2018 14:00
                 3369.424072 12.25125027 3555.725633 47.42063904
26 05 2018 14:10 2877.025879 10.83183002 3209.777738 44.99160004
26 05 2018 14:20 3461.593994 12.29559994 3560.613836 47.15555954
26 05 2018 14:30 2627.956055 10.07859993 2840.01283 44.14608002
26 05 2018 14:40 3011.445068 11.14486027 3321.225285 44.29203033
```

```
26 05 2018 14:50 3132.308105 11.19215965 3336.150742 39.31708145
                 3405.219971 12.0012598 3522.145764 38.60406113
26 05 2018 15:00
                 2983.258057 10.83773994 3212.093339 41.57368851
26 05 2018 15:10
26 05 2018 15:20 3385.98999 12.14531994 3542.76112 38.71234131
26 05 2018 15:30 3427.875977 12.57738972 3584.461331 38.25183105
26 05 2018 15:40 3364.845947 11.91487026 3508.087386 38.67879868
26 05 2018 15:50
                 3554.799072 12.82275009 3595.446859 42.61103821
                             13.29588032 3600 41.57629013
26 05 2018 16:00
                 3565.25
26 05 2018 16:10
                 3494.51709 12.86520958 3596.453861 45.56270981
                 3476.97998 12.10898972 3537.890205 41.91246033
26 05 2018 16:20
26 05 2018 16:30
                 3579.029053 12.85690022 3596.27726 39.94628906
26 05 2018 16:40
                 3484.89209 12.91024971 3597.238462 43.02281189
26 05 2018 16:50 2849.3479
                             10.71415043 3161.896546 40.65739822
26 05 2018 17:00 2708.312012 10.49672031 3064.222806 45.83272934
26 05 2018 17:10 2639.959961 10.3502903 2991.360002 47.79475021
26 05 2018 17:20 2619.416016 9.854743004 2698.427059 43.46736908
26 05 2018 17:30 3039.103027 10.88679981 3230.993038 43.84635925
26 05 2018 17:40 3360.289063 11.56727028 3438.002296 43.98254013
26 05 2018 17:50 3552.545898 12.4384203 3574.237667 43.92034912
26 05 2018 18:00 3124.35498 11.2609396 3356.996554 48.07678986
26 05 2018 18:10 3032.076904 11.27075958 3359.89091 49.01052856
26 05 2018 18:20
                 3573.009033 13.46498013 3600 52.8708992
26 05 2018 18:30
                 3598.611084 13.32896996 3600
                                              51.86743927
26 05 2018 18:40
                 3604.419922 13.86227989 3600 53.67047882
26 05 2018 18:50
                 3567.704102 13.44155979 3600 52.85828018
26 05 2018 19:00
                 3535.22998 12.78497028 3594.331422 52.23270035
26 05 2018 19:10 3160.927979 11.25693989 3355.811848 44.95222855
26 05 2018 19:20
                 3320.611084 12.31013966 3562.147933 49.91939163
                           13.01513004 3600 51.17576981
26 05 2018 19:30
                 3559.7229
                 3592.843018 13.06260967 3600 50.02016068
26 05 2018 19:40
26 05 2018 19:50
                 2993.518066 11.07960987 3299.831459 44.46049881
26 05 2018 20:00
                 2990.534912 10.98635006 3267.601323 37.44680023
26 05 2018 20:10
                 3064.177002 10.79570961 3195.441752 34.12253189
26 05 2018 20:20
                 3532.24292 13.05706024 3600 38.89212036
26 05 2018 20:30 3480.645996 12.59020996 3585.256677 38.76195908
26 05 2018 20:40
                 3254.794922 11.57145023 3438.978871 40.80097961
26 05 2018 20:50
                 3316.012939 11.55173016 3434.342065 41.17222977
26 05 2018 21:00
                 2443.10498 9.82400322 2677.726147 38.43156052
26 05 2018 21:10 2578.862061 10.19960022 2910.092203 35.62393188
                 1485.728027 8.037130356 1551.330922 33.0126915
26 05 2018 21:20
26 05 2018 21:30 1072.71106 7.200901985 1109.053231 41.31035995
26 05 2018 21:40 1516.911011 8.056074142 1562.269754 46.46836853
26 05 2018 21:50 2002.203979 9.034549713 2166.287215 46.1867981
26 05 2018 22:00
                 1368.94104 7.780910969 1407.141322 35.74007034
26 05 2018 22:10 2302.693115 9.363880157 2380.704955 27.67288971
26 05 2018 22:20
                 1322.072998 7.637680054 1329.844213 38.78921127
26 05 2018 22:30
                 1526.030029 8.056440353 1562.481574 35.44713974
                 2346.771973 9.62025547 2532.458525 28.63707924
26 05 2018 22:40
26 05 2018 22:50 2960.530029 10.73585033 3170.982303 30.31510925
26 05 2018 23:00
                 2733 9.856113434 2699.342698 26.26222038
26 05 2018 23:10
                 2870.177979 10.55313015 3090.744945 28.47879982
26 05 2018 23:20
                 2124.833984 9.208283424 2279.03458 32.64017868
26 05 2018 23:30
                 2396.288086 9.732556343 2614.280897 23.72123909
26 05 2018 23:40
                 1943.656006 8.821640015 2029.705836 23.98317909
26 05 2018 23:50
                 2584.750977 10.10945034 2858.298883 20.94185066
27 05 2018 00:00 2526.590088 10.18356037 2901.053824 24.82666969
27 05 2018 00:10
                 1700.640015 8.410977364 1773.389662 24.89727974
27 05 2018 00:20 1318.185059 7.535686016 1276.380906 36.75223923
27 05 2018 00:30 734.9569092 6.303051949 731.0826986 22.74622917
```

```
27 05 2018 00:40 656.0900269 6.026527882 632.9754004 11.2469101
27 05 2018 00:50 449.3310852 5.616366863 503.1062176 18.76926994
27 05 2018 01:00 1476.33606 8.008363724 1534.789903 25.19264984
27 05 2018 01:10 1237.777954 7.661968231 1342.773204 23.01825905
27 05 2018 01:20 1497.69397 7.994631767 1526.924027 20.00646973
27 05 2018 01:30 1780.547974 8.547560692 1857.402701 18.35096931
27 05 2018 01:40 1279.295044 7.710462093 1368.808074 17.1365509
27 05 2018 01:50 1496.203003 8.25647068 1680.107751 9.07306385
27 05 2018 02:00 1563.222046 8.455475807 1800.609585 10.95891953
                 1656.588013 8.320116997 1718.293799 12.61793995
27 05 2018 02:10
27 05 2018 02:20 1745.855957 8.711680412 1960.040586 6.530880928
27 05 2018 02:30 1503.45105 8.247480392 1674.742042 5.270587921
27 05 2018 02:40 1941.823975 8.933794975 2101.401812 358.5054016
27 05 2018 02:50 2076.137939 9.550577164 2479.462658 356.8648987
27 05 2018 03:00 1460.80603 7.962235928 1508.445452 341.446991
27 05 2018 03:10 2579.949951 11.13883972 3319.290559 341.6659851
27 05 2018 03:50 0
                       0
                             0
                                   0
27 05 2018 04:00 0
                       8.6278162
                                   1907.378712 0
27 05 2018 04:10 631.4141846 8.489240646 1821.362909 90.37251282
27 05 2018 04:20 3018.61792 11.84375
                                         3495.53475 84.93044281
27 05 2018 04:30 3600.981934 14.1206398 3600 78.48053741
27 05 2018 04:40 3455.364014 12.79391003 3594.614091 81.89823151
27 05 2018 04:50 3553.897949 14.02523994 3600 79.26067352
27 05 2018 05:00 3535.514893 13.70963955 3600 78.52451324
27 05 2018 05:10 3498.275879 13.02616978 3600 78.13070679
27 05 2018 05:20 3270.894043 11.77738953 3483.008945 72.97331238
27 05 2018 05:30 3046.106934 11.65544033 3457.894745 75.29673004
27 05 2018 05:40 3024.74292 11.29312992 3366.408758 73.30544281
27 05 2018 05:50 2407.187988 10.20751953 2914.526752 71.64868164
27 05 2018 06:00 2334.204102 10.07303047 2836.680696 69.97324371
27 05 2018 06:10 2175.733887 9.777280807 2645.661614 62.92671967
27 05 2018 06:20 2075.337891 9.450722694 2437.6412
                                                     60.68531036
27 05 2018 06:30 1931.015015 9.248492241 2305.255732 57.14793015
27 05 2018 06:40 2022.781982 9.355751038 2375.381094 57.19649124
27 05 2018 06:50 1688.636963 8.74273777 1979.649137 61.673069
27 05 2018 07:00 1488.72998 8.348642349 1735.519003 63.14850998
27 05 2018 07:10 1443.697998 8.241493225 1671.172647 61.80047989
27 05 2018 07:20 1105.761963 7.480404854 1247.824464 64.44924927
27 05 2018 07:30 935.1978149 7.082685947 1053.649368 67.67350006
27 05 2018 07:40 1073.57605 7.457508087 1236.023766 66.04450226
27 05 2018 07:50 1110.968018 7.45641613 1235.462984 70.84670258
27 05 2018 08:00 1553.543945 8.511809349 1835.280966 72.49401093
27 05 2018 08:10 1580.519043 8.51608181 1837.919888 69.73988342
27 05 2018 08:20 1457.349976 8.257808685 1680.906924 69.45880127
27 05 2018 08:30 1332.098022 7.980237007 1518.699613 69.60421753
27 05 2018 08:40 1045.379028 7.29873991 1156.3492
                                                     67.58737946
27 05 2018 08:50 959.5042114 7.095748901 1059.680211 64.92733765
27 05 2018 09:00 1278.436035 7.774951935 1403.87585 59.05746078
27 05 2018 09:10 650.3421021 6.210137844 697.2040435 55.03968811
27 05 2018 09:20
                 699.8994751 6.440855026 783.0491307 52.97119141
27 05 2018 09:30
                 772.9074707 6.695860863 884.7612859 61.50656891
27 05 2018 09:40 371.6173096 5.166860104 378.0743958 48.41987991
27 05 2018 09:50
                 750.0374756 6.458677769 789.921762 40.20283127
27 05 2018 10:00 799.8826904 6.751609802 907.9858008 51.86380005
27 05 2018 10:10 596.5067139 5.753149986 544.8575101 42.69329071
27 05 2018 10:20 335.7719116 5.221977234 392.4628213 38.15383148
27 05 2018 10:30 514.6381836 5.912023067 595.7080369 39.5968399
27 05 2018 10:40 718.0952759 6.504218102 807.6418479 36.11869812
27 05 2018 10:50 1012.586975 6.994265079 1013.409237 25.35326958
```

```
27 05 2018 11:00 1108.862061 7.311432838 1162.583783 34.30487823
                 1006.856018 6.955339909 996.0104805 34.86862946
27 05 2018 11:10
27 05 2018 11:20
                 1470.958008 7.794640064 1414.680613 31.33361053
27 05 2018 11:30 1783.061035 8.782773018 2005.006106 38.08543015
27 05 2018 11:40
                 1721.188965 8.641915321 1916.201784 40.81396103
27 05 2018 11:50
                 1010.947021 7.126911163 1074.15783 31.47373962
27 05 2018 12:00
                 1691.18396 8.613089561 1898.176495 25.3762207
                 1116.185059 7.437765121 1225.912572 20.01922989
27 05 2018 12:10
27 05 2018 12:20
                 2253.149902 9.422156334 2418.901009 12.98987007
                 2154.521973 9.014334679 2153.235998 354.6090088
27 05 2018 12:30
27 05 2018 12:40
                 1954.108032 8.743247032 1979.971127 14.47478962
27 05 2018 12:50
                 1134.639038 6.820503235 937.1915898 27.40979958
27 05 2018 13:00 566.4111938 5.589651108 495.1632065 16.40970039
27 05 2018 13:10
                 1908.329956 8.714043617 1961.530675 13.21903038
27 05 2018 13:20 2841.219971 10.52908993 3079.545221 21.78737068
27 05 2018 13:30 2372.165039 9.523123741 2458.103344 26.33740997
27 05 2018 13:40 3366.113037 11.52513981 3427.970632 21.75266075
27 05 2018 13:50 3253.118896 11.56105995 3436.545143 24.61282921
27 05 2018 14:00 2591.048096 9.74622345 2623.942272 24.40794945
27 05 2018 14:10 2722.917969 10.2658596 2946.630808 23.2305603
27 05 2018 14:20
                 2071.062988 9.104561806 2211.604385 31.2937603
                 2196.766113 9.342287064 2366.565894 27.70435905
27 05 2018 14:30
27 05 2018 14:40
                 2008.989014 8.966482162 2122.406102 28.82263947
27 05 2018 14:50
                 2699.156006 10.57514
                                         3100.86542 25.85050964
27 05 2018 15:00 2015.296021 9.216273308 2284.241678 31.51078033
27 05 2018 15:10 2142.635986 9.743114471 2621.750094 33.77017975
27 05 2018 15:20 2462.73291 10.17411041 2895.693213 36.77235031
27 05 2018 15:30 2586.129883 10.33199978 2981.841731 34.91891098
27 05 2018 15:40 2278.459961 9.768400192 2639.484375 31.64703941
27 05 2018 15:50 2514.204102 10.333333015 2982.537228 35.30635071
27 05 2018 16:00 2620.934082 10.38646984 3009.911657 46.46538925
27 05 2018 16:10 2343.750977 9.642594337 2549.08442 49.26499176
27 05 2018 16:20 2548.641113 10.11081028 2859.09831 49.5423317
27 05 2018 16:30 2307.646973 9.635686874 2543.962221 48.0713501
                 1940.80896 8.976806641 2129.04992 48.88759995
27 05 2018 16:40
27 05 2018 16:50
                 2122.075928 9.355308533 2375.091325 49.19578934
27 05 2018 17:00
                 1982.623047 9.158527374 2246.647597 47.67422104
27 05 2018 17:10
                 1436.029053 8.147733688 1615.698433 47.35599899
                 1212.984009 7.805168152 1420.477047 57.17142105
27 05 2018 17:20
                 1052.80896 7.274119854 1144.321437 65.30500031
27 05 2018 17:30
27 05 2018 17:40 756.5723877 6.637258053 860.7359673 62.54293823
27 05 2018 17:50 699.2694702 6.542657852 822.7782827 64.29949951
27 05 2018 18:00 565.0402222 6.23596096 706.526626 62.77481079
27 05 2018 18:10 491.0931091 5.945473194 606.7484685 54.18471146
27 05 2018 18:20
                 348.5852051 5.450724125 454.9358753 54.95032883
27 05 2018 18:30
                 511.0054932 5.948108196 607.6232042 55.27077866
27 05 2018 18:40
                 406.9820862 5.54869318 483.1170458 59.70648956
                 263.9995117 5.069244862 353.1947426 55.25024033
27 05 2018 18:50
27 05 2018 19:00
                 297.3428955 5.101584911 361.3533804 42.14937973
27 05 2018 19:10
                 373.0263977 5.432406902 449.7640667 43.71689987
27 05 2018 19:20
                 427.6223145 5.6145401
                                         502.5609231 38.90293884
27 05 2018 19:30
                 590.3510132 6.042203903 638.318352 37.45272064
27 05 2018 19:40
                 752.4528809 6.517020226 812.6646567 43.05424881
27 05 2018 19:50
                 780.1364746 6.54377079 823.2189817 43.99163818
27 05 2018 20:00
                 1035.042969 7.179360867 1098.817714 44.74573898
27 05 2018 20:10 836.5772095 6.827225208 940.0715003 42.69488907
27 05 2018 20:20 652.2147217 6.367063046 754.9646648 42.77077103
27 05 2018 20:30 936.065918 6.91247797 977.0712326 40.32754898
27 05 2018 20:40 1181.000977 7.557104111 1287.494747 40.78207016
```

```
27 05 2018 20:50 1167.45105 7.485784054 1250.608492 41.34825897
27 05 2018 21:00
                 1287.293945 7.696335793 1361.194027 36.8359108
27 05 2018 21:10
                 1309.484009 7.945802212 1499.114228 35.05199051
27 05 2018 21:20 1366.86499 7.838843822 1439.104133 35.9466095
27 05 2018 21:30 1088.425049 7.351540089 1182.435908 36.81671143
27 05 2018 21:40 1074.462036 7.327962875 1170.737662 36.67095184
27 05 2018 21:50
                 1072.026001 7.307017803 1160.412574 39.93996048
                             7.309730053 1161.746063 42.52518845
27 05 2018 22:00
                 1122.5
27 05 2018 22:10 1381.697998 7.952582836 1502.960832 45.4881897
                 1388.354004 7.930015087 1490.177474 43.98241043
27 05 2018 22:20
27 05 2018 22:30
                 1701.485962 8.555105209 1862.082357 44.87900162
27 05 2018 22:40 2058.12207 9.151309967 2241.955627 44.25329971
27 05 2018 22:50 2215.760986 9.374959946 2387.963016 41.78244019
27 05 2018 23:00 1959.302002 9.035607338 2166.970468 44.09355927
27 05 2018 23:10 1742.192017 8.721037865 1965.942713 45.86841965
27 05 2018 23:20 1647.55896 8.481410027 1816.542402 44.17420959
27 05 2018 23:30 1879.052002 8.993636131 2139.88917 50.19372177
27 05 2018 23:40 1658.77002 8.407226563 1771.102231 45.10223007
27 05 2018 23:50 1599.129028 8.324288368 1720.8085
                                                    47.61574936
28 05 2018 00:00 2458.495117 10.21444988 2918.392408 49.70590973
28 05 2018 00:10 1828.621948 8.750818253 1984.759883 47.55622864
28 05 2018 00:20 1927.891968 8.920453072 2092.841965 47.63652039
28 05 2018 00:30
                 2018.100952 9.003194809 2146.050675 48.95558929
28 05 2018 00:40
                 2230.990967 9.419644356 2417.253578 45.16365051
28 05 2018 00:50 2061.324951 9.035429001 2166.855255 42.51625061
28 05 2018 01:00 2356.041992 9.883901596 2717.776563 42.76562881
28 05 2018 01:10 2006.5
                             9.107086182 2213.241535 42.48003006
28 05 2018 01:20 1584.942993 8.40755558 1771.302839 43.70573044
28 05 2018 01:30 1580.26001 8.239945412 1670.250396 41.73735046
28 05 2018 01:40 1831.121948 8.829548836 2034.741475 39.19227982
28 05 2018 01:50 1571.131958 8.304695129 1709.009418 36.21020889
28 05 2018 02:00 1441.39502 8.017677307 1540.135981 37.8008194
28 05 2018 02:10
                 1558.199951 8.311984062 1713.395062 37.24477005
28 05 2018 02:20 1822.927979 8.906567574 2083.941886 35.2001915
28 05 2018 02:30 1724.722046 8.687128067 1944.578887 37.99552155
28 05 2018 02:40 1503.607056 8.24064064 1670.664616 40.14754105
28 05 2018 02:50
                 1363.005981 8.027805328 1545.959679 40.65837097
28 05 2018 03:00
                 1503.915039 8.305568695 1709.534793 40.56465912
28 05 2018 03:10 1339.151001 7.857677937 1449.578566 39.66550064
28 05 2018 03:20 1234.942017 7.760066986 1395.737492 41.10971069
28 05 2018 03:30 1324.697021 7.983640194 1520.642054 43.43297958
28 05 2018 03:40 1353.713989 7.884273052 1464.437442 39.0051384
28 05 2018 03:50 1202.499023 7.625888824 1323.594548 43.7039299
28 05 2018 04:00 1149.615967 7.488984108 1252.266808 37.99123001
28 05 2018 04:10 822.8707275 6.60208416 846.5044751 34.72277832
28 05 2018 04:20 652.8339844 6.260484219 715.4462349 31.61738968
28 05 2018 04:30 834.6784058 6.735017776 901.0357683 31.74250031
28 05 2018 04:40 961.425293 7.02828598 1028.773082 32.72288132
28 05 2018 04:50 1429.958008 7.921083927 1485.133693 31.99724007
28 05 2018 05:00
                 1866.698975 8.794799805 2012.640528 28.51259995
28 05 2018 05:10
                 1785.436035 8.746054649 1981.746554 30.01619911
28 05 2018 05:20
                 1880.365967 8.730378151 1971.839065 27.58505058
28 05 2018 05:30
                 1743.301025 8.647126198 1919.465867 29.20396042
28 05 2018 05:40 1259.996948 7.537305832 1277.219291 22.66729927
28 05 2018 05:50 1329.600952 7.756394863 1393.733815 23.18572998
28 05 2018 06:00 1398.965942 7.806758881 1421.353977 26.32749939
28 05 2018 06:10 1351.287964 7.638378143 1330.214775 33.03664017
28 05 2018 06:20 1616.171997 8.376079559 1752.149858 38.03591919
28 05 2018 06:30 1631.130005 8.439077377 1790.561038 30.1506691
```

```
28 05 2018 06:40 2169.962891 9.343705177 2367.494217 33.23305893
28 05 2018 06:50
                 2146.558105 9.305724144 2342.64424 33.76934814
28 05 2018 07:00
                 2174.397949 9.345626831 2368.752224 33.44427872
28 05 2018 07:10 1676.248047 8.385069847 1757.612405 34.22914886
28 05 2018 07:20
                 2324.979004 9.794420242 2657.508682 34.68701935
28 05 2018 07:30
                 2108.01001 9.189411163 2266.742134 31.32917023
28 05 2018 07:40
                 1804.66394 8.623055458 1904.402349 31.18139076
                 1555.873047 8.221773148 1659.438564 28.95590019
28 05 2018 07:50
28 05 2018 08:00
                 1250.385986 7.614019871 1317.321652 30.29327965
                 1432.137939 7.940885067 1496.327853 35.0616684
28 05 2018 08:10
28 05 2018 08:20
                 1447.630981 7.960010052 1507.179889 33.10699844
28 05 2018 08:30
                 1552.762939 8.210747719 1652.893267 33.31217957
28 05 2018 08:40
                 1687.478027 8.486682892 1819.787871 33.48410034
28 05 2018 08:50
                 1547.980957 8.126173973 1603.057927 29.13357925
28 05 2018 09:00
                 1224.390991 7.54918623 1283.379055 34.30944061
28 05 2018 09:10
                 1266.389038 7.567350864 1292.833293 28.24249077
28 05 2018 09:20
                 1891.509033 9.042482376 2171.412944 26.16690063
28 05 2018 09:30
                 1351.416016 7.837750912 1438.497561 24.45900917
28 05 2018 09:40 1101.790039 7.276256084 1145.361666 26.78726959
                 1171.612061 7.409849167 1211.715892 21.68342018
28 05 2018 09:50
28 05 2018 10:00
                 1254.765991 7.834750175 1436.832836 22.56472969
                 991.1384277 7.135756016 1078.290505 19.65480995
28 05 2018 10:10
28 05 2018 10:20
                 1035.863037 7.269370079 1142.010857 16.71847916
28 05 2018 10:30
                 1261.522949 7.781044006 1407.214272 14.22247982
28 05 2018 10:40
                 1563.859985 8.497041702 1826.169649 9.629782677
28 05 2018 10:50
                 1561.793945 8.465332985 1806.659521 13.04870987
28 05 2018 11:00
                 1822.655029 8.856728554 2052.071199 12.12712955
28 05 2018 11:10
                 1692.889038 8.536304474 1850.428085 21.18984985
                 1737.286987 8.768147469 1995.732545 26.48497963
28 05 2018 11:20
                 1966.756958 9.299972534 2338.883599 26.6093998
28 05 2018 11:30
28 05 2018 11:40
                 1811.811035 8.910868645 2086.69777 25.32929039
28 05 2018 11:50
                 2044.687012 9.30429554 2341.710095 27.49854088
28 05 2018 12:00
                 2271.718018 9.52545929 2459.931084 26.47135925
28 05 2018 12:10
                 2494.195068 10.24936008 2937.651531 26.96438026
                 2317.365967 9.650184631 2554.693683 19.87918091
28 05 2018 12:20
28 05 2018 12:30
                 2419.943115 9.921695709 2742.445551 17.1277504
28 05 2018 12:40
                 2582.655029 10.3743
                                         3003.712104 16.11384964
28 05 2018 12:50
                 3318.706055 12.11093044 3538.155949 17.88348961
28 05 2018 13:00
                 3285.981934 11.85072041 3496.804617 17.22415924
28 05 2018 13:10
                 3394.475098 11.91784954 3508.59379 16.60357094
28 05 2018 13:20 3294.375
                             11.54351044 3432.387159 15.46138954
28 05 2018 13:30 3284.374023 11.61349964 3448.616674 16.24856949
28 05 2018 13:40
                 3271.593018 11.68826008 3464.924443 17.44726944
28 05 2018 13:50
                 3269.362061 11.74209023 3476.021164 18.14053917
28 05 2018 14:00
                 3318.312988 11.96409035 3516.25532 18.0718708
28 05 2018 14:10
                 3319.093994 11.89463997 3504.607584 17.45397949
28 05 2018 14:20
                 3069.558105 11.00807953 3275.28717 19.99724007
                 3186.837891 11.28896999 3365.204649 20.08097076
28 05 2018 14:30
28 05 2018 14:40
                 2913.809082 10.85299015 3218.029858 23.25852966
28 05 2018 14:50
                 2667.791016 10.37915993 3006.192781 24.62194061
28 05 2018 15:00
                 3031.721924 11.17961979 3332.240977 26.11617088
28 05 2018 15:10
                 2826.727051 10.83413982 3210.683755 25.92610931
28 05 2018 15:20
                  3047.996094 11.21720982 3343.859784 24.90745926
28 05 2018 15:30
                 2363.176025 9.672028542 2570.724167 31.92907906
28 05 2018 15:40
                 2685.087891 10.20940018 2915.577143 29.67593002
28 05 2018 15:50
                 2390.184082 9.629721642 2539.525242 29.40196991
28 05 2018 16:00 2029.426025 9.051319122 2177.125612 30.81528091
28 05 2018 16:10 2005.000977 9.251776695 2307.399383 31.82180977
28 05 2018 16:20 1774.609985 8.765715599 1994.191712 36.35744095
```

```
28 05 2018 16:30 1780 8.588673592 1882.950765 34.67470932
28 05 2018 16:40
                 1531.599976 8.151694298 1618.025344 38.8814888
28 05 2018 16:50
                 1294.353027 7.774439812 1403.595409 40.86603928
28 05 2018 17:00 1177.587036 7.534533024 1275.784353 38.21960831
28 05 2018 17:10
                 1320.327026 7.841694832 1440.687104 40.58325958
28 05 2018 17:20
                 1156.255981 7.511365891 1263.835606 42.70460892
28 05 2018 17:30
                 1189.972046 7.602332115 1311.162239 41.44384003
28 05 2018 17:40
                 1300.584961 7.865550041 1453.968484 43.07559967
28 05 2018 17:50
                 1092.948975 7.462687016 1238.685909 40.17658997
                 1417.623047 8.110938072 1594.151938 39.54999924
28 05 2018 18:00
28 05 2018 18:10
                 1595.083008 8.614028931 1898.763061 46.07472992
28 05 2018 18:20
                 2087.170898 9.326728821 2356.38362 40.70875931
28 05 2018 18:30
                 1632.849976 8.44819355 1796.144699 38.18917084
28 05 2018 18:40
                 1595.477051 8.332715034 1725.892908 40.46308899
28 05 2018 18:50
                 2165.940918 9.728577614 2611.45635 45.35942841
28 05 2018 19:00 2487.460938 10.23902988 2931.989565 44.50852966
28 05 2018 19:10 2284.270996 9.923078537 2743.339414 45.91749954
28 05 2018 19:20 2427.443115 10.00010014 2792.16426 46.49359894
28 05 2018 19:30 2013.511963 9.153068542 2243.098716 47.12604904
                 1755.354004 8.678294182 1939.024601 46.81912994
28 05 2018 19:40
28 05 2018 19:50
                 1513.625977 8.16272831 1624.51576 39.72763062
                 1315.85498 7.878757954 1461.349602 44.18309021
28 05 2018 20:00
28 05 2018 20:10
                 1081.496948 7.472208023 1243.590706 46.73237991
28 05 2018 20:20
                 702.3104248 6.549184799 825.3647884 45.11933136
28 05 2018 20:30
                 787.2896118 6.740274906 903.23437
                                                     41.26776886
28 05 2018 20:40 859.4385986 6.952364922 994.6885498 46.31332016
28 05 2018 20:50 728.2750244 6.70457983 888.3696477 49.23690033
28 05 2018 21:00 1360.56897 8.023367882 1543.406815 50.67145157
28 05 2018 21:10 1028.269043 7.349114895 1181.228889 53.21350861
28 05 2018 21:20 699.8494873 6.573859215 835.1859753 44.02841187
28 05 2018 21:30
                 720.1831055 6.632662773 858.8687003 44.25899887
28 05 2018 21:40 809.8834229 6.820177078 937.0519916 42.84801865
28 05 2018 21:50
                 754.7661743 6.641182899 862.3327168 44.25497055
28 05 2018 22:00
                 710.4658203 6.588634014 841.0996019 37.34930038
28 05 2018 22:10 562.8184204 6.059659958 644.2989089 38.56621933
28 05 2018 22:20
                 296.6072998 5.028299809 342.9824783 27.86655998
                 795.2390747 6.65329504 867.2714202 27.88689995
28 05 2018 22:30
28 05 2018 22:40
                 868.3820801 6.897234917 970.3906243 27.8907795
28 05 2018 22:50
                 522.3947144 5.881526947 585.745189 33.04114151
28 05 2018 23:00 479.1774902 5.76677084 549.1162927 32.38542938
28 05 2018 23:10
                 528.1621094 5.955152035 609.9651579 36.7840004
28 05 2018 23:20 542.0654297 5.94973278 608.1628816 36.30451965
28 05 2018 23:30 415.666687 5.491691113 466.6128734 30.87796021
28 05 2018 23:40 467.9713135 5.789189816 556.1666068 36.76900864
28 05 2018 23:50
                 522.9799194 5.920053959 598.3479032 38.77122116
29 05 2018 00:00
                 558.1320801 6.038755894 637.1408931 37.46640015
29 05 2018 00:10
                 711.869873 6.596699238 844.3381145 40.88888168
29 05 2018 00:20
                 548.2230225 5.975502014 616.7609154 39.1097908
                 367.8409119 5.364250183 430.783417 41.46656036
29 05 2018 00:30
29 05 2018 00:40
                 458.3786011 5.786079884 555.1855641 40.18144989
29 05 2018 00:50
                 292.0751953 5.039719105 345.8175499 41.46762085
29 05 2018 01:00
                 319.7033997 5.077950001 355.382754 42.40346146
29 05 2018 01:10
                 472.1453857 5.724468231 535.9503214 39.0149498
29 05 2018 01:20
                 400.5314026 5.464839935 458.9421178 35.38228989
29 05 2018 01:30
                 173.7245941 4.491456032 220.1934174 30.25309944
29 05 2018 01:40
                 252.2427063 4.792813778 286.6846157 27.41815948
29 05 2018 01:50 363.4530029 5.411275864 443.8352179 30.95194054
29 05 2018 02:00 449.3583069 5.709427834 531.3121494 33.26792908
29 05 2018 02:10 1044.630981 7.336452007 1174.940429 45.19932175
```

```
29 05 2018 02:20 1061.963013 7.252713203 1133.932964 48.55635834
                 774.5728149 6.647589207 864.9427848 46.24723053
29 05 2018 02:30
29 05 2018 02:40
                 796,206604 6,753764153 908,8905812 51,00627136
29 05 2018 02:50 589.3154297 6.138461113 671.7019153 50.06172943
29 05 2018 03:00 633.8461304 6.283825874 723.9961718 52.28403091
29 05 2018 03:10
                 728.3909302 6.563159943 830.9189328 53.55313873
29 05 2018 03:20 854.5396729 6.847146988 948.6385546 54.90594864
                 1053.915039 7.345245838 1179.305028 57.3855896
29 05 2018 03:30
29 05 2018 03:40
                 541.6630859 6.053871155 642.312019 51.28340149
                 581.9168091 6.074261189 649.3263918 49.05469894
29 05 2018 03:50
29 05 2018 04:00
                 268.9418945 4.830582142 295.4440358 42.3680687
29 05 2018 04:10
                 282.7366943 4.987967014 333.0489879 31.86467934
29 05 2018 04:20
                 299.8514099 5.042918205 346.6135962 39.30612183
29 05 2018 04:30
                 333.9507141 5.205812931 388.2171771 38.36648178
29 05 2018 04:40 418.3782959 5.475934029 462.1034632 50.50074005
29 05 2018 04:50
                 301.1452026 5.020390987 341.0248343 42.40663147
29 05 2018 05:00
                 256.1438904 4.66426897 257.6030705 40.17462158
29 05 2018 05:10 261.2067871 4.775028229 282.5940825 48.23897171
29 05 2018 05:20 297.0592957 4.98443222 332.184303 46.59674072
                 354.2437134 5.225580215 393.4121191 50.16572952
29 05 2018 05:30
29 05 2018 05:40
                 303.0296936 5.217315197 391.236089 57.0931015
29 05 2018 05:50
                 265.0905151 5.013791084 339.3948531 63.89479828
29 05 2018 06:00
                 141.8659058 4.210381985 163.0841788 55.54468155
29 05 2018 06:10
                 185.9597015 4.384640217 197.9729867 50.30867004
29 05 2018 06:20
                 178.3930969 4.410225868 203.2354767 44.1659317
29 05 2018 06:30 539.7788696 6.044984818 639.2689306 54.39789963
29 05 2018 06:40 782.7349854 6.821005821 937.4067265 55.65756989
29 05 2018 06:50 726.4337158 6.587635994 840.6993677 56.58259964
29 05 2018 07:00
                 732.3870239 6.606369019 848.2306258 54.64255905
29 05 2018 07:10 673.4796143 6.496373177 804.5729551 54.12337112
29 05 2018 07:20 652.4362793 6.300419807 730.1101625 54.27667999
29 05 2018 07:30 434.9916077 5.695750237 527.1136272 56.81167984
29 05 2018 07:40
                 242.0175934 4.556337833 234.0206886 41.38056946
29 05 2018 07:50
                 304.3424072 5.076405048 354.9940012 52.57250977
29 05 2018 08:00 93.8914032 3.825819969 96.98452873 48.92330933
                 30.86189079 3.315154076 34.03069773 61.68048096
29 05 2018 08:10
29 05 2018 08:20
                 117.0931015 3.916837931 112.5861571 36.05958939
29 05 2018 08:30
                 126.1949005 4.003016949 123.5603452 26.23646927
29 05 2018 08:40
                 478.311615 5.724380016 535.9230523 22.67602921
29 05 2018 08:50
                 875.9002075 6.849833012 949.7973003 22.74720001
29 05 2018 09:00 521.3522949 5.828900814 568.7800523 31.66966057
29 05 2018 09:10 217.596405 4.481723785 218.1412313 38.26596069
29 05 2018 09:20
                 285.1337891 4.950779915 323.9992846 36.96646118
29 05 2018 09:30
                 302.3594971 4.90775013 313.6560707 39.99768066
29 05 2018 09:40
                 340.7172852 5.180058002 381.4970285 32.85189056
29 05 2018 09:50
                 552.6520996 5.964507103 613.0837317 31.87845039
29 05 2018 10:00
                 583.0161133 6.123507023 666.4506369 32.26377106
                 498.3463135 5.810512066 562.9192367 27.9445591
29 05 2018 10:10
29 05 2018 10:20
                 624.9547729 6.076910019 650.2408756 27.18367958
29 05 2018 10:30
                 611.677002 6.117400169 664.3130275 25.27227974
29 05 2018 10:40
                 662.6461182 6.268134117 718.2418932 24.37921906
29 05 2018 10:50
                 652.0869751 6.111789227 662.3525169 34.17004013
29 05 2018 11:00
                 707.4379883 6.358181953 751.6246583 43.44509888
29 05 2018 11:10
                 867.0797729 6.81512022 934.8892387 43.77222061
29 05 2018 11:20
                 1004.122009 7.064128876 1045.120379 33.37688828
29 05 2018 11:30
                 1305.345947 7.870018005 1456.463173 35.97597122
29 05 2018 11:40
                 1307.51001 7.624929905 1323.087076 31.76436043
29 05 2018 11:50 2127.052002 9.368770599 2383.908299 30.66563034
29 05 2018 12:00 2148.349121 9.116390228 2219.277366 32.78701019
```

```
29 05 2018 12:10 1590.92395 8.26646328 1686.079979 34.4344902
29 05 2018 12:20
                 1981.671997 8.965948105 2122.062557 29.94507027
29 05 2018 12:30
                 1908.890991 8.709728241 1958.809915 27.62067032
29 05 2018 12:40 969.7999268 6.864838123 956.2865499 34.78918839
29 05 2018 12:50
                 1773.370972 8.371843338 1749.578143 26.48830032
29 05 2018 13:00
                 1691.395996 8.337396622 1728.720184 33.70878983
29 05 2018 13:10
                 2068.833008 9.197757721 2272.177464 38.88602066
                 1722.517944 8.344732285 1733.153922 42.84733963
29 05 2018 13:20
                 1767.317993 8.49052906 1822.156481 40.55221176
29 05 2018 13:30
                 2157.076904 9.486591339 2461.184571 38.32291031
29 05 2018 13:40
29 05 2018 13:50
                 1938.587036 8.86917305 2060.017981 44.85464859
29 05 2018 14:00
                 1986.785034 9.024198532 2159.60233 41.48999023
29 05 2018 14:10
                 1913.578003 8.925227165 2095.903995 54.74074173
29 05 2018 14:20 2238.531982 9.379343033 2390.834801 47.80767059
29 05 2018 14:30 2087.545898 9.06681633 2187.150948 48.78670883
29 05 2018 14:40 2611.893066 9.994965553 2788.967747 44.46461868
29 05 2018 14:50 3000.037109 10.75732994 3179.860679 44.22669983
29 05 2018 15:00 3299.197998 11.69104958 3465.512659 50.30234909
29 05 2018 15:10 3242.710938 11.42726994 3403.323752 51.42121887
29 05 2018 15:20 3293.413086 11.41839981 3400.995793 48.53247833
                 3280.895996 11.5370903 3430.851137 51.05028152
29 05 2018 15:30
29 05 2018 15:40
                 3603.315918 13.44692993 3600 52.8861084
29 05 2018 15:50
                 3571.533936 12.6326704 3587.71469 51.1880188
29 05 2018 16:00
                 3522.351074 12.11909962 3539.267678 48.64875031
29 05 2018 16:10
                 3011.589111 10.6679697 3142.167811 39.83847046
29 05 2018 16:20 3442.470947 11.89488029 3504.649345 32.37680817
29 05 2018 16:30 3124.266113 11.1255703 3314.998339 34.12730026
29 05 2018 16:40 3275.24707 11.51124954 3424.587572 30.08987045
29 05 2018 16:50 3141.341064 10.76274014 3182.078959 33.64862061
29 05 2018 17:00 2874.270996 10.59490013 3109.8436
                                                     38.47748947
29 05 2018 17:10 3369.38501 11.39128017 3393.779902 32.21641922
29 05 2018 17:20 3312.832031 11.62586021 3451.385638 32.02574158
29 05 2018 17:30
                 2647.493896 10.12860012 2869.504424 32.58699036
29 05 2018 17:40 3035.718994 10.99123001 3269.336801 33.22473907
                 2653.032959 10.6214304 3121.738544 35.38563919
29 05 2018 17:50
29 05 2018 18:00
                 2138.424072 9.423116684 2419.530857 34.13803101
29 05 2018 18:10
                 2215.5
                             9.351290703 2372.460448 31.56418037
                 2913.185059 10.68249035 3148.429071 30.32069969
29 05 2018 18:20
29 05 2018 18:30 2651.875
                             10.33708954 2984.499867 35.07366943
29 05 2018 18:40 2439.97998 9.929800987 2747.676077 45.21744156
29 05 2018 18:50 2825.419922 10.83716011 3211.866523 51.58000946
29 05 2018 19:00 2550.412109 10.32382965 2977.559576 51.0245018
29 05 2018 19:10 2228.519043 9.637387276 2545.2247
                                                     51.16424942
29 05 2018 19:20
                 1947.240967 8.92361927 2094.872602 46.809021
29 05 2018 19:30
                 1437.032959 7.920035839 1484.542366 49.04248047
29 05 2018 19:40
                 2099.364014 9.386745453 2395.685528 49.39403915
                 1555.89502 8.191987038 1641.781239 46.30392075
29 05 2018 19:50
                 1380.152954 7.829318047 1433.821868 48.53298187
29 05 2018 20:00
29 05 2018 20:10 1546.553955 8.183327675 1636.663126 46.85454178
29 05 2018 20:20
                 2402.499023 9.788445473 2653.389999 41.57532883
29 05 2018 20:30
                 2616.64209 10.23789024 2931.363032 45.75067139
29 05 2018 20:40
                 2823.241943 10.89618969 3234.545129 46.67018127
29 05 2018 20:50
                 2732.837891 10.47585011 3054.19511 45.73371124
29 05 2018 21:00
                 2838.465088 10.95501041 3256.325255 48.12234116
29 05 2018 21:10
                 2553.691895 10.39336014 3013.403484 50.24542999
29 05 2018 21:20 2449.2229 10.15979958 2887.524734 54.9668808
29 05 2018 21:30 2381.226074 10.04267025 2818.34905 56.65655136
29 05 2018 21:40 2303.094971 9.894265175 2724.587065 57.05258942
29 05 2018 21:50 1771.009033 8.694609642 1949.286577 51.97299957
```

```
29 05 2018 22:00 1987.800049 9.06836319 2188.152105 51.53482819
29 05 2018 22:10
                 2232.968994 9.771300316 2641.504582 49.88584137
29 05 2018 22:20
                 1524.055054 8.241323471 1671.07149 45.44578934
29 05 2018 22:30
                 1464.387939 8.169393539 1628.441901 49.91473007
29 05 2018 22:40
                 1043.353027 7.284582138 1149.422148 50.53794861
29 05 2018 22:50
                 1006.119995 7.216925144 1116.707969 47.80730057
29 05 2018 23:00
                 752.4420166 6.570816994 833.9713781 46.3868103
                 551.3839111 5.977732182 617.5083617 38.60731888
29 05 2018 23:10
29 05 2018 23:20
                 435.8666992 5.744977951 542.3113087 33.5028801
                 481.322998 5.81664896 564.8713301 41.83494186
29 05 2018 23:30
29 05 2018 23:40
                 538.2546997 6.079935074 651.2861643 44.04640961
29 05 2018 23:50
                 394.7896118 5.635778904 508.9205437 46.20912933
30 05 2018 00:00
                 341.506897 5.382317066 435.7746997 44.00366974
30 05 2018 00:10
                 333.4556885 5.390161037 437.9506854 46.07189941
30 05 2018 00:20
                 175.9844971 4.493690968 220.6654839 52.64871979
30 05 2018 00:30
                 199.9611053 4.61014986 245.6858251 54.55744934
30 05 2018 00:40
                 308.9718018 5.211183071 389.625274 41.82421112
30 05 2018 00:50 491.8310852 5.911892891 595.665302 40.34170914
30 05 2018 01:00 626.0921021 6.422901154 776.1612314 49.02037048
30 05 2018 01:10
                 857.0576172 6.994787216 1013.643921 51.33657074
                 912.0582886 7.06443882 1045.262464 52.76987839
30 05 2018 01:20
                 869.788208 6.971998215 1003.433059 52.21065903
30 05 2018 01:30
30 05 2018 01:40
                 785.1940918 6.756764889 910.1517351 51.30540085
30 05 2018 01:50
                 815.6738281 6.751898766 908.1071275 50.54603958
30 05 2018 02:00 914.4088135 7.113739014 1068.022536 47.59513092
30 05 2018 02:10 1173.001953 7.69216013 1358.948062 47.46234894
30 05 2018 02:20
                 1149.892944 7.647554874 1335.091741 50.30044937
30 05 2018 02:30 1114.380005 7.590690136 1305.044529 53.5362587
30 05 2018 02:40 1350.270996 8.027605057 1545.844419 49.50569153
30 05 2018 02:50 992.3051758 7.251367092 1133.281852 46.24618912
30 05 2018 03:00 860.4345093 6.940393925 989.3804244 48.08205032
30 05 2018 03:10 803.5963135 6.807208061 931.5114495 47.70811081
30 05 2018 03:20
                 751.6906128 6.580862999 837.986177 49.20188141
30 05 2018 03:30
                 1082.375
                             7.409916878 1211.750186 53.96725082
                 1988.921997 9.480843544 2457.411004 57.56211853
30 05 2018 03:40
30 05 2018 03:50
                 2249.343994 9.899912834 2728.283806 53.48524094
30 05 2018 04:00
                 2339.365967 10.27680016 2952.541529 51.69749069
30 05 2018 04:10
                 1886.963013 9.035500526 2166.901463 54.98696136
30 05 2018 04:20
                 1769.160034 8.870322227 2060.752201 53.69884109
                 1825.230957 8.802897453 2017.785128 49.96516037
30 05 2018 04:30
30 05 2018 04:40
                 2100.875
                             9.414351463 2413.782614 49.2918396
                 1801.442017 8.771323204 1997.74518 51.15983963
30 05 2018 04:50
30 05 2018 05:00
                 1784.139038 8.926628113 2096.802735 53.64813995
30 05 2018 05:10
                 1762.282959 8.722350121 1966.770813 52.83681107
30 05 2018 05:20
                 1599.113037 8.370948792 1749.035268 52.07440186
30 05 2018 05:30
                 1261.895996 7.625455856 1323.365401 52.11204147
30 05 2018 05:40
                 1383.44397 7.871931076 1457.532022 47.45333862
                 1177.104004 7.473968983 1244.499393 48.95930099
30 05 2018 05:50
30 05 2018 06:00 1590.387939 8.388485909 1759.689707 49.66880035
30 05 2018 06:10
                 1189.724976 7.583226204 1301.131606 52.77647018
30 05 2018 06:20
                 1052.084961 7.243764877 1129.609414 55.53105164
30 05 2018 06:30
                 1062.829956 7.122478008 1072.090395 57.18619156
30 05 2018 06:40
                 1538.515015 8.368801117 1747.732167 57.1332016
30 05 2018 06:50
                 1294.458008 7.913054943 1480.606831 53.32563019
30 05 2018 07:00 965.0786133 6.994116783 1013.342589 40.36035919
30 05 2018 07:10 1435.333008 7.983849049 1520.761302 38.31811905
30 05 2018 07:20
                 1204.620972 7.500275135 1258.141056 35.70534897
30 05 2018 07:30 1576.573975 8.151603699 1617.972099 36.42176056
30 05 2018 07:40 1860.869019 8.760546684 1990.917768 34.71463013
```

```
1676.19397 8.252084732 1677.489181 38.19382858
30 05 2018 07:50
                 1581.755005 8.071452141 1571.17609 29.14542961
30 05 2018 08:00
                 2204.60498 9.369709969 2384.523651 27.55378914
30 05 2018 08:10
30 05 2018 08:20
                 2015.771973 9.14294529 2236.519804 32.19427109
30 05 2018 08:30
                 1590.317017 8.195681572 1643.966988 32.49922943
30 05 2018 08:40
                 1765.937988 8.428507805 1784.095068 32.1509285
30 05 2018 08:50
                 1835.583984 8.608553886 1895.345114 31.5821991
                 1893.46106 8.818644524 2027.79941 27.92575073
30 05 2018 09:00
30 05 2018 09:10
                 2290.879883 9.771532059 2641.665891 26.09308052
                 2364.584961 9.798838615 2660.54679 26.65007973
30 05 2018 09:20
30 05 2018 09:30
                 2493.582031 10.24094009 2933.038882 26.20417023
30 05 2018 09:40
                 2133.50708 9.435314178 2427.531632 26.29726028
30 05 2018 09:50
                 1727.406982 8.617562294 1900.969891 26.27301025
30 05 2018 10:00
                 1883.119019 8.946458817 2109.533918 28.02280998
30 05 2018 10:10
                 2103.705078 9.203624725 2275.999237 27.34466934
30 05 2018 10:20
                 2239.478027 9.610084534 2524.830431 22.03145981
30 05 2018 10:30
                 1975.071045 9.025538445 2160.467427 24.96235085
30 05 2018 10:40
                 2341.068115 9.632222176 2541.386679 20.47857094
30 05 2018 10:50
                 2354.339111 9.895208359 2725.205156 26.39625931
                 2446.13208 10.01358032 2800.516998 27.0018692
30 05 2018 11:00
                 2500.246094 10.04413033 2819.237155 23.50208092
30 05 2018 11:10
30 05 2018 11:20
                 2213.968018 9.617035866 2530.047812 28.04653931
30 05 2018 11:30
                 2343.477051 9.905472755 2731.913038 28.98292923
30 05 2018 11:40
                 2368.547119 9.795091629 2657.970753 28.72641945
30 05 2018 11:50
                 2424.511963 9.850351334 2695.488657 26.28469086
30 05 2018 12:00
                 2754.873047 10.82443047 3206.866609 28.82725906
30 05 2018 12:10 2495.508057 9.889101982 2721.198393 30.65332031
30 05 2018 12:20
                 2988.407959 10.97867966 3264.862414 30.41620064
                 3259.721924 11.53398037 3430.104205 28.29693031
30 05 2018 12:30
                 3218.88501 11.83922005 3494.70484 28.46241951
30 05 2018 12:40
30 05 2018 12:50
                 3126.576904 11.48876953 3419.032327 28.34742928
30 05 2018 13:00
                 3244.495117 11.78775978 3485.018723 26.77596092
30 05 2018 13:10
                 3392.560059 12.56906033 3583.931318 27.15504074
30 05 2018 13:20
                 3473.86499 12.44974041 3575.18121 28.28882027
                 3538.342041 12.56550026 3583.701591 25.93379021
30 05 2018 13:30
30 05 2018 13:40
                 3509.176025 12.55527973 3583.031433 26.13785934
                 3577.271973 12.50356007 3579.397153 26.3339901
30 05 2018 13:50
30 05 2018 14:00
                 3567.531982 12.93889046 3597.586302 26.84572029
30 05 2018 14:10
                 3504.980957 12.35706997 3566.870695 27.65829086
                 3479.479004 12.50259972 3579.325817 28.90740013
30 05 2018 14:20
30 05 2018 14:30 3369.967041 11.97426033 3517.890639 28.04825974
30 05 2018 14:40 3408.647949 12.29609013 3560.666105 29.01324081
30 05 2018 14:50
                 3147.155029 11.23396015 3348.939715 31.2548008
30 05 2018 15:00
                 3100.528076 10.9763298 3264.020634 30.76841927
30 05 2018 15:10
                 3214.451904 11.53114986 3429.422749 30.21133041
30 05 2018 15:20
                 3062.819092 11.01782036 3278.697579 30.38454056
                 2990.923096 10.82767963 3208.14652 29.80364037
30 05 2018 15:30
                 3099.813965 11.19744015 3337.786991 31.70203972
30 05 2018 15:40
30 05 2018 15:50
                 3141.558105 11.62504959 3451.204934 34.47146988
30 05 2018 16:00
                 2911.424072 10.61468029 3118.729355 34.44860077
30 05 2018 16:10
                 3236.854004 11.91541004 3508.179251 37.22842026
30 05 2018 16:20
                 2926.3479
                             11.08174992 3300.548073 38.30323029
30 05 2018 16:30
                 2825.024902 10.83423042 3210.719266 39.34228897
30 05 2018 16:40
                 2629.183105 10.56118965 3094.465573 40.45619965
30 05 2018 16:50
                 2446.688965 10.04512978 2819.8447
                                                     38.69366837
30 05 2018 17:00
                 2651.013916 10.80253983 3198.176887 42.23664093
30 05 2018 17:10
                 2659.680908 10.62831974 3124.797709 40.49237061
30 05 2018 17:20 2552.315918 10.50387955 3067.635755 40.15929031
30 05 2018 17:30 2045.550049 9.326460838 2356.208276 38.39165115
```

```
30 05 2018 17:40 1933.964966 9.091003418 2202.814931 38.69366837
                 2288.913086 9.75861454 2632.646813 37.4240303
30 05 2018 17:50
                 1908.989014 8.967995644 2123.37975 37.04024887
30 05 2018 18:00
30 05 2018 18:10
                 1652.645996 8.448417664 1796.282048 38.37044907
30 05 2018 18:20
                 1863.921021 8.956064224 2115.706698 37.86141968
30 05 2018 18:30
                 1727.718018 8.599630356 1889.778538 37.03908157
                 1813.631958 8.745547295 1981.425689 36.87722015
30 05 2018 18:40
                 1877.338013 8.89432621 2076.102984 37.91176987
30 05 2018 18:50
30 05 2018 19:00
                 1851.880005 8.884531021 2069.835559 39.14144897
                 1702.109009 8.471641541 1810.535245 41.80952835
30 05 2018 19:10
30 05 2018 19:20
                 1933.212036 9.060180664 2182.857189 40.77865982
30 05 2018 19:30
                 1935.280029 8.968149185 2123.478532 43.30541992
30 05 2018 19:40
                 2037.587036 9.247073174 2304.329636 48.3723793
30 05 2018 19:50
                 2132.876953 9.516875267 2453.20369 49.17290115
30 05 2018 20:00
                 1761.578979 8.875714302 2064.198093 53.64997101
30 05 2018 20:10
                 1803.505981 8.983963013 2133.657655 57.41389084
30 05 2018 20:20
                 1715.616943 8.801197052 2016.704542 56.58041
30 05 2018 20:30 1735.821045 8.814330101 2025.054388 47.81521988
30 05 2018 20:40 1552.285034 8.453734398 1799.541533 45.54196167
30 05 2018 20:50
                 1584.593018 8.515794754 1837.742545 49.53042984
30 05 2018 21:00
                 1241.927002 7.807553768 1421.792289 49.3300209
                 1170.803955 7.750067234 1390.284957 57.37218857
30 05 2018 21:10
30 05 2018 21:20
                 1382.613037 8.187274933 1638.995296 54.2649498
30 05 2018 21:30
                 1200.694946 7.737495899 1383.447255 52.76486969
30 05 2018 21:40
                 849.0471191 6.894014835 968.983005 52.45027924
30 05 2018 21:50
                 784.3217163 6.740606785 903.3732747 56.58152008
30 05 2018 22:00 966.2379761 7.385084152 1199.218912 56.22595978
30 05 2018 22:10 823.8673706 6.885268211 965.1659377 57.99689102
30 05 2018 22:20 811.7299194 6.805453777 930.7635392 56.33398819
30 05 2018 22:30 685.7659302 6.491704941 802.7500067 60.52820969
30 05 2018 22:40 432.568512 5.573359013 490.3525889 67.32575226
30 05 2018 22:50
                 386.4140015 5.463284016 458.4996421 70.51500702
30 05 2018 23:00
                 223.3128052 4.729290962 272.1743937 70.05200195
30 05 2018 23:10
                 108.0315018 4.096908092 141.2039978 69.71846008
30 05 2018 23:20 225.2140961 4.94868803 323.493285 56.74995041
30 05 2018 23:30 527.2393799 6.179428101 686.2103739 46.19387817
30 05 2018 23:40
                 614.8134766 6.249228001 711.3440928 49.53359985
                 1176.23999 7.682526112 1353.774447 42.4953804
30 05 2018 23:50
31 05 2018 00:00
                 1202.146973 7.867936134 1455.30048 45.01372147
31 05 2018 00:10
                 1111.660034 7.757659912 1394.423901 47.04679108
31 05 2018 00:20
                 1170.885986 7.608495235 1314.407988 47.72990036
31 05 2018 00:30 1327.269043 7.74207592 1385.936181 45.11058044
31 05 2018 00:40
                 1519.921997 8.191235542 1641.336795 45.1571312
31 05 2018 00:50
                 1866.996948 8.748895645 1983.543539 46.860569
31 05 2018 01:00
                 2019.337036 9.121159554 2222.372475 46.46873093
31 05 2018 01:10
                 2313.941895 9.958100319 2765.77356 48.96052933
31 05 2018 01:20
                 2256.74707 9.772862434 2642.59157 47.02730942
                 2081.998047 9.277552605 2324.231201 45.41650009
31 05 2018 01:30
31 05 2018 01:40
                 1928.67395 9.078437805 2194.674666 44.82217026
31 05 2018 01:50
                 2051.139893 9.259827614 2312.655026 46.71331024
31 05 2018 02:00
                 1880.137939 9.139969826 2234.586705 50.90761185
31 05 2018 02:10
                 2069.437988 9.463475227 2446.010184 46.28448868
31 05 2018 02:20
                 2021.014038 9.344493866 2368.010522 44.97462845
31 05 2018 02:30
                 2290.061035 9.725157738 2609.024222 43.80241013
31 05 2018 02:40
                 1951.692993 9.083812714 2198.155975 44.01713181
31 05 2018 02:50 1925.508057 9.041208267 2170.589514 46.0248909
31 05 2018 03:00 1362.974976 7.891663074 1468.58034 45.24340057
31 05 2018 03:10 1291.373047 7.761179924 1396.34508 43.40827179
31 05 2018 03:20 1225.85498 7.636861801 1329.409945 43.3078804
```

```
31 05 2018 03:30 1280.857056 7.811353207 1423.888368 37.30418015
                 1183.405029 7.57171011 1295.108651 36.15784836
31 05 2018 03:40
31 05 2018 03:50
                 1432.776001 7.944581032 1498.421985 33.86038971
31 05 2018 04:00 1357.072021 7.681471825 1353.208978 30.41444016
31 05 2018 04:10 1399.43396 8.032805443 1548.838658 34.14830017
31 05 2018 04:20
                 1571.371948 8.554911613 1861.962226 37.39558029
31 05 2018 04:30
                 1444.484985 8.149418831 1616.688296 36.95201874
                  1081.858032 7.409646034 1211.613016 38.69762039
31 05 2018 04:40
                 903.479187 7.034233093 1031.473994 36.17889023
31 05 2018 04:50
31 05 2018 05:00
                  835.2144775 6.903382778 973.0816226 39.06251144
31 05 2018 05:10
                 621.7304077 6.354894161 750.3903573 40.30315018
31 05 2018 05:20
                 675.1328125 6.26214695 716.053345 35.88705826
31 05 2018 05:30
                  666.9318237 6.300508022 730.1427444 36.01089859
31 05 2018 05:40
                 505.9099121 5.785356045 554.9573661 34.20363998
                 545.4699707 5.82703495 568.1837918 41.92465973
31 05 2018 05:50
31 05 2018 06:00
                 744.0460815 6.455725193 788.7808019 41.52685928
31 05 2018 06:10 566.1845703 5.907606125 594.2590189 45.23785019
31 05 2018 06:20
                 459.9977112 5.526449203 476.6407635 43.49707031
31 05 2018 06:30 664.6870728 6.240227222 708.0737087 37.99700928
                  689.0720215 6.299305916 729.6988218 40.56496811
31 05 2018 06:40
31 05 2018 06:50
                  510.2131958 5.693277836 526.3566548 48.71889877
                 314.3904114 5.105903149 362.4490197 42.82675171
31 05 2018 07:00
31 05 2018 07:10
                 555.5131836 6.135083199 670.5136369 63.54682159
31 05 2018 07:20
                 431.877594 5.612595081 501.98068
                                                      52.61851883
31 05 2018 07:30
                 289.6270142 4.866228104 303.8035398 38.45066833
31 05 2018 07:40
                 565.1901855 5.924096107 599.6791858 44.95809174
31 05 2018 07:50
                506.2060852 5.655426979 514.8425395 41.14218903
                539.2109985 5.895308971 590.2356131 30.08758926
31 05 2018 08:00
31 05 2018 08:10
                 763.2180176 6.333127022 742.2481448 34.40274811
                 857.6196289 6.574607849 835.485025 28.45170975
31 05 2018 08:20
31 05 2018 08:30
                 726.5427246 6.335361958 743.0817778 32.74414825
31 05 2018 08:40 815.9746094 6.590589046 841.8839511 29.28326035
31 05 2018 08:50
                  1057.305054 7.014296055 1022.437358 28.73513985
31 05 2018 09:00
                 921.010376 6.929934978 984.7573676 24.20940971
                  1054.609009 7.27442503 1144.470002 24.74253082
31 05 2018 09:10
31 05 2018 09:20
                  719.9155273 6.491281986 802.5849621 25.07825089
31 05 2018 09:30
                  730.1895752 6.45246315 787.5213713 22.21744919
                  810.1204834 6.747675896 906.335053 22.50094986
31 05 2018 09:40
31 05 2018 09:50
                  707.1384888 6.434926033 780.7705937 21.05880928
                 493.8125916 5.818789959 565.5532681 20.88246918
31 05 2018 10:00
31 05 2018 10:10
                 629.6121216 6.268686771 718.4441049 18.18364906
                464.1311951 5.829696178 569.0343296 18.35897064
31 05 2018 10:20
31 05 2018 10:30
                 478.006012 5.819406986 565.7498869 14.48493958
31 05 2018 10:40
                 262.8017883 4.874606133 305.7814841 15.18803978
31 05 2018 10:50
                  199.1674042 4.594574928 242.2908636 15.93500996
                  202.1143036 4.512703896 224.693538 17.47859955
31 05 2018 11:00
31 05 2018 11:10
                  147.0348053 4.30111599 181.0473801 15.12751007
                  209.3755951 4.584345818 240.0694885 16.77051926
31 05 2018 11:20
31 05 2018 11:30
                  189.780899 4.544634819 231.5076256 19.91264915
31 05 2018 11:40
                  242.8493042 4.852554798 300.5862531 20.38903999
31 05 2018 11:50
                  425.8884888 5.484778881 464.6319131 25.10971069
31 05 2018 12:00
                 618.8726807 6.178152084 685.7557632 24.70606041
31 05 2018 12:10
                  516.0551147 5.823797226 567.1499823 18.23707962
31 05 2018 12:20
                 531.3403931 5.919197083 598.0659121 15.49491024
31 05 2018 12:30
                 436.3452148 5.704834938 529.9002433 18.83481979
31 05 2018 12:40
                421.9653015 5.60766077 500.5102853 16.41868973 396.8496094 5.45539093 456.2583745 15.12998009
31 05 2018 12:50
31 05 2018 13:00 645.4102783 6.305339813 731.9286375 13.46288013
31 05 2018 13:10 949.7733154 7.180576801 1099.393798 15.09057045
```

```
31 05 2018 13:20 1203.593994 7.717973232 1372.86653 14.7785902
31 05 2018 13:30 871.9083862 6.911732197 976.7437152 16.90033913
31 05 2018 13:40 674.3297119 6.292388916 727.1474923 19.4744091
31 05 2018 13:50 952.2526855 7.119749069 1070.819031 20.22076035
31 05 2018 14:00 878.9741821 6.963530064 999.6554852 18.71272087
31 05 2018 14:10
                739.3756714 6.539365768 821.4755012 18.85914993
                815.8853149 6.701460838 887.0778339 17.7659893
31 05 2018 14:20
                 865.9697876 6.810828209 933.0560023 17.0164299
31 05 2018 14:30
31 05 2018 14:40
                 998.3549805 7.281235218 1147.788732 19.42086029
31 05 2018 14:50
                 750.3347168 6.689970016 882.3283337 21.22990036
31 05 2018 15:00 946.9459229 7.019110203 1024.614752 18.44171906
31 05 2018 15:10 1103.791016 7.339979172 1176.689705 20.39197922
31 05 2018 15:20 935.8604736 7.001112938 1016.489882 22.34720993
31 05 2018 15:30 1348.812988 7.992900848 1525.933923 25.38765907
31 05 2018 15:40 1720.171021 8.63100338 1909.37211 23.42712021
31 05 2018 15:50 1531.562988 8.203039169 1648.323582 26.47398949
31 05 2018 16:00 2195.927002 9.722064972 2606.821285 26.44127083
31 05 2018 16:10 2204.738037 9.702784538 2593.014194 29.48941994
31 05 2018 16:20 2291.556885 9.944637299 2757.195793 31.98563957
                 2255.166992 9.718899727 2604.563335 33.36708069
31 05 2018 16:30
31 05 2018 16:40
                 2226.920898 9.807263374 2666.321663 33.58845139
                                         2874.552877 36.17971039
31 05 2018 16:50
                 2372.897949 10.13729
31 05 2018 17:00
                 2167.022949 9.511533737 2449.003923 35.31747818
31 05 2018 17:10
                 2309.98999 10.02495956 2807.523765 39.75746918
31 05 2018 17:20 2040.420044 9.420808792 2418.01724 42.39733887
31 05 2018 17:30 2036.333008 9.461954117 2445.011848 41.66688156
31 05 2018 17:40 2093.773926 9.588053703 2508.181782 40.29019165
31 05 2018 17:50 2016.16394 9.223431587 2288.908229 38.8723793
31 05 2018 18:00 1951.707031 9.164444923 2250.495703 42.30138016
31 05 2018 18:10 2136.48999 9.83061409 2682.204387 44.64651871
31 05 2018 18:20 2123.537109 10.03612041 2814.356935 46.62353897
31 05 2018 18:30 2078.479004 9.424757004 2420.606692 48.20845032
31 05 2018 18:40
                 1817.738037 8.747986794 1982.968623 48.06917191
31 05 2018 18:50
                 1872.57605 8.89811039 2078.525485 47.40031052
                 1660.569946 8.475485802 1812.898447 46.21960068
31 05 2018 19:00
                 1819.991943 8.868762016 2059.755384 44.22164917
31 05 2018 19:10
31 05 2018 19:20
                 1962.030029 9.000169754 2144.100335 44.56467056
31 05 2018 19:30
                 1958.604004 8.935283661 2102.357409 44.5789299
31 05 2018 19:40 2166.225098 9.396219254 2401.894824 46.03783035
31 05 2018 19:50 2209.025879 9.579126358 2501.386206 46.17776871
31 05 2018 20:00 2159.149902 9.717591286 2603.628948 42.48720169
31 05 2018 20:10 1687.80896 8.658138275 1926.369391 41.76861954
31 05 2018 20:20 1499.686035 8.275046349 1691.216713 42.14250183
31 05 2018 20:30
                 1579.39502 8.384649277 1757.356721 41.82089996
31 05 2018 20:40
                 1264.416992 7.888162136 1466.616933 43.43843079
31 05 2018 20:50
                 1894.967041 9.07656002 2193.45867 37.1644783
                 1630.206055 8.797833443 2014.567453 35.99974823
31 05 2018 21:00
                 1398.343018 8.470196724 1809.647347 34.7975502
31 05 2018 21:10
                 1264.284058 8.096487045 1585.72552 35.71847916
31 05 2018 21:20
31 05 2018 21:30
                 971.7191772 7.272981167 1143.767221 39.77848053
31 05 2018 21:40
                 1140.94104 7.560274124 1289.144839 41.45050049
31 05 2018 21:50
                 1123.733032 7.535511017 1276.29035 43.9455719
31 05 2018 22:00
                 1022.541992 7.265454769 1140.108597 42.95878983
31 05 2018 22:10
                 706.1876831 6.685584068 880.5195199 38.11412048
31 05 2018 22:20 806.9959106 6.996582985 1014.451327 37.71474075
31 05 2018 22:30 684.8781128 6.664934158 872.0330938 35.40147018
31 05 2018 22:40 531.3361206 6.046504974 639.7889035 36.16679001
31 05 2018 22:50 522.1879883 6.23639822 706.6851004 39.41770935
31 05 2018 23:00 461.4299011 5.902983189 592.7446177 41.56861115
```

```
31 05 2018 23:10 512.5933838 6.060011864 644.4198089 39.51694107
                 591.6450806 6.274818897 720.6900065 42.56055069
31 05 2018 23:20
31 05 2018 23:30
                 597.8480835 6.165740967 681.3431027 42.47523117
31 05 2018 23:40 664.5811157 6.37302494 757.2116299 41.23434067
31 05 2018 23:50
                 670.3599854 6.323191166 738.5486102 39.36225891
01 06 2018 00:00
                 757.6248779 6.662232876 870.9265874 40.3138504
                 672.3128052 6.392140865 764.4422928 43.52814865
01 06 2018 00:10
01 06 2018 00:20
                 586.302002 6.162779808 680.2927251 43.87551117
01 06 2018 00:30
                 712.4727783 6.714571953 892.5157615 45.3827095
                  647.8087158 6.583013058 838.8469071 47.36259079
01 06 2018 00:40
01 06 2018 00:50
                  549.6671753 6.224031925 702.2111495 52.09794998
01 06 2018 01:00
                 483.6835938 6.031245232 634.5804798 54.05920029
01 06 2018 01:10
                 387.4360046 5.592654228 496.0526918 52.59679031
01 06 2018 01:20
                 399.9450989 5.601733208 498.7469799 45.35515976
01 06 2018 01:30
                 375.4809875 5.543466091 481.5910429 46.40888977
01 06 2018 01:40
                 378.4681091 5.555140018 485.002665 46.80083084
                 434.7669983 5.705931187 530.237053 45.67327881
01 06 2018 01:50
01 06 2018 02:00
                 447.5314026 5.730930805 537.9501414 47.1233902
01 06 2018 02:10
                 446.6806946 5.776453018 552.1549215 50.17559814
01 06 2018 02:20
                 427.3546143 5.67557621 520.9544694 48.64450073
01 06 2018 02:30
                 510.4916992 6.016771793 629.6634377 46.3951416
01 06 2018 02:40
                 687.5706177 6.596912861 844.4239928 49.25971985
01 06 2018 02:50
                 846.5250854 7.072727203 1049.066663 50.81921005
01 06 2018 03:00
                 829.8275146 6.889629841 967.0682022 52.7064209
01 06 2018 03:10
                 1196.095947 7.77046299 1401.418743 46.97853088
01 06 2018 03:20
                 1139.753052 7.396202087 1204.818023 48.07785034
01 06 2018 03:30
                 1169.415039 7.50005722 1258.029335 48.54967117
                 1321.686035 7.774157047 1403.44058 48.81980133
01 06 2018 03:40
                 1482.110962 8.135534286 1608.540459 48.48326111
01 06 2018 03:50
01 06 2018 04:00
                 1559.302979 8.34357357 1732.453292 51.01483917
01 06 2018 04:10
                 2001.619019 9.481863976 2458.08092 55.84870911
01 06 2018 04:20
                 2514.331055 10.52709007 3078.606653 55.26963043
01 06 2018 04:30
                 2555.968994 10.62362003 3122.71216 52.67655945
01 06 2018 04:40
                 2224.184082 9.745375633 2623.344792 55.09867096
                 1868.241943 9.215454102 2283.707714 59.56021118
01 06 2018 04:50
                 1490.805054 8.314624786 1714.98505 59.48983002
01 06 2018 05:00
01 06 2018 05:10
                 1302.487061 7.784242153 1408.968594 59.06692886
01 06 2018 05:20
                 1486.843018 8.228613853 1663.505073 58.26670074
01 06 2018 05:30
                 1692.272949 8.768815041 1996.155576 59.69739914
01 06 2018 05:40
                 1555.782959 8.374505997 1751.194416 60.60564041
                 1678.952026 8.763187408 1992.590195 63.44841003
01 06 2018 05:50
01 06 2018 06:00 1950.44104 9.470608711 2450.69235 67.91291809
01 06 2018 06:10
                 1915.067017 9.260573387 2313.141944 63.27550888
01 06 2018 06:20
                 1569.395996 8.396225929 1764.399813 61.6533699
01 06 2018 06:30
                 1602.844971 8.420394897 1779.137771 61.76847076
01 06 2018 06:40
                 1345.219971 7.894762993 1470.319981 59.28115845
01 06 2018 06:50
                 1348.92395 7.9966712
                                         1528.091005 56.41542053
                 1621.828003 8.497685432 1826.56649 57.75328827
01 06 2018 07:00
01 06 2018 07:10
                 1419.203003 8.029998779 1547.222316 61.96352005
01 06 2018 07:20
                 1310.839966 7.897502899 1471.858474 61.55847168
01 06 2018 07:30
                 914.7056885 6.998839855 1015.466631 61.33927155
01 06 2018 07:40
                 866.4661255 6.861811161 954.9752833 58.78953171
01 06 2018 07:50
                 917.628418 6.639900208 861.8106842 53.55680847
01 06 2018 08:00
                 983.3710938 6.872261047 959.5068419 50.93809128
01 06 2018 08:10
                 863.1687012 6.727221012 897.7810117 59.06406021
01 06 2018 08:20
                 1220.427002 7.648337841 1335.508342 63.12403107
01 06 2018 08:30
                 1891.599976 9.049826622 2176.160557 62.27986145
01 06 2018 08:40
                 1341.426025 7.752283096 1391.492161 55.99747086
01 06 2018 08:50 954.0570068 6.824388027 938.855299 54.30281067
```

```
1112.838989 7.217034817 1116.760485 61.15121078
01 06 2018 09:00
                 1081.620972 7.270168781 1142.399173 60.34661102
01 06 2018 09:10
01 06 2018 09:20
                 1819.647949 8.563685417 1867.409158 56.63246155
01 06 2018 09:30
                 1082.370972 7.094672203 1059.182279 54.42596817
01 06 2018 09:40 912.4049072 6.582183838 838.5148849 36.48414993
01 06 2018 09:50
                 1025.457031 6.922306061 981.393799 30.42837906
01 06 2018 10:00
                 1091.685059 7.212101936 1114.400072 30.11327934
                 1065.087036 7.023733139 1026.708453 31.30583
01 06 2018 10:10
01 06 2018 10:20
                 887.060791 6.728485107 898.3082253 25.63620949
01 06 2018 10:30
                 840.5612183 6.643560886 863.3010122 24.83929062
01 06 2018 10:40
                 952.8903809 6.98073101 1007.338136 27.42815971
01 06 2018 10:50
                 887.2006836 6.557679176 828.7380985 36.40311813
01 06 2018 11:00
                 708.8773804 6.184372902 687.9737219 34.97872925
01 06 2018 11:10
                 761.1845093 6.365664005 754.4379439 33.05706024
01 06 2018 11:20
                 765.4840698 6.528543949 817.2015014 26.24463081
01 06 2018 11:30 678.5709839 6.132003784 669.4314273 31.6800499
01 06 2018 11:40
                 765.4373169 6.49570179 804.3106295 29.92505074
01 06 2018 11:50 642.0213013 6.102417946 659.0856139 27.48823929
01 06 2018 12:00 695.2540283 6.374618053 757.8127095 25.54878998
                 764.2471924 6.613444805 851.0856576 27.14831924
01 06 2018 12:10
01 06 2018 12:20
                 659.3129272 6.234517097 706.003478 25.33544922
01 06 2018 12:30
                 746.3433838 6.653122902 867.2011135 30.20042038
01 06 2018 12:40
                 520.7841187 5.925933838 600.285013 26.85063934
01 06 2018 12:50
                 617.6328735 6.29116106 726.6951384 27.39860916
01 06 2018 13:00
                 661.0625
                             6.361997128 753.0584208 27.41333961
01 06 2018 13:10 918.4124146 7.069924831 1047.779431 28.42350006
01 06 2018 13:20 873.2589111 6.696818829 885.157311 30.00984001
01 06 2018 13:30 1150.123047 7.516087055 1266.264743 27.2643795
01 06 2018 13:40 1337.993042 7.772573948 1402.573917 29.87487984
01 06 2018 13:50
                 1699.921021 8.45941925 1803.029041 28.70381927
01 06 2018 14:00
                 1986.666992 9.372479439 2386.337931 30.21808052
01 06 2018 14:10
                 2244.668945 9.886717796 2719.6307
                                                     29.64105988
01 06 2018 14:20
                 2163.850098 9.588616371 2508.609137 29.87150955
01 06 2018 14:30
                 2214.022949 9.684782028 2580.006797 29.20280075
                 1889.963989 9.33298111 2360.474962 32.69606018
01 06 2018 14:40
                 1724.46106 8.679057121 1939.504112 34.92430115
01 06 2018 14:50
                 2050.893066 9.243180275 2301.789346 32.78718948
01 06 2018 15:00
                 2303.14209 9.890705109 2722.251472 33.43999863
01 06 2018 15:10
01 06 2018 15:20 2579.278076 10.49775028 3064.714657 35.41389084
01 06 2018 15:30 2554.301025 10.54160976 3085.396936 36.66353989
01 06 2018 15:40 2543.147949 10.61688042 3119.711459 39.87054825
01 06 2018 15:50 2349.173096 10.02830982 2809.579006 41.83993149
01 06 2018 16:00 1986.738037 9.205444336 2277.184722 47.79626846
01 06 2018 16:10 2273.230957 9.691358566 2584.771526 49.75743103
01 06 2018 16:20 2140.239014 9.480252266 2457.022832 51.28527069
01 06 2018 16:30 1679.478027 8.621235847 1903.265132 51.35569
01 06 2018 16:40 2348.302002 10.16069984 2888.040395 52.10131073
                 2713.316895 11.22939014 3347.559684 54.83684921
01 06 2018 16:50
01 06 2018 17:00 2995.727051 11.77766991 3483.06354 58.13763046
01 06 2018 17:10
                 2968.197998 11.65594006 3458.003293 65.39112854
01 06 2018 17:20
                 3299.593018 12.11013031 3538.046463 64.34043121
01 06 2018 17:30
                 3591.216064 12.78635025 3594.375814 64.66902161
01 06 2018 17:40
                 3603.829102 13.46350956 3600 60.24172974
01 06 2018 17:50
                 3604.136963 13.76928997 3600
                                               59.28715134
01 06 2018 18:00
                 3585.928955 14.15983009 3600
                                               61.66131973
01 06 2018 18:10
                 3573.334961 13.06552029 3600 59.83388901
01 06 2018 18:20 3432.999023 12.1400404 3542.066859 56.19240952
01 06 2018 18:30 3582.416992 12.60198975 3585.965686 52.73464966
01 06 2018 18:40 3594.936035 13.56050014 3600 53.05596924
```

```
01 06 2018 18:50 3595.936035 13.96778965 3600 56.96694946
01 06 2018 19:00 3601.444092 14.10713005 3600 59.23440933
                 3583.695068 13.64402962 3600
01 06 2018 19:10
                                               58.97914124
01 06 2018 19:20
                 3581.475098 13.50986004 3600 59.73464966
01 06 2018 19:30
                 3400.662109 12.39778996 3570.687379 58.65850067
01 06 2018 19:40
                 3494.306885 12.87646961 3596.677318 61.34212875
01 06 2018 19:50
                 3583.037109 13.56303978 3600 66.9684906
                 3597.891113 13.63311958 3600 68.16309357
01 06 2018 20:00
01 06 2018 20:10
                 3592.145996 13.63512039 3600
                                              68.69197845
01 06 2018 20:20
                 3582.039063 13.31719971 3600 71.19803619
01 06 2018 20:30
                 3561.738037 12.56824017 3583.878564 67.61424255
01 06 2018 20:40
                 3573.36499 12.68990993 3590.602778 70.27575684
01 06 2018 20:50 3573.748047 12.37010956 3568.121203 68.79377747
01 06 2018 21:00 3589.488037 13.0044899 3600 67.52217102
01 06 2018 21:10 3453.708984 12.32036018 3563.206175 68.03730774
01 06 2018 21:20 3081.50293 11.45522022 3410.55623 67.90458679
01 06 2018 21:30 2174.718018 9.843317032 2690.768899 60.8848381
01 06 2018 21:40 1374.777954 7.996407032 1527.939822 54.20471954
01 06 2018 21:50 1655.358032 8.657209396 1925.786781 52.70674133
01 06 2018 22:00
                 1782.964966 8.991642952 2138.604833 54.08253098
01 06 2018 22:10
                 1608.954956 8.499015808 1827.386722 56.13869858
                 1687.687012 8.916044235 2090.015117 55.40124893
01 06 2018 22:20
01 06 2018 22:30
                 1938.930054 9.342267036 2366.552785 54.82091904
01 06 2018 22:40
                 1860.156006 8.981337547 2131.966965 55.37643051
01 06 2018 22:50
                 1660.678955 8.781117439 2003.955777 59.37670898
01 06 2018 23:00 1633.871948 8.739694595 1977.725343 59.89474106
01 06 2018 23:10
                 1537.501953 8.504908562 1831.021384 59.31830978
01 06 2018 23:20
                 1342.156982 8.10656929 1591.602351 57.61774826
01 06 2018 23:30
                 1361.95105 8.110383034 1593.827919 55.75600052
01 06 2018 23:40
                 1008.778015 7.490429878 1253.016546 53.72885895
01 06 2018 23:50
                 1073.991943 7.856517792 1448.932197 49.72647095
02 06 2018 00:00
                 1143.284058 7.824956894 1431.406984 48.86283112
02 06 2018 00:10 910.119812 7.160883904 1090.088344 47.32686996
02 06 2018 00:20 947.4046021 7.212182999 1114.438833 49.01060104
02 06 2018 00:30 1030.488037 7.394028187 1203.721786 46.30982971
                 1232.625977 7.945300102 1498.829581 44.10142899
02 06 2018 00:40
                 833.383606 6.813615799 934.2464081 41.5377388
02 06 2018 00:50
02 06 2018 01:00
                 886.4313965 7.115923882 1069.038608 40.59989929
02 06 2018 01:10 844.6552734 7.014188766 1022.388866 40.05012894
02 06 2018 01:20
                 595.6182861 6.325312138 739.3374394 42.99425125
02 06 2018 01:30 540.065918 6.149085999 675.4474771 42.74320984
02 06 2018 01:40 849.6262207 7.04805994 1037.771115 39.19105911
02 06 2018 01:50 749.8059082 6.850436211 950.0576392 40.6068306
02 06 2018 02:00
                 750.3007813 6.83830595 944.8307007 48.37873077
02 06 2018 02:10 950.8311768 7.393301964 1203.355728 46.02687073
02 06 2018 02:20
                 791.8466797 6.793958187 925.8716626 48.89667892
                 1007.481018 7.39264679 1203.025549 50.04919052
02 06 2018 02:30
                 763.6652222 6.648150921 865.1718632 52.91075897
02 06 2018 02:40
02 06 2018 02:50
                 999.8878784 7.363871098 1188.586302 55.05268097
02 06 2018 03:00
                 1032.371948 7.27721405 1145.828352 53.10507965
02 06 2018 03:10
                 926.3673706 7.141579151 1081.017007 49.69905853
02 06 2018 03:20
                 675.9691772 6.440138817 782.7736833 54.41704178
02 06 2018 03:30
                 723.7501221 6.634879112 859.7689968 57.71109009
02 06 2018 03:40
                 799.3471069 6.970785141 1002.891363 62.83337021
02 06 2018 03:50 692.4904175 6.693734169 883.8824862 69.64073181
02 06 2018 04:00 941.1345825 7.201927185 1109.541946 68.42768097
02 06 2018 04:10
                 1105.968018 7.497319221 1256.59361 66.21395874
02 06 2018 04:20 1064.27002 7.408409119 1210.986718 59.41503143
02 06 2018 04:30 778.9697876 6.757814884 910.5932791 54.70621109
```

```
02 06 2018 04:40 451.1618042 5.850114822 575.5844089 53.03200912
02 06 2018 04:50 435.5462952 5.787463188 555.6218132 59.68822861
02 06 2018 05:00 574.6444092 6.222577095 701.6858916 62.06212997
02 06 2018 05:10 631.3734741 6.450747013 786.8592644 59.56145096
02 06 2018 05:20 774.2410278 6.809644222 932.5506766 58.17276001
02 06 2018 05:30 654.7971802 6.433000088 780.0312756 59.20273972
02 06 2018 05:40 499.1695862 5.903991222 593.0746425 60.75962067
02 06 2018 05:50 473.5159912 5.836501122 571.2125178 59.79743958
02 06 2018 06:00 364.8409119 5.408127785 442.9553593 62.89400864
02 06 2018 06:10
                 177.3302002 4.26836586 174.5139475 55.80012894
02 06 2018 06:20 46.74333954 3.454575062 47.07748092 60.51914978
02 06 2018 06:30 92.82817841 3.826073885 97.02620939 61.76113129
02 06 2018 06:40
                400.6747131 5.701642036 528.9199357 67.28806305
02 06 2018 06:50
                 330.0559082 5.101774216 361.4013804 64.79589844
02 06 2018 07:00 350.4678955 5.289420128 410.4129185 64.45140839
02 06 2018 07:10 356.131012 5.45384407 455.8198004 66.4168396
02 06 2018 07:20 325.8912964 5.286105156 409.5216478 64.9696579
02 06 2018 07:30 250.1804047 4.803956985 289.2586335 62.39606094
02 06 2018 07:40 292.3352966 4.962975979 326.9558472 68.03193665
02 06 2018 07:50 440.6348877 5.721542835 535.0464308 72.80489349
02 06 2018 08:00 556.1934204 6.055358887 642.8223112 70.14103699
02 06 2018 08:10 693.6030273 6.525671959 816.069425 66.5373764
02 06 2018 08:20
                 737.0274048 6.653512001 867.3600388 58.84465027
02 06 2018 08:30
                 870.2241821 6.882824898 964.1013369 54.05633926
02 06 2018 08:40 769.0515747 6.504539967 807.7679058 61.14249039
02 06 2018 08:50 677.3466797 6.511561871 810.5208865 60.1940918
02 06 2018 09:00 968.2984009 7.203008175 1110.057411 58.56869888
02 06 2018 09:10 767.8167114 6.746018887 905.640282 55.5374794
02 06 2018 09:20 652.7141724 6.359416962 752.0886077 60.19668961
02 06 2018 09:30 832.6439819 6.728694916 898.3957476 57.44591141
02 06 2018 09:40
                 1406.697021 8.084898949 1578.983232 58.57965851
02 06 2018 09:50 1003.651978 7.01395607 1022.283697 59.173069
02 06 2018 10:00 1079.264038 7.077683926 1051.345974 53.28533936
02 06 2018 10:10 636.6160278 5.867510796 581.1987834 42.192379
02 06 2018 10:20 834.2432251 6.769929886 915.6972783 28.76593018
02 06 2018 10:30 918.6107178 6.743453979 904.565472 25.99928093
02 06 2018 10:40 947.5996704 6.906308174 974.3637376 28.49707031
                 968.3416748 6.944396973 991.1534494 29.18437958
02 06 2018 10:50
02 06 2018 11:00 1222.22998 7.509490967 1262.871755 32.22233963
02 06 2018 11:10
                 1391.17395 7.914344788 1481.333589 30.50015068
02 06 2018 11:20
                 1571.588013 8.181035995 1635.309785 33.36798096
02 06 2018 11:30 1327.348999 7.755919933 1393.474789 32.84812164
02 06 2018 11:40 886.0244751 6.757442951 910.436859 30.9431591
02 06 2018 11:50
                 1088.097046 7.130852222 1075.997966 37.62417984
02 06 2018 12:00
                 772.1489868 6.477974892 797.4024078 39.09341812
02 06 2018 12:10
                 790.1403198 6.48780489 801.2288869 35.19057083
                 1261.875977 7.657431126 1340.352372 35.54386902
02 06 2018 12:20
02 06 2018 12:30
                 882.512207 6.831042767 941.7094813 36.76428986
02 06 2018 12:40
                 916.9802856 6.875153065 960.7633031 34.91580963
02 06 2018 12:50
                 665.3181763 6.296255112 728.5728988 39.49966049
02 06 2018 13:00
                 556.2196045 5.77922821 553.0276223 39.10951996
02 06 2018 13:10 853.3323975 6.818696976 936.4186538 33.45732117
02 06 2018 13:20
                 632.9235229 6.226561069 703.1248228 37.54983139
02 06 2018 13:30
                 742.6644897 6.459300041 790.1623486 38.47579956
02 06 2018 13:40 491.1799927 5.692790985 526.207667 41.27178955
02 06 2018 13:50 695.5377197 6.366888046 754.8987681 41.1938591
02 06 2018 14:00 960.9058228 7.022966862 1026.361221 40.42860031
02 06 2018 14:10 1401.021973 8.085000038 1579.041992 39.39151001
02 06 2018 14:20 1253.144043 7.64741087 1335.015127 40.73043823
```

```
02 06 2018 14:30 1305.225952 7.79502821 1414.894083 40.31143188
02 06 2018 14:40 1364.489014 7.772921085 1402.763931 39.72401047
02 06 2018 14:50
                 1243.328979 7.597187042 1308.4564
                                                    40.74580002
02 06 2018 15:00 1150.41394 7.347345829 1180.348964 38.96216965
02 06 2018 15:10 1426.415039 7.963508129 1509.169023 40.37994003
02 06 2018 15:20
                 1466.787964 8.035161018 1550.19584 39.65132141
02 06 2018 15:30
                 1372.207031 7.793708801 1414.168513 41.70373154
                 1128.890015 7.350832939 1182.083871 43.6542511
02 06 2018 15:40
02 06 2018 15:50
                 776.4636841 6.576498985 836.2407399 53.20080185
                 861.1245728 6.94858408 993.0101346 53.49332047
02 06 2018 16:00
02 06 2018 16:10
                 928.2695923 6.942019939 990.1003761 52.16439056
02 06 2018 16:20
                 1135.805054 7.550327778 1283.971915 52.65073013
02 06 2018 16:30
                 1136.328003 7.425174236 1219.494997 54.55202866
02 06 2018 16:40 1580.855957 8.537334442 1851.065912 55.52825928
02 06 2018 16:50 1366.189941 8.070013046 1570.341621 55.79423141
02 06 2018 17:00 1389.156982 7.993185043 1526.096464 57.23711014
02 06 2018 17:10 1451.775024 8.176291466 1632.50947 58.47814178
02 06 2018 17:20 1558.01001 8.525092125 1843.489428 64.02010345
02 06 2018 17:30 1806.240967 8.826478958 2032.786468 63.47943878
02 06 2018 17:40 2054.490967 9.395377159 2401.342847 61.4707489
02 06 2018 17:50
                 2035.83606 9.330821037 2359.061381 64.4980011
                 2343.72998 10.06309032 2830.710011 66.42163849
02 06 2018 18:00
02 06 2018 18:10
                 2248.812012 10.06427956 2831.425937 69.0704422
02 06 2018 18:20
                 2185.268066 9.97014904 2773.401399 70.3379364
02 06 2018 18:30 2154.686035 9.788619995 2653.510475 71.51599121
02 06 2018 18:40 2382.985107 10.20034981 2910.512738 73.36820221
02 06 2018 18:50 2376.135986 10.38735962 3010.363313 75.59989166
02 06 2018 19:00 2250.001953 10.56462955 3096.048395 76.81175232
02 06 2018 19:10 1933.427979 9.737261772 2617.614372 72.18473816
02 06 2018 19:20
                 1403.860962 8.339651108 1730.082344 69.22741699
02 06 2018 19:30
                 1370.635986 8.175195694 1631.86302 65.76747894
02 06 2018 19:40
                 1262.317993 7.938138008 1494.772325 67.41667938
02 06 2018 19:50
                 1061.031006 7.709866047 1368.486311 73.09332275
02 06 2018 20:00
                 1018.307007 7.309196949 1161.483877 64.25218201
02 06 2018 20:10 863.382019 7.08865881 1056.404115 68.94685364
                 727.6427002 6.810453892 932.8962256 70.74240112
02 06 2018 20:20
                 541.0056152 6.091423988 655.2649937 67.24961853
02 06 2018 20:30
02 06 2018 20:40
                 350.0939941 5.512776852 472.6829095 58.55981064
02 06 2018 20:50
                 278.5715942 4.995449066 334.8823732 58.24058914
02 06 2018 21:00 223.358902 4.851118088 300.2489747 76.64691162
02 06 2018 21:10 188.7850037 4.57882309 238.8728908 77.65190125
02 06 2018 21:20 251.9450989 4.944876194 322.5720881 79.62386322
02 06 2018 21:30
                 331.1011047 4.867725849 304.1567681 84.53012085
02 06 2018 21:40
                 270.6343994 4.925376892 317.8765751 84.09996796
02 06 2018 21:50
                 146.4846039 4.277263165 176.2832731 89.60125732
02 06 2018 22:00
                 73.68048096 3.6699121 73.33976492 98.36125183
02 06 2018 22:10
                 7.706861973 2.877403975 0
                                               104.2914963
02 06 2018 22:20
                 1.495599031 2.550158978 0
                                               107.0128021
02 06 2018 22:30 0
                       3.20974493 26.23127263 96.66752625
02 06 2018 22:40
                 130.4002991 4.490668774 220.0272026 80.69090271
02 06 2018 22:50
                 361.2446899 5.736802101 539.770591 75.40923309
02 06 2018 23:00
                 362.3532104 5.669534206 519.1175808 73.86820221
02 06 2018 23:10
                 458.9446106 5.967444897 614.0649931 69.88990021
02 06 2018 23:20
                 387.8211975 5.791964054 557.0425799 64.99035645
02 06 2018 23:30 492.5921936 6.17242384 683.7170891 57.88211823
02 06 2018 23:40 509.9985962 6.201908112 694.248
                                                     58.02645111
02 06 2018 23:50 298.4241028 5.415585995 445.0412925 61.70421982
03 06 2018 00:00 333.9285889 5.577147007 491.4688422 72.84269714
03 06 2018 00:10 390.7457886 5.686227798 524.2014464 76.28957367
```

```
03 06 2018 00:20 573.3148193 6.373913765 757.5469482 74.21478271
                 600.4041748 6.278975964 722.2148427 71.40180206
03 06 2018 00:30
03 06 2018 00:40
                 721,1900024 6,662881851 871,1923459 74,00067902
03 06 2018 00:50
                 1067.911987 7.558391094 1288.164502 73.7693634
03 06 2018 01:00
                 1036.850952 7.440217018 1227.165082 69.50769043
03 06 2018 01:10
                  910.1525879 7.084949017 1054.69257 71.31944275
03 06 2018 01:20
                 965.5665894 7.285401821 1149.822424 69.69857788
                 1422.474976 8.14743042 1615.52032 69.15248871
03 06 2018 01:30
                 1815.250977 8.89575386 2077.016838 69.5100708
03 06 2018 01:40
                 1624.386963 8.465830803 1806.965253 70.57237244
03 06 2018 01:50
03 06 2018 02:00
                 1763.64502 8.769123077 1996.350783 72.52335358
03 06 2018 02:10
                 1582.953003 8.522630692 1841.967374 73.04548645
03 06 2018 02:20
                 1698.588013 8.86283493 2055.969653 78.06037903
03 06 2018 02:30
                 1674.296021 8.644370079 1917.739227 76.66710663
                 1680.079956 8.722852707 1967.087997 73.78603363
03 06 2018 02:40
03 06 2018 02:50
                 1584.327026 8.597196579 1888.261232 72.56730652
03 06 2018 03:00
                 1467.600952 8.254999161 1679.229012 73.42183685
03 06 2018 03:10
                 1436.156982 8.410590172 1773.153482 75.68441772
03 06 2018 03:20
                 1370.198975 8.496508598 1825.841029 78.35958099
                 1198.44397 8.168418884 1627.867524 76.46694946
03 06 2018 03:30
                 910.6309204 7.371728897 1192.517161 73.56680298
03 06 2018 03:40
                 1022.192017 7.61528492 1317.989385 75.2673111
03 06 2018 03:50
03 06 2018 04:00
                  691.5006714 6.612839222 850.8410865 78.16467285
03 06 2018 04:10
                 664.4641113 6.384509087 761.5507704 76.27677155
03 06 2018 04:20
                 916.5012207 7.093083858 1058.448009 70.26806641
03 06 2018 04:30
                 865.7382813 7.035645008 1032.115889 73.77458191
03 06 2018 04:40
                 511.4552917 5.819127083 565.6606895 75.35962677
03 06 2018 04:50
                 372.1756897 5.075529099 354.7736711 78.56493378
                 332.8089905 4.885745049 308.4190664 76.13204193
03 06 2018 05:00
03 06 2018 05:10 411.1134949 5.659848213 516.1802656 73.38864136
03 06 2018 05:20
                 350.1705017 5.197928905 386.1542315 72.98931122
03 06 2018 05:30
                 448.2470093 5.789629936 556.305524 72.04141235
03 06 2018 05:40
                 459.2651978 5.926746845 600.5531432 70.5358963
03 06 2018 05:50
                 203.6334076 4.666419029 258.0804361 72.45823669
                 147.7891998 4.133017063 148.0985568 75.60987091
03 06 2018 06:00
                  111.0302963 4.029111862 128.4238596 66.77870178
03 06 2018 06:10
                 78.30789185 3.751498938 85.22801826 77.43541718
03 06 2018 06:20
03 06 2018 06:30
                 75.29276276 3.670676947 73.44626763 83.25692749
03 06 2018 06:40
                 22.34630013 3.100090027 20.00432194 77.45584869
03 06 2018 06:50
                 24.28255081 3.210889101 26.30638827 84.75247192
                41.48529053 3.60435009 64.55832539 79.03862762
03 06 2018 07:00
03 06 2018 07:10 92.88790131 3.843983889 99.99218878 73.03914642
03 06 2018 07:20
                 114.0631027 4.052837849 132.8723992 73.77675629
03 06 2018 07:30
                 125.8206024 4.055333138 133.3417445 75.31622314
03 06 2018 07:40
                 121.3114014 4.17863512 156.8989027 72.32894135
03 06 2018 07:50
                 116.6218033 3.946623087 117.9795603 73.68778229
03 06 2018 08:00
                 176.462204 4.437059879 208.7949193 68.00183105
                 158.5211945 4.27764082 176.3584663 68.02941895
03 06 2018 08:10
03 06 2018 08:20
                 250.8717041 4.707456112 267.2499263 71.40850067
03 06 2018 08:30
                  218.580307 4.718531132 269.7437112 69.88877869
03 06 2018 08:40
                  173.2366028 4.335886002 188.0467512 69.04859924
03 06 2018 08:50
                  35.75967026 3.082334995 19.17704396 72.45165253
03 06 2018 09:00
                  41.6680603 3.506795883 52.76483364 80.42556763
03 06 2018 09:10
                 20.17272949 3.191540956 25.06434565 75.73671722
03 06 2018 09:20
                        2.808794975 0
                                          65.89335632
                 0
03 06 2018 09:30
                 0
                        2.404994011 0
                                          64.18978882
03 06 2018 09:40
                 0
                       2.665676117 0
                                          54.21551895
03 06 2018 09:50 0
                    2.806524038 0
2.637052059 0
                        2.806524038 0
                                          61.41756821
03 06 2018 10:00 0
                                          59.10963058
```

```
3.008213997 16.26824548 59.42551041
03 06 2018 10:10 0
03 06 2018 10:20 1.045133948 3.233308077 27.82047116 61.20249939
03 06 2018 10:30
                 5.634004116 3.034420013 17.19621942 48.63830185
03 06 2018 10:40 45.6329689 3.39596796 41.21422478 44.60229111
03 06 2018 10:50
                 40.16653824 3.395844936 41.20249506 50.00582886
03 06 2018 11:00
                 56.0707016 3.346111059 36.65898312 31.38834
03 06 2018 11:10
                 163.9346008 4.080016136 137.9998652 33.98733139
                 236.2386932 4.583551884 239.897351 37.73756027
03 06 2018 11:20
                 147.6544037 4.060747147 134.3610601 34.50561142
03 06 2018 11:30
                 154.0225983 4.152229786 151.7925371 35.45727921
03 06 2018 11:40
03 06 2018 11:50
                 180.7669067 4.250506878 170.9750367 28.41649055
03 06 2018 12:00
                 238.5834045 4.636638165 251.4950944 32.29587936
03 06 2018 12:10
                 367.703186 5.314665794 417.2313476 31.79257965
03 06 2018 12:20
                 263.1668091 4.854137897 300.9580678 34.67367935
03 06 2018 12:30
                 225.1506958 4.680160046 261.1384231 29.78784943
03 06 2018 12:40 256.1156921 4.653326988 255.1783508 32.80915833
03 06 2018 12:50
                 198,2041016 4,297028065 180,2287471 28,57061005
03 06 2018 13:00
                 164.1242065 4.232748985 167.4726078 31.15203094
03 06 2018 13:10 167.8596039 4.242042065 169.3034677 33.75481033
                 166.7333069 4.277892113 176.4085044 36.68001175
03 06 2018 13:20
                 70.65274048 3.621212006 66.75113265 43.32244873
03 06 2018 13:30
                 42.48199081 3.359592915 37.8515384 36.92016983
03 06 2018 13:40
03 06 2018 13:50
                 65.05513
                             3.714485884 79.70275452 49.93070984
03 06 2018 14:00
                 56.73548126 3.641052961 69.3896067 36.36859131
03 06 2018 14:10
                 78.25997162 3.659403086 71.8858931 29.26618004
03 06 2018 14:20
                 160.5101013 4.216421127 164.2665487 32.14994049
03 06 2018 14:30
                 229.622406 4.678197861 260.7009917 23.5967598
03 06 2018 14:40
                 136.2901001 4.241590023 169.2143063 29.92951965
                 140.4530945 4.308952808 182.619261 42.12969971
03 06 2018 14:50
03 06 2018 15:00
                 233.7624969 4.777813911 283.2333251 47.42985916
03 06 2018 15:10
                 168.9938965 4.357303143 192.3909808 41.39612961
03 06 2018 15:20 228.4739075 4.782413006 284.2898692 40.9681015
03 06 2018 15:30 277.7443848 5.06060791 351.0297278 40.17967987
03 06 2018 15:40 377.7723999 5.590447903 495.3991234 39.79325867
                 394.5990906 5.780889988 553.5505653 43.56716919
03 06 2018 15:50
03 06 2018 16:00
                 486.2493896 6.000460148 624.1487551 47.67840958
03 06 2018 16:10
                 530.5247192 6.100089073 658.275206 44.88367844
03 06 2018 16:20
                 500.0158081 6.106179237 660.3957027 40.77478027
03 06 2018 16:30
                430.9240112 5.803984165 560.8469813 40.41139984
                437.7098999 5.899252892 591.5242656 50.9953804
03 06 2018 16:40
03 06 2018 16:50 401.3010864 5.743896961 541.9749991 53.59619904
03 06 2018 17:00 361.7123108 5.615653038 502.8931005 57.94586182
03 06 2018 17:10 349.9328003 5.52748394 476.9410031 43.75876999
03 06 2018 17:20
                 384.5999146 5.594626904 496.6374387 36.70935059
03 06 2018 17:30 434.4148865 6.163070202 680.3956917 39.8932991
03 06 2018 17:40
                 355.0040894 5.646860123 512.2558715 45.72750092
03 06 2018 17:50
                 403.2199097 5.76094389 547.2921232 48.79713821
                 393.1207886 5.712259769 532.1837549 44.20505142
03 06 2018 18:00
03 06 2018 18:10
                 210.6988983 4.719758034 270.02048
                                                    42.06491089
03 06 2018 18:20
                 330.8521118 5.606976032 500.3064212 44.82936096
03 06 2018 18:30
                 302.594696 5.434052944 450.2275857 44.81230927
03 06 2018 18:40
                 275.10849
                             5.434082985 450.2360473 36.74831009
03 06 2018 18:50
                 125.2636032 4.475633144 216.8597956 30.79870033
03 06 2018 19:00
                 156.9776001 4.644081116 253.1355446 37.15182877
03 06 2018 19:10
                 258.7726135 5.271438122 405.5894503 33.38573074
03 06 2018 19:20
                 204.493103 5.012168884 338.9947277 35.21630859
03 06 2018 19:30
                 141.1678009 4.582001209 239.5612539 39.46923828
03 06 2018 19:40 84.87164307 4.161100864 153.5042303 32.51160049
03 06 2018 19:50 52.64611816 3.931833982 115.2838531 35.55553055
```

```
03 06 2018 20:00 15.33498955 3.293859959 32.3118127 39.42657089
03 06 2018 20:10 0
                       3.628976107 67.77611083 37.62306976
03 06 2018 20:20 94.81601715 4.45872879 213.314705 21.96145058
03 06 2018 20:30 1.169535995 3.380970955 39.80218003 32.0067215
03 06 2018 20:40 78.55444336 4.297293186 180.2818122 6.718873978
03 06 2018 20:50 83.09929657 4.309601784 182.7495783 3.954555988
03 06 2018 21:00 85.33026886 4.324266911 185.7004752 359.2860107
03 06 2018 21:10 83.10851288 4.170658112 155.3526506 5.866734982
03 06 2018 21:20
                 139.7660065 4.433471203 208.049016 1.242138028
03 06 2018 21:30
                 64.66809082 3.962493896 120.9113647 3.189106941
03 06 2018 21:40
                 35.91638947 3.572932005 60.59391074 358.2013855
03 06 2018 21:50
                 38.89870834 3.570173979 60.25343661 357.5675964
03 06 2018 22:00 2.70034194 2.454335928 0
                                               30.68796921
03 06 2018 22:10 0
                       2.471724033 0
                                         42.89318085
03 06 2018 22:20 0
                       3.371314049 38.91197939 28.31299019
03 06 2018 22:30 30.12953949 3.799938917 92.79022704 27.98303986
03 06 2018 22:40
                 1.195538044 3.504252911 52.47777297 47.57683182
03 06 2018 22:50 39.34307861 3.808578014 94.17836889 27.57962036
03 06 2018 23:00 101.3507004 4.459694862 213.5168512 20.9006691
                 114.8964996 4.417994976 204.8408143 10.80321026
03 06 2018 23:10
03 06 2018 23:20 57.64778137 3.9068501 110.8093714 15.24668026
03 06 2018 23:30 87.96479797 4.227838993 166.5070697 9.516225815
03 06 2018 23:40
                 159.4075928 4.624475002 248.8219642 7.074478149
03 06 2018 23:50
                 211.8240051 4.82359314 293.8155728 12.96562958
04 06 2018 00:00 259.1065979 5.202411175 387.3264399 7.48363781
04 06 2018 00:10 138.9248962 4.375370979 196.0756021 15.61161995
04 06 2018 00:20 125.8711014 4.470260143 215.7311714 17.07736015
04 06 2018 00:30 204.0552979 4.896257877 310.9166305 16.87800026
04 06 2018 00:40 55.78448105 3.892098904 108.2144012 21.72863007
04 06 2018 00:50
                 142.6488037 4.615983009 246.9612715 18.47043991
04 06 2018 01:00 61.00989151 4.141388893 149.7059836 7.249094963
04 06 2018 01:10
                 78.56777191 4.116518974 144.9407361 17.20031929
04 06 2018 01:20
                 89.77324677 4.307123184 182.251986 6.342503071
04 06 2018 01:30
                 98.38226318 4.329648972 186.7863743 2.572856903
                 68.08096313 3.658318043 71.736789
04 06 2018 01:40
                                                     343.743103
                       3.017446995 16.58265564 347.2735901
04 06 2018 01:50
                 0
04 06 2018 02:00 0
                       3.307802916 33.42910409 348.6022949
04 06 2018 02:10 31.23605919 4.022210121 127.1345752 350.158905
04 06 2018 02:20 123.2030029 4.455572128 212.6545694 347.236908
04 06 2018 02:30 125.3830032 4.364067078 193.7682384 353.3720093
04 06 2018 02:40 121.6076965 4.333943844 187.6540526 345.5740967
04 06 2018 02:50 49.80347061 3.609551907 65.22994316 346.476593
04 06 2018 03:00 21.70743942 3.397445917 41.35532991 343.4361877
04 06 2018 03:10
                 19.62195015 3.632340908 68.22331098 355.7467957
04 06 2018 03:20 67.87743378 3.879889011 106.0928222 357.8106079
04 06 2018 03:30 7.134681225 3.124778986 21.23851118 357.5769958
04 06 2018 03:40 0
                       2.729234934 0
                                         1.373832941
04 06 2018 03:50 0
                       2.99623704 0
                                         7.549863815
04 06 2018 04:00 0
                       2.906836033 0
                                         14.83036995
04 06 2018 04:10 17.75439072 3.829014063 97.50959533 8.347730637
04 06 2018 04:20 0.995664716 2.963479996 0
                                               7.616117001
04 06 2018 04:30 0
                       2.538090944 0
                                         17.1191597
04 06 2018 04:40
                       2.932934999 0
                                         357.1589966
04 06 2018 04:50 75.62252808 4.096274853 141.0836409 353.4299927
04 06 2018 05:00 137.1499939 4.492109776 220.3314712 352.2297058
04 06 2018 05:10 47.5171814 3.864375114 103.4315507 358.9067993
04 06 2018 05:20 58.68788147 3.96826601 121.9876377 357.0495911
04 06 2018 05:30 35.62985992 3.673177004 73.79504641 354.1742859
04 06 2018 05:40 13.55132961 3.242671013 28.47661005 354.754303
```

```
77.96546173 3.788120031 90.91049571 355.0101929
04 06 2018 05:50
                  7.812116146 2.589247942 0
04 06 2018 06:00
                                               353.9677124
04 06 2018 06:10
                         2.131942034 0
                                           355.8226013
                  0
04 06 2018 06:20
                  0
                         1.590245008 0
                                           346.7632141
04 06 2018 06:30
                  0
                         2.361886978 0
                                           336.740387
04 06 2018 06:40
                         2.028333902 0
                                           340.2229004
04 06 2018 13:10
                  0
                         1.113368988 0
                                           0
04 06 2018 13:20
                  0
                         1.036610007 0
                                           127.927002
04 06 2018 13:30
                  0
                         0.586755276 0
                                           65.04828644
04 06 2018 13:40
                  0
                        1.190104961 0
                                           5.406956196
04 06 2018 13:50
                  0
                         1.179039001 0
                                           336.8140869
04 06 2018 14:00
                  0
                         1.423382998 0
                                           272.0180969
04 06 2018 14:10
                         1.182616949 0
                                           264.8634949
04 06 2018 14:20
                  0
                         1.55290997
                                           300.9112854
04 06 2018 14:30
                         1.299882054 0
                                           289.8902893
                  0
04 06 2018 14:40
                  0
                         1.159572005 0
                                           300.424408
04 06 2018 14:50
                  0
                        1.118366957 0
                                           292,6524963
04 06 2018 15:00
                  0
                        0.75080651 0
                                           310.7395935
                  0
04 06 2018 15:10
                        0.816102505 0
                                           257.7283936
04 06 2018 15:20
                  0
                        0.817260206 0
                                           222.7151947
                                           150.9871979
04 06 2018 15:30
                        0.32323879
                  0
04 06 2018 15:40
                                           271.0158997
                  0
                        0.458092093 0
04 06 2018 15:50
                         1.291337967 0
                                           303.4581909
04 06 2018 16:00
                  0
                         1.471243978 0
                                           319.7060852
04 06 2018 16:10
                        0.549327374 0
                                           195.0254059
04 06 2018 16:20
                         1.378186941 0
                                           170.5097961
04 06 2018 16:30
                         2.029648066 0
                                           149.0619965
04 06 2018 16:40
                         1.758455038 0
                                           174.4087982
                  0
04 06 2018 16:50
                  0
                         0.785024822 0
                                           187.5359955
04 06 2018 17:00
                  0
                         1.302168012 0
                                           316.6751099
04 06 2018 17:10
                  0
                         2.2464571
                                     0
                                           345.8198853
04 06 2018 17:20
                  0
                         2.50719595
                                     0
                                           352.7484131
04 06 2018 17:30
                                           22.39929962
                         2.856158018 0
04 06 2018 17:40
                        2.036689997 0
                                           43,45856857
                  0
04 06 2018 17:50
                                           75.01431274
                  0
                        1.707744002 0
04 06 2018 18:00
                  0
                         1.490926027 0
                                           126.4003983
04 06 2018 18:10
                  0
                        0.460307091 0
                                           318.1940002
04 06 2018 18:20
                        0.951291323 0
                                           310.3760986
04 06 2018 18:30
                        0.95125258
                                           226.9396057
04 06 2018 18:40
                        1.683326006 0
                                           196.1448059
04 06 2018 18:50
                         1.716493964 0
                                           243.9559021
                  0
04 06 2018 19:00
                  0
                         2.461849928 0
                                           245.9694061
04 06 2018 19:10
                                           249.4772949
                  0
                         2.908735037 0
04 06 2018 19:20
                  0
                         3.247355938 28.81018682 214.638504
04 06 2018 19:30
                  0
                         2.415416956 0
                                           206.1053925
04 06 2018 19:40
                  0
                         2.535489082 0
                                           249.7077942
04 06 2018 19:50
                  0
                         3.488650084 50.739115
                                                 280,4031067
04 06 2018 20:00
                  11.57040024 3.417082071 43.26322262 256.7105103
                  105.139801 4.259230137 172.7015415 246.3753052
04 06 2018 20:10
04 06 2018 20:20
                  52.33459091 3.837058067 98.8391548 249.0540009
04 06 2018 20:30
                  58.73791122 3.836338997 98.71988132 256.4802856
04 06 2018 20:40
                  16.47577095 3.316365004 34.13062535 261.3439941
04 06 2018 20:50
                         2.882962942 0
                                           260.4328003
04 06 2018 21:00
                  25.3069706 3.961749077 120.7728734 266.6936951
04 06 2018 21:10
                  52.27545929 3.913966894 112.0737793 258.2066956
04 06 2018 21:20
                  89.57183075 4.150893211 151.5349761 256.4176941
04 06 2018 21:30
                  147.3771057 4.456833839 212.9183541 265.8149109
04 06 2018 21:40
                  181.5802002 4.619383812 247.7058736 266.9431152
04 06 2018 21:50
                  203.0442047 4.722047806 270.5372847 268.7269897
```

```
04 06 2018 22:00 196.2644043 4.65856123 256.3372753 267.190094
04 06 2018 22:10 179.3070068 4.582355022 239.637927 272.7652893
04 06 2018 22:20 204.766098 4.684998989 262.2182553 275.6377869
04 06 2018 22:30 173.7976074 4.545551777 231.7042254 280.6603088
04 06 2018 22:40 185.4524994 4.656082153 255.7881558 279.9910889
04 06 2018 22:50 126.3612976 4.218958855 164.76395
                                                    279.4331055
04 06 2018 23:00 134.5543976 4.240191936 168.9386125 286.1095886
04 06 2018 23:10 60.71863174 3.681488037 74.96169277 291.2302856
04 06 2018 23:20 8.912394524 3.119827032 20.98314644 281.9946899
                       3.309566021 33.57260238 285.5083008
04 06 2018 23:30 0
04 06 2018 23:40
                 14.38661003 3.728246927 81.73138864 266.8627014
04 06 2018 23:50 116.3383026 4.252968788 171.4618954 252.3354034
05 06 2018 00:00 136.142395 4.535761833 229.607883 236.5281982
05 06 2018 00:10 94.7248764 4.062648773 134.7194057 229.879303
05 06 2018 00:20 82.78807068 3.897243023 109.1153801 236.3721924
05 06 2018 00:30 148.1246033 4.534516811 229.3417044 220.7595062
05 06 2018 00:40 287.1281128 5.196371078 385.7472142 217.9244995
05 06 2018 00:50 276.4361877 5.057882786 350.3478316 221.7481995
05 06 2018 01:00 373.5194092 5.478068829 462.7130774 216.4187927
05 06 2018 01:10 370.9429932 5.566511154 488.3380837 215.8883057
05 06 2018 01:20 354.3140869 5.394824982 439.247084 217.0097046
05 06 2018 01:30 385.2893066 5.579957962 492.2980559 217.3903961
05 06 2018 01:40 425.3912048 5.768721104 549.7275993 210.8204041
05 06 2018 01:50 399.125885 5.414908886 444.851712 209.7075043
05 06 2018 02:00 277.4342041 4.942433834 321.9824162 216.3728027
05 06 2018 02:10 269.0678101 5.038435936 345.4984756 229.0908966
05 06 2018 02:20 247.072403 4.852628231 300.603496 242.4676971
05 06 2018 02:30 234.3296051 4.894196987 310.4263869 251.6147003
05 06 2018 02:40 119.9707031 4.118649006 145.3477019 276.0979004
05 06 2018 02:50 135.9893036 4.400189877 201.166833 260.8200989
05 06 2018 03:00 119.8283005 3.996121883 127.2566048 248.219101
05 06 2018 03:10 161.7778931 4.438118935 209.0151857 267.2921143
05 06 2018 03:20 137.0686951 4.344397068 189.7701022 281.732605
05 06 2018 03:30 124.8753967 4.304645061 181.75482
                                                     275,2781067
05 06 2018 03:40 91.6476593 4.124976158 146.5578535 276.4798889
                 111.8314972 4.210148811 163.0385643 267.7726135
05 06 2018 03:50
05 06 2018 04:00
                 115.4773026 4.213203907 163.6364365 273.2149963
05 06 2018 04:10
                 71.11036682 3.989582062 126.0084385 269.6469116
05 06 2018 04:20 52.45862961 3.873797894 105.0433533 260.6589966
05 06 2018 04:30 120.6088028 4.33501482 187.8705753 244.8354034
05 06 2018 04:40 245.9286041 5.199400902 386.5390071 239.2505035
05 06 2018 04:50 79.28115082 4.052690029 132.8446044 247.8910065
05 06 2018 05:00 176.2398071 4.594221115 242.2139188 228.436203
05 06 2018 05:10 274.1471863 5.160241127 376.3632251 223.2505951
05 06 2018 05:20
                 167.6768036 4.449601173 211.4074914 222.6466064
05 06 2018 05:30
                 104.6285019 4.066232204 135.3951256 233.7185059
05 06 2018 05:40 42.75334167 3.391334057 40.77407734 247.4225006
05 06 2018 05:50 41.19697189 3.066034079 18.46193048 227.2044067
05 06 2018 06:00 384.8421021 5.52842617 477.2144875 227.1217041
05 06 2018 06:10
                 375.7036133 5.531721115 478.1715014 235.6161041
05 06 2018 06:20
                 150.8610992 4.208028793 162.623962 226.100296
05 06 2018 06:30 98.51875305 4.018003941 126.3498819 229.1448975
05 06 2018 06:40
                 19.1370697 3.223412037 27.14222024 224.0794983
05 06 2018 06:50 0
                       2.354008913 0
                                         231.4680023
05 06 2018 07:00
                       2.124798059 0
                                         229.5749969
                 0
05 06 2018 07:10
                 0
                       2.448563099 0
                                         236.0243988
05 06 2018 07:20 0
                       1.73577404 0
                                         230.3480072
05 06 2018 07:30 0
                       2.77147603 0
                                         228.4156036
05 06 2018 07:40 35.5826683 3.517328978 53.96486897 223.2140961
```

```
05 06 2018 07:50 80.4958725 3.839869022 99.30620669 223.7911072
                  9.162522316 3.136620045 21.86504436 215.9496002
05 06 2018 08:00
05 06 2018 08:10
                  108.6560974 4.09312582 140.4853993 220.0921021
05 06 2018 08:20
                  18.89738083 3.114801884 20.72801808 211.8845978
                  16.23669052 2.689325094 0
05 06 2018 08:30
                                                215.5003052
05 06 2018 08:40
                  12.61526012 2.802649975 0
                                                225.5431061
05 06 2018 08:50
                  0
                        1.421376944 0
                                          218.5386963
05 06 2018 09:00
                  0
                        1.726518989 0
                                          312.4255066
05 06 2018 09:10
                  0
                        1.806332946 0
                                          334.854187
05 06 2018 09:20
                  0
                        2.606585026 0
                                          268,1397095
05 06 2018 09:40
                  0
                        2.507707119 0
                                          0
05 06 2018 09:50
                  0
                        2.613310099 0
                                          303.3970032
05 06 2018 10:00
                        2.356384993 0
                                          316.5776062
05 06 2018 10:10
                  0
                        2.422684908 0
                                          313.6528015
05 06 2018 10:20
                                          335.6012878
                  0
                        2.343033075 0
05 06 2018 10:30
                  0
                        2.673983097 0
                                          337.5682983
05 06 2018 10:40
                  0
                        2.47466898 0
                                          290.0710144
05 06 2018 10:50
                  0
                                          310.5737915
                        1.989176989 0
05 06 2018 11:00
                  0
                        2.586038113 0
                                          294.9971924
05 06 2018 11:10
                  0
                        2.943372965 0
                                          285.0140076
05 06 2018 11:20
                        3.789021015 91.05300548 287.8157959
                  0
05 06 2018 11:30
                  2.045732021 2.795228958 0
                                                299.8089905
05 06 2018 11:40
                  0
                        2.452085018 0
                                          279.2264099
05 06 2018 11:50
                  0
                        2.954055071 0
                                          278,6099854
05 06 2018 12:00
                  11.40606022 2.831465006 0
                                                288.9855042
05 06 2018 12:10
                        2.599805117 0
                                          296.7832031
05 06 2018 12:20
                  0
                        3.522053957 54.50895334 284.9421082
05 06 2018 12:30
                  12.4335804 2.839890957 0
                                                280.3611145
05 06 2018 12:40
                  0
                        2.507682085 0
                                          284.4831848
05 06 2018 12:50
                  0
                        1.834504962 0
                                          271.4668884
05 06 2018 13:00
                  0
                        1.953793049 0
                                          291.9551086
05 06 2018 13:10
                        1.888098955 0
                  0
                                          269.2438049
05 06 2018 13:20
                        1.529633999 0
                                          272.5990906
                  0
05 06 2018 13:30
                        1.714553952 0
                                          253.0897064
                  0
05 06 2018 13:40
                  0
                        3.580821037 61.57451938 237.792099
05 06 2018 13:50
                  28.50642967 3.396866083 41.2999297 231.8367004
05 06 2018 14:00
                  116.8289032 3.989608049 126.0133849 219.408905
05 06 2018 14:10
                  204.0160065 4.619823933 247.8022914 222.2774963
05 06 2018 14:20
                  191.0453033 4.551623821 233.0074035 227.0314941
05 06 2018 14:30
                  136.8365021 4.253348827 171.5370788 243.0227966
05 06 2018 14:40
                  33.65044022 3.38466692 40.14683256 239.5726013
                  101.5955963 3.970757961 122.4539363 244.0220032
05 06 2018 14:50
05 06 2018 15:00
                  202.9729004 4.63692379 251.5579812 255.9532013
05 06 2018 15:10
                  252.6067047 4.914511204 315.2722312 262.3086853
05 06 2018 15:20
                  287.4406128 5.083948135 356.8938278 264.5490112
                  241.6219025 4.862720013 302.9768213 264.9245911
05 06 2018 15:30
                  177.9857025 4.526368141 227.6019007 254.8040924
05 06 2018 15:40
                  185.8520966 4.556135178 233.9770992 257.6322937
05 06 2018 15:50
                  66.6917572 3.738251925 83.22533391 258.1997986
05 06 2018 16:00
05 06 2018 16:10
                  92.90982819 3.844543934 100.0857624 256.4395142
05 06 2018 16:20
                  249.4624023 4.877789021 306.5342463 264.0205078
05 06 2018 16:30
                  313.8815918 5.300684929 413.4486066 260.2903137
05 06 2018 16:40
                  209.4120026 4.602101803 243.9296252 255.9031982
05 06 2018 16:50
                  293.6043091 5.168305874 378.4486374 265.9143982
05 06 2018 17:00
                  263.9490051 5.066273212 352.4491853 267.0567932
05 06 2018 17:10
                  277.1329041 5.032123089 343.930566 266.5580139
05 06 2018 17:20
                  262.7402039 4.983335018 331.9160962 267.1039124
05 06 2018 17:30
                  179.7232971 4.477367878 217.2245495 272.6922913
05 06 2018 17:40 67.38285828 3.693300009 76.63879245 261.6247864
```

```
05 06 2018 17:50 92.70886993 3.808393002 94.14851565 266.8761902
                 134.403595 4.227077007 166.357338 278.7879028
05 06 2018 18:00
                 69.6574707 3.762846947 86.96593942 272.2221985
05 06 2018 18:10
05 06 2018 18:20 0.922332227 2.685996056 0
                                               273.7825928
05 06 2018 18:30
                 0
                       3.405030012 42.08490525 282.207489
05 06 2018 18:40
                 47.69589996 3.852372885 101.3990951 274.780304
05 06 2018 18:50
                 31.45583916 3.628247023 67.67945044 261.7939148
05 06 2018 19:00
                 92.77763367 4.108708858 143.4503784 250.2848969
05 06 2018 19:10
                 183.6244049 4.702960014 266.239866 246.1540985
                 372.2825928 5.722098827 535.2181563 244.8717041
05 06 2018 19:20
05 06 2018 19:30
                 634.9680786 6.570899963 834.0044896 241.0010071
05 06 2018 19:40
                 787.1743164 7.14320612 1081.779594 237.9346008
05 06 2018 19:50
                 740.6431885 6.933504105 986.3334631 235.4253998
05 06 2018 20:00
                 714.555603 6.788425922 923.5230482 245.1018066
05 06 2018 20:10 630.7932739 6.587061882 840.4691837 248.6065063
05 06 2018 20:20 672.6541138 6.672997952 875.3411974 244.209198
05 06 2018 20:30
                 783.6746826 7.038368225 1033.354664 237.4969025
05 06 2018 20:40 684.9888916 6.592688084 842.7265551 234.3338928
05 06 2018 20:50 651.2485962 6.549564838 825.5155377 228.9476929
05 06 2018 21:00
                 676.3842163 6.702680111 887.5826938 223.072403
                 732.1876221 6.64116621 862.3259233 222.876297
05 06 2018 21:10
05 06 2018 21:20
                 884.0385132 7.124508858 1073.037172 220.3218994
05 06 2018 21:30
                 783.1674194 6.842987061 946.84569
                                                     223.9700928
05 06 2018 21:40
                 723.145874 6.60193491 846.4443874 225.2261047
05 06 2018 21:50
                 795.4813843 6.913539886 977.5377073 230.4604034
05 06 2018 22:00
                 817.9467163 6.978448868 1006.316694 228.6553955
05 06 2018 22:10 816.9025879 6.982067108 1007.936451 227.4794006
05 06 2018 22:20
                 712.9031982 6.828228951 940.5020013 224.3619995
05 06 2018 22:30 642.5427246 6.60173893 846.3654901 221.2198944
                 561.6040039 6.437506199 781.7616877 216.0856934
05 06 2018 22:40
05 06 2018 22:50
                 446.9552002 5.760435104 547.1330061 217.3144989
05 06 2018 23:00
                 470.7828064 5.907475948 594.2163444 220.4871979
05 06 2018 23:10
                 446.3559875 5.838803768 571.950647 226.5765076
05 06 2018 23:20
                 464.0797119 5.928520203 601.1382398 222.1161041
05 06 2018 23:30 502.8602905 6.084142208 652.7415384 222.4440002
05 06 2018 23:40
                 449.6615906 5.901949883 592.4064296 221.4768982
05 06 2018 23:50
                 625.5369873 6.521316051 814.3541761 217.066803
06 06 2018 00:00
                 597.9285278 6.311659813 734.2683988 213.526001
06 06 2018 00:10 460.2155151 5.910130978 595.0870686 216.2207031
                 628.5258179 6.485737801 800.4233523 211.3231049
06 06 2018 00:20
06 06 2018 00:30 589.7344971 6.318062782 736.6432794 208.9042053
06 06 2018 00:40 512.4970703 5.879263878 585.0097358 211.9837952
06 06 2018 00:50 475.1498108 5.868639946 581.5642887 216.8643036
06 06 2018 01:00 645.5150757 6.621251106 854.242045 208.8348999
06 06 2018 01:10 579.2769165 6.256293774 713.9175045 210.8813934
06 06 2018 01:20 564.9078979 6.187351227 689.0370752 215.045105
06 06 2018 01:30
                 565.0333252 6.100421906 658.3909905 223.1508026
                 757.8294067 6.909543037 975.7827096 216.3883972
06 06 2018 01:40
06 06 2018 01:50
                 670.975708 6.674188137 875.830095 216.3135986
06 06 2018 02:00
                 527.9633789 6.10069418 658.485717 219.3108978
06 06 2018 02:10
                 525.4133301 6.236425877 706.6951245 217.1546936
06 06 2018 02:20
                 680.6619263 6.767568111 914.7009137 216.8477936
06 06 2018 02:30
                 783.5322266 7.069872856 1047.755566 218.0034027
06 06 2018 02:40
                 921.2321167 7.466100216 1240.442645 212.5581055
06 06 2018 02:50
                 730.5388794 6.531428814 818.3395793 217.3887939
06 06 2018 03:00
                 748.2241821 6.605748177 847.9803913 216.7440948
06 06 2018 03:10
                 783.0203857 6.748215199 906.561248 211.9703979
06 06 2018 03:20 585.0396729 6.180976868 686.7623926 214.5471954
06 06 2018 03:30 604.4500732 6.143629074 673.5222548 214.4087982
```

```
06 06 2018 03:40 586.710083 6.202528
                                          694.4704053 211.9835968
                  536.8695068 6.302402973 730.8428426 217.4048004
06 06 2018 03:50
06 06 2018 04:00
                  446.4667053 5.864346027 580.1750548 221.4763947
06 06 2018 04:10
                  472.9621887 6.112459183 662.5864284 218.9407959
06 06 2018 04:20
                  360.4364929 5.599411011 498.0570958 217.6920013
                  265.4164124 5.031600952 343.8010215 221.2106934
06 06 2018 04:30
                  256.3377991 4.979114056 330.8851451 218.845993
06 06 2018 04:40
                  245.3121033 4.923960209 317.5365254 211.9763031
06 06 2018 04:50
06 06 2018 05:00
                  158.865799 4.50407505 222.862749 218.7360992
                  143.0888062 4.412347794 203.6735891 229.0572968
06 06 2018 05:10
06 06 2018 05:20
                  127.4179993 4.222267151 165.412878 229.9651031
06 06 2018 05:30
                  111.8979034 4.057764053 133.7992558 211.360199
06 06 2018 05:40
                  170.8572998 4.43817997 209.027882 198.7062988
06 06 2018 05:50
                  391.6138
                              5.683126926 523.2550469 190.4033966
06 06 2018 06:00
                  322.2326965 5.255560875 401.3533296 188.7601013
06 06 2018 06:10
                  276.1289978 5.132330894 369.1867167 191.3377991
06 06 2018 06:20
                  202.4445953 4.674825191 259.9497108 184.3683929
06 06 2018 06:30
                  254.239502 4.896842003 311.0556382 189.2153931
                  273.2041931 5.043082237 346.6544343 191.7566071
06 06 2018 06:40
06 06 2018 06:50
                  42.08646011 3.416791916 43.2345814 194.8775024
06 06 2018 07:00
                  83.41277313 3.658881903 71.81424982 192.9190063
                  104.2124023 4.127886772 147.1151917 188.232605
06 06 2018 07:10
06 06 2018 07:20
                  39.32696152 3.665230989 72.68997321 183.5901031
06 06 2018 07:30
                  37.95315933 3.661422014 72.16383093 182.0518036
06 06 2018 07:40
                  2.751265049 2.834418058 0
                                                178.2906952
06 06 2018 07:50
                  31.74039078 3.702239037 77.92282233 200.1589966
06 06 2018 08:00
                  54.36375046 3.883750916 106.7612838 193.5545044
06 06 2018 08:10
                  115.012001 4.083343983 138.6300485 201.2285004
06 06 2018 08:20
                  6.664661884 2.711085081 0
                                                197.4588013
                  35.04555893 3.400703907 41.66761471 204.6502991
06 06 2018 08:30
                  27.75992012 3.506613016 52.74415636 203.5041962
06 06 2018 08:40
06 06 2018 08:50
                  2.329200983 2.384342909 0
                                                195.565094
06 06 2018 09:00
                  9.457532883 3.316716909 34.15970916 208.8273926
06 06 2018 09:10
                  20.04774094 3.24693799 28.78028537 204.0740051
                  23.89213943 3.121690989 21.07880737 201.3659973
06 06 2018 09:20
06 06 2018 09:30
                  0
                        2.396222115 0
                                          184.5632019
06 06 2018 09:40
                  0
                        1.503023028 0
                                          200.6952972
06 06 2018 09:50
                  0
                        1.566064
                                    0
                                          185.6105957
06 06 2018 10:00
                        1.501095057 0
                                          356.999115
06 06 2018 10:10
                        1.487367988 0
                                          319.7221069
06 06 2018 10:20
                        1.731544971 0
                                          287.4601135
                  0
06 06 2018 10:30
                                          295.2023926
                  0
                        2.624982119 0
06 06 2018 10:40
                                          285.5552979
                  0
                        2.978116035 0
06 06 2018 10:50
                  0
                        1.642357945 0
                                          300.7726135
06 06 2018 11:00
                  0
                        1.150207996 0
                                          353.1838074
06 06 2018 11:10
                        2.044594049 0
                                          312.2737122
06 06 2018 11:20
                  0
                        1.984688997 0
                                          302.9527893
06 06 2018 11:30
                  0
                        1.611228943 0
                                          359.0127869
06 06 2018 11:40
                  0
                        2.255954981 0
                                          304.6069031
06 06 2018 11:50
                  0
                        2.001610994 0
                                          288.1460876
06 06 2018 12:00
                  0
                        1.26730001 0
                                          278.4085999
06 06 2018 12:10
                        1.769408941 0
                                          312.930603
06 06 2018 12:20
                        2.525993109 0
                                          287.7374878
06 06 2018 12:30
                        1.854634047 0
                                          305.9020996
06 06 2018 12:40
                                          296.0405884
                  0
                        1.851639986 0
06 06 2018 12:50
                  0
                        0.817413688 0
                                          209.6154022
06 06 2018 13:00
                  0
                        1.672512054 0
                                          292.4872131
06 06 2018 13:10
                  0
                        1.559326053 0
                                          286.203186
06 06 2018 13:20
                        1.24742806 0
                                          301.149292
```

```
06 06 2018 13:30 0
                        2.007993937 0
                                          328.6401062
06 06 2018 13:40
                  0
                        1.764865994 0
                                          346.2921143
06 06 2018 13:50
                                          298.6713867
                  0
                        0.834903181 0
06 06 2018 14:00
                 0
                        0.900750875 0
                                          266.8539124
06 06 2018 14:10
                  0
                        0.88188839 0
                                          6.675119877
06 06 2018 14:20
                        1.727852941 0
                                          28.75842094
06 06 2018 14:30
                  0
                        1.651780009 0
                                          20.57760048
06 06 2018 14:40
                        1.280787945 0
                  0
                                          337.0997009
06 06 2018 14:50
                  0
                        2.871795893 0
                                          329.769104
                        3,464443922 48,11885804 334,1416931
06 06 2018 15:00
                  0
06 06 2018 15:10
                        2.904463053 0
                  0
                                          14.72167015
06 06 2018 15:20
                        2.737138033 0
                                          34.67575073
06 06 2018 15:30
                        3.252552986 29.18433642 48.37601089
06 06 2018 15:40
                        3.253598928 29.26015903 46.31568909
06 06 2018 15:50
                        3.438050032 45.36862743 46.57574081
                  0
06 06 2018 16:00
                  0
                        3.336920977 35.86273081 56.94255066
06 06 2018 16:10
                 0
                        2.988946915 0
                                          65,4468689
06 06 2018 16:20
                        2.324577093 0
                                          52,29936981
                 0
06 06 2018 16:30
                  0
                        2.417433977 0
                                          42.91823959
                                          83.51738739
06 06 2018 16:40
                  0
                        2.336247921 0
06 06 2018 16:50
                                          95.28855133
                        2.227252007 0
                  0
06 06 2018 17:00
                 0
                        2.097982883 0
                                          94.51447296
06 06 2018 17:10
                  0
                        1.800693989 0
                                          109.740097
                        1.267557979 0
06 06 2018 17:20
                 0
                                          46.59899902
06 06 2018 17:30
                 Θ
                        2.261872053 0
                                          60.41551971
06 06 2018 17:40
                        3.780630112 89.73083328 65.58075714
06 06 2018 17:50 437.7251892 5.703745842 529.5657483 117.8270035
06 06 2018 18:00
                 42.4444809 3.084871054 19.29212138 143.1548004
                  748.3035889 5.533323765 478.6373546 213.9026947
06 06 2018 18:10
06 06 2018 18:20
                  3485.675049 13.30167007 3600 255.4232941
06 06 2018 18:30
                  3378.844971 12.56709957 3583.80503 237.4777069
06 06 2018 18:40
                  3515.212891 12.68328953 3590.29359 222.5079041
06 06 2018 18:50
                  3605.047119 13.01233006 3600 215.1165009
                  3341.943115 12.13488007 3541.383819 234.0574036
06 06 2018 19:00
06 06 2018 19:10
                  2986.356934 11.27766991 3361.915509 246.1555023
                  1868.370972 8.887436867 2071.694385 248.447998
06 06 2018 19:20
06 06 2018 19:30
                  722.6193237 6.496096134 804.4647025 268.6788025
                  680.2446289 6.407304764 770.206446 275.5589905
06 06 2018 19:40
06 06 2018 19:50
                  989.859314 7.28361702 1148.950974 292.732605
06 06 2018 20:00
                  946.0681763 7.189603806 1103.676885 299.3847961
06 06 2018 20:10
                  1687.374023 8.737616539 1976.411966 309.4346008
                  963.0029907 6.884568214 964.8608604 326.9129028
06 06 2018 20:20
06 06 2018 20:30
                  1.386132956 2.233726978 0
                                                324.2391968
06 06 2018 20:40
                        3.062297106 18.30398174 288.0538025
06 06 2018 20:50
                  130.1905975 4.551698208 233.0233824 257.835907
06 06 2018 21:00
                  363.3031921 5.484603882 464.5818172 246.100296
                  772.1381226 6.778914928 919.4938355 248.4004059
06 06 2018 21:10
06 06 2018 21:20
                  728.7045288 6.469014168 793.9236167 268.5940857
06 06 2018 21:30
                  514.9368896 5.705740929 530.1785899 291.2593994
06 06 2018 21:40
                  322.0560913 5.304310799 414.4280312 290.3117065
06 06 2018 21:50
                  146.8036957 4.275147915 175.8622543 295.0349121
06 06 2018 22:00
                  23.43083
                              2.958328962 0
                                                301.3916931
06 06 2018 22:10
                  10.03590965 2.814676046 0
                                                253.5657959
06 06 2018 22:20
                        1.781975985 0
                  0
                                          262.0497131
06 06 2018 22:30
                  0
                        2.454190016 0
                                          256.092804
06 06 2018 22:40
                  0
                        2.056446075 0
                                          251.2335968
06 06 2018 22:50
                  0
                        1.596632004 0
                                          250.7855988
06 06 2018 23:00 0
                        1.971431017 0
                                          230.3961029
06 06 2018 23:10 0
                        2.194381952 0
                                          221.2546997
```

```
06 06 2018 23:20
                         1.937284946 0
                                            224.8699036
                   0
06 06 2018 23:30
                   0
                         1.43739903
                                      0
                                            214,6296997
06 06 2018 23:40
                                            229,954895
                   0
                         0.883631587 0
06 06 2018 23:50
                   0
                         0.745396972 0
                                            256.0155945
07 06 2018 00:00
                   0
                         0.897161186 0
                                            230.7848969
07 06 2018 00:10
                         0.759705782 0
                                            266.1860962
07 06 2018 00:20
                   0
                         0.689434886 0
                                            285.5284119
07 06 2018 00:30
                   0
                         0.92380321
                                      0
                                            231.6277008
07 06 2018 00:40
                   0
                         0.63528192
                                      0
                                            268.7348022
07 06 2018 00:50
                   0
                         1.176962018 0
                                            277.3981018
07 06 2018 01:00
                   0
                         1.763828039 0
                                            276.4515076
07 06 2018 01:10
                         1.640377045 0
                                            298.5078125
07 06 2018 01:20
                         1.308483005 0
                                            285.414093
07 06 2018 01:30
                   0
                         1.471564054 0
                                            277.7004089
07 06 2018 01:40
                         1.50564301
                                            282.269104
                   0
                                      0
07 06 2018 01:50
                   0
                         1.904633045 0
                                            299.5675049
07 06 2018 02:00
                   0
                         2.183672905 0
                                            303.7550964
07 06 2018 02:10
                   0
                         2.391627073 0
                                            303.4836121
07 06 2018 02:20
                   0
                         1.669953942 0
                                            306.684906
07 06 2018 02:30
                   0
                         1.286455989 0
                                            264.6400146
07 06 2018 02:40
                         1.216130018 0
                                            247.4700928
                   0
07 06 2018 02:50
                   0
                         1.043151975 0
                                            289.5971985
07 06 2018 03:00
                   0
                         1.523349047 0
                                            301.5310974
07 06 2018 03:10
                   0
                         1.875710964 0
                                            305.9707031
07 06 2018 03:20
                         1.602133989 0
                                            306.5740967
07 06 2018 03:30
                         1.552279949 0
                                            307.5168152
07 06 2018 03:40
                         1.497148037 0
                                            296.7008972
07 06 2018 03:50
                         1.312160969 0
                                            303.3967896
                   0
07 06 2018 04:00
                   0
                         1.964112997 0
                                            310.885498
07 06 2018 04:10
                   0
                         1.865839958 0
                                            315.3453064
07 06 2018 04:20
                   0
                         1.032461047 0
                                            302.9822083
07 06 2018 04:30
                   0
                         1.434275031 0
                                            332.2651062
07 06 2018 04:40
                         1.74881804
                                            15.54821014
07 06 2018 04:50
                         1.214452982 0
                                            349.4942932
                   0
07 06 2018 05:00
                         1.338925004 0
                                            34.03852081
                   0
07 06 2018 05:10
                   0
                         1.465263963 0
                                            36.47399139
07 06 2018 05:20
                   0
                         1.550866008 0
                                            56.46401978
                         1.380764008 0
07 06 2018 05:30
                   0
                                            51.96551895
07 06 2018 05:40
                         1.680745006 0
                                            61.59537125
07 06 2018 05:50
                         1.161939979 0
                                            58.24723053
07 06 2018 06:00
                         1.314126015 0
                                            68.40625
                   0
07 06 2018 06:10
                   0
                         2.300005913 0
                                            70.00058746
07 06 2018 06:20
                         3.192079067 25.0980796 71.95401764
                   0
07 06 2018 06:30
                   0
                         2.434796095 0
                                            76.31144714
07 06 2018 06:40
                   0
                         2.671282053 0
                                            75.37851715
07 06 2018 06:50
                         2.813687086 0
                                            81.27220917
07 06 2018 07:00
                   0
                         2.248548031 0
                                            97.5949707
                         2.219449997 0
07 06 2018 07:10
                   0
                                            88.83769989
07 06 2018 07:20
                   0
                         2.497682095 0
                                            77.45542145
07 06 2018 07:30
                   0
                         2.496474981 0
                                            74.30635071
07 06 2018 07:40
                   0
                         2.598772049 0
                                            86.16713715
07 06 2018 07:50
                         2.416779041 0
                                            107.2940979
07 06 2018 08:00
                         2.2361269
                                            84.07066345
07 06 2018 08:10
                         2.795802116 0
                                            74.83564758
                   0
07 06 2018 08:20
                                            87.97454834
                   0
                         2.512094975 0
07 06 2018 08:30
                   0
                         2.194293022 0
                                            116.9567032
   06 2018 08:40
                   0
                         1.944133997 0
                                            145.3401947
Θ7
07 06 2018 08:50
                   0
                         2.109136105 0
                                            143.8054047
07 06 2018 09:00
                   0
                         2.431596994 0
                                            119.3283997
```

```
07 06 2018 09:10
                        2.13094306 0
                 0
                                         111.8984985
07 06 2018 09:20
                 0
                        1.626224995 0
                                         93.08289337
07 06 2018 09:30
                 0
                       2.515254021 0
                                         76.88506317
                                   16.28472235 79.01174164
07 06 2018 09:40 0
                       3.008708
07 06 2018 09:50
                 0
                        3.495260954 51.47102352 80.99839783
07 06 2018 10:00
                       3.661839962 72.22144961 87.61551666
07 06 2018 10:10
                 0
                       4.026502132 127.9360962 77.76371765
                       3.81277895 94.85769608 80.2224884
07 06 2018 10:20
                 0
07 06 2018 10:30
                 0
                       3.004844904 16.15691477 83.05744934
07 06 2018 10:40
                 0
                       2.769483089 0
                                         78.741539
07 06 2018 10:50
                       2.685642004 0
                 0
                                         76.07274628
07 06 2018 11:00
                 0
                       2.75890708 0
                                         67.66748047
07 06 2018 11:10
                       2.941518068 0
                                         67.18961334
07 06 2018 11:20
                 0
                        2.70143199 0
                                         60.73892975
                        3.28273797 31.44287584 47.00862885
07 06 2018 11:30
                 0
07 06 2018 11:40
                 0
                       2.624891996 0
                                       41.64791107
07 06 2018 11:50
                 0
                        3.164644003 23.43721991 30.8967495
07 06 2018 12:00
                 0
                        3.611112118 65.43222941 46.98722076
                 28.82070923 3.85708189 102.1937698 48.02716064
07 06 2018 12:10
                 102.1766968 4.167368889 154.7159897 44.23894119
07 06 2018 12:20
                 140.0874023 4.392869949 199.6616416 29.01576996
07 06 2018 12:30
                 102.4366989 4.081369877 138.2561563 19.04442978
07 06 2018 12:40
07 06 2018 12:50
                 130.9642944 4.256474018 172.1556223 9.763480186
07 06 2018 13:00
                 122.5175018 4.211820126 163.3655763 10.04549026
07 06 2018 13:10
                 36.40417862 3.471054077 48.82508596 11.89511967
07 06 2018 13:20
                 141.2608948 4.280684948 176.964845 15.06952
07 06 2018 13:30
                 161.0863037 4.344062805 189.7023444 19.33365059
                 196.8226929 4.460074902 213.5963877 16.87285042
07 06 2018 13:40
                             5.037722111 345.3210301 15.48085022
07 06 2018 13:50
                 279.3237
                 385.637207 5.511888027 472.4262127 17.63796043
07 06 2018 14:00
                 209.1894989 4.530760765 228.5392566 28.57349014
07 06 2018 14:10
07 06 2018 14:20 449.2164917 5.612668037 502.0024379 41.87546921
07 06 2018 14:30
                 539.7338867 6.075730801 649.833669 44.95718002
07 06 2018 14:40
                 316.8439026 5.108930111 363.2179144 50.31055069
07 06 2018 14:50
                 287.9009094 5.078029156 355.4026766 51.71517944
07 06 2018 15:00
                 548.0363159 6.029497147 633.985416 56.84041977
                 786.1480713 6.76220417 912.4404673 58.71492004
07 06 2018 15:10
07 06 2018 15:20
                 1023.732971 7.424985886 1219.399175 61.76470184
07 06 2018 15:30 1079.014038 7.585349083 1302.243773 63.46092987
07 06 2018 15:40 1237.854004 7.868031979 1455.353997 63.52645111
07 06 2018 15:50 1147.515991 7.869989872 1456.447457 66.02178955
07 06 2018 16:00 1029.034058 7.605034828 1312.584992 66.13253784
07 06 2018 16:10 945.2509155 7.336419106 1174.92412 62.94361115
07 06 2018 16:20
                 1104.894043 7.892903805 1469.276497 66.56754303
07 06 2018 16:30
                 1101.692993 7.686779022 1356.056906 67.37507629
07 06 2018 16:40
                 977.130127 7.396995068 1205.218076 70.01461792
                 1030.76001 7.664177895 1343.953135 74.27572632
07 06 2018 16:50
                 969.4083252 7.605080128 1312.608847 76.21157837
07 06 2018 17:00
                 777.4993286 7.266596794 1140.66323 76.38874054
07 06 2018 17:10
07 06 2018 17:20
                 627.1383057 5.91961813 598.2044656 75.02381134
07 06 2018 17:30
                 525.4884033 5.087838173 357.8753344 78.89170837
07 06 2018 17:40
                 824.7072144 7.013120174 1021.905967 76.43389893
07 06 2018 17:50
                 801.703125 6.989636898 1011.330524 78.28838348
07 06 2018 18:00
                 735.1901855 6.237577915 707.1127553 81.03014374
07 06 2018 18:10
                 287.5726013 4.74535799 275.8185147 95.06089783
07 06 2018 18:20
                 157.3712006 3.928720951 114.7208788 94.43730927
07 06 2018 18:30
                 108.4103012 3.749677896 84.95104857 88.76944733
07 06 2018 18:40 149.3336029 4.001097202 123.2037397 82.79212952
07 06 2018 18:50 339.2503967 5.465741158 459.1985099 77.26875305
```

```
07 06 2018 19:00 312.7524109 5.525090218 476.2465906 76.22704315
                 217.5350952 5.121614933 366.4479841 75.02674866
07 06 2018 19:10
07 06 2018 19:20
                 303.1400146 5.44367218 452.9412005 74.33476257
07 06 2018 19:30
                 181.3601074 4.679081917 260.8980437 74.07936859
07 06 2018 19:40
                 192.3359985 4.970980167 328.9022626 76.94468689
07 06 2018 19:50
                 205.4207001 5.006594181 337.6212253 75.26953125
07 06 2018 20:00
                 168.8336029 4.848971844 299.7454019 74.35276031
                 96.33830261 4.222352982 165.4297213 73.16821289
07 06 2018 20:10
07 06 2018 20:20
                 243.5688019 5.136299133 370.2032352 70.10405731
07 06 2018 20:30
                 256.1369019 5.122581005 366.6945112 73.78045654
07 06 2018 20:40
                 171.2993927 4.750535011 276.9964264 72.61192322
07 06 2018 20:50
                 175.3047028 4.682223797 261.59877
                                                     72.27371979
07 06 2018 21:00
                 104.9051971 4.23839283 168.5839886 71.74642944
07 06 2018 21:10
                 93.92233276 4.164244175 154.1116657 73.30539703
                 25.66743088 3.386251926 40.2953057 73.4298172
07 06 2018 21:20
07 06 2018 21:30
                 12.51801968 3.45838809 47.47799018 61.62022018
07 06 2018 21:40 0
                       2.924937963 0
                                         50.99483109
07 06 2018 21:50 0
                       2.516102076 0
                                         50.82241058
07 06 2018 22:00 0
                       2.540076017 0
                                         42.91038132
07 06 2018 22:10 0
                       2.257888079 0
                                         49.12319946
07 06 2018 22:20 0
                       2.514260054 0
                                         43.95421982
07 06 2018 22:30 0
                                         50.16400146
                        2.269287109 0
07 06 2018 22:40
                 0
                       2.183223009 0
                                         45.80192184
07 06 2018 22:50
                 0
                       2.594702959 0
                                         30.33003998
07 06 2018 23:00
                 0
                        3.027060032 16.92450065 42.40275955
07 06 2018 23:10
                        3.543163061 56.98330684 39.7167511
07 06 2018 23:20 43.59883881 3.939589024 116.6930514 45.39707947
07 06 2018 23:30 57.61128998 3.871879101 104.7139845 46.99935913
07 06 2018 23:40 51.28902054 3.947091103 118.0654398 58.07189941
07 06 2018 23:50
                 27.09046936 3.526053905 54.97234189 53.03007126
08 06 2018 00:00 65.10800171 3.949625969 118.5311895 49.42451096
08 06 2018 00:10
                 172.780899 4.553929806 233.5029075 46.79351044
08 06 2018 00:20
                 292.751709 5.225070953 393.2778754 56.13341904
08 06 2018 00:30
                 406.5817871 5.742147923 541.4310979 56.86888885
08 06 2018 00:40
                 357.6144104 5.428741932 448.7328993 53.87039185
08 06 2018 00:50
                 509.1329041 6.019108772 630.4558601 57.06240082
08 06 2018 01:00
                 624.4257202 6.570624828 833.8946916 61.22166824
                 643.0499878 6.499423027 805.7652287 59.93228149
08 06 2018 01:10
08 06 2018 01:20
                 600.6859131 6.48899889 801.6943986 62.66117096
08 06 2018 01:30
                635.887085 6.529705048 817.6594425 67.53063202
08 06 2018 01:40 549.28479
                             6.189136028 689.6747592 72.41600037
08 06 2018 01:50 497.8786011 6.043803215 638.8649315 71.52189636
08 06 2018 02:00
                463.6239929 5.861137867 579.1383494 71.72548676
08 06 2018 02:10
                 580.9851074 6.235702038 706.4327953 66.24584198
08 06 2018 02:20
                 571.0911255 6.242867947 709.0322992 65.81838989
08 06 2018 02:30
                 655.7852173 6.726272106 897.3853761 65.35812378
                 750.0316772 7.004964828 1018.225349 62.66527176
08 06 2018 02:40
                 860.2424927 7.168464184 1093.664036 63.4331398
08 06 2018 02:50
                 740.8265991 6.82347393 938.4636631 71.2023468
08 06 2018 03:00
08 06 2018 03:10
                 623.8239746 6.571465015 834.2300114 69.49585724
08 06 2018 03:20
                 576.7288818 6.351618767 749.161878 68.12763214
08 06 2018 03:30
                 510.9317932 6.083047867 652.3627909 69.24751282
08 06 2018 03:40
                 567.4393921 6.32656908 739.8051498 61.07807159
08 06 2018 03:50
                 512.8873291 6.062418938 645.247133 61.8498497
08 06 2018 04:00
                 578.194519 6.229670048 704.2489065 62.43727112
08 06 2018 04:10
                 328.776001 5.359779835 429.5528305 61.20698929
08 06 2018 04:20 238.3374023 5.02162981 341.3311589 59.47117996
08 06 2018 04:30 360.5910034 5.708041191 530.8856611 61.55091095
08 06 2018 04:40 269.60849 5.456495762 456.5717551 57.97444916
```

```
08 06 2018 04:50 320.9703979 5.629353046 506.9918519 59.31729126
                 422.6825867 5.95445919 609.7345649 59.29523087
08 06 2018 05:00
                 514.8062744 6.297522068 729.0403569 56.97483063
08 06 2018 05:10
08 06 2018 05:20 473.78479
                             6.230827808 704.6677721 55.21670914
08 06 2018 05:30
                 477.9165955 6.273221016 720.1043896 57.12360001
08 06 2018 05:40
                 380.4858093 5.526411057 476.6296966 59.38349915
                 289.2521057 4.990040779 333.556714 64.36184692
08 06 2018 05:50
08 06 2018 06:00
                 251.9911041 4.794690132 287.1174386 65.78720856
08 06 2018 06:10
                 152.7919006 4.071444988 136.3791468 68.63639832
                 212.9259033 4.656122208 255.7970247 66.12106323
08 06 2018 06:20
08 06 2018 06:30
                 307.7553101 5.097286224 360.2641692 69.55050659
08 06 2018 06:40
                 166.2487946 4.365252018 194.0097752 65.92765045
08 06 2018 06:50
                 120.0173035 4.027812958 128.1810537 68.61459351
08 06 2018 07:00
                 70.37728119 3.558034897 58.76935239 73.39009857
08 06 2018 07:10 89.34571838 3.823837042 96.65938306 70.49286652
08 06 2018 07:20 161.896698 4.32473278 185.794408 65.96724701
08 06 2018 07:30
                 301.7161865 5.160748959 376.4943862 70.67162323
08 06 2018 07:40 249.7420959 4.837236881 296.9978184 69.35826111
08 06 2018 07:50 381.6546021 5.577633858 491.6124066 72.54094696
08 06 2018 08:00 454.5050964 5.874586105 583.4912415 74.26283264
08 06 2018 08:10 389.9979858 5.812010765 563.3956055 75.37122345
                 162.4452057 4.489428997 219.7655221 78.53733826
08 06 2018 08:20
08 06 2018 08:30
                 176.4411011 4.555622101 233.8667523 79.59696198
08 06 2018 08:40
                 111.5410995 4.226462841 166.2366748 78.49501038
08 06 2018 08:50
                 39.59410095 3.510485888 53.18321571 73.21621704
08 06 2018 09:00 16.9396801 3.122853041 21.13872687 79.90426636
08 06 2018 09:10
                 38.87503815 3.478569031 49.63647436 73.02950287
08 06 2018 09:20 96.05901337 3.849863052 100.9769943 66.36653137
08 06 2018 09:30
                 0
                       2.814052105 0
                                        59.63737106
                       3.369529963 38.74915026 68.29532623
08 06 2018 09:40
08 06 2018 09:50
                 18.54516029 3.134776115 21.7660038 67.57115936
08 06 2018 10:00
                 27.17824936 3.413990021 42.95869965 55.99504089
08 06 2018 10:10
                 35.50730896 3.360966921 37.9747109 64.03204346
08 06 2018 10:20
                 212.4593964 4.543830872 231.3352983 65.90557098
                 256.6893005 4.835887909 296.6826004 63.84724045
08 06 2018 10:30
08 06 2018 10:40
                 307.1199951 5.100084782 360.9731078 67.35780334
                 268.0184937 4.8047719
08 06 2018 10:50
                                         289.4472134 62.94504929
08 06 2018 11:00
                 300.2489929 5.08475399 357.0970575 62.3000412
08 06 2018 11:10 142.5276947 4.065583229 135.2727058 59.33364105
                 72.61950684 3.644454002 69.84820497 52.91569138
08 06 2018 11:20
                 108.7273026 4.06564188 135.2837687 43.46704102
08 06 2018 11:30
                 114.6781006 3.865607023 103.6414662 45.91453171
08 06 2018 11:40
08 06 2018 11:50
                 166.6394043 4.253203869 171.5084007 33.23474884
08 06 2018 12:00
                 185.1672974 4.333899021 187.6449921 27.07126999
08 06 2018 12:10
                 203.6687927 4.529932976 228.3625221 27.83577919
08 06 2018 12:20
                 238.0227966 4.691740036 263.7251242 24.37324905
08 06 2018 12:30
                 197.864502 4.60876894 245.3841967 19.46574974
                 245.2377014 4.797574997 287.7833738 24.41197968
08 06 2018 12:40
08 06 2018 12:50
                 240.6215057 4.824674129 294.0672224 23.06355095
08 06 2018 13:00
                 188.7156067 4.439237118 209.2478204 26.7866993
08 06 2018 13:10
                 179.2969971 4.396660805 200.4407732 29.06903076
08 06 2018 13:20
                 202.8506927 4.597518921 242.9314078 24.43596077
08 06 2018 13:30
                 160.8973999 4.321561813 185.1552826 27.96279907
08 06 2018 13:40
                 162.5348969 4.417000771 204.6351878 31.67234039
08 06 2018 13:50
                 235.6596985 4.827762127 294.7865477 38.33641815
08 06 2018 14:00
                 299.987915 5.217019081 391.1582323 41.06330109
08 06 2018 14:10 303.4151917 5.174266815 379.9934412 42.8431282
08 06 2018 14:20 382.7974854 5.506991863 471.0134846 44.98740005
08 06 2018 14:30 368.7586975 5.434027195 450.220333 43.48366165
```

```
08 06 2018 14:40 366.9649048 5.492301941 466.7881399 44.16704941
                 399.3186951 5.624724865 505.6051842 44.35998154
08 06 2018 14:50
08 06 2018 15:00
                 295.4884033 5.038318157 345.469195 46.61124039
08 06 2018 15:10
                 277.8855896 5.033111095 344.1757524 51.48051071
08 06 2018 15:20 428.7698059 5.803814888 560.7933026 59.66941071
08 06 2018 15:30
                 602.0551147 6.368844986 755.6358511 60.98403168
08 06 2018 15:40
                 567.2576294 6.283710003 723.9535837 62.78150177
                 479.3371887 5.980330944 618.3800167 62.03203964
08 06 2018 15:50
08 06 2018 16:00
                 451.2424927 5.873374939 583.0984447 58.19697952
                 538.4066162 6.177265167 685.4398808 60.21112823
08 06 2018 16:10
08 06 2018 16:20
                 744.5913696 6.841095924 946.0313301 66.9238205
08 06 2018 16:30
                 740.2302856 6.737455845 902.0549985 68.89730835
08 06 2018 16:40
                 725.3546143 6.86916399 958.1624287 67.50093842
08 06 2018 16:50
                932.9785767 7.448509216 1231.407744 77.73887634
08 06 2018 17:00 792.7634888 7.162721157 1090.954283 85.25534058
08 06 2018 17:10 537.526123 6.187249184 689.0006269 72.97516632
08 06 2018 17:20 486.7550049 6.15613699 677.9398075 61.53665161
08 06 2018 17:30 405.5905151 5.759987831 546.9931476 58.26734924
08 06 2018 17:40
                 347.6845093 5.568174839 488.8271008 51.23389053
08 06 2018 17:50
                 340.1514893 5.418159962 445.7623391 54.2832489
                 360.8970947 5.461101055 457.8792179 58.51694107
08 06 2018 18:00
                 311.2784119 5.413131237 444.3541912 60.67552948
08 06 2018 18:10
08 06 2018 18:20
                 298.760498 5.374010086 433.4761901 63.8418808
08 06 2018 18:30
                 291.8265076 5.214745998 390.5608209 65.4091568
08 06 2018 18:40
                 220.7888947 4.926321983 318.1035097 61.91376877
08 06 2018 18:50
                 188.3634949 4.724859238 271.17231
                                                     58.96157837
08 06 2018 19:00
                 114.117897 4.36908102 194.7908091 61.4405899
08 06 2018 19:10
                 167.4514008 4.506371021 223.349449 58.99985123
08 06 2018 19:20
                 175.4933929 4.653899193 255.3049571 58.75421906
                 200.4082031 4.85742712 301.7311629 60.06591034
08 06 2018 19:30
                 218.4864044 4.895784855 310.8040809 58.51284027
08 06 2018 19:40
08 06 2018 19:50
                 215.6425018 4.941643238 321.7916332 58.10950851
08 06 2018 20:00
                 231.661499 5.059790134 350.8250386 60.28908157
08 06 2018 20:10
                 252.3135071 5.167946815 378.3556783 70.51406097
                 275.4627991 5.175535202 380.3225229 75.39620209
08 06 2018 20:20
08 06 2018 20:30
                 229.0574951 4.965377808 327.5394069 77.81524658
                 220.6118011 5.058372021 350.4702082 73.3480072
08 06 2018 20:40
08 06 2018 20:50
                 211.1598053 5.066973209 352.6247455 59.20249176
08 06 2018 21:00
                 200.5305023 4.880041122 307.067316 55.00131989
08 06 2018 21:10
                 251.636795 5.08199501 356.4014783 52.8601799
08 06 2018 21:20
                 230.664093 4.929821968 318.9444963 57.13454056
08 06 2018 21:30
                 225.0997925 4.957878113 325.7186752 64.5806427
08 06 2018 21:40
                 266.6098022 5.191040993 384.3561194 70.62760162
08 06 2018 21:50
                 231.7510986 5.116298199 365.092567 74.82510376
08 06 2018 22:00
                 232.9880981 4.974483013 329.7555778 73.27057648
08 06 2018 22:10
                 185.7509003 4.93867588 321.0759774 70.88304138
08 06 2018 22:20
                 112.6216965 4.100217819 141.8333696 75.76538849
08 06 2018 22:30
                 143.1694946 4.255148888 171.8932878 79.88303375
08 06 2018 22:40
                 94.23345947 4.052910805 132.8861177 81.94312286
                 47.47291183 3.681124926 74.91049076 82.56638336
08 06 2018 22:50
08 06 2018 23:00
                 0.937535822 2.834984064 0
                                               96.66200256
08 06 2018 23:10
                 0
                       2.580624104 0
                                         87.94930267
08 06 2018 23:20
                        2.461477041 0
                                         88.33899689
08 06 2018 23:30
                       2.659205914 0
                 0
                                         95.62050629
08 06 2018 23:40
                       2.737365007 0
                 0
                                         76.95559692
08 06 2018 23:50
                 0
                       3.069775105 18.62228856 58.65019989
09 06 2018 00:00
                 0
                       3.822802067 96.48992543 51.79241943
09 06 2018 00:10 0
                       3.396831989 41.29667388 66.38490295
09 06 2018 00:20 0
                    2.891792059 0 68.27620697
```

```
09 06 2018 00:30
                         3.133941889 21.72137481 61.59177017
                   0
09 06 2018 00:40
                   0
                         2.835645914 0
                                            63.78038025
09 06 2018 00:50
                                            74.39784241
                   0
                         1.896618962 0
                         1.651026011 0
09 06 2018 01:00
                  0
                                            87,62922668
09 06 2018 01:10
                   0
                         1.395652056 0
                                            96.41091919
09 06 2018 01:20
                         1.048555017 0
                                            96.36184692
09 06 2018 01:30
                   0
                         0.581691682 0
                                            79.14594269
09 06 2018 01:40
                   0
                         0.290742904 0
                                            116.8447037
09 06 2018 01:50
                   0
                         0.354239613 0
                                            72.67852783
09 06 2018 02:00
                   0
                         0.615006804 0
                                            227.1578064
09 06 2018 02:10
                   0
                         0.388755113 0
                                            198.1772003
09 06 2018 02:20
                         0.731479824 0
                                            291.3125916
09 06 2018 02:30
                         0.729078293 0
                                            114.308197
09 06 2018 02:40
                   0
                         0.898685396 0
                                            99.24442291
09 06 2018 02:50
                         0.934031725 0
                                            57.53768921
                   0
09 06 2018 03:00
                   0
                         0.797944307 0
                                            80.67440796
09 06 2018 03:10
                   0
                         1.124202967 0
                                            91.90675354
09 06 2018 03:20
                   0
                                            78.44299316
                         1.295596004 0
09 06 2018 03:30
                   0
                         2.13083601
                                            55.07223129
09 06 2018 03:40
                   0
                         1.653324008 0
                                            63.59659958
                                            78.22553253
09 06 2018 03:50
                         1.518439054 0
                   0
09 06 2018 04:00
                   0
                         1.678588033 0
                                            73.48578644
09 06 2018 04:10
                   0
                         2.089442968 0
                                            63.55266953
                         2.038544893 0
09 06 2018 04:20
                   0
                                            88.0682373
09 06 2018 04:30
                   0
                         1.942929983 0
                                            88.24891663
09 06 2018 04:40
                         2.362142086 0
                                            76.45585632
09 06 2018 04:50
                         2.547600985 0
                                            77.07718658
                   0
09 06 2018 05:00
                         2.853740931 0
                                            74.56284332
                   0
09 06 2018 05:10
                   0
                         2.788527012 0
                                            77.52702332
09 06 2018 05:20
                   0
                         2.769388914 0
                                            82.74360657
09 06 2018 05:30
                   0
                         2.636854887 0
                                            88.49262238
09 06 2018 05:40
                   0
                         2.694613934 0
                                            84.96296692
09 06 2018 05:50
                   0
                         3.196095943 25.35135971 86.56626892
09 06 2018 06:00
                   0
                         3.439567089 45.52368491 100.486702
09 06 2018 06:10
                   4.671001911 3.07395196
                                            18.80397409 94.62957764
09 06 2018 06:20
                   0.490201205 2.474891901 0
                                                  92.25956726
09 06 2018 06:30
                   0
                         1.676681995 0
                                            99.40310669
                         1.963322997 0
                                            105.0155029
09 06 2018 06:40
                   0
09 06 2018 06:50
                         2.030656099 0
                                            101.4941025
09 06 2018 07:00
                         1.017838001 0
                                            98.17314911
09 06 2018 07:10
                         1.225576043 0
                                            89.73877716
                   0
09 06 2018 07:20
                   0
                         1.810196996 0
                                            75.96298981
09 06 2018 07:30
                                            107.7869034
                   0
                         1.553478956 0
                                            93.1572113
09 06 2018 07:40
                   0
                         1.914047956 0
09 06 2018 07:50
                   0
                         2.298300028 0
                                            98.64325714
09 06 2018 08:00
                   0
                         1.938135028 0
                                            95.60767365
09 06 2018 08:10
                   0
                         2.274315119 0
                                            98.7833786
09 06 2018 08:20
                                            108.7526016
                   0
                         2.765028954 0
09 06 2018 08:30
                   0
                         2.320607901 0
                                            91.84172821
09 06 2018 08:40
                   0
                         2.307563066 0
                                            91.80792236
09 06 2018 08:50
                   0
                         1.863958955 0
                                            99.59838867
09 06 2018 09:00
                   0
                         1.746914029 0
                                            62.85926056
09 06 2018 09:10
                         2.211191893 0
                                            66.42421722
09 06 2018 09:20
                         1.489945054 0
                                            92.07669067
                   0
09 06 2018 09:30
                                            155.1139984
                   0
                         1.513955951 0
09 06 2018 09:40
                   0
                         1.875879049 0
                                            153.6710052
09 06 2018 09:50
                   0
                         2.052948952 0
                                            158.6109009
09 06 2018 10:00
                   0
                         1.457630038 0
                                            160.5175934
09 06 2018 10:10
                   0
                         1.941527009 0
                                            127.2157974
```

```
09 06 2018 10:20 0
                        2.340631008 0
                                          120.1303024
09 06 2018 10:30
                  0
                        2.615561962 0
                                          97.84697723
09 06 2018 10:40
                  0
                        2.467020988 0
                                          114.1200027
09 06 2018 10:50
                 0
                        2.95992589 0
                                          135.5715942
09 06 2018 11:00
                 0
                        2.568449974 0
                                          121.8427963
09 06 2018 11:10
                  0
                        3.224721909 27.23109597 140.4539948
09 06 2018 11:20
                  0
                        2.321511984 0
                                          147.4228973
09 06 2018 11:30
                  0
                        3.144282103 22.28241329 164.5661011
09 06 2018 11:40
                  3.420732021 3.360546112 37.9369555 164.3556061
                  5.767689228 2.887603045 0
09 06 2018 11:50
                                                159.0298004
09 06 2018 12:00
                        2.733201027 0
                                          154.712204
                  0
09 06 2018 12:10
                  0
                        2.954404116 0
                                          148.1696014
09 06 2018 12:20
                        2.564043999 0
                                          145.6703949
09 06 2018 12:30
                  0
                        2.392996073 0
                                          135.3946075
09 06 2018 12:40
                        1.636904001 0
                                          140.4759979
                  0
09 06 2018 12:50
                  0
                        1.736722946 0
                                          163.9756012
09 06 2018 13:00
                 0
                        1.773674011 0
                                          181.3773041
09 06 2018 13:10
                        1.279886961 0
                 0
                                          176.5169983
09 06 2018 13:20
                 0
                        1.189301014 0
                                          132.4411926
09 06 2018 13:30
                 0
                        1.272917986 0
                                          101.8527985
09 06 2018 13:40
                        2.55883503 0
                                          40.22092056
                  0
09 06 2018 13:50
                  0
                        2.907608032 0
                                          41.46733093
09 06 2018 14:00
                  0
                        3.434206963 44.97747771 44.95214081
09 06 2018 14:10
                 0
                        3.436815023 45.24266992 42.20550919
09 06 2018 14:20
                        3.342747927 36.36602496 52.71609879
09 06 2018 14:30 82.67321777 4.455917835 212.7268367 55.14162827
09 06 2018 14:40
                  179.0440979 4.743611813 275.4216227 59.19406891
                  151.6526031 4.519295216 226.0950526 62.2259903
09 06 2018 14:50
                  134.6239014 4.420060158 205.2681266 70.56401062
09 06 2018 15:00
                  221.6979065 4.964904785 327.4244449 67.07187653
09 06 2018 15:10
09 06 2018 15:20
                  289.7562866 5.265213966 403.9262806 60.69144058
09 06 2018 15:30
                  365.0244141 5.604856014 499.6755211 65.18791962
09 06 2018 15:40
                  712.7636108 6.924358845 982.2981569 70.3237381
09 06 2018 15:50
                  709.6743774 6.75162077 907.9904055 71.74305725
                  483.586792 5.995073795 623.3386823 70.69264984
09 06 2018 16:00
                                                      72.6663208
09 06 2018 16:10
                  391.2438049 5.665746212 517.96777
09 06 2018 16:20
                  551.0891113 6.434802055 780.7229898 77.26773071
                  543.6627197 6.495353222 804.174456 82.493927
09 06 2018 16:30
09 06 2018 16:40
                  705.7589111 6.896146774 969.9148138 85.40461731
09 06 2018 16:50
                  695.9083252 6.7490201
                                          906.898904 87.56429291
09 06 2018 17:00
                  478.4372864 5.868385792 581.4820076 91.26766968
                  148.1576996 4.218397141 164.6538242 96.70256042
09 06 2018 17:10
09 06 2018 17:20
                  6.110978127 2.334335089 0
                                                96.05795288
09 06 2018 17:30
                  0
                        2.423631907 0
                                          144.4026947
09 06 2018 17:40
                  0
                                          154.8955994
                        1.938477039 0
09 06 2018 17:50
                  0
                        2.229748011 0
                                          138.0859985
09 06 2018 18:00
                  0
                        2.312500954 0
                                          111.7873001
09 06 2018 18:10
                                          102.2833023
                  0
                        2.726434946 0
09 06 2018 18:20
                  0
                        2.968466997 0
                                          107.876297
09 06 2018 18:30
                  0
                        2.549096107 0
                                          128.5930023
09 06 2018 18:40
                  0
                        2.967729092 0
                                          133.9954071
09 06 2018 18:50
                        3.038846016 17.36379355 139.9593964
                  0
09 06 2018 19:00
                        2.551235914 0
                                          134.6484985
09 06 2018 19:10
                        1.912915945 0
                                          127.7857971
                  0
09 06 2018 19:20
                  0
                        2.231627941 0
                                          136.5296936
09 06 2018 19:30
                  0
                        1.205042005 0
                                          111.3539963
09 06 2018 19:40
                  0
                        1.580029964 0
                                          120.517601
09 06 2018 19:50
                 0
                        1.06359899 0
                                          72.02639008
09 06 2018 20:00 0
                        0.663791716 0
                                          144.0792999
```

```
09 06 2018 20:10
                         0.618712783 0
                                            267.0011902
                  0
09 06 2018 20:20
                   0
                         1.045315981 0
                                            294.6307068
09 06 2018 20:30
                         1.069661975 0
                                            217.4705048
                   0
09 06 2018 20:40
                  0
                         1.578698039 0
                                            265.0423889
09 06 2018 20:50
                   0
                         1.977517009 0
                                            269.7038879
09 06 2018 21:00
                         2.273675919 0
                                            244.0034027
09 06 2018 21:10
                   0
                         2.157999999 0
                                            246.733902
09 06 2018 21:20
                   0
                         1.561866045 0
                                            207.100296
09 06 2018 21:30
                   0
                         1.918547988 0
                                            185.3374023
09 06 2018 21:40
                   0
                         2.133196115 0
                                            170.440094
09 06 2018 21:50
                         1.701948047 0
                   0
                                            164.7792969
09 06 2018 22:00
                         0.815599322 0
                                            152.6215057
09 06 2018 22:10
                         0.763434112 0
                                            98.78340149
09 06 2018 22:20
                         0.609567285 0
                                            126.1841965
09 06 2018 22:30
                         1.067648053 0
                                            178.8894043
                   0
09 06 2018 22:40
                   0
                         0.920319974 0
                                            205.3941956
09 06 2018 22:50
                  0
                         0.494929105 0
                                            234.798996
09 06 2018 23:00
                  0
                         0.407280385 0
                                            274.759613
                   0
09 06 2018 23:10
                         0.497334987 0
                                            308.8149109
09 06 2018 23:20
                   0
                         1.205260038 0
                                            277.0029907
09 06 2018 23:30
                         2.740809917 0
                                            261.7330933
                   0
09 06 2018 23:40
                         3.672503948 73.70105117 266.4161987
                   0
09 06 2018 23:50
                         3.022795916 16.7710416 275.5481873
10 06 2018 00:00
                  0
                         3.499495029 51.9434637 284.5985107
10 06 2018 00:10
                         3.233150005 27.80951417 286.9627075
10 06 2018 00:20
                         2.810035944 0
                                            291.730011
10 06 2018 00:30
                         2.391995907 0
                                            289.1893921
10 06 2018 00:40
                                            289.586792
                         2.541019917 0
                   0
10 06 2018 00:50
                   0
                         2.37075305
                                            284.9945984
                                            286.5718079
10 06 2018 01:00
                   0
                         2.293226004 0
10 06 2018 01:10
                  0
                         1.789193988 0
                                            280.2265015
10 06 2018 01:20
                   0
                         2.098926067 0
                                            286.8678894
10 06 2018 01:30
                         1.925433993 0
                                            292.0054932
10 06 2018 01:40
                         1.982668042 0
                                            294,2547913
                   0
10 06 2018 01:50
                         2.132200003 0
                                            310.2966003
                   0
10 06 2018 02:00
                   0
                         2.171762943 0
                                            314.4975891
10 06 2018 02:10
                   0
                         1.81259799 0
                                            287.550415
                         2.526094913 0
10 06 2018 02:20
                                            275.748291
10 06 2018 02:30
                         2.608474016 0
                                            295.928894
10 06 2018 02:40
                         2.703602076 0
                                            293.428894
10 06 2018 02:50
                         2.155920982 0
                                            294.5505066
                   0
10 06 2018 03:00
                         2.254970074 0
                                            307.6942139
                   0
10 06 2018 03:10
                         2.573888063 0
                                            312.9674072
                   0
10 06 2018 03:20
                  0
                         2.41939497
                                            332.4724121
                                     0
10 06 2018 03:30
                   0
                         1.73675096
                                     0
                                            358.3670959
10 06 2018 03:40
                   0
                         1.718544006 0
                                            72.99613953
10 06 2018 03:50
                   0
                         1.34721005
                                     0
                                            82.61895752
10 06 2018 04:00
                   0
                         1.837947965 0
                                            77.23464966
10 06 2018 04:10
                   0
                         2.501327038 0
                                            123.2714005
10 06 2018 04:20
                   0
                         2.962093115 0
                                            124.9080963
10 06 2018 04:30
                   0
                         2.037235022 0
                                            127.1688995
10 06 2018 04:40
                         2.085985899 0
                                            117.1780014
10 06 2018 04:50
                         2.410224915 0
                                            98.96322632
10 06 2018 05:00
                         2.538899899 0
                                            88.35140991
                   0
10 06 2018 05:10
                                            86.94822693
                   0
                         2.793375969 0
10 06 2018 05:20
                   0
                         4.250460148 170.9657986 83.59623718
10 06 2018 05:30
                   43.19427872 3.822799921 96.48957428 72.98858643
                  -0.126066998
                                     3.107062101 20.34297073 78.60935211
10 06 2018 05:40
10 06 2018 05:50
                         2.846146107 0
                                           73.56948853
```

```
10 06 2018 06:00 0
                       2.416405916 0
                                         76.85417175
10 06 2018 06:10 0
                       2.821285009 0
                                         76.0100174
                       3.31942606 34.38427452 68.82581329
10 06 2018 06:20 0
10 06 2018 06:30 58.20658875 4.2608428 173.0211545 74.67575073
10 06 2018 06:40 137.0323944 4.38620615 198.2940054 68.67125702
                 216.8923035 4.834712982 296.408157 71.99093628
10 06 2018 06:50
10 06 2018 07:00
                 367.7052002 5.61014986 501.2517283 75.22479248
10 06 2018 07:10 487.9742126 6.153116226 676.8714001 75.24730682
10 06 2018 07:20 422.9476013 5.841399193 572.7832819 76.34020233
10 06 2018 07:30 414.9377136 5.744335175 542.1113187 77.60289001
10 06 2018 07:40 424.7027893 5.706091881 530.2864344 75.27880859
10 06 2018 07:50 371.8536987 5.558252811 485.9145124 75.5658493
10 06 2018 08:00 279.619812 5.027396202 342.7585685 68.60636902
10 06 2018 08:10
                 186.7483978 4.321784973 185.2002437 73.0771637
10 06 2018 08:20 120.8916016 4.011401176 125.1196784 66.55799866
10 06 2018 08:30
                 21.92699051 3.214878082 26.56990585 62.96509933
10 06 2018 08:40
                 14.57151031 3.107606888 20.36975979 47.52960968
10 06 2018 08:50 53.58234024 3.385884047 40.26080928 49.75149155
10 06 2018 09:00 96.80682373 3.774944067 88.8412747 48.21432114
                 183.389801 4.344203949 189.7309546 52.11222076
10 06 2018 09:10
10 06 2018 09:20
                 184.0697937 4.322390079 185.3221713 52.35015106
                 274.8483887 4.806059837 289.7453502 40.02149963
10 06 2018 09:30
10 06 2018 09:40 471.6418152 5.54688406 482.5886
                                                     41.10773849
10 06 2018 09:50
                 360.4140015 5.140583992 371.3022812 39.59880829
10 06 2018 10:00
                 269.1549988 4.735557079 273.5935204 39.2481308
10 06 2018 10:10 189.794693 4.320557117 184.9528946 40.05625153
10 06 2018 10:20 397.6541138 5.366807938 431.488297 35.94544983
10 06 2018 10:30 512.2227173 5.717464924 533.7878501 39.27407837
10 06 2018 10:40 518.1054077 5.839435101 572.1531202 37.6384201
10 06 2018 10:50 624.067627 6.09280014 655.742527 35.70558167
10 06 2018 11:00 807.3671265 6.798042774 927.60803
                                                     38.58969879
10 06 2018 11:10 1007.291016 7.238484859 1127.063504 39.6114502
10 06 2018 11:20 855.8314819 6.916757107 978.9518053 40.93571091
10 06 2018 11:30 902.8917847 7.000751019 1016.326917 36.99121094
                 1177.041016 7.790195942 1412.237712 39.72729874
10 06 2018 11:40
                 1214.133057 7.815981865 1426.444177 44.12907028
10 06 2018 11:50
                 1192.439941 7.686867237 1356.104273 43.38063812
10 06 2018 12:00
10 06 2018 12:10
                 1542.425049 8.506203651 1831.820532 41.72666168
10 06 2018 12:20 2324.326904 10.09047031 2847.083092 38.87490845
10 06 2018 12:30 2485.280029 10.75574017 3179.20747 40.21545029
10 06 2018 12:40 1970.564941 9.364555359 2381.147202 43.78881073
10 06 2018 12:50 2074.957031 9.394007683 2400.445202 43.90808868
10 06 2018 13:00 2051.253906 9.381914139 2392.519523 46.14384079
10 06 2018 13:10
                 1932.36499 9.158055305 2246.340661 41.47328949
10 06 2018 13:20
                 2320.677979 10.11275959 2860.243217 43.75928116
                 2361.861084 9.799701691 2661.139486 41.80398941
10 06 2018 13:30
                 2634.226074 10.61690044 3119.720393 42.51108932
10 06 2018 13:40
                 2576.74707 10.33567047 2983.759491 44.37963104
10 06 2018 13:50
10 06 2018 14:00 2456.799072 10.16464043 2890.29466 45.18157959
10 06 2018 14:10
                 3038.272949 11.58638954 3442.441737 45.78197098
10 06 2018 14:20
                 2898.320068 11.03094006 3283.25691 44.4077301
10 06 2018 14:30
                 2968.971924 11.46874046 3413.998886 45.97771072
10 06 2018 14:40
                 2597.985107 10.26292038 2945.036995 47.56903076
10 06 2018 14:50 2617.218994 10.73980045 3172.623617 49.30369949
10 06 2018 15:00
                 2499.748047 10.29967976 2964.791438 48.320961
10 06 2018 15:10 2134.717041 9.542642593 2473.317435 50.65357971
10 06 2018 15:20 2030.517944 9.283171654 2327.902472 48.21427917
10 06 2018 15:30 2119.535889 9.48249054 2458.492266 49.10486984
10 06 2018 15:40 2162.311035 9.553980827 2482.09179 50.96926117
```

```
10 06 2018 15:50 2438.724121 10.07884026 2840.1564
                                                     51.38777924
10 06 2018 16:00 1981.698975 9.147289276 2239.342496 51.40502167
10 06 2018 16:10 2471.709961 10.13805008 2874.993372 48.80311966
10 06 2018 16:20 2003.024048 9.142601967 2236.29674 51.68091965
10 06 2018 16:30 2509.352051 10.43305969 3033.26714 56.02207947
10 06 2018 16:40 2795.833008 11.1914196 3335.920946 60.45709991
10 06 2018 16:50 3426.295898 13.03582954 3600 65.71945953
10 06 2018 17:00 3390.045898 13.18702984 3600 67.84339142
10 06 2018 17:10
                 2950.625
                             11.90137005 3505.773196 69.51531219
                 2980.476074 11.60256958 3446.143975 70.63844299
10 06 2018 17:20
10 06 2018 17:30
                 2994.052979 11.88026047 3502.090413 71.71446991
10 06 2018 17:40 3135.573975 11.94976044 3513.920746 70.3690567
10 06 2018 17:50 3438.850098 12.64869976 3588.572554 63.78536987
10 06 2018 18:00 3556.989014 13.18346024 3600 63.5087204
10 06 2018 18:10 3574.934082 13.53822994 3600 65.1079483
10 06 2018 18:20 3586.539063 13.65417004 3600 66.43990326
10 06 2018 18:30 3573.967041 13.80828953 3600 68.61269379
10 06 2018 18:40 3146.124023 11.76142979 3479.877741 61.41294861
10 06 2018 18:50 3143.35791 11.93984032 3512.283745 61.63665009
10 06 2018 19:00 2901.358887 11.52567005 3428.09903 62.43835068
10 06 2018 19:10 2936.299072 11.75078011 3477.762509 64.50913239
10 06 2018 19:20 2855.093994 11.54473019 3432.67808 63.08889008
10 06 2018 19:30
                 3072.614014 12.16825008 3545.723087 65.12152863
10 06 2018 19:40 3103.74292 12.0771904 3533.446317 67.26516724
10 06 2018 19:50 3333.175049 12.3856802 3569.579474 68.26901245
10 06 2018 20:00 3258.25708 12.16569042 3545.396738 67.09108734
10 06 2018 20:10 3349.365967 12.69213009 3590.705013 73.24764252
10 06 2018 20:20 2975.931885 11.65299988 3457.363962 75.69270325
10 06 2018 20:30 2742.681885 11.18239021 3333.10768 77.73960876
10 06 2018 20:40 2174.153076 9.809584618 2667.908637 75.44660187
10 06 2018 20:50 1790.714966 8.755580902 1987.773878 77.84333038
10 06 2018 21:00 3097.99707 12.46181965 3576.1662
                                                   76.98771667
10 06 2018 21:10 3201.583008 12.71179008 3591.578586 77.90576172
10 06 2018 21:20 3048.577881 11.82686043 3492.421845 75.30287933
                             11.6601696 3458.920146 75.03920746
10 06 2018 21:30 2976.6521
10 06 2018 21:40
                 2929.884033 11.48929024 3419.162127 73.56893921
                 3128.134033 12.04065037 3528.130153 74.86946106
10 06 2018 21:50
10 06 2018 22:00
                 2673.697998 10.94139957 3251.357282 76.06448364
10 06 2018 22:10 2520.9729
                            10.65944004 3138.464923 76.59512329
10 06 2018 22:20 2725.072021 10.91547012 3241.773535 71.03701782
10 06 2018 22:30 2784.039063 10.9537096 3255.852316 72.02250671
10 06 2018 22:40 2267.590088 9.891506195 2722.777386 71.89559937
10 06 2018 22:50 2318.897949 10.04162025 2817.709973 74.05419922
10 06 2018 23:00 2557.842041 10.54920006 3088.924443 74.29321289
10 06 2018 23:10 2801.302979 11.05303955 3290.848881 72.57904053
10 06 2018 23:20
                 2859.083008 11.2990303 3368.110451 75.03119659
                 3064.501953 11.68929005 3465.141799 74.17134857
10 06 2018 23:30
                 3300.76001 12.43140984 3573.643394 72.25655365
10 06 2018 23:40
10 06 2018 23:50 3561.718018 13.70250988 3600 75.38816071
11 06 2018 00:00
                 3222.451904 12.08810997 3534.991382 72.5535202
11 06 2018 00:10
                 3369.178955 12.70092964 3591.103061 74.68167877
11 06 2018 00:20 3424.054932 12.75981045 3593.473375 72.48449707
11 06 2018 00:30 3438.855957 12.81140995 3595.133803 71.80140686
11 06 2018 00:40 3476.114014 13.1223402 3600 73.27799988
11 06 2018 00:50
                 3228.791016 12.25654984 3556.326364 71.76708984
11 06 2018 01:00 3128.174072 12.02567005 3525.885404 73.20909882
11 06 2018 01:10 3121.261963 11.97869015 3518.597372 71.6495285
11 06 2018 01:20 3352.206055 12.68227005 3590.245402 74.24450684
11 06 2018 01:30 3217.268066 11.90509987 3506.415753 70.39203644
```

```
11 06 2018 01:40 3416.551025 12.62635994 3587.366451 71.62078857
11 06 2018 01:50 3394.083008 12.64628029 3588.445521 71.87286377
11 06 2018 02:00 3227.694092 12.21815014 3551.870943 70.638237
11 06 2018 02:10 2987.285889 11.66133022 3459.17115 71.97894287
11 06 2018 02:20 3192.143066 11.5900898 3443.292826 65.02818298
11 06 2018 02:30 3370.302002 12.1730299 3546.329617 65.60639954
11 06 2018 02:40 3422.500977 12.4179697 3572.482766 61.52157974
11 06 2018 02:50 3421.083008 12.24419022 3554.918312 58.75526047
11 06 2018 03:00 3321.810059 12.00078964 3522.072736 62.3053894
11 06 2018 03:10 3417.410889 12.53028965 3581.326195 63.0692482
11 06 2018 03:20 3558.239014 13.07464981 3600 61.54977036
11 06 2018 03:30 3554.434082 12.87734032 3596.693837 58.47584152
11 06 2018 03:40 3599.493896 13.75343037 3600 59.35232925
11 06 2018 03:50 3570.016113 14.03841972 3600 59.52074051
11 06 2018 04:00 3562.112061 13.15919018 3600 58.3029213
11 06 2018 04:10 3542.100098 12.7079401 3591.412003 56.161129
11 06 2018 04:20 3507.808105 12.87576008 3596.663775 54.85731888
11 06 2018 04:30 3551.105957 13.43663025 3600 57.48524857
11 06 2018 04:40 3577.802979 13.81546021 3600 58.48352814
11 06 2018 04:50 3546.262939 13.29957962 3600 55.50637054
11 06 2018 05:00 3393.49292 12.23923969 3554.347418 56.05224991
11 06 2018 05:10 3454.591064 12.71084976 3591.538101 55.91078949
11 06 2018 05:20 3517.949951 13.17794037 3600 57.42095947
11 06 2018 05:30 3555.134033 13.78230953 3600 56.49258041
11 06 2018 05:40 3358.116943 12.61816978 3586.905611 55.22251892
11 06 2018 05:50 3496.302979 13.1414299 3600 56.85889816
11 06 2018 06:00 3554.623047 13.29516983 3600 55.7990799
11 06 2018 06:10 3600.51709 14.33631039 3600 56.47816849
11 06 2018 06:20 3553.210938 13.53252029 3600 56.48326874
11 06 2018 06:30 3238.758057 11.9293499 3510.534018 50.20645905
11 06 2018 06:40 3131.541992 11.67572021 3462.262282 55.1515007
11 06 2018 06:50 2729.075928 10.53223991 3081.021416 46.83248901
11 06 2018 07:00 2413.89209 9.86668396 2706.384607 38.84571075
11 06 2018 07:10 2306.896973 9.812029839 2669.578431 41.8562088
11 06 2018 07:20 2478.956055 9.902685165 2730.094691 34.60459137
11 06 2018 07:30 2838.271973 10.82839012 3208.426056 32.061409
11 06 2018 07:40 2697.991943 10.99936962 3272.219388 32.44924927
11 06 2018 07:50 2612.00708 10.55510044 3091.656097 32.19871902
11 06 2018 08:00 2614.01001 10.55805969 3093.02267 34.35327911
11 06 2018 08:10 2458.395996 10.17807007 2897.942599 36.33806992
11 06 2018 08:20 2057.196045 9.138029099 2233.326001 35.2310791
11 06 2018 08:30 2101.763916 9.455929756 2441.058177 38.56732178
11 06 2018 08:40 2038.319946 9.14848423 2240.11907 37.09542084
11 06 2018 08:50 1813.577026 8.515938759 1837.83151 35.91719055
11 06 2018 09:00 2289.102051 9.521369934 2456.729555 34.90372086
11 06 2018 09:10 2255.790039 9.435423851 2427.603579 39.22222137
11 06 2018 09:20 2751.850098 10.51961994 3075.091399 46.31747818
11 06 2018 09:30 2319.291016 9.824352264 2677.962954 52.0904007
11 06 2018 09:40 2265.670898 9.406928062 2408.915147 50.44976044
11 06 2018 09:50 3034.645996 11.52616024 3428.21768 54.31629181
11 06 2018 10:00 2694.958008 10.58666039 3106.112162 60.44441986
11 06 2018 10:10 2941.424072 11.36962032 3387.909647 57.8106308
11 06 2018 10:20 3185.437988 11.75800991 3479.200745 57.00453949
11 06 2018 10:30 3228.175049 11.98596001 3519.749886 56.11043167
11 06 2018 10:40 2775.156982 10.58191967 3103.957283 49.40980911
11 06 2018 10:50 2585.012939 10.38136959 3007.3185 48.33686066
11 06 2018 11:00 2593.903076 10.06462002 2831.630817 44.68787003
11 06 2018 11:10 2789.368896 10.67819023 3146.580433 45.36688995
11 06 2018 11:20 2476.9729 10.0325098 2812.150589 50.99095154
```

```
11 06 2018 11:30 2733.5
                             10.44493008 3039.122583 51.73017883
11 06 2018 11:40 2822.522949 10.74940968 3176.600201 54.86383057
11 06 2018 11:50
                 3043.25293 11.61240005 3448.368944 51.2550087
11 06 2018 12:00 3064.386963 11.47270012 3415.000266 49.59952164
11 06 2018 12:10 3166.917969 12.11470985 3538.671663 52.59828949
11 06 2018 12:20 3304.833984 12.63103008 3587.624742 54.01498032
11 06 2018 12:30 2595.329102 10.12215996 2865.748299 43.77606964
11 06 2018 12:40 2929.954102 10.62193012 3121.960854 45.70795822
11 06 2018 12:50 3172.76709 11.7052803 3468.490967 45.31356812 11 06 2018 13:00 2993.10791 10.95932961 3257.892782 41.60998917
11 06 2018 13:10 3437.715088 12.46008968 3576.026512 41.89994049
11 06 2018 13:20 3403.606934 12.71914959 3591.890947 46.40528107
11 06 2018 13:30 3181.967041 11.63158035 3452.657239 41.80102921
11 06 2018 13:40 3430.055908 12.17232037 3546.239818 40.56116104
11 06 2018 13:50 3507.11499 13.57618046 3600 45.40293884
11 06 2018 14:00 3293.664063 12.20610046 3550.423592 43.79957962
11 06 2018 14:10 3148.273926 11.63558006 3453.542707 44.05569839
11 06 2018 14:20 3303.504883 11.59294987 3443.948871 39.53223038
11 06 2018 14:30 3311.399902 12.32236004 3563.411302 44.41115952
11 06 2018 14:40 3197.912109 11.53219986 3429.675722 44.5959816
11 06 2018 14:50 3169.513916 11.68764019 3464.793532 44.83462906
11 06 2018 15:00 3371.508057 12.32837009 3564.02394 47.89768982
11 06 2018 15:10 3420.858887 12.75965023 3593.467615 49.44532013
11 06 2018 15:20 3417.136963 12.68762016 3590.496573 52.9453392
11 06 2018 15:30 3463.611084 12.67809963 3590.046676 51.11003113
11 06 2018 15:40 3535.237061 13.34342003 3600 54.0832901
11 06 2018 15:50 3573.428955 13.47591972 3600 54.95063019
11 06 2018 16:00 3589.266113 13.56478024 3600 55.91363144
11 06 2018 16:10 3579.060059 14.62131977 3600 57.50809097
11 06 2018 16:20 3602.719971 15.15054989 3600 60.22383881
11 06 2018 16:30 3603.962891 15.26406956 3600 63.11351013
11 06 2018 16:40 3603.895996 14.92949963 3600 63.33237839
11 06 2018 16:50 3601.190918 14.18134975 3600 59.57482147
11 06 2018 17:00 3603.978027 14.41843987 3600 58.40766907
11 06 2018 17:10 3603.794922 14.31853008 3600 56.99950027
                 3603.873047 14.27235031 3600
11 06 2018 17:20
                                               59.51968002
11 06 2018 17:30
                 3590.679932 14.06103992 3600
                                               62.8057518
11 06 2018 17:40 3597.01001 13.97500992 3600 63.81719971
11 06 2018 17:50 3595.825928 13.97418976 3600 64.32927704
11 06 2018 18:00 3590.674072 13.91331005 3600 63.5582695
11 06 2018 18:10 3545.260986 13.56225967 3600 63.29708862
11 06 2018 18:20 3580.898926 13.67006969 3600 65.0009079
11 06 2018 18:30 3572.040039 13.66287994 3600 67.48641205
11 06 2018 18:40 3365.780029 12.34700012 3565.886672 66.21566772
11 06 2018 18:50 3485.620117 12.66069031 3589.189262 63.5465889
11 06 2018 19:00 3579.775879 13.30047989 3600 64.70877075
11 06 2018 19:10 3600.087891 13.79442978 3600 65.7947998
11 06 2018 19:20 3603.701904 14.34809017 3600 69.8374176
11 06 2018 19:30 3595.618896 14.10109043 3600
                                               71.90677643
11 06 2018 19:40
                 3603.556885 14.79625034 3600
                                               66.88159943
11 06 2018 19:50
                 3599.698975 13.88683987 3600 65.54569244
                 3555.320068 12.85634995 3596.265214 64.37835693
11 06 2018 20:00
11 06 2018 20:10
                 3598.645996 13.57328033 3600 65.36505127
11 06 2018 20:20 3604.065918 14.59010029 3600 64.56331635
11 06 2018 20:30
                 3603.930908 14.41489983 3600 63.4813385
11 06 2018 20:40 3603.760986 14.16100025 3600 60.25712967
11 06 2018 20:50 3604.068115 15.42115974 3600 59.73096085
11 06 2018 21:00 3603.959961 14.82909012 3600 58.25791931
11 06 2018 21:10 3603.654053 14.64733028 3600 59.16918945
```

```
11 06 2018 21:20 3603.566895 14.50487041 3600 61.25751114
                 3603.74292 16.07144928 3600
11 06 2018 21:30
                                              64.58190155
11 06 2018 21:40
                 3603.659912 17.00315094 3600
                                               64.56562805
11 06 2018 21:50
                 3603.459961 16.60083961 3600 61.73828888
11 06 2018 22:00
                 3602.977051 15.14620018 3600 63.15602875
11 06 2018 22:10
                 3603.167969 15.5396204 3600
                                               63.70785141
11 06 2018 22:20
                 3603.037109 16.23076057 3600
                                               63.93544006
                 3603.054932 15.40894985 3600
11 06 2018 22:30
                                               64.31088257
11 06 2018 22:40
                 3603.219971 16.56677055 3600
                                               64.94661713
                 3603.106934 16.47421074 3600
                                               65.731987
11 06 2018 22:50
11 06 2018 23:00
                 3603.167969 16.44001961 3600
                                               64.17147827
11 06 2018 23:10
                 3602.937988 15.69616032 3600
                                               63.87952042
11 06 2018 23:20
                 3599.514893 15.1135397 3600
                                               64.0616684
11 06 2018 23:30
                 3602.907959 15.99662971 3600
                                               65.71676636
11 06 2018 23:40
                 3599.483887 15.4271698 3600
                                               70.21846771
11 06 2018 23:50
                 3602.614014 16.01847076 3600
                                               68.96115875
12 06 2018 00:00
                 3602.991943 15.57549953 3600
                                               68.84053802
12 06 2018 00:10 3603.269043 16.28622055 3600 68.2468338
12 06 2018 00:20
                 3602.843018 16.50951958 3600
                                               66.79535675
12 06 2018 00:30
                 3602.955078 16.05126953 3600
                                               65.45436096
12 06 2018 00:40
                 3603.024902 16.50284004 3600
                                               67.52619171
12 06 2018 00:50
                 3603.032959 15.82894993 3600
                                               66.84781647
12 06 2018 01:00
                 3603.055908 15.67372036 3600
                                               66.96360779
12 06 2018 01:10
                 3603.227051 15.18340015 3600
                                               67.65086365
12 06 2018 01:20
                 3602.993896 16.30044937 3600
                                               67.07476807
12 06 2018 01:30
                 3603.227051 15.8405304 3600
                                               66.45934296
12 06 2018 01:40
                 3602.873047 16.17571068 3600
                                               64.82224274
12 06 2018 01:50
                 3602.906982 15.45925999 3600
                                               64.5655899
12 06 2018 02:00
                 3602.947998 15.52626991 3600
                                               65.37776184
12 06 2018 02:10
                 3602.798096 15.21850014 3600
                                               65.14940643
12 06 2018 02:20
                 3602.707031 15.90147018 3600 62.70261002
12 06 2018 02:30
                 3602.876953 16.89258957 3600 65.84899139
12 06 2018 02:40
                 3602.706055 16.77285004 3600
                                               67.11338043
12 06 2018 02:50
                 3600.769043 15.8427
                                         3600
                                               66.52754211
                 3602.291992 15.11703014 3600
12 06 2018 03:00
                                               64.77213287
12 06 2018 03:10
                 3602.641113 15.38803005 3600
                                               64.0036087
12 06 2018 03:20
                 3602.61499 15.5722599 3600
                                               64.7720871
12 06 2018 03:30
                 3602.87793 16.19436073 3600 64.23774719
12 06 2018 03:40
                 3602.684082 15.45018005 3600 66.14533234
12 06 2018 03:50
                 3603.125977 15.50961018 3600
                                               68.05403137
12 06 2018 04:00
                 3602.771973 15.21833992 3600
                                               67.60825348
12 06 2018 04:10
                 3585.522949 14.40540028 3600
                                               65.7811203
12 06 2018 04:20
                 3572.263916 13.72284031 3600
                                               64.59552765
12 06 2018 04:30
                 3557.691895 13.23785973 3600
                                              61.40375137
12 06 2018 04:40
                 3481.889893 12.64515972 3588.386391 63.7014389
12 06 2018 04:50
                 3406.163086 12.34562016 3565.750576 65.00364685
                 3210.983887 11.91590977 3508.264253 64.21389008
12 06 2018 05:00
                 2217.093018 9.698681831 2590.059689 61.16384888
12 06 2018 05:10
12 06 2018 05:20 1693.922974 8.513624191 1836.40176 58.59173965
12 06 2018 05:30
                 1739.613037 8.708234787 1957.868576 61.22528076
12 06 2018 05:40
                 2264.72998 9.899039268 2727.712679 63.35514832
12 06 2018 05:50
                 2621.154053 10.44077969 3037.079641 65.92697906
12 06 2018 06:00
                 2478.456055 10.25366974 2940.004501 61.80318069
12 06 2018 06:10
                 2760.870117 10.91541958 3241.7547
                                                     57.42417908
12 06 2018 06:20
                 2692.181885 10.84720039 3215.78262 58.63177109
12 06 2018 06:30 2917.756104 11.38117027 3391.051794 64.60498047
12 06 2018 06:40 2439.434082 10.07038021 2835.091744 61.59957123
12 06 2018 06:50 2581.853027 10.33432007 2983.054413 56.68124008
12 06 2018 07:00 2344.988037 9.945861816 2757.978363 55.82548141
```

```
12 06 2018 07:10 2649.39502 10.45401955 3043.580309 55.55173111
12 06 2018 07:20 2855.070068 11.03509045 3284.691127 56.40909958
12 06 2018 07:30 2707.009033 10.69515038 3153.844585 56.54573822
12 06 2018 07:40 3042.579102 11.63078022 3452.47974 55.9656601
12 06 2018 07:50 860.1032715 9.625887871 2536.667048 58.43320084
12 06 2018 08:00
                 2640.150879 10.52023983 3075.383667 54.35602951
                 2820.50293 10.78530979 3191.255346 57.89369965
12 06 2018 08:10
                             10.67144012 3143.669101 52.27312088
12 06 2018 08:20
                 2718.3479
12 06 2018 08:30 1974.084961 8.984277725 2133.860336 50.58613968
                 2673.833008 10.58506966 3105.389753 49.81718063
12 06 2018 08:40
12 06 2018 08:50
                 2288.080078 9.675247192 2573.072185 52.17536163
12 06 2018 09:00 1933.772949 8.915015221 2089.355463 47.41728973
12 06 2018 09:10
                 1743.975952 8.406100273 1770.415575 37.88972855
12 06 2018 09:20 1929.790039 8.865098953 2057.415522 43.90996933
12 06 2018 09:30 1724.412964 8.323469162 1720.314529 40.93647003
12 06 2018 09:40 1998.359009 9.095972061 2206.035217 29.13595963
12 06 2018 09:50 2043.30896 9.148513794 2240.138284 31.02367973
12 06 2018 10:00 1695.394043 8.354480743 1739.052795 35.72740173
12 06 2018 10:10 1614.328979 8.125666618 1602.760998 45.09923935
12 06 2018 10:20 1654.725952 8.171637535 1629.764655 49.68391037
12 06 2018 10:30 1404.948975 7.783213139 1408.404003 43.57281876
12 06 2018 10:40 1804.394043 8.51970005 1840.155739 40.21509171
                 1602.969971 8.265522957 1685.51761 35.22024155
12 06 2018 10:50
12 06 2018 11:00
                 1519.453003 8.104812622 1590.577695 29.46285057
12 06 2018 11:10 1422.764038 7.930983067 1490.724651 25.6385994
12 06 2018 11:20 1202.06897 7.349908829 1181.623936 27.81697083
12 06 2018 11:30 964.1978149 6.909494877 975.7615745 26.09907913
12 06 2018 11:40 1048.261963 7.129191875 1075.222475 22.71186066
12 06 2018 11:50 1090.735962 7.239683151 1127.640954 27.31118965
12 06 2018 12:00
                 1098.255005 7.210916042 1113.833113 29.25876999
12 06 2018 12:10
                 1113.675049 7.176044941 1097.247717 32.69680023
12 06 2018 12:20 1241.994995 7.514585018 1265.491587 31.59435081
12 06 2018 12:30
                 1620.072998 8.236960411 1668.472411 31.86738968
12 06 2018 12:40
                 1577.61499 8.218841553 1657.69714 30.46845055
12 06 2018 12:50 1895.506958 8.831605911 2036.051762 32.20874023
12 06 2018 13:00
                 1581.337036 8.179938316 1634.661728 30.44805908
                 1763.005981 8.646935463 1919.346361 28.90967941
12 06 2018 13:10
                 1503.83606 7.985137939 1521.49731 28.46833038
12 06 2018 13:20
12 06 2018 13:30 1927.061035 8.960671425 2118.668855 27.51556015
12 06 2018 13:40 2116.300049 9.346626282 2369.406538 30.64274979
12 06 2018 13:50 2353.366943 10.02206993 2805.748295 31.39438057
12 06 2018 14:00 2547.241943 10.36565971 2999.285548 33.32854843
12 06 2018 14:10 2146.50708 9.305141449 2342.263219 37.14643097
12 06 2018 14:20
                 1861.300049 8.624380112 1905.230362 34.25442123
12 06 2018 14:30
                 1882.524048 8.641749382 1916.097868 38.48809052
                 1750.837036 8.546182632 1856.548352 41.45431137
12 06 2018 14:40
12 06 2018 14:50
                 1820.77002 8.8689394
                                        2059.868708 46.04172897
                 1914.171997 8.959757805 2118.08138 50.30263138
12 06 2018 15:00
12 06 2018 15:10 2199.643066 9.661171913 2562.777654 49.16501999
12 06 2018 15:20
                 1822.458008 8.786421776 2007.321463 51.4362793
12 06 2018 15:30
                 1601.432007 8.294565201 1702.921849 51.45450974
12 06 2018 15:40
                 1981.527954 9.198310852 2272.537735 55.06457138
12 06 2018 15:50
                 2195.239014 9.885949135 2719.124883 59.9430809
12 06 2018 16:00 2480.938965 10.36643028 2999.681169 57.72766113
12 06 2018 16:10 2497.564941 10.52511978 3077.680923 59.3870697
12 06 2018 16:20 2756.674072 11.42914963 3403.815048 62.86251068
12 06 2018 16:30 2825.01001 11.57242012 3439.204988 62.65869904
12 06 2018 16:40 2908.693115 11.60429955 3446.53686 61.74129105
12 06 2018 16:50 2978.989014 11.59885979 3445.299537 58.45201111
```

```
12 06 2018 17:00 2941.927002 11.59772015 3445.0396
                                                     61.1217804
                 2620.927979 11.07275009 3297.527511 59.54039001
12 06 2018 17:10
12 06 2018 17:20
                 2423.727051 10.46000957 3046.505718 57.49766922
12 06 2018 17:30 2496.370117 10.8350296 3211.032427 60.39704895
                 2312.938965 10.29776001 2963.769343 61.09170151
12 06 2018 17:40
12 06 2018 17:50
                 2107.798096 9.83701992 2686.529948 65.40326691
                 2058.081055 9.696716309 2588.642191 68.77210236
12 06 2018 18:00
                 2128.99707 9.785942078 2651.66074 71.16252136
12 06 2018 18:10
12 06 2018 18:20
                 2057.743896 9.526983261 2461.122636 71.1760788
                 1813.541992 9.178758621 2259.807957 75.34192657
12 06 2018 18:30
12 06 2018 18:40
                 1327.324951 7.897977829 1472.125237 78.90325928
12 06 2018 18:50
                 1460.19104 6.639013767 861.4500289 82.43739319
12 06 2018 19:00
                 1089.957031 6.060256004 644.5036932 86.81139374
12 06 2018 19:10
                 1455.442017 7.668413162 1346.216425 80.38371277
12 06 2018 19:20 1672.363037 9.205494881 2277.217654 77.24305725
12 06 2018 19:30
                 1463.374023 8.733042717 1973.522075 77.1207962
12 06 2018 19:40
                 1610.916992 9.081915855 2196.927272 76.64198303
12 06 2018 19:50
                 1582.812988 8.945137978 2108.685412 75.13218689
                 1473.811035 8.628808975 1907.999566 75.31183624
12 06 2018 20:00
                 1417.560059 8.336233139 1728.017372 73.19441986
12 06 2018 20:10
12 06 2018 20:20
                 1063.680054 7.599661827 1309.757482 70.73964691
12 06 2018 20:30 835.1533203 6.959994793 998.0810926 70.36701965
12 06 2018 20:40
                 1000.476013 7.287824154 1151.005878 71.20762634
12 06 2018 20:50
                 984.3704224 7.240046978 1127.81632 76.28368378
12 06 2018 21:00
                 790.7479248 6.902398109 972.650308 78.06891632
12 06 2018 21:10 842.4185791 6.971571922 1003.242678 76.09394836
12 06 2018 21:20 1126.392944 7.769895077 1401.108056 76.85920715
12 06 2018 21:30 1383.760986 8.332798004 1725.942999 77.83750916
12 06 2018 21:40 1345.409058 8.358488083 1741.479914 79.81469727
12 06 2018 21:50
                 1639.286011 8.912384033 2087.668948 78.59294891
12 06 2018 22:00
                 1666.241943 8.847189903 2045.985175 76.73635101
12 06 2018 22:10
                 1460.994019 8.650157928 1921.36572 76.45583344
12 06 2018 22:20
                 1233.963989 8.011162758 1536.395632 75.61923981
12 06 2018 22:30
                 1096.237061 7.641036034 1331.626209 74.33576202
12 06 2018 22:40 896.3153076 7.33814621 1175.780434 74.85928345
                 974.6000977 7.454872131 1234.670364 69.97463989
12 06 2018 22:50
12 06 2018 23:00
                 952.6790771 7.576828957 1297.783679 67.43009186
                 945.4489136 7.292694092 1153.387649 71.37979889
12 06 2018 23:10
12 06 2018 23:20
                 776.9998779 6.717906952 893.9021654 73.3409729
12 06 2018 23:30
                 742.4428101 6.705452919 888.731463 71.80536652
12 06 2018 23:40 628.1151733 6.473062038 795.494009 72.92017365
12 06 2018 23:50 594.949585 6.491024017 802.4843077 67.43203735
13 06 2018 00:00 589.6945801 6.400755882 767.7139809 65.22792053
13 06 2018 00:10 669.6920776 6.531401157 818.3286644 69.57723999
13 06 2018 00:20 831.7559204 7.069096088 1047.398955 66.79799652
13 06 2018 00:30 812.3101196 7.012022972 1021.410292 64.8744278
                 858.2009277 7.033577919 1031.17622 64.26531982
13 06 2018 00:40
                 789.8092041 6.930682182 985.0871956 61.79080963
13 06 2018 00:50
13 06 2018 01:00 832.074585 7.02483511 1027.207932 61.28470993
                 966.1116943 7.37149477 1192.399908 67.51389313
13 06 2018 01:10
13 06 2018 01:20
                 985.7567749 7.435348034 1224.678731 69.45220947
13 06 2018 01:30 956.2371826 7.481283188 1248.278746 61.46356964
13 06 2018 01:40
                 1082.467041 7.526072979 1271.412611 57.15084076
13 06 2018 01:50
                 1075.437988 7.602449894 1311.22422 59.42324066
13 06 2018 02:00
                 1087.287964 7.900630951 1473.615929 64.39797211
13 06 2018 02:10 1098.041016 7.832235813 1435.438733 62.71094131
13 06 2018 02:20 1201.839966 8.051903725 1559.858495 61.65021896
13 06 2018 02:30 1193.02002 8.025336266 1544.538978 56.05049896
13 06 2018 02:40 1014.403992 7.462852001 1238.770785 60.17052078
```

```
13 06 2018 02:50 957.9552002 7.478335857 1246.754831 64.06980896
                 761.5778198 6.899340153 971.3115906 63.31705093
13 06 2018 03:00
                 797.7783203 7.154565811 1087.113953 64.36158752
13 06 2018 03:10
13 06 2018 03:20 907.7772217 7.324011803 1168.785122 63.31529999
13 06 2018 03:30 675.3154907 6.616133213 852.1719022 62.16487885
13 06 2018 03:40
                 704.5921021 6.783703804 921.5212412 62.86130905
13 06 2018 03:50
                 707.0690918 6.830992222 941.6877829 65.99588776
                 1072.355957 7.57363987 1296.116709 66.01994324
13 06 2018 04:00
13 06 2018 04:10
                 1145.128052 7.738070011 1383.759107 66.29769897
                 1172.967041 7.713432789 1370.41239 65.42626953
13 06 2018 04:20
13 06 2018 04:30
                 1167.384033 7.583481789 1301.265474 66.06244659
13 06 2018 04:40
                 1225.635986 7.703021049 1364.794308 64.78614044
13 06 2018 04:50
                 1231.093018 7.813879967 1425.283263 66.38733673
13 06 2018 05:00 999.7313843 7.434114933 1224.049614 65.79521942
                 780.2799072 6.878262997 962.1155767 65.61766815
13 06 2018 05:10
13 06 2018 05:20
                 764.515625 6.826653004 939.8261382 67.05937958
13 06 2018 05:30 891.3192139 7.243519783 1129.491149 69.14463043
13 06 2018 05:40 903.9827271 7.36132288 1187.313497 70.42826843
13 06 2018 05:50 909.5811768 7.424681187 1219.244174 71.60604095
13 06 2018 06:00
                 758.3082275 6.876280785 961.2535267 72.47676086
                 705.1359863 6.762475014 912.5545235 70.76496124
13 06 2018 06:10
                 738.6348877 6.925557137 982.8263077 74.82736206
13 06 2018 06:20
                 732.5952148 7.036647797 1032.57194 75.32218933
13 06 2018 06:30
13 06 2018 06:40
                 582.3599854 6.185747147 688.4642513 76.71907043
13 06 2018 06:50 416.3082886 5.692900181 526.2410814 75.97556305
13 06 2018 07:00 331.5025024 5.339250088 423.9238669 73.61092377
13 06 2018 07:10 201.9407959 4.621601105 248.1917448 72.20783234
13 06 2018 07:20 221.2873993 4.620120049 247.8671689 72.30068207
13 06 2018 07:30 305.0317078 5.159245014 376.106013 74.44184875
13 06 2018 07:40 289.332489 5.14607811 372.7136593 73.32810211
13 06 2018 07:50 401.5827942 5.95522213 609.9884899 74.19608307
13 06 2018 08:00 434.4122009 5.935863972 603.5647633 75.7854538
13 06 2018 08:10 337.2088928 5.31743288 417.9820175 75.81001282
13 06 2018 08:20 315.5766907 5.325135231 420.0750284 75.41445923
13 06 2018 08:30 307.2255859 4.952169895 324.3356827 76.29213715
13 06 2018 08:40
                 532.6558838 6.09883213 657.8380522 73.2565918
13 06 2018 08:50
                 455.6539001 5.808096886 562.1520418 75.00100708
                 320.7709045 5.211277008 389.6499263 75.7438736
13 06 2018 09:00
13 06 2018 09:10 320.0827026 5.174273014 379.9950492 77.81162262
                 335.273407 5.440165997 451.9511306 76.72879028
13 06 2018 09:20
13 06 2018 09:30 266.9537048 5.031643867 343.8116682 75.62280273
13 06 2018 09:40 126.0886002 4.192138195 159.5235382 72.28238678
13 06 2018 09:50
                 150.4008942 4.147100925 150.8046687 76.13049316
13 06 2018 10:00
                 152.8088989 4.309008121 182.6303673 76.06591797
13 06 2018 10:10
                 100.4567032 3.944997072 117.6814636 70.44896698
13 06 2018 10:20
                 103.0503006 4.012473106 125.3192648 70.77905273
                 76.70517731 3.806740046 93.88204154 67.95527649
13 06 2018 10:30
                 154.8786011 4.454572201 212.4455817 57.39929962
13 06 2018 10:40
13 06 2018 10:50
                 137.453598 4.168241978 154.8849324 44.64524841
13 06 2018 11:00
                 267.7337952 4.984127045 332.1096949 40.13832092
13 06 2018 11:10
                 307.1091003 5.197176933 385.9577369 46.17316818
13 06 2018 11:20
                 483.7059937 5.657763958 515.5493993 52.24575043
13 06 2018 11:30
                 439.2832947 5.612960815 502.0897591 50.00651169
13 06 2018 11:40
                 404.9692078 5.535249233 479.1973599 45.25019836
13 06 2018 11:50
                 342.8082886 5.255463123 401.3273149 37.56927109
13 06 2018 12:00 403.0646057 5.405878067 442.3271251 41.81335068
13 06 2018 12:10 533.7404175 6.024713039 632.3585336 47.10937119
13 06 2018 12:20 503.6530151 5.901230812 592.1711529 37.08745956
13 06 2018 12:30 434.6794128 5.630311012 507.279129 37.77643967
```

```
13 06 2018 12:40 367.7119141 5.421802998 446.7838769 35.96670914
13 06 2018 12:50
                 343.681488 5.484262943 464.4842271 33.58036041
13 06 2018 13:00
                  345,2207947 5,355408192 428,3511069 34,50310898
13 06 2018 13:10
                 321.2685852 5.244264126 398.3522344 33.00365829
13 06 2018 13:20
                 346.0925903 5.422626019 447.0148233 34.97084045
13 06 2018 13:30
                  338.9429016 5.366939068 431.5244501 38.69412994
                  306.7630005 5.174451828 380.0414344 46.53398132
13 06 2018 13:40
                  437.3710022 5.55657196 485.4220187 53.72177887
13 06 2018 13:50
13 06 2018 14:00
                 374.3637085 5.416004181 445.1583989 48.83208084
                  618.8502808 6.31236887 734.5311719 56.20349884
13 06 2018 14:10
13 06 2018 14:20
                  1076.213989 7.645806789 1334.161899 55.21936035
13 06 2018 14:30
                 948.8079834 7.195481777 1106.471799 53.96667099
13 06 2018 14:40
                 1222.250977 7.892350197 1468.965854 57.44490051
13 06 2018 14:50
                 1155.151001 7.725709915 1377.054052 62.49942017
13 06 2018 15:00 1153.004028 7.808287144 1422.196748 60.56977844
13 06 2018 15:10 1215.165039 7.951731205 1502.477436 64.29769135
13 06 2018 15:20
                 1272.192017 8.080246925 1576.280269 65.00134277
13 06 2018 15:30
                 1284.82605 8.026599884 1545.265987 64.92635345
                 1447.123047 8.364498138 1745.122453 65.08467102
13 06 2018 15:40
13 06 2018 15:50
                  1393.515991 8.208057404 1651.297816 64.29933929
13 06 2018 16:00
                  1398.917969 8.245617867 1673.631313 63.79301071
13 06 2018 16:10
                  1362.48999 8.200389862 1646.7543
                                                      64.60877991
13 06 2018 16:20
                  1435.650024 8.331829071 1725.358066 64.83846283
13 06 2018 16:30
                  1397.777954 8.184975624 1637.636614 69.40103149
13 06 2018 16:40
                 1325.853027 8.308617592 1711.36895 75.05116272
13 06 2018 16:50 1358.626953 8.457035065 1801.566112 75.45731354
13 06 2018 17:00 1135.395996 8.20690155 1650.612556 76.46713257
13 06 2018 17:10 765.8029175 7.412161827 1212.887565 73.02204895
13 06 2018 17:20 704.1245728 6.853915215 951.5600261 69.11920166
13 06 2018 17:30 571.7081909 6.444111824 784.3023754 61.43202972
13 06 2018 17:40 427.3862915 5.939850807 604.8844833 60.81492996
13 06 2018 17:50
                 356.4284973 5.825024128 567.5416073 67.20597076
13 06 2018 18:00
                  371.0043945 5.786314964 555.2596872 65.10370636
13 06 2018 18:10
                  350.9790955 5.791324139 556.8404557 65.91490936
                  299.7124939 5.43488884 450.4630639 64.63552856
13 06 2018 18:20
                  224.0317993 4.905140877 313.033251 65.71166992
13 06 2018 18:30
                  157.6163025 4.429300785 207.1831344 69.68495941
13 06 2018 18:40
13 06 2018 18:50
                  87.71676636 4.032679081 129.0910747 72.94299316
13 06 2018 19:00
                  0
                        2.532705069 0
                                          78.93636322
13 06 2018 19:10
                  25.40731049 4.046300888 131.6441931 93.36109924
13 06 2018 19:20
                 8.526592255 2.553711891 0
                                                90.69071198
13 06 2018 19:30
                                          92.75718689
                 0
                        1.163581014 0
13 06 2018 19:40
                        1.603644013 0
                  0
                                          88.15046692
13 06 2018 19:50
                 0
                        1.639605045 0
                                          109.8497009
13 06 2018 20:00
                 0
                                          120.5907974
                        1.856439948 0
13 06 2018 20:10
                  0
                        2.375650883 0
                                          144.6083984
13 06 2018 20:20
                  0
                        2.806932926 0
                                          183.1707001
13 06 2018 20:30
                  0
                        3.262748003 29.93085714 187.6555939
13 06 2018 20:40
                  0
                        2.399044991 0
                                          197.3441925
13 06 2018 20:50
                  0
                        2.931252003 0
                                          173.9315948
13 06 2018 21:00
                  0
                        2.683821917 0
                                          171.3439026
13 06 2018 21:10
                        2.800153971 0
                                          169.8950043
13 06 2018 21:20
                        2.349714994 0
                                          170.8222046
13 06 2018 21:30
                        2.706136942 0
                                          167.2429962
                  0
13 06 2018 21:40
                                          166.8097992
                  0
                        1.712018013 0
13 06 2018 21:50
                  0
                        1.522606015 0
                                          163.8265076
13 06 2018 22:00
                  0
                       1.367102981 0
                                          170.8139038
13 06 2018 22:10 0
                     1.634999037 0
                                          176.930603
13 06 2018 22:20 0
                       1.190227032 0
                                          234.115799
```

13	06	2018	22:30	0	0.992838085 0	247.5366974
13	06	2018	22:40	0	0.473160297 0	211.2263031
13	06	2018	22:50	ō	0.31464681 0	211.376297
13	06		23:00			
		2018		0	0.402837008 0	105.6023026
13	06	2018	23:10	0	0.930332184 0	158.6788025
13	06	2018	23:20	0	0.58351481 0	277.2681885
13	06	2018	23:30	0	0.359051913 0	258.2876892
13	06	2018	23:40	0	0.941838026 0	277.3804016
13	06	2018	23:50	0	0.760739684 0	278.0856018
_						
14	06	2018	00:00	0	0.562115371 0	334.4400024
14	06	2018	00:10	0	0.791614592 0	257.0737915
14	06	2018	00:20	0	1.48553896 0	274.6770935
14	06	2018	00:30	0	1.706750989 0	250.2478943
14	06	2018	00:40	0	1.432134032 0	263.0237122
14	06	2018	00:50	ō	1.974378943 0	254.1544037
14	06	2018	01:00	0	1.741639018 0	245.8032074
14	06	2018	01:10	0	1.431795001 0	231.3807983
14	06	2018	01:20	0	1.357427955 0	265.2450867
14	06	2018	01:30	0	1.537114024 0	253.8549042
14	06	2018	01:40	0	1.887699008 0	251.8887024
14	06	2018	01:50	0	1.051275969 0	236.7153931
14	06	2018	02:00	0	1.438225985 0	253.779007
14	06	2018	02:10	0	1.422647953 0	239.1360016
14	06	2018	02:20	0	1.364688993 0	229.1983032
14	06	2018	02:30	0	0.884619117 0	235.887207
14	06	2018	02:40	0	1.164227962 0	240.7174072
14	06	2018	02:50	0	1.421782017 0	279.8067017
14	06	2018	03:00	0	1.143280029 0	308.9934998
14	06	2018	03:10	0	0.875279307 0	24.55941963
14	06	2018	03:20	0	1.160374045 0	18.12472916
14	06	2018	03:30	0	0.96569252 0	24.9921608
14	06	2018	03:40	0	0.530468225 0	35.86824036
14	06	2018	03:50	0	0.495774209 0	291.0421143
14	06	2018	04:00	0	0.984181583 0	331.0137939
14	06	2018	04:10	0	0.81671083 0	354.0867004
14	06	2018	04:20	0	1.110422969 0	35.77742004
14	06	2018	04:30	0	0.937624574 0	31.4957695
14	06	2018	04:40	0	1.83970201 0	38.37480927
14	06	2018	04:50	0	1.831990004 0	35.61972046
14	06	2018	05:00	0	2.280056953 0	59.49496078
14	06	2018	05:10	0	1.141355038 0	89.40254211
14	06	2018	05:20	0	1.399253964 0	131.6515045
14					1.235187054 0	144.7619019
	06	2018	05:30	0		
14	06	2018	05:40	0	2.077418089 0	142.4781036
14	06	2018	05:50	0	2.067576885 0	149.6024017
14	06	2018	06:00	0	1.74376905 0	155.3329926
14	06	2018	06:10	0	1.271975994 0	159.8946991
14	06	2018	06:20	0	1.173768997 0	209.8703003
14	06	2018	06:30	0	0.804329574 0	273.9335938
						15.83263969
14	06	2018	06:40	0	0.842530191 0	
14	06	2018	06:50	0	0.562264979 0	91.2624588
14	06	2018	07:00	0	0.634279191 0	190.4376984
14	06	2018	07:10	0	1.264951944 0	252.8170929
14	06	2018	07:20	0	1.66829896 0	231.4472046
14	06	2018	07:30	0	0.762446523 0	307.9111938
14	06	2018	07:40	0	1.350715041 0	174.2583008
14	06	2018	07:50		1.31596899 0	151.5646973
				0		
14	06	2018	08:00	0	1.013623953 0	65.55718231
14	06	2018	08:10	0	0.580306172 0	18.02773094

```
14 06 2018 08:20
                         0.694625497 0
                                           153.7774963
                  0
14 06 2018 08:30
                  0
                         1.233160019 0
                                           186.3448029
14 06 2018 08:40
                         1.500797987 0
                                           174.418396
                  0
14 06 2018 08:50
                  0
                         2.356920958 0
                                           150.1103058
14 06 2018 09:00
                  0
                         2.050415039 0
                                           182.6835022
14 06 2018 09:10
                         1.961959004 0
                                           189.2971954
14 06 2018 09:20
                  0
                         2.08225894
                                     0
                                           206.25
14 06 2018 09:30
                  0
                         1.179566979 0
                                           49.72748184
14 06 2018 09:40
                  0
                         1.111389995 0
                                           319.8051147
14 06 2018 09:50
                  0
                         1.155220032 0
                                           319.7990112
14 06 2018 10:00
                  Θ
                         1.058841944 0
                                           278.0451965
14 06 2018 10:10
                         1.424590945 0
                                           254.6473999
14 06 2018 10:20
                         2.188610077 0
                                           260.7962952
14 06 2018 10:30
                         1.782592058 0
                                           272.7149048
14 06 2018 10:40
                         0.972586513 0
                                           286.2164001
                  0
14 06 2018 10:50
                  0
                         0.850002527 0
                                           225.1246948
14 06 2018 11:00
                  0
                         1.064726949 0
                                           283.2466125
14 06 2018 11:10
                  0
                                           245.7064056
                         1.306081057 0
14 06 2018 11:20
                  0
                         1.185945988 0
                                           263.1199951
14 06 2018 11:30
                  0
                         1.143159986 0
                                           256.186615
14 06 2018 11:40
                                           270.5891113
                         1.346140981 0
                  0
14 06 2018 11:50
                  0
                         2.22201395
                                     0
                                           237.5695953
14 06 2018 12:00
                  0
                         2.479890108 0
                                           240.3592987
14 06 2018 12:10
                  Θ
                         1.709588051 0
                                           249.1903076
14 06 2018 12:20
                         1.901944995 0
                                           269.0794983
14 06 2018 12:30
                         1.561800957 0
                                           279.9382935
14 06 2018 12:40
                         1.774960995 0
                                           263.7279968
14 06 2018 12:50
                         2.33474803
                                           247.2790985
                  0
                                     0
14 06 2018 13:00
                  0
                         2.001899958 0
                                           253.3316956
14 06 2018 13:10
                  0
                         1.332432985 0
                                           249.0480042
14 06 2018 13:20
                  0
                         1.001750946 0
                                           270.8449097
14 06 2018 13:30
                  0
                         0.990070581 0
                                           61.84289169
14 06 2018 13:40
                                           87.22477722
                  0
                         1.122187018 0
14 06 2018 13:50
                         1.139853001 0
                                           190.222702
                  0
14 06 2018 14:00
                         1.050541997 0
                                           213.9716034
                  0
14 06 2018 14:10
                  0
                         1.777194023 0
                                           222.824295
14 06 2018 14:20
                  0
                         2.359369993 0
                                           238.2328033
14 06 2018 14:30
                  0
                         3.243765116 28.55419824 252.0895996
14 06 2018 14:40
                         1.789932966 0
                                           258.6794128
14 06 2018 14:50
                         1.349311948 0
                                           244.5516052
14 06 2018 15:00
                         1.777485013 0
                                           245.5787964
                  0
14 06 2018 15:10
                  0
                         2.361953974 0
                                           269.0115051
14 06 2018 15:20
                         3.054774046 17.99278516 268.6279907
                  0
14 06 2018 15:30
                  0
                         2.955612898 0
                                           276.3203125
                  0
14 06 2018 15:40
                         1.894703984 0
                                           281.2007141
14 06 2018 15:50
                  0
                         3.452603102 46.87126467 282.6272888
14 06 2018 16:00
                  70.4961319 4.030537128 128.6903737 272.7521057
14 06 2018 16:10
                  0.568468273 2.635997057 0
                                                  297.5220032
14 06 2018 16:20
                  0
                         1.704606056 0
                                           322.1794128
14 06 2018 16:30
                  0
                         2.052366972 0
                                           295.3508911
14 06 2018 16:40
                  0
                         2.415482998 0
                                           296.3713989
14 06 2018 16:50
                         1.543429971 0
                                           284.2915955
14 06 2018 17:00
                         2.43087697 0
                                           279.2138977
14 06 2018 17:10
                         2.441998959 0
                                           259.4077148
                  0
14 06 2018 17:20
                                           246.4687958
                  0
                         2.864208937 0
14 06 2018 17:30
                  0
                         3.318866014 34.33775528 247.1714935
14 06 2018 17:40
                  0
                         3.224801064 27.23647549 256.4367065
14 06 2018 17:50
                  55.19422913 4.114626884 144.5794133 266.0859985
                  98.73963165 4.096479893 141.1226098 260.7850037
14 06 2018 18:00
```

```
14 06 2018 18:10 11.85097027 3.15585804 22.93079556 266.0664063
14 06 2018 18:20
                 2.034465075 2.786418915 0 282.7016907
14 06 2018 18:30 0
                       3.001974106 16.06348315 235.6999054
14 06 2018 18:40 140.4989929 4.66742897 258.3047719 193.0231934
14 06 2018 18:50
                 391.802887 5.54357481 481.6227565 179.9674072
14 06 2018 19:00
                 401.8139954 5.725768089 536.3522247 178.846405
                 261.8876953 4.966528893 327.819233 175.6398926
14 06 2018 19:10
                 1.58960402 2.485579014 0
                                               185.1136932
14 06 2018 19:20
14 06 2018 19:30
                 316.7244873 5.198337078 386.2609087 161.5791016
                 395.9122925 5.816853046 564.9363142 165.9797974
14 06 2018 19:40
14 06 2018 19:50
                 564.1134033 6.272099972 719.6936957 178.2059021
14 06 2018 20:00 300.5010986 5.438569069 451.5005602 173.3865051
14 06 2018 20:10 444.4054871 5.925045967 599.9922725 180.8486938
14 06 2018 20:20 805.5911865 7.035822868 1032.196768 188.1213989
14 06 2018 20:30 1268.645996 8.05851841 1563.683797 189.1452942
14 06 2018 20:40 1485.079956 8.675406456 1937.209973 188.5059052
14 06 2018 20:50 1694.609985 9.257843971 2311.359961 178.0845947
14 06 2018 21:00 1659.128052 8.936619759 2103.215141 174.2445984
14 06 2018 21:10 1389.979004 8.338218689 1729.216828 176.6502075
14 06 2018 21:20 1290.890991 8.112483025 1595.054003 174.4044952
14 06 2018 21:30 1169.578979 7.999382019 1529.642827 174.951004
14 06 2018 21:40 1296.953003 8.331535339 1725.18076 173.5997009
14 06 2018 21:50 1432.901978 8.706085205 1956.513902 168.905304
14 06 2018 22:00
                 1472.119019 8.636088371 1912.553817 164.0299988
14 06 2018 22:10 1420.784058 8.585840225 1881.186429 163.4709015
14 06 2018 22:20 1370.197998 8.067155838 1568.685462 173.3244934
14 06 2018 22:30 1244.483032 7.88519001 1464.951165 180.9595947
14 06 2018 22:40 1027.258057 7.372635841 1192.971442 185.3643036
14 06 2018 22:50 903.2213745 7.088452816 1056.309031 188.9508057
14 06 2018 23:00 836.4962158 6.958981991 997.6303413 188.3746948
14 06 2018 23:10 1032.475952 7.453810215 1234.125433 190.7057953
14 06 2018 23:20 1057.974976 7.68642807 1355.868472 190.9340057
14 06 2018 23:30
                 1212.258057 8.114073753 1595.983037 188.3437958
14 06 2018 23:40 1184.776978 7.96629715 1510.755894 189.8569946
14 06 2018 23:50 1235.531982 7.978188038 1517.530708 192.5881042
                 1371.266968 8.234597206 1667.065353 193.7006989
15 06 2018 00:00
                 1531.012939 8.543357849 1854.797495 197.6380005
15 06 2018 00:10
                 1701.900024 9.043539047 2172.095895 199.0113983
15 06 2018 00:20
15 06 2018 00:30 1830.014038 9.33276844 2360.335784 201.3874969
15 06 2018 00:40 1798.66394 9.290299416 2332.560471 201.6564026
15 06 2018 00:50 1807.274048 9.320275307 2352.161385 201.3889008
15 06 2018 01:00 1667.223022 8.995099068 2140.831938 202.4263
15 06 2018 01:10 1421.343018 8.423556328 1781.068924 202.1257935
15 06 2018 01:20
                 1289.896973 8.170026779 1628.815126 201.3890991
15 06 2018 01:30
                 1324.369019 8.169016838 1628.219896 197.8309021
15 06 2018 01:40 1136.401001 7.756350994 1393.709888 200.0579987
15 06 2018 01:50
                 1152.98999 7.780800819 1407.080923 199.8804932
                 1333.541992 8.198031425 1645.35785 199.1013947
15 06 2018 02:00
15 06 2018 02:10 1257.886963 7.998336792 1529.044391 199.0299988
15 06 2018 02:20
                 1230.328003 7.920605183 1484.863573 198.4015045
15 06 2018 02:30
                 1166.859009 7.834879875 1436.904769 196.2108002
15 06 2018 02:40 944.0479736 7.331264019 1172.370744 195.6044006
15 06 2018 02:50 918.0100098 7.286156178 1150.190883 196.6118927
15 06 2018 03:00 954.9180908 7.317100048 1165.374868 197.9555054
15 06 2018 03:10 966.065979 7.329379082 1171.43807 198.2763062
15 06 2018 03:20 964.6381836 7.370109081 1191.706109 197.826004
15 06 2018 03:30 1071.850952 7.514082909 1265.2332
                                                     200.9384003
15 06 2018 03:40 1172.68396 7.897936821 1472.102202 201.8961945
15 06 2018 03:50 1136.855957 7.784574032 1409.150713 199.5027008
```

```
1079.612061 7.724833965 1376.579574 199.4353943
15 06 2018 04:00
                  1036.133057 7.628667831 1325.065897 196.4976044
15 06 2018 04:10
15 06 2018 04:20
                  780,9938965 6,869038105 958,1078075 198,5462036
15 06 2018 04:30
                  771.5751953 6.940749168 989.5376878 199.4512939
15 06 2018 04:40
                  966.2307739 7.394382954 1203.900637 200.0305023
15 06 2018 04:50
                  877.4321289 7.115357876 1068.775326 199.3692932
15 06 2018 05:00
                  828.0980225 7.068767071 1047.247928 197.8013
                  778.2526855 7.010611057 1020.772666 195.8477936
15 06 2018 05:10
15 06 2018 05:20
                  856.8967896 7.219390869 1117.889052 196.7727966
                  908.6704712 7.343910217 1178.641404 196.8518066
15 06 2018 05:30
15 06 2018 05:40
                  1108.322998 7.999436855 1529.674226 194.7667999
15 06 2018 05:50
                  1149.802979 8.011350632 1536.503439 190.5050964
15 06 2018 06:00
                 1054.373047 7.635488987 1328.681549 186.4232941
15 06 2018 06:10
                 992.8706055 7.452548981 1233.478443 183.8130951
15 06 2018 06:20
                 1028.605957 7.443419933 1228.802605 182.2978973
15 06 2018 06:30 998.9746704 7.300453186 1157.189396 182.9987946
15 06 2018 06:40 947.0117188 7.111674786 1067.063148 180.3435059
15 06 2018 06:50 876.8798828 6.986321926 1009.843296 182.2893982
15 06 2018 07:00
                 737.6212158 6.763393879 912.9415357 179.2523956
15 06 2018 07:10
                  661.2479248 6.502499104 806.9688005 176.1753998
15 06 2018 07:20
                  582.0515137 6.281075954 722.9858395 178.5850067
15 06 2018 07:30
                  549.6853027 6.044525146 639.1117478 187.4696045
15 06 2018 07:40
                  863.0250244 7.05384016 1040.410896 189.0664978
15 06 2018 07:50
                  932.8477783 7.13893795 1079.779786 188.8309021
15 06 2018 08:00
                  895.576416 7.098474979 1060.941599 192.1161957
15 06 2018 08:10
                  752.8408203 6.706274986 889.0722155 189.914505
15 06 2018 08:20
                 919.6499023 7.159310818 1089.347274 194.3784027
                 767.6483154 6.795608044 926.5727814 183.2129059
15 06 2018 08:30
                 663.5427246 6.299210072 729.6634344 181.2749939
15 06 2018 08:40
                  513.177124 5.863553047 579.9187069 180.4302063
15 06 2018 08:50
15 06 2018 09:00
                  725.2260742 6.726274014 897.3861713 195.4470978
15 06 2018 09:10
                 627.6923828 6.417593956 774.1319254 191.9707947
15 06 2018 09:20
                  627.8303223 6.113583088 662.9789413 190.0695953
15 06 2018 09:30
                  413.1521912 5.512632847 472.6413153 186.4934998
                  259.1695862 4.936692238 320.5979337 199.872406
15 06 2018 09:40
15 06 2018 09:50
                  314.5321045 5.307618141 415.3223979 187.8885956
15 06 2018 10:00
                  193.6045074 4.32542181 185.9333579 207.2201996
                  228.6459045 4.80407095 289.2850033 211.8065033
15 06 2018 10:10
15 06 2018 10:20
                  65.87941742 3.601294994 64.16589344 216.8551025
                  5.359530926 2.371421099 0
15 06 2018 10:30
                                                215.6443024
15 06 2018 10:40
                        2.126817942 0
                                          270.5159912
                  0
15 06 2018 10:50
                  0
                        1.781929016 0
                                          315.4921875
                                          311.9507141
15 06 2018 11:00
                  0
                        2.26294589 0
15 06 2018 11:10
                  0
                        1.732365966 0
                                          287.3938904
15 06 2018 11:20
                  0
                        1.730067968 0
                                          335.3547974
15 06 2018 11:30
                  0
                        1.575652003 0
                                          337.3956909
15 06 2018 11:40
                  0
                        1.076383948 0
                                          329.7041016
15 06 2018 11:50
                  0
                        2.198168993 0
                                          310.8981018
15 06 2018 12:00
                  0
                        1.068735957 0
                                          337.4819946
15 06 2018 12:10
                  0
                        0.762660027 0
                                          338.0961914
15 06 2018 12:20
                  0
                        1.553701043 0
                                          305.6852112
15 06 2018 12:30
                  0
                        2.041887045 0
                                          306.9718018
15 06 2018 12:40
                        1.924139977 0
                                          13.62829018
15 06 2018 12:50
                                          29.69783974
                  0
                        2.572952986 0
                        4.073138237 136.699053 61.90520096
15 06 2018 13:00
                  0
15 06 2018 13:10
                  0
                        3.040967941 17.4452439 52.82712173
15 06 2018 13:20
                 42.03961182 4.034676075 129.464844 55.71828079
15 06 2018 13:30
                 169.4039001 4.625496864 249.0461765 72.03671265
15 06 2018 13:40 47.06097031 3.282423019 31.41855757 91.47180939
```

```
15 06 2018 13:50 161.3088989 4.51764822 225.7446049 111.5513
                 1626.25 8.529232979 1846.050931 136.7344055
15 06 2018 14:00
                 2673.083984 10.84599018 3215.311873 145.5776062
15 06 2018 14:10
15 06 2018 14:20 3057.711914 12.13741016 3541.719263 143.2272949
15 06 2018 14:30 3185.051025 12.95353031 3597.718907 138.6826019
15 06 2018 14:40 1782.63501 9.461302757 2444.584355 134.4288025
15 06 2018 14:50 874.3242188 7.324569225 1169.060453 135.9452972
                 356.5062866 5.566154957 488.2334184 143.9019012
15 06 2018 15:00
15 06 2018 15:10
                  102.9054031 4.190915108 159.2854274 143.9528961
                  1.02579999 2.332485914 0
15 06 2018 15:20
                                                176.1071014
15 06 2018 15:30 0
                        1.215847015 0
                                          334.2333069
15 06 2018 15:40 0
                        2.244473934 0
                                          187.8612976
15 06 2018 15:50 0
                        3.555614948 58.476316
                                                184.2205963
                        0.884856284 0
15 06 2018 16:00 0
                                          197.0839996
15 06 2018 16:10 0
                        2.277673006 0
                                          201.7794037
15 06 2018 16:20 0
                        2.001817942 0
                                          223.4942932
15 06 2018 16:30 0
                        1.980525017 0
                                          208.3977051
15 06 2018 16:40 0
                        1.692957997 0
                                          42.25304031
15 06 2018 16:50 0
                        1.446418047 0
                                          71.27327728
                        3.568545103 60.05292604 64.10160065
15 06 2018 17:00 0
15 06 2018 17:10 86.07736206 4.188663006 158.847184 49.77320099
15 06 2018 17:20
                  135.8271942 4.355200768 191.9634169 64.700737
15 06 2018 17:30
                  46.64825058 3.892399073 108.2668587 73.29350281
15 06 2018 17:40
                 0.153733298 2.799141884 0
                                                73.82855988
15 06 2018 17:50 0
                        3.478178978 49.59413809 67.17645264
15 06 2018 18:00 0
                        2.206615925 0
                                          60.13434982
15 06 2018 18:10 0
                        2.578758955 0
                                          54.69755936
15 06 2018 18:20 0
                        2.113370895 0
                                          37.5488205
15 06 2018 18:30 0
                        1.774737
                                 0
                                          86.25302887
15 06 2018 18:40 0
                        2.024586916 0
                                          154.4571075
                        1.271293998 0
15 06 2018 18:50 0
                                          124.5817032
15 06 2018 19:00 0
                        1.42880702 0
                                          108.2897034
15 06 2018 19:10 0
                        2.653115034 0
                                          162.3648987
15 06 2018 19:20 0
                        3.112185001 20.59675801 160.9640961
15 06 2018 19:30 0
                        2.338304043 0
                                          192.8901062
15 06 2018 19:40 0
                        6.179391861 686.1974602 241.5431061
15 06 2018 19:50 838.444397 8.356450081 1740.245397 231.5247955
15 06 2018 20:00 652.734375 6.622901917 854.9104188 196.3153992
15 06 2018 20:10 1597.734985 8.421365738 1779.730725 159.8365021
15 06 2018 20:20 3541.853027 16.83865929 3600 180.6378937
15 06 2018 20:30 3604.48999 17.06652069 3600 174.7091064
15 06 2018 20:40 3604.468994 16.24143982 3600 164.3616943
15 06 2018 20:50 3603.650879 14.80445004 3600 157.1434937
15 06 2018 21:00 3329.676025 12.25386047 3556.022077 145.5254974
15 06 2018 21:10 2574.766113 10.65003014 3134.358434 141.7545013
15 06 2018 21:20 1710.401001 8.353581429 1738.508288 154.3865967
15 06 2018 21:30 971.8718872 6.459984779 790.4271353 163.093399
15 06 2018 21:40 311.6176147 5.163633823 377.2398772 140.2711029
15 06 2018 21:50 328.1507874 5.259654045 402.4433704 142.5639954
15 06 2018 22:00 356.1827087 5.281929016 408.4001734 156.8815002
15 06 2018 22:10 453.3304138 5.693128109 526.3108324 152.2904968
15 06 2018 22:20 1842.991943 9.228667259 2292.322249 149.8941956
15 06 2018 22:30 1702.994019 9.007058144 2148.542008 147.9214935
15 06 2018 22:40 1716.395996 9.109874725 2215.050253 149.6295929
15 06 2018 22:50 1961.152954 9.513165474 2450.287977 154.3437042
15 06 2018 23:00 1973.29895 9.659748077 2561.732433 148.6623993 15 06 2018 23:10 1517.69104 8.919503212 2092.232862 140.9210968
15 06 2018 23:20 1966.114014 9.786456108 2652.015986 134.8692017
15 06 2018 23:30 2700.207031 11.13860989 3319.216543 125.7406998
```

```
15 06 2018 23:40 2913.608887 11.56243992 3436.869573 127.9318008
15 06 2018 23:50
                 3376.865967 12.73666954 3592.602509 140.946701
16 06 2018 00:00
                 3225.687988 12.35151005 3566.329357 145.5713959
16 06 2018 00:10
                 2550.123047 11.04240036 3287.207688 141.4120026
16 06 2018 00:20
                 2254.143066 10.15054989 2882.212648 146.1087036
16 06 2018 00:30
                 1950.128052 9.312092781 2346.809107 146.3253021
                 1585.212036 8.487688065 1820.406789 146.5027008
16 06 2018 00:40
16 06 2018 00:50
                 1410.27002 8.162674904 1624.484318 146.6898041
                 2074.385986 9.48426342 2459.6562
16 06 2018 01:00
                                                      155,4308929
                 1413.005005 7.972858906 1514.492594 166.1363068
16 06 2018 01:10
16 06 2018 01:20
                 1109.329956 7.511781216 1264.049179 175.4156036
16 06 2018 01:30
                 894.8735962 7.100530148 1061.893195 178.9586945
16 06 2018 01:40
                 754.7932129 6.681137085 878.6878037 182.9756012
16 06 2018 01:50
                 897.468689 7.149931908 1084.935844 183.9582062
16 06 2018 02:00
                977.119873 7.480989933 1248.127059 178.6981964
16 06 2018 02:10
                 1349.868042 8.411588669 1773.762572 170.4615021
16 06 2018 02:20
                 1343.406982 8.330322266 1724.448581 166.4781036
16 06 2018 02:30
                 1318.666016 7.993391991 1526.21483 169.0077972
16 06 2018 02:40
                 877.5408936 6.922326088 981.4026195 171.3394928
16 06 2018 02:50
                 400.3450012 5.577902794 491.6917211 173.0068054
                  203.5953979 4.746621132 276.1057456 179.7108002
16 06 2018 03:00
                  74.32396698 3.91829896 112.8474051 180.8139038
16 06 2018 03:10
16 06 2018 03:20
                  -0.734467685
                                    2.387998104 0
                                                      194.5868988
16 06 2018 03:30
                 0
                        2.833372116 0
                                          90.51561737
16 06 2018 03:40
                  0
                        2.517904043 0
                                          51.77246857
16 06 2018 03:50
                        2.81410408 0
                                          44.21183014
16 06 2018 04:00
                 19.58008957 3.280736923 31.28863915 28.18774986
16 06 2018 04:10
                 0
                        2.57553196 0
                                         19.86346054
16 06 2018 04:20
                 0
                        2.080060959 0
                                          11.26902008
16 06 2018 04:30
                 0
                        2.688906908 0
                                         13.7608099
16 06 2018 04:40 0
                        2.294471025 0
                                          359.4754028
16 06 2018 04:50 0
                        1.507923961 0
                                          12.91926956
16 06 2018 05:00
                        3.22864604 27.49899421 37.87992859
16 06 2018 05:10 4.413472176 3.309494972 33.56681014 23.18470001
                 61.13481903 3.89466691 108.6636515 26.71739006
16 06 2018 05:20
16 06 2018 05:30
                 148.9485016 4.521697044 226.6064085 31.14204025
16 06 2018 05:40
                 298.9110107 5.296520233 412.3250226 41.44179916
16 06 2018 05:50
                 170.5536957 4.566899776 236.2959876 52.9958992
16 06 2018 06:00
                 305.5997925 5.242284775 397.8275025 55.77573013
16 06 2018 06:10
                 434.3038025 5.800632
                                         559.7845353 58.31639099
16 06 2018 06:20
                 580.6047974 6.282156944 723.3829025 57.64822006
16 06 2018 06:30 999.0073242 7.475933075 1245.513461 72.52436829
16 06 2018 06:40
                 1108.329956 7.799139977 1417.156539 70.5424881
16 06 2018 06:50
                 1568.915039 8.561606407 1866.117998 68.97168732
16 06 2018 07:00
                 1414.593994 8.413847923 1775.141016 73.17843628
16 06 2018 07:10
                 705.1171265 6.544002056 823.3105753 76.83963776
16 06 2018 07:20
                 635.1743164 6.587638855 840.7005149 70.38789368
16 06 2018 07:30
                 589.5872192 6.074080944 649.2641913 76.89192963
                 1209.503052 8.28269577 1695.80005 71.97586823
16 06 2018 07:40
16 06 2018 07:50
                 1120.672974 7.912916183 1480.528658 71.8001709
16 06 2018 08:00
                 898.4379272 7.173141003 1095.874008 81.12631226
16 06 2018 08:10
                 587.8203735 6.20511198 695.3979369 74.03227997
16 06 2018 08:20
                 156.1441956 4.13093996 147.7002687 82.39347076
16 06 2018 08:30
                 231.2938995 4.564627171 235.8058291 74.6869812
16 06 2018 08:40
                 62.4933815 3.43148303 44.70166541 77.81347656
16 06 2018 08:50 435.1362915 5.766759872 549.1128561 64.99276733
16 06 2018 09:00 495.9855957 5.771668911 550.6523104 59.14466095
16 06 2018 09:10 648.263916 6.437121868 781.6140121 63.51786041
16 06 2018 09:20 703.989502 6.384726048 761.6328847 65.29572296
```

```
16 06 2018 09:30 452.9664917 5.505256176 470.5132043 69.40323639
16 06 2018 09:40 348.0393066 5.38253212 435.834285 75.63408661
16 06 2018 09:50 369.9530029 5.187664986 383.4762252 81.1870575
16 06 2018 10:00 667.0136719 6.377061844 758.7352859 72.337677
16 06 2018 10:10 308.8609924 4.40115881 201.3663019 85.71304321
16 06 2018 10:20 389.973999 5.014563084 339.585342 83.24590302
16 06 2018 10:30 632.3098145 6.357299805 751.2933672 70.17765045
16 06 2018 10:40 454.204895 5.679172993 522.0496542 66.06725311
16 06 2018 10:50 188.846405 4.435945988 208.563318 44.13169861
16 06 2018 11:00 202.4118958 4.615681171 246.8952201 41.7813797
16 06 2018 11:10 226.1096954 4.703918934 266.4551769 45.20085907
16 06 2018 11:20 398.5780029 5.578218937 491.7849666 47.67029953
16 06 2018 11:30 410.3374939 5.7415061 541.2315859 46.56735992
16 06 2018 11:40 378.1564941 5.467774868 459.7773591 46.71154022
16 06 2018 11:50 414.4451904 5.703148842 529.3824408 51.34263992
16 06 2018 12:00 346.5740967 5.338263988 423.6544162 59.16371918
16 06 2018 12:10 238.4371948 4.804339886 289.3472349 57.65493011
16 06 2018 12:20 169.9398956 4.355353832 191.9945377 53.53396988
16 06 2018 12:30 108.6175003 4.080915928 138.1702049 47.65814972
16 06 2018 12:40 418.5723877 5.623367786 505.1989745 44.81739044
16 06 2018 12:50 440.6980896 5.87547493 583.7795957 55.06900024
16 06 2018 13:00 485.7650146 6.106856823 660.6318721 56.0675087
16 06 2018 13:10 392.0602112 5.577545166 491.5862512 51.68157959
16 06 2018 13:20 364.9664001 5.591310024 495.6544502 56.98181915
16 06 2018 13:30 379.3187866 5.589673996 495.1699825 68.2906723
16 06 2018 13:40 594.572876 6.435030937 780.8108753 66.31136322
16 06 2018 13:50 111.4327011 4.218237877 164.622603 48.41115189
16 06 2018 14:00 78.28752136 3.884407997 106.8752563 43.39907074
16 06 2018 14:10 51.59975052 3.4614079 47.7968328 54.034729
16 06 2018 14:20 192.1492004 4.712656975 268.4199947 68.71513367
16 06 2018 14:30 156.028595 4.615460873 246.8470155 75.4982605
16 06 2018 14:40 37.93445969 3.354767084 37.42132141 106.7614975
16 06 2018 14:50 2292.077881 12.68974972 3590.595372 143.9673004
16 06 2018 15:00 3603.194092 18.18005943 3600 151.9555054
16 06 2018 15:10 3603.676025 17.65321922 3600 157.0966034
16 06 2018 15:20 3618.73291 17.91427994 3600 156.2810974
16 06 2018 15:40 0 0 0
                                   0
16 06 2018 15:50 0
                       17.41128922 3600 0
16 06 2018 16:00 1148.36499 17.39706039 3600 154.1999969
16 06 2018 16:10 3482.437012 15.3305397 3600 144.4154053
16 06 2018 16:20 3602.768066 15.60416985 3600 141.8943024
16 06 2018 16:30 3602.896973 15.48029995 3600 138.0511017
16 06 2018 16:40 3602.698975 15.58444023 3600 136.4427032
16 06 2018 16:50 3570.019043 12.86260033 3596.399477 129.2503052
16 06 2018 17:00 1879.509033 12.05609989 3530.405376 126.0957031
16 06 2018 17:10 2741.906982 11.09189987 3303.932997 128.8000946
16 06 2018 17:20 2546.085938 10.01226997 2799.707558 142.9141998
16 06 2018 17:30 2847.298096 11.03979969 3286.313746 150.8544006
16 06 2018 17:40 1735.740967 9.066596031 2187.008373 146.9468994
16 06 2018 17:50 592.7869263 5.956552982 610.4315786 136.5912018
16 06 2018 18:00 9.812464714 3.352539063 37.22395325 5.382730007
16 06 2018 18:10 111.7996979 4.238666058 168.637834 325.7507019
16 06 2018 18:20 147.7702942 4.484582901 218.7435324 274.781189
16 06 2018 18:30 3.800551891 1.956117988 0
                                              272.6205139
16 06 2018 18:40 21.14834023 3.254735947 29.34278249 284.5003967
16 06 2018 18:50 26.09676933 3.310493946 33.64832552 331.9190063
16 06 2018 19:00 0 2.615104914 0
                                        331.5761108
16 06 2018 19:10 7.660558224 3.6222229 66.88403983 312.1824951
16 06 2018 19:20 0.154133201 2.734646082 0 326.1358948
```

```
16 06 2018 19:30 0
                       2.27696991 0
                                         26.40914917
                       3,210093021 26,2541029 47,6801796
16 06 2018 19:40 0
16 06 2018 19:50 53.9224205 3.929075003 114.7848289 64.90457916
16 06 2018 20:00 6.298222065 2.431977987 0
                                            90.70008087
16 06 2018 20:10 0
                       1.282407045 0
                                      99.17304993
16 06 2018 20:20 0
                       1.997009039 0
                                         114.7350998
16 06 2018 20:30 0
                       1.786605954 0
                                         117.2218018
16 06 2018 20:40 0
                       1.310258031 0
                                         108.4552002
16 06 2018 20:50 0
                       0.762146175 0
                                         178.4196014
16 06 2018 21:00 0
                                         236.4674072
                       0.916666389 0
16 06 2018 21:10 0
                       1.531857967 0
                                         39.64300919
16 06 2018 21:20 0
                       2.18657589 0
                                         279.6285095
16 06 2018 21:30 0
                       2.001527071 0
                                         263.0163879
16 06 2018 21:40 0
                       2.687952042 0
                                         261.1239014
16 06 2018 21:50 0
                       2.332314968 0
                                         250.3401947
16 06 2018 22:00 0
                       1.067916989 0
                                         225.5578003
16 06 2018 22:10 0
                       0.968505621 0
                                         251.2017975
16 06 2018 22:20 0
                       1.886029005 0
                                         289.1693115
16 06 2018 22:30 0
                       1.728970051 0
                                         281.626709
16 06 2018 22:40 0
                       1.275303006 0
                                         287.7622986
16 06 2018 22:50 0
                       2.373050928 0
                                         321.5935974
16 06 2018 23:00 0
                       2.084419966 0
                                         326.9389954
16 06 2018 23:10 0
                       2.468748093 0
                                         309.7261047
16 06 2018 23:20 0
                      2.23683691 0
                                         286.2138977
16 06 2018 23:30 0
                       2.826960087 0
                                         270.1557007
16 06 2018 23:40 0
                       3.098639965 19.9348663 272.0848999
16 06 2018 23:50 0
                       3.495249987 51.46980351 264.2849121
17 06 2018 00:00 8.487272263 4.212348938 163.4690741 251.7527008
17 06 2018 00:10 32.17737961 3.457890034 47.42554372 239.8276062
17 06 2018 00:20 154.8937988 4.493473053 220.6194425 258.5614929
17 06 2018 00:30 134.9181061 4.239293098 168.7614206 286.0020142
17 06 2018 00:40 0.462265998 2.89248395 0
                                              302.2668152
17 06 2018 00:50 0
                       2.010998964 0
                                         319.6669006
17 06 2018 01:00 0
                       3.322007895 34.59937935 268.189209
17 06 2018 01:10 2.120068073 3.02017498 16.67816175 255.7243042
17 06 2018 01:20 -0.628802896
                                   2.935404062 0
                                                     253.0713043
17 06 2018 01:30 0
                       2.62364006 0
                                         253.6282043
17 06 2018 01:40 18.07811928 3.706513882 78.54139341 258.9119873
17 06 2018 01:50 152.6307983 4.50440979 222.9336874 252.7041931
17 06 2018 02:00 138.4105072 4.407677174 202.7095896 268.0284119
17 06 2018 02:10 114.7310028 4.208457947 162.7078712 269.7170105
17 06 2018 02:20 89.39916229 4.024116039 127.4903982 276.3518066
17 06 2018 02:30 163.3426056 4.572752953 237.5598868 266.0288086
17 06 2018 02:40 212.2449036 4.858622074 302.0122148 266.6513977
17 06 2018 02:50 144.4210052 4.421822071 205.6328825 252.3694
17 06 2018 03:00 164.7371979 4.445143223 210.4777731 251.9073944
17 06 2018 03:10 149.8970032 4.49718523 221.404146 232.9533997
17 06 2018 03:20 105.9298019 3.960237026 120.4919966 233.9638977
17 06 2018 03:30 41.95949936 3.531300068 55.58398315 244.9902039
17 06 2018 03:40 62.81996918 3.653634071 71.09529022 238.0688934
17 06 2018 03:50 35.33721924 3.364500046 38.29282413 222.5422058
17 06 2018 04:00 10.15530014 2.996073008 0
                                               244.8650055
17 06 2018 04:10 24.22168922 3.332290888 35.46668714 254.1822052
17 06 2018 04:20 67.27754974 3.991611004 126.3949428 253.1018982
17 06 2018 04:30 249.2917023 4.980351925 331.1873499 258.8258057
17 06 2018 04:40 285.6965027 5.270780087 405.4134603 252.5462952
17 06 2018 04:50 262.6029968 5.040834904 346.0951092 253.1824036
17 06 2018 05:00 45.63896942 3.45459199 47.07925382 263.5848083
17 06 2018 05:10 73.88651276 3.774178028 88.72182644 262.1747131
```

```
17 06 2018 05:20 95.4620285 3.938421965 116.4803656 254.9398041
                  9.645407677 3.006280899 16.20414474 255.1322937
17 06 2018 05:30
17 06 2018 05:40
                        3.153938055 22.82177174 263.2980042
                  0
17 06 2018 05:50
                  0
                        2.141916037 0
                                          284,5257874
17 06 2018 06:00
                  0
                        2.857332945 0
                                          313.2127075
17 06 2018 06:10
                  95.23396301 4.825592995 294.2811948 286.5407104
17 06 2018 06:20
                  496.0975952 6.136481762 671.0054737 260.4833984
17 06 2018 06:30
                  608.8353882 6.37976408 759.7561875 253.2153015
17 06 2018 06:40
                  264.5570984 4.823628902 293.8238969 288.221405
                  21.95097923 3.333210945 35.54511296 307.4523926
17 06 2018 06:50
17 06 2018 07:00
                                          319.6311035
                  0
                        2.779177904 0
17 06 2018 07:10
                  0
                        1.884745955 0
                                          327.8692017
17 06 2018 07:20
                        1.655491948 0
                                          309.3370972
17 06 2018 07:30
                  0
                        1.573922038 0
                                          322.8039856
17 06 2018 07:40 0
                        2.292267084 0
                                          345.6813049
17 06 2018 07:50
                  0
                        2.672131062 0
                                          356.6976013
17 06 2018 08:00
                  0
                        2.436999083 0
                                          346.243988
17 06 2018 08:10
                        3.311475992 33.72861525 2.281337023
                  0
                  57.91329956 4.056706905 133.6002617 2.571451902
17 06 2018 08:20
17 06 2018 08:30
                  221.4414978 4.937125206 320.7022511 359.7647095
                  68.93054199 3.68464303 75.40746327 2.110203981
17 06 2018 08:40
17 06 2018 08:50
                  0
                        2.497009993 0
                                          358.9348145
17 06 2018 09:00
                  0
                        2.804240942 0
                                          346.5964966
17 06 2018 09:10
                  0
                        2.144068003 0
                                          339.2213135
17 06 2018 09:20
                  0
                        1.534631968 0
                                          351.5275879
17 06 2018 09:30 0
                        2.165143013 0
                                          345.3218079
17 06 2018 09:40 0
                        2.590754032 0
                                          15.92722034
17 06 2018 09:50 0
                        2.752373934 0
                                          19.10045052
17 06 2018 10:00 64.49703979 4.13468504
                                          148.4185449 8.401299477
                  150.9819031 4.378449917 196.7053161 359.0586853
17 06 2018 10:10
                  125.0353012 4.013717175 125.5509662 341.626709
17 06 2018 10:20
17 06 2018 10:30
                  168.5108032 4.322043896 185.2524136 331.8995972
17 06 2018 10:40
                  28.55661964 3.23989296 28.28046527 327.8261108
17 06 2018 10:50
                  12.70917034 2.948082924 0
                                                334.8529053
                  123.6791992 3.964276075 121.2431024 338.3634949
17 06 2018 11:00
                  123.1957016 4.380095005 197.0419928 12.89004993
17 06 2018 11:10
                        5.31159687 416.3995643 24.8380909
17 06 2018 11:20
                        4.147646904 150.9097684 38.01776886
17 06 2018 11:30
                  0
17 06 2018 11:40
                        2.887851
                                    0
                                          34.40024185
17 06 2018 11:50
                        2.465837955 0
                                          43.32003021
17 06 2018 12:00
                        2.258193016 0
                                          36.58678818
                  0
17 06 2018 12:10
                                          45.97536087
                  0
                        2.442373991 0
17 06 2018 12:20
                                          29.05703926
                  0
                        1.972162008 0
17 06 2018 12:30
                  0
                        1.972712994 0
                                          86.35652924
17 06 2018 12:40
                  0
                        1.677117944 0
                                          83.92664337
17 06 2018 12:50
                  0
                        0.621661425 0
                                          350.269989
17 06 2018 13:00
                  0
                        1.548400044 0
                                          206.6217041
17 06 2018 13:10
                  0
                        1.328850985 0
                                          179.9866943
17 06 2018 13:20
                  0
                        1.137230992 0
                                          322.5993042
17 06 2018 13:30
                  0
                        1.689815044 0
                                          276.2395935
17 06 2018 13:40
                  0
                        1.50238502 0
                                          305.5911865
17 06 2018 13:50
                        2.086154938 0
                                          322.3518982
17 06 2018 14:00
                        1.473701954 0
                                          332.8163147
17 06 2018 14:10
                        2.128633976 0
                                          357.3493042
                  0
17 06 2018 14:20
                        1.782209039 0
                                          332.2242126
                  0
17 06 2018 14:30
                  0
                        2.719657898 0
                                          315.4359131
17 06 2018 14:40
                  0
                        2.170274019 0
                                          291.9760132
17 06 2018 14:50
                  0
                        2.379434109 0
                                          316.0109863
17 06 2018 15:00 0
                        2.909746885 0
                                          295.9216919
```

```
17 06 2018 15:10 0
                        2.217680931 0
                                          341.885498
17 06 2018 15:20
                 0
                        1.529571056 0
                                          325.0054932
17 06 2018 15:30
                                          316.3283081
                 0
                        1.493324041 0
17 06 2018 15:40 0
                        1.784144998 0
                                          332.874115
17 06 2018 15:50 0
                        1.887119055 0
                                          322.4118958
17 06 2018 16:00
                 0
                        2.390850067 0
                                          333.7554932
17 06 2018 16:10
                 0
                        2.457672119 0
                                          338.512207
17 06 2018 16:20
                  0
                        3.428066969 44.3574494 342.2134094
17 06 2018 16:30
                  75.27194977 4.093272209 140.5131994 334.9623108
17 06 2018 16:40
                  33.67776871 3.573307037 60.64030192 347.1933899
17 06 2018 16:50
                  35.45555115 3.695739031 76.98787291 340.5415955
17 06 2018 17:00
                  55.47177887 3.862215042 103.0640637 340.9963074
17 06 2018 17:10
                  1.47013402 2.936350107 0
                                                356.8364868
17 06 2018 17:20
                        2.535742044 0
                                          350.9478149
17 06 2018 17:30
                        3.302484989 32.99929315 352.4926147
                  0
17 06 2018 17:40
                  62.3670311 4.005715847 124.0619582 356.7930908
17 06 2018 17:50
                  67.06359863 3.906630993 110.7705724 358.8785095
17 06 2018 18:00
                  10.90592003 3.281426907 31.34174931 10.84803963
                        3.194242954 25.23420056 31.36763954
17 06 2018 18:10
                        3.233966112 27.86612692 26.90313911
17 06 2018 18:20
                  0
17 06 2018 18:30
                        3.171334028 23.83111684 20.8440609
                 0
17 06 2018 18:40
                        2.642060995 0
                                          15.44960022
                 0
17 06 2018 18:50
                  0
                        3.016046047 16.53407156 19.62776947
17 06 2018 19:00
                 0
                        2.64497304 0
                                          359.3597107
17 06 2018 19:10
                  0
                        2.936805964 0
                                          352.5990906
17 06 2018 19:20
                        2.716305971 0
                                          355.6412048
17 06 2018 19:30
                        2.647495985 0
                                          350.9176025
                  0
17 06 2018 19:40
                 4.656146049 3.624916077 67.23892268 316.9801025
17 06 2018 19:50
                  2.347470045 3.21517396
                                          26.58955335 327.3523865
17 06 2018 20:00
                                          322.401886
                  0
                        2.947020054 0
17 06 2018 20:10
                        3.391139984 40.75571847 322.6123962
                  0
17 06 2018 20:20
                        2.641613007 0
                                          333.5422974
                  0
17 06 2018 20:30
                        2.008819103 0
                                          327.9385986
17 06 2018 20:40
                        2.570497036 0
                                          316.9002075
                 0
17 06 2018 20:50
                        2.714936972 0
                                          316.1017151
                 0
17 06 2018 21:00
                  0
                        2.677566051 0
                                          317.1242981
17 06 2018 21:10
                  0
                        2.957751036 0
                                          334.4161987
17 06 2018 21:20
                  0
                        2.498562098 0
                                          337.8096924
17 06 2018 21:30
                        2.511707067 0
                                          340.4946899
17 06 2018 21:40
                        2.902448893 0
                                          344.0296936
17 06 2018 21:50
                        2.72659111 0
                                          343.134491
17 06 2018 22:00
                        2.869184017 0
                                          330.8471069
                  0
17 06 2018 22:10
                        2.282985926 0
                                          325.6954041
                  0
                        1.771687031 0
17 06 2018 22:20
                  0
                                          340.4277039
17 06 2018 22:30
                        1.22556603 0
                 0
                                          359.3020935
17 06 2018 22:40
                  0
                        1.237177014 0
                                          334.8125916
17 06 2018 22:50
                  0
                        1.587586045 0
                                          346.7709045
17 06 2018 23:00
                        1.697679996 0
                  0
                                          329.7637024
17 06 2018 23:10
                  0
                        2.464061975 0
                                          344.2167053
17 06 2018 23:20
                  0
                        3.090085983 19.53199022 340.3638916
17 06 2018 23:30
                  0
                        2.839744091 0
                                          335.4030151
17 06 2018 23:40
                        2.640621901 0
                                          330.2251892
17 06 2018 23:50
                        3.309642076 33.57880369 332.7756042
18 06 2018 00:00
                        3.305421114 33.2360402 341.0056152
                  0
18 06 2018 00:10
                        2.997031927 0
                                          346.3753052
                  0
18 06 2018 00:20
                  0
                        2.9155581
                                          350.9036865
                                    0
18 06 2018 00:30
                  0
                        2.613667965 0
                                          349.5773926
18 06 2018 00:40 0
                        2.266927004 0
                                          355.9674072
18 06 2018 00:50 0
                        2.502229929 0
                                          355.6803894
```

```
18 06 2018 01:00
                         3.277779102 31.06182965 355.3537903
                  0
18 06 2018 01:10
                         3.072418928 18.73696579 356.7897034
                   0
18 06 2018 01:20
                         3.285164118 31.6307377 350.0823059
                   0
18 06 2018 01:30
                  0
                         2.869004011 0
                                            357.129303
18 06 2018 01:40
                   0
                         2.695077896 0
                                            1.19511497
18 06 2018 01:50
                         2.215449095 0
                                            3.916984081
18 06 2018 02:00
                   0
                         2.105195045 0
                                            359.5798035
18 06 2018 02:10
                   0
                         1.530581951 0
                                            334.1895142
18 06 2018 02:20
                   0
                         1.328533053 0
                                            310.7531128
18 06 2018 02:30
                   0
                         1.335651994 0
                                            271.5109863
18 06 2018 02:40
                  0
                         1.395007014 0
                                            292.0210876
18 06 2018 02:50
                         1.782266021 0
                                            338.3016968
18 06 2018 03:00
                         1.643051982 0
                                            294.2941895
18 06 2018 03:10
                         1.915667057 0
                   0
                                            306.3540039
18 06 2018 03:20
                                            335.9689026
                   0
                         1.734668016 0
18 06 2018 03:30
                   0
                         2.020008087 0
                                            324.4085083
18 06 2018 03:40
                  0
                         1.569780946 0
                                            316.5625
18 06 2018 03:50
                  0
                         1.360831976 0
                                            326.4776917
18 06 2018 04:00
                   0
                         1.168079019 0
                                            330.6022034
18 06 2018 04:10
                   0
                         1.172562957 0
                                            331.1997986
18 06 2018 04:20
                                            328.1932068
                         1.442734957 0
                   0
18 06 2018 04:30
                   0
                         1.450598001 0
                                            330.3316956
18 06 2018 04:40
                   0
                         1.20878005
                                            334.6271057
                         1.995054007 0
18 06 2018 04:50
                   0
                                            288.085907
18 06 2018 05:00
                   0
                         1.621397972 0
                                            302.6299133
18 06 2018 05:10
                         1.962275028 0
                                            289.8045959
18 06 2018 05:20
                         2.070504904 0
                                            289.3537903
18 06 2018 05:30
                         1.386644959 0
                                            318.0310059
                   0
18 06 2018 05:40
                   0
                         1.645051956 0
                                            321.9353027
18 06 2018 05:50
                   0
                         2.097615004 0
                                            327.7502136
18 06 2018 06:00
                  0
                         2.160516024 0
                                            313.667511
18 06 2018 06:10
                   0
                         2.851893902 0
                                            293.5458069
18 06 2018 06:20
                         2.680419922 0
                                            289.8294067
18 06 2018 06:30
                         3.277093887 31.00948619 289.3323059
                   0
18 06 2018 06:40
                         2.290394068 0
                                            302.438385
                   0
18 06 2018 06:50
                   0
                         2.196923971 0
                                            301.6225891
18 06 2018 07:00
                   0
                         2.142911911 0
                                            293.6908875
18 06 2018 07:10
                   0
                         2.205264091 0
                                            315.2367859
18 06 2018 07:20
                         3.232611895 27.77224411 322.1459961
18 06 2018 07:30
                         1.868136048 0
                                            307.5169067
18 06 2018 07:40
                         2.626383066 0
                                            329.7156982
                   0
18 06 2018 07:50
                   0
                         1.769636035 0
                                            321.6362
18 06 2018 08:00
                                            325.8435974
                   0
                         2.185715914 0
18 06 2018 08:10
                  0
                         2.353198051 0
                                            316.5407104
18 06 2018 08:20
                   0
                         2.287751913 0
                                            306.7638855
18 06 2018 08:30
                         1.845556021 0
                                            311.0014954
18 06 2018 08:40
                   0
                         1.68166697
                                     0
                                            312.0542908
18 06 2018 08:50
                   0
                         2.143752098 0
                                            311.2518005
18 06 2018 09:00
                   0
                         2.445125103 0
                                            323.1474915
18 06 2018 09:10
                   0
                         1.822190046 0
                                            316.2915039
18 06 2018 09:20
                   0
                         3.097490072 19.88002745 336.2886047
18 06 2018 09:30
                         2.937227964 0
                                            345.6568909
18 06 2018 09:40
                         3.433012009 44.85633625 343.0331116
18 06 2018 09:50
                         2.41950798
                   0
                                     0
                                            356.7206116
18 06 2018 10:00
                         2.415250063 0
                   0
                                            2.490488052
18 06 2018 10:10
                   0
                         2.977610111 0
                                            340.8352966
18 06 2018 10:20
                  0
                         2.066236019 0
                                            351.0195007
                         3.004110098 16.13287456 348.9653931
18 06 2018 10:30
                  0
18 06 2018 10:40
                         2.931534052 0
                                            344.821991
```

```
18 06 2018 10:50 0
                       2.724939108 0
                                         345.9789124
18 06 2018 11:00 0
                       2.753647089 0
                                         341.6246033
18 06 2018 11:10 0
                       2.408960104 0
                                         356.2131042
18 06 2018 11:20 0
                       3.024815083 16.84334571 1.247637033
18 06 2018 11:30 0
                       2.76762104 0
                                         335.2575989
18 06 2018 11:40 50.71620178 4.335192204 187.9064436 323.6300964
18 06 2018 11:50 42.47468185 3.516134977 53.82794446 336.7138977
                 102.1966019 3.835824013 98.63451083 333.4442139
18 06 2018 12:00
                 110.8963013 4.12066412 145.732911 323.3200989
18 06 2018 12:10
                 66.13699341 3.645121098 69.93837356 325.8947144
18 06 2018 12:20
18 06 2018 12:30
                 84.68982697 3.788172007 90.91871317 331.7939148
18 06 2018 12:40
                 145.8280029 4.328674793 186.5897045 336.4602966
18 06 2018 12:50 82.15602875 3.632823944 68.28765775 335.1925049
18 06 2018 13:00 26.53430939 3.362449884 38.1079898 356.3803101
18 06 2018 13:10 4.120196819 3.030550957 17.05229949 2.306179047
18 06 2018 13:20 87.22853088 3.849831104 100.9716278 14.08216953
18 06 2018 13:30 223.7185059 4.767099857 280.7776449 18.63207054
18 06 2018 13:40 131.5868988 4.191627026 159.4240146 16.12430954
18 06 2018 13:50 113.7654037 4.048070908 131.9765635 14.82021999
18 06 2018 14:00 267.6184082 4.87093401 304.9139224 14.60962963
18 06 2018 14:10 390.1319885 5.438775063 451.558668 11.95271969
18 06 2018 14:20 436.1075134 5.784009933 554.533131 14.0942297
                 341.6802063 5.35343504 427.8092529 7.638506889
18 06 2018 14:30
18 06 2018 14:40 409.6488037 5.555679798 485.1607205 4.676546097
18 06 2018 14:50
                 366.541687 5.380673885 435.3195553 12.44775009
18 06 2018 15:00 424.4385071 5.629090786 506.91322
18 06 2018 15:10 355.8580933 5.334299088 422.5718626 11.13516998
18 06 2018 15:20 290.6126099 5.091316223 358.7539011 6.764027119
18 06 2018 15:30 288.9653931 5.073215008 354.1918908 1.209404945
18 06 2018 15:40 295.3814087 5.104255199 362.0307213 2.603104115
18 06 2018 15:50 216.0702972 4.759444237 279.0277855 353.2442017
18 06 2018 16:00 208.7404022 4.73226881 272.8484754 355.3692017
18 06 2018 16:10 100.1866989 4.037557125 130.0043956 2.354074001
18 06 2018 16:20 99.13291931 4.083943844 138.7436971 6.098052979
                 187.9734039 4.695930004 264.6632483 1.932865024
18 06 2018 16:30
18 06 2018 16:40
                 189.1820984 4.687991142 262.88674
                                                     3.443499088
18 06 2018 16:50
                 380.0664063 5.529729843 477.5930175 6.929321766
18 06 2018 17:00
                 362.663208 5.462314129 458.2239349 8.251205444
18 06 2018 17:10 513.8428955 6.046675205 639.8471468 8.408026695
18 06 2018 17:20 560.6829834 6.183537006 687.6754523 2.661737919
18 06 2018 17:30 642.3096924 6.435066223 780.8244248 356.825592
18 06 2018 17:40 590.1016846 6.279481888 722.4005457 358.9555969
18 06 2018 17:50 498.9462891 5.888381004 587.9758811 358.0990906
18 06 2018 18:00
                 348.7159119 5.528748035 477.3079285 1.767323971
18 06 2018 18:10
                 321.8526001 5.411971092 444.0296469 1.135442019
18 06 2018 18:20
                 593.2241211 6.321817875 738.0381171 3.237751961
18 06 2018 18:30
                 468.7987061 5.859800816 578.7066009 11.13177967
                 563.4224243 6.137764931 671.4569134 13.37234974
18 06 2018 18:40
18 06 2018 18:50
                 357.2948914 5.236122131 396.1958672 18.79277992
18 06 2018 19:00
                 659.5391235 6.393877983 765.1013384 18.51556969
18 06 2018 19:10
                 768.0233154 6.711954117 891.4283989 15.83903027
18 06 2018 19:20 911.1577148 7.157769203 1088.621354 10.8810997
18 06 2018 19:30
                 872.1143188 6.972017765 1003.44179 13.69398975
18 06 2018 19:40
                 707.3712769 6.531736851 818.4611546 20.61167908
18 06 2018 19:50
                 756.1317749 6.732309818 899.9045265 21.56543922
18 06 2018 20:00 630.7689819 6.308756828 733.1931333 22.35444069
18 06 2018 20:10 515.7285156 5.875001907 583.6261266 18.10700035
18 06 2018 20:20 529.5900879 6.070582867 648.0577289 20.53199959
18 06 2018 20:30 432.1462097 5.69506216 526.9028994 24.33110046
```

```
18 06 2018 20:40 395.8190002 5.603180885 499.1773196 30.15325928
18 06 2018 20:50 395.5053101 5.666162968 518.0942039 29.92085075
18 06 2018 21:00
                 270.1539001 5.050037861 348.3880553 33.32373047
18 06 2018 21:10 232.4506989 4.83777523 297.1236518 29.37380981
18 06 2018 21:20
                 121.3593979 4.131844044 147.8736026 28.66308022
18 06 2018 21:30
                 35.36426926 3.614614964 65.8878031 26.03786087
18 06 2018 21:40 0.354866594 2.962940931 0
                                               18.99276924
18 06 2018 21:50
                 0
                       3.373425961 39.10538658 11.79568005
18 06 2018 22:00
                 0
                       3.016585112 16.55272885 15.46148968
18 06 2018 22:10
                 0
                       2.937119007 0
                                         10.71905041
18 06 2018 22:20 0
                       3.160674095 23.20686423 10.41003036
18 06 2018 22:30 0
                       3.222630978 27.08935546 1.911592007
18 06 2018 22:40 0
                       3.570276022 60.266012
                                               3.167395115
18 06 2018 22:50 16.88402939 3.240773916 28.34253162 0.99573952
18 06 2018 23:00 56.34360886 3.757173061 86.09442155 351.1149902
18 06 2018 23:10 92.66162872 3.94182992 117.1020453 354.5078125
18 06 2018 23:20
                 180.3361969 4.390676975 199.2112925 18.85368919
18 06 2018 23:30 160.8694
                            4.413484097 203.9083066 356.7546997
18 06 2018 23:40 289.3930054 5.098639965 360.6070253 356.2479858
18 06 2018 23:50
                 188.8692932 4.586918831 240.6276305 354.9844055
19 06 2018 00:00
                 108.2385025 4.075028896 137.0564132 14.55663013
                 197.4062958 4.61312294 246.3356329 20.5384407
19 06 2018 00:10
19 06 2018 00:20
                 82.2080307 3.886082888 107.1660831 27.94327927
19 06 2018 00:30
                 168.0348053 4.476200104 216.9789878 29.32525063
19 06 2018 00:40
                 332.6205139 5.099090099 360.721061 36.65869904
19 06 2018 00:50
                 368.6737061 5.684357166 523.6304087 28.08279991
19 06 2018 01:00 265.5141907 5.107573986 362.873348 30.55237007
19 06 2018 01:10 308.4342041 5.27716589 407.1228778 21.98000908
19 06 2018 01:20 534.953125 6.062099934 645.137454 26.22979927
                 375.7757874 5.434288979 450.294072 32.97883987
19 06 2018 01:30
19 06 2018 01:40 439.1752014 5.686779022 524.3697808 13.38047028
19 06 2018 01:50 478.637207 5.842844963 573.2473984 4.251256943
19 06 2018 02:00
                 850,2550049 6,64030695 861,9762006 358,2036133
19 06 2018 02:10 960.503418 7.078402042 1051.676461 4.021337986
19 06 2018 02:20 597.755188 6.051423073 641.4728416 10.0291996
                 787.5689697 6.302877903 731.0183683 13.57301044
19 06 2018 02:30
19 06 2018 02:40
                 429.6000061 5.311833858 416.4637673 25.21096992
19 06 2018 02:50
                 348.6122131 5.253359795 400.7677492 24.98085976
19 06 2018 03:00 425.184906 5.455954075 456.4180942 18.7496109
19 06 2018 03:10 319.5342102 5.276677132 406.9919198 44.05599976
19 06 2018 03:20 234.8721924 4.652582169 255.0135833 37.19863129
19 06 2018 03:30 150.6069031 4.255190849 171.9015935 47.22822952
19 06 2018 03:40 240.8421021 4.708315849 267.443222 42.05947113
19 06 2018 03:50 244.7503052 4.913380146 315.0016313 42.49126816
19 06 2018 04:00
                 189.6829987 4.615603924 246.8783168 43.67385101
19 06 2018 04:10
                 207.6735992 4.733005047 273.015226 43.13954926
19 06 2018 04:20
                 349.2284851 5.246338844 398.9026011 26.04011917
                 364.6907043 5.375609875 433.918373 36.18835831
19 06 2018 04:30
19 06 2018 04:40 202.019104 4.57234621 237.4719884 44.53850174
19 06 2018 04:50
                 340.1463928 5.138157845 370.6798045 33.22245026
19 06 2018 05:00
                 480.2659912 5.612854004 502.0579016 25.70157051
19 06 2018 05:10 497.3883972 5.913813114 596.2958621 31.8468399
19 06 2018 05:20
                 620.5366211 6.247876167 710.8523558 32.42111969
19 06 2018 05:30 570.6068726 6.041839123 638.1937232 32.43947983
19 06 2018 05:40 595.9780273 6.101231098 658.6725388 31.18329048
19 06 2018 05:50 434.8904114 5.391629219 438.3585761 41.25078964
19 06 2018 06:00 399.2421875 5.515867233 473.5759951 37.85218048
19 06 2018 06:10 320.3739014 5.196833134 385.8679156 38.65129089
19 06 2018 06:20 411.9728088 5.522996902 475.6397613 37.37031937
```

```
19 06 2018 06:30 337.160614 5.180219173 381.5389131 33.16807175
19 06 2018 06:40 495.4371948 5.79601717 558.3237642 35.84975815
19 06 2018 06:50 446.8157043 5.574808121 490.7794548 36.14537048
19 06 2018 07:00 492.677887 5.770365238 550.2432475 36.65385818
19 06 2018 07:10 345.5646057 5.134058952 369.6292269 36.75767899
19 06 2018 07:20 304.8312988 5.07652092 355.0231511 33.72253036
                 271.0816956 4.867337227 304.0650999 36.63196182
19 06 2018 07:30
19 06 2018 07:40 400.4755859 5.400100231 440.715726 30.64312935
19 06 2018 07:50
                 253.3921967 4.825428009 294.2427709 33.75593948
19 06 2018 08:00
                 274.4932861 4.933084965 319.7293526 25.18494987
19 06 2018 08:10
                 378.490509 5.316792011 417.8081004 26.58972931
19 06 2018 08:20
                 386.0087891 5.459746838 457.49455
                                                     39.79161072
19 06 2018 08:30 382.596405 5.509912014 471.855792 38.37065125
19 06 2018 08:40 410.6290894 5.304782867 414.55563
                                                     30.6071701
19 06 2018 08:50 419.2314148 5.435126781 450.5301054 23.44823074
19 06 2018 09:00 531.746521 5.983561039 619.4644388 20.21771049
19 06 2018 09:10
                 588.6016846 6.036522865 636.3790153 23.99806023
19 06 2018 09:20 671.7119751 6.311220169 734.1054962 25.35261917
19 06 2018 09:30
                 756.1522217 6.586760044 840.3481799 24.07868004
                 684.5991821 6.457355976 789.4108646 21.30431938
19 06 2018 09:40
19 06 2018 09:50
                 742.1124268 6.536554813 820.3640767 18.95878029
                 686.0576782 6.378166199 759.1524137 16.89356041
19 06 2018 10:00
                 1088.839966 7.47149086 1243.220773 12.79846001
19 06 2018 10:10
                 929.7183838 7.09548378 1059.557588 13.74668026
19 06 2018 10:20
19 06 2018 10:30
                 1147.223999 7.437510014 1225.782306 18.77049065
19 06 2018 10:40
                 898.4146118 6.883358002 964.3335588 8.945883751
19 06 2018 10:50
                 710.1942749 6.464677811 792.2433115 10.24129009
19 06 2018 11:00 765.1221924 6.564366817 831.3996098 9.665937424
19 06 2018 11:10 505.2767029 5.718402863 534.0771837 7.202077866
19 06 2018 11:20 809.1068726 6.555632114 827.9244236 8.971357346
19 06 2018 11:30
                 1037.228027 7.275900841 1145.188637 7.185262203
19 06 2018 11:40 1345.44397 8.067353249 1568.799863 9.588412285
19 06 2018 11:50
                 1283.889038 7.789756775 1411.996431 11.48573017
19 06 2018 12:00
                 1685.906006 8.768828392 1996.164037 13.08358955
                 1736.57605 8.900840759 2080.273788 13.97994995
19 06 2018 12:10
19 06 2018 12:20
                 1499.777954 8.323656082 1720.427234 24.36520004
                 1836.637939 8.919850349 2092.455461 26.25222969
19 06 2018 12:30
                 1774.175049 8.799741745 2015.779831 25.22789955
19 06 2018 12:40
19 06 2018 12:50
                 1523.892944 8.259778976 1682.084039 27.43470001
19 06 2018 13:00
                 1556.812988 8.426044464 1782.589338 27.14245033
                 1414.968018 8.054162979 1561.164537 22.30228996
19 06 2018 13:10
19 06 2018 13:20 1488.866943 8.312531471 1713.724611 22.55739021
19 06 2018 13:30
                 1524.936035 8.469320297 1809.108824 23.25387955
19 06 2018 13:40
                 1629.493042 8.454647064 1800.101267 23.48269081
19 06 2018 13:50
                 1758.017944 8.777750015 2001.819881 25.72962952
19 06 2018 14:00
                 2286.620117 10.02639961 2808.407601 26.45554924
                 2265.52002 9.933991432 2750.37201 27.17027092
19 06 2018 14:10
                 2236.591064 9.808522224 2667.182529 28.09528923
19 06 2018 14:20
19 06 2018 14:30 2304.782959 9.94164753 2755.283068 29.54542923
19 06 2018 14:40
                 2784.172119 10.92615986 3245.743592 30.47216988
19 06 2018 14:50
                 2311.162109 9.738809586 2618.709245 29.78175926
19 06 2018 15:00
                 2569.853027 10.47381973 3053.213303 29.82035065
19 06 2018 15:10
                 2921.778076 10.73958015 3172.532183 30.61639977
19 06 2018 15:20
                 2807.313965 10.82363033 3206.55103 32.75342941
19 06 2018 15:30
                 3034.808105 11.22786999 3347.099648 31.8857193
19 06 2018 15:40 3148.376953 11.31459045 3372.563282 31.93313026
19 06 2018 15:50 2842.201904 10.54100037 3085.113066 32.49737167
19 06 2018 16:00 3019.761963 11.00401974 3273.859395 33.34289169
19 06 2018 16:10 3244.500977 11.85851002 3498.213494 33.73052979
```

```
19 06 2018 16:20 3307.481934 11.91932011 3508.843178 35.93215179
19 06 2018 16:30 3506.201904 13.07761002 3600 39.86938095
19 06 2018 16:40 3400.311035 12.04106045 3528.191066 37.45246887
19 06 2018 16:50 3342.782959 12.36170959 3567.318703 36.82532883
19 06 2018 17:00 3374.51709 12.62493992 3587.287269 37.89611816
19 06 2018 17:10 3373.00708 12.25269032 3555.889317 39.58876038
                 2857.819092 11.20818043 3341.096555 40.85039902
19 06 2018 17:20
                            11.24384975 3351.910937 40.25521088
19 06 2018 17:30
                 2995.5979
19 06 2018 17:40
                 2783.008057 10.71341038 3161.584615 39.41543961
19 06 2018 17:50
                 2798.948975 11.06569004 3295.145321 39.91717148
19 06 2018 18:00
                 2884.577881 11.08096981 3300.286966 39.98711014
19 06 2018 18:10 3124.419922 11.93826008 3512.021398 42.05273056
19 06 2018 18:20 2865.446045 11.36857033 3387.622649 42.6013298
19 06 2018 18:30 2563.864014 10.21224022 2917.161417 43.84848022
19 06 2018 18:40 2714.821045 10.85424042 3218.514084 43.85680008
19 06 2018 18:50 2275.783936 9.548701286 2478.011867 46.87028122
19 06 2018 19:00 2244.427002 9.552597046 2481.023403 46.56758118
19 06 2018 19:10 2230.227051 9.633755684 2542.527159 46.91296005
19 06 2018 19:20 2588.052002 10.34270954 2987.426445 43.74168015
19 06 2018 19:30 2457.7229
                            10.30679989 2968.573107 47.68809128
19 06 2018 19:40 2148.038086 9.390757561 2398.314971 47.1386795
19 06 2018 19:50
                 1685.625977 8.625647545 1906.022713 47.9538002
19 06 2018 20:00
                 2057.028076 9.518838882 2454.744963 55.59486008
19 06 2018 20:10
                 1548.244995 8.248818398 1675.540158 55.5443306
19 06 2018 20:20 1117.484985 7.133349895 1077.165236 33.52519989
19 06 2018 20:30 2002.748047 9.269903183 2319.234493 35.67483139
19 06 2018 20:40 1655.003052 8.336417198 1728.128547 44.5215683
19 06 2018 20:50 1823.21106 8.863848686 2056.617035 50.80860901
19 06 2018 21:00 2532.362061 10.39393997 3013.696729 50.31451035
19 06 2018 21:10 2537.996094 10.28180027 2955.231427 49.56803894
19 06 2018 21:20 2821.711914 10.80739021 3200.112318 49.186409
19 06 2018 21:30 2772.190918 10.77171993 3185.744943 50.58382034
19 06 2018 21:40 2769.148926 10.86666012 3223.303924 51.32672882
19 06 2018 21:50 2040.755981 9.250353813 2306.470685 52.64451981
19 06 2018 22:00 2223.245117 9.621102333 2533.092015 54.12604904
19 06 2018 22:10 2058.850098 9.502504349 2441.880893 56.7527504
19 06 2018 22:20
                 1776.303955 8.743868828 1980.364287 54.97591019
19 06 2018 22:30
                 1819.760986 8.926989555 2097.034623 58.42411041
19 06 2018 22:40 1738.635986 8.776593208 2001.086282 57.16999054
19 06 2018 22:50 1717.902954 8.847614288 2046.255853 56.91635895
19 06 2018 23:00 1355.838989 8.068670273 1569.563192 58.12131882
19 06 2018 23:10 1568.598022 8.305529594 1709.511276 58.47225189
19 06 2018 23:20
                 1705.968018 8.677242279 1938.363534 60.85860062
19 06 2018 23:30
                 1908.868042 9.072932243 2191.109782 57.44631958
19 06 2018 23:40
                 1700.599976 8.608259201 1895.161203 59.38896942
19 06 2018 23:50
                 1386.287964 7.951961994 1502.608427 51.78017044
20 06 2018 00:00
                 1977.114014 9.0599823
                                        2182.728857 52.90840912
                 1797.876953 8.730814934 1972.114921 58.06145859
20 06 2018 00:10
20 06 2018 00:20 1647.479004 8.426991463 1783.168141 60.78602982
20 06 2018 00:30
                 1394.469971 7.98679018 1522.441061 58.33932114
20 06 2018 00:40
                 1495.155029 8.286512375 1698.088743 60.45040894
                 1908.438965 9.250486374 2306.557203 56.15134048
20 06 2018 00:50
20 06 2018 01:00
                 2093.143066 9.62625885 2536.943851 57.32820129
20 06 2018 01:10
                 2199.949951 9.976752281 2777.562299 57.63343811
20 06 2018 01:20
                 1592.474976 8.547736168 1857.5115
                                                     55.33689117
20 06 2018 01:30 1690.953003 8.908341408 2085.078357 54.60977936
20 06 2018 01:40 1937.671021 9.275283813 2322.749058 55.05125046
20 06 2018 01:50 1796.672974 9.160391808 2247.859902 50.55183029
20 06 2018 02:00 1481.464966 8.404278755 1769.305275 54.17076111
```

```
1869.740967 9.299625397 2338.656648 48.2641983
20 06 2018 02:10
                 1478.491943 8.329177856 1723.757959 54.65737152
20 06 2018 02:20
20 06 2018 02:30
                 1588.901978 8.644396782 1917.755954 58.32889175
20 06 2018 02:40
                 1865.988037 9.058563232 2181.810834 53.4493103
20 06 2018 02:50
                 1820.550049 9.16759491 2252.54452 51.54999924
20 06 2018 03:00
                 1622.761963 8.674568176 1936.683298 58.38663101
20 06 2018 03:10
                 1534.958984 8.445169449 1794.291739 60.64221954
                 1590.688965 8.581132889 1878.256353 59.96221924
20 06 2018 03:20
20 06 2018 03:30
                 1578.600952 8.438049316 1789.931745 58.13130951
                 1598.79895 8.620871544 1903.037476 54.13335037
20 06 2018 03:40
                 1673.363037 8.70895195 1958.320595 49.88592148
20 06 2018 03:50
20 06 2018 04:00
                 1506.430054 8.450796127 1797.73993 53.0740509
20 06 2018 04:10
                 1152.72998 7.642796993 1332.561835 49.03947067
20 06 2018 04:20
                 886.5170898 7.10320282 1063.131544 51.14250183
20 06 2018 04:30 563.2938843 6.205434799 695.5138645 48.75643921
20 06 2018 04:40 573.8322754 6.207029819 696.0868167 44.15842056
20 06 2018 04:50
                 581.2111816 6.193680763 691.3000685 47.0908699
20 06 2018 05:00 435.0404968 5.56716013 488.52881
                                                    47.69010162
20 06 2018 05:10 296.6257019 5.038942814 345.6245013 54.1354599
                 269.8959045 4.886744022 308.6560512 54.58292007
20 06 2018 05:20
                 307.3124084 5.111893177 363.9712838 61.98680115
20 06 2018 05:30
                 359.568512 5.215760231 390.8273285 60.84123993
20 06 2018 05:40
20 06 2018 05:50
                 476.9848938 5.874694824 583.5265079 64.45787048
20 06 2018 06:00 418.5349121 5.560085773 486.4518774 68.26600647
20 06 2018 06:10 440.6218872 5.50328207 469.9445416 65.17952728
20 06 2018 06:20 400.9771118 5.647264004 512.3776593 62.8340683
20 06 2018 06:30 426.4298096 5.587964058 494.6638996 56.56980133
                 283.4591064 4.709392071 267.6852594 55.32503128
20 06 2018 06:40
20 06 2018 06:50
                 178.0487061 4.156350136 152.5870876 51.15752029
                 311.6975098 4.851089954 300.2423717 42.26343155
20 06 2018 07:00
                 336.9247131 5.150257111 373.7888288 39.65406036
20 06 2018 07:10
20 06 2018 07:20
                 394.729187 5.212954044 390.0901615 33.53359985
20 06 2018 07:30
                 461.0663147 5.606227875 500.0837267 32.75559998
20 06 2018 07:40
                 319.4942932 4.859795094 302.2882071 36.23397827
20 06 2018 07:50
                 380.9096069 5.185399055 382.8861763 60.13536072
20 06 2018 08:00
                 772.5189819 6.832092762 942.1603049 61.76620865
20 06 2018 08:10
                 554.1264038 5.990611076 621.8352056 58.61331177
20 06 2018 08:20
                 887.3922729 6.860673904 954.4829163 60.37202072
20 06 2018 08:30
                 712.7153931 6.389194012 763.3250383 54.39805984
                 438.7497864 5.626829147 506.2354014 47.23714066
20 06 2018 08:40
20 06 2018 08:50
                 568.6912231 5.903837204 593.0242108 35.51425934
20 06 2018 09:00 422.2084045 5.265564919 404.0199722 37.69882965
20 06 2018 09:10 513.883728 5.774084091 551.4105914 22.32331085
20 06 2018 09:20
                 563.0725708 6.051723003 641.5756203 23.4409008
20 06 2018 09:30
                 440.7872925 5.573193073 490.3037206 28.3456707
20 06 2018 09:40
                 419.4453125 5.497681141 468.3330862 33.05704117
20 06 2018 09:50
                 448.966095 5.550899982 483.7620696 29.2809391
                 689.0786133 6.337162018 743.7535954 27.75642014
20 06 2018 10:00
20 06 2018 10:10
                 886.8760986 6.884614944 964.8812247 30.37080956
20 06 2018 10:20
                 1095.21106 7.281781197 1148.055081 34.21746826
20 06 2018 10:30
                 1597.314941 8.528715134 1845.73053 27.35777092
20 06 2018 10:40
                 1167.246948 7.522274971 1269.453109 31.06547928
20 06 2018 10:50
                 1110.345947 7.324684143 1169.11722 27.94598007
20 06 2018 11:00
                 1023.013
                             7.109410763 1066.01155 27.13849068
20 06 2018 11:10
                 1600.077026 8.457675934 1801.959305 25.66455078
20 06 2018 11:20
                 1367.458008 7.925845146 1487.821463 27.04150963
20 06 2018 11:30
                 1289.21106 7.672608852 1348.46078 23.90413094
20 06 2018 11:40 1243.055054 7.566353798 1292.313214 25.27899933
20 06 2018 11:50 1250.583984 7.553781033 1285.766408 26.94411087
```

```
20 06 2018 12:00 1486.22998 8.201016426 1647.125379 28.42976952
20 06 2018 12:10
                 1378.687012 7.707462788 1367.189403 32.60815048
20 06 2018 12:20
                 1517.162964 8.20027256 1646.684833 27.72915077
20 06 2018 12:30 1723.490967 8.762281418 1992.016368 29.46157074
20 06 2018 12:40 1569.204956 8.575258255 1874.601771 33.00399017
20 06 2018 12:50 1990.277954 9.316468239 2349.670976 30.88570023
20 06 2018 13:00 1770.738037 8.904378891 2082.539828 33.24958038
                 1293.270996 7.851754189 1446.279778 32.63356018
20 06 2018 13:10
                 1011.674988 7.083543777 1054.044721 30.98236084
20 06 2018 13:20
                 1263.858032 7.698273182 1362.236823 33.45870972
20 06 2018 13:30
20 06 2018 13:40
                 2068.795898 9.232309341 2294.697549 30.99537086
20 06 2018 13:50 2765.037109 10.88121986 3228.872318 35.95426941
20 06 2018 14:00 2614.112061 10.50739956 3069.308791 35.30083847
20 06 2018 14:10 2391.01001 10.09321022 2848.708936 36.41592026
20 06 2018 14:20 2322.60498 9.689353943 2583.320751 34.26531982
20 06 2018 14:30 2926.531006 11.38613987 3392.39541 34.62612915
20 06 2018 14:40 2962.644043 11.34877968 3382.171021 33.82601929
20 06 2018 14:50 2975.782959 11.5455904 3432.883076 36.51831818
20 06 2018 15:00 2690.793945 10.78501034 3191.134411 39.31977081
20 06 2018 15:10 2606.562012 10.19377995 2906.821279 36.68503189
20 06 2018 15:20 2415.922119 10.07742023 2839.307826 34.50341034
                 2326.836914 9.927934647 2746.473551 34.62849045
20 06 2018 15:30
                 2183.985107 9.64574337 2551.414019 39.2591095
20 06 2018 15:40
                 2351.154053 9.86036396 2702.178727 33.81320953
20 06 2018 15:50
20 06 2018 16:00 2029.453979 9.428982735 2423.378378 39.77397919
20 06 2018 16:10 1609.265015 8.304224014 1708.726109 45.46200943
20 06 2018 16:20 2041.024048 9.217731476 2285.192163 45.97957993
20 06 2018 16:30 1806.347046 8.679285049 1939.647372 42.97047043
20 06 2018 16:40 1843.165039 8.777283669 2001.524135 42.75101089
20 06 2018 16:50 1630.592041 8.380125999 1754.6077
                                                   42.6567688
20 06 2018 17:00 1395.166016 7.887104988 1466.024327 44.67609024
20 06 2018 17:10 1507.775024 8.075666428 1573.620954 41.72200012
20 06 2018 17:20 1396.831055 7.904001236 1475.510689 48.16942978
20 06 2018 17:30 1388.727051 8.127934456 1604.088439 52.31832123
20 06 2018 17:40 1082.229004 7.264419079 1139.605765 49.55369186
                 1215.812988 7.545168877 1281.294029 52.82213974
20 06 2018 17:50
                 1053.069946 7.34047699 1176.936739 55.1543808
20 06 2018 18:00
                 830.6781006 6.613204002 850.9884019 58.53055954
20 06 2018 18:10
20 06 2018 18:20
                 1087.708008 7.335323811 1174.381286 61.54692078
20 06 2018 18:30
                 1600.383057 8.612996101 1898.11814 61.11965179
20 06 2018 18:40 1633.077026 8.508172989 1833.035961 58.24108124
20 06 2018 18:50 1420.526001 8.002589226 1531.479795 62.84843826
20 06 2018 19:00
                 1586.29895 8.441052437 1791.770229 67.08000946
20 06 2018 19:10
                 1644.963013 8.67028141 1933.990676 69.33400726
20 06 2018 19:20
                 1138.620972 7.589008808 1304.162468 72.95890808
20 06 2018 19:30
                 734.7200928 6.578880787 837.1931026 70.8618927
20 06 2018 19:40
                 578.3134155 5.931406975 602.0914044 75.94146729
                 673.7871704 6.200434208 693.719354 75.65696716
20 06 2018 19:50
20 06 2018 20:00 830.8696899 7.062825203 1044.522885 75.42144012
20 06 2018 20:10
                 1210.682007 7.892880917 1469.263653 75.71948242
20 06 2018 20:20
                 1449.234985 8.377493858 1753.008766 70.70152283
20 06 2018 20:30
                 1902.634033 9.226874352 2291.15307 66.90795898
20 06 2018 20:40
                 1779.699951 8.983755112 2133.523765 70.22865295
20 06 2018 20:50
                 1757.959961 8.939738274 2105.217435 70.80317688
20 06 2018 21:00
                 1757.524048 8.89007473 2073.382131 69.0512085
20 06 2018 21:10 2162.868896 9.866839409 2706.487892 73.12023926
20 06 2018 21:20 2060.707031 9.571939468 2495.894782 73.06703949
20 06 2018 21:30 2008.333008 9.456244469 2441.264708 72.93778992
20 06 2018 21:40 1963.097046 9.377718925 2389.770656 73.00752258
```

```
20 06 2018 21:50 1626.948975 8.596624374 1887.904555 72.07588196
20 06 2018 22:00 1828.410034 9.025396347 2160.37568 69.64050293
20 06 2018 22:10 1974.654053 9.289990425 2332.358522 67.70456696
20 06 2018 22:20 2089.155029 9.544952393 2475.108691 69.3037262
20 06 2018 22:30 2357.839111 10.14078045 2876.574295 70.84568787
20 06 2018 22:40 2044.07605 9.413858414 2413.459302 69.85019684
20 06 2018 22:50 2153.998047 9.784031868 2650.33982 71.50993347
20 06 2018 23:00 2131.966064 9.647768021 2552.909985 74.37545013
20 06 2018 23:10 2095.596924 9.729658127 2612.223953 75.42018127
20 06 2018 23:20
                 1430.862061 8.128836632 1604.616649 75.66143036
20 06 2018 23:30 955.6688843 7.132834911 1076.924494 80.01332092
20 06 2018 23:40 851.2960815 6.807624817 931.6891805 76.81780243
20 06 2018 23:50 1058.927979 7.514595985 1265.497232 77.18572235
21 06 2018 00:00 927.201416 7.396421909 1204.928913 76.69513702
21 06 2018 00:10 856.8629761 7.111044884 1066.770502 76.12848663
21 06 2018 00:20 501.4746094 5.680435181 522.4342775 78.14360046
21 06 2018 00:30 119.8019028 4.087964058 139.5057939 89.72460175
21 06 2018 00:40 0
                       2.598212004 0
                                         102.5516968
21 06 2018 00:50 0
                       2.320449114 0
                                         103.8235016
21 06 2018 01:00 0
                       3.865705967 103.6583366 90.44541931
21 06 2018 01:10 239.0821991 5.339907169 424.1034608 76.16988373
21 06 2018 01:20 376.389801 5.619957924 504.1790917 73.04669952
21 06 2018 01:30 243.1295013 5.158559799 375.9291264 78.0877533
21 06 2018 01:40
                 157.8695984 4.195764065 160.2298641 85.1291275
21 06 2018 01:50 0.987863421 2.642837048 0
                                               93.11730194
21 06 2018 02:00 10.52381992 3.746427059 84.45793427 82.63284302
21 06 2018 02:10 29.65613937 3.267951012 30.31825194 76.40409088
21 06 2018 02:20 352.0584106 5.43265295 449.8333374 49.54959106
21 06 2018 02:30 210.9960022 4.802944183 289.0243249 52.94868088
21 06 2018 02:40 272.625
                           5.02107811 341.194725 66.02522278
21 06 2018 02:50 429.5032959 5.977875233 617.5563238 74.26550293
21 06 2018 03:00 496.3900146 6.244819164 709.7410781 76.09348297
21 06 2018 03:10 741.8148193 6.754826069 909.3367639 74.76822662
21 06 2018 03:20 906.2984009 7.251606941 1133.397848 70.93702698
21 06 2018 03:30 723.6157837 6.809635162 932.5468105 73.21762085
                 381.642395 5.588149071 494.7186437 74.94862366
21 06 2018 03:40
21 06 2018 03:50
                 26.57111931 2.916416883 0
                                               94.80066681
21 06 2018 04:00
                 136.9741058 3.951724052 118.9174634 85.08757782
21 06 2018 04:10
                 164.0052032 4.633132935 250.7237665 78.35945129
21 06 2018 04:20
                 31.28245926 3.269414902 30.428028
                                                     88.37844849
                       2.107269049 0
21 06 2018 04:30 0
                                         100.8104019
21 06 2018 04:40 0
                       3.752863884 85.43596651 79.02031708
21 06 2018 04:50 9.957489014 2.619632959 0
                                              92.63935852
21 06 2018 05:00 0
                    2.110697031 0
                                         96.93200684
21 06 2018 05:10 0
                       2.70529294 0
                                         81.26502228
21 06 2018 05:20 0
                       3.366811037 38.50198014 58.77880096
21 06 2018 05:30 0
                       2.356134892 0
                                         49.31882095
21 06 2018 05:40 0
                       3.234925985 27.93284902 74.72187805
                       3.098962069 19.95026547 68.97057343
21 06 2018 05:50 0
21 06 2018 06:00 0
                       3.019582033 16.65730154 73.3899765
21 06 2018 06:10 56.18729019 4.077665806 137.5551017 71.42636108
21 06 2018 06:20 97.37978363 4.081241131 138.2317783 83.74813843
21 06 2018 06:30 0.242665797 3.01315999 16.43497452 106.5644989
21 06 2018 06:40 0
                       3.081666946 19.1469015 97.30510712
21 06 2018 06:50 128.2738037 4.602249146 243.9617405 77.34938049
21 06 2018 07:00 676.1635132 6.390781879 763.9269364 66.21755219
21 06 2018 07:10 506.4237061 6.015431881 629.2093638 66.65294647
21 06 2018 07:20 540.734314 6.151311874 676.2336884 68.43147278
21 06 2018 07:30 1088.088989 7.553441048 1285.589664 71.67545319
```

```
21 06 2018 07:40 1137.480957 7.716585159 1372.116
                                                      74.90540314
21 06 2018 07:50 873.2299805 7.079717159 1052.281869 75.48605347
21 06 2018 08:00
                562.2797852 5.487792969 465.4951752 79.05236816
21 06 2018 08:10 455.4049988 5.265047073 403.8817299 81.87732697
21 06 2018 08:20
                 638.2230835 6.245748997 710.0789833 77.51625824
21 06 2018 08:30
                 506.9559937 6.161655903 679.8943008 68.88350677
                 321.4393005 5.429712772 449.0059353 60.09860992
21 06 2018 08:40
21 06 2018 08:50
                 172.824707 4.496694088 221.3002778 54.20708847
21 06 2018 09:00
                 159.4803009 4.349164009 190.7370694 58.94659042
21 06 2018 09:10
                 286.3583984 5.030600071 343.5527569 58.52056885
21 06 2018 09:20
                 526.8751221 6.038712025 637.1259205 61.68960953
21 06 2018 09:30
                 1045.600952 7.418731213 1216.220196 59.40008926
21 06 2018 09:40
                696.0311279 6.411604881 771.8455954 56.40402985
21 06 2018 09:50
                 799.0239258 6.832296848 942.2479463 60.72097015
21 06 2018 10:00 1137.651978 7.706117153 1366.463548 60.03068161
21 06 2018 10:10 1154.355957 7.690670013 1358.147095 59.48995972
21 06 2018 10:20
                 1358.43103 8.05165863 1559.71684 59.5241394
21 06 2018 10:30
                 1198.045044 7.729798794 1379.270121 59.86458969
                 1058.246948 7.461678028 1238.166935 61.11217117
21 06 2018 10:40
21 06 2018 10:50
                 663.7061157 6.33008194 741.1131974 63.12969971
21 06 2018 11:00
                 584.1541138 6.203813076 694.9315998 64.31027222
21 06 2018 11:10
                 523.5393066 5.955082893 609.9421439 59.71123886
21 06 2018 11:20
                  271.3380127 4.976283073 330.1944426 54.21693039
21 06 2018 11:30
                 83.12106323 3.703579903 78.11653124 58.44419098
21 06 2018 11:40
                 8.671929359 2.868964911 0
                                                34.95273972
21 06 2018 11:50
                       2.24436307 0
                                          41.06200027
21 06 2018 12:00
                        2.440453053 0
                                          31.44467926
                 0
21 06 2018 12:10
                                          19.46076012
                        2.733987093 0
                 0
21 06 2018 12:20
                 0
                        2.541368961 0
                                          50.52072144
21 06 2018 12:30
                        3.342691898 36.36115972 49.31389999
                 0
21 06 2018 12:40 0
                        1.870659947 0
                                          29.26258087
21 06 2018 12:50 0
                        2.612099886 0
                                          53.2599411
21 06 2018 13:00
                        2.291563034 0
                                          55.17993927
21 06 2018 13:10
                 0
                        3.357505083 37.66495341 57.81373978
21 06 2018 13:20
                 41.08729172 3.487869978 50.65320853 65.94487
                 65.89388275 3.828265905 97.38646177 64.23964691
21 06 2018 13:30
                 241.4557953 4.964739799 327.3843513 70.02005005
21 06 2018 13:40
21 06 2018 13:50
                 247.0635071 4.993020058 334.2867095 66.15335846
                 118.8580017 4.175251961 156.2427304 65.68383026
21 06 2018 14:00
21 06 2018 14:10
                 110.0185013 4.017106056 126.1824773 63.32263184
21 06 2018 14:20
                 72.62181091 3.838562012 99.08888417 59.64551163
                 4.77431488 2.593314886 0
21 06 2018 14:30
                                               48.51594162
21 06 2018 14:40
                 7.767990112 3.068108082 18.55055548 44.66627121
21 06 2018 14:50
                 0
                        2.580564976 0
                                          50.75363922
21 06 2018 15:00
                 0
                        2.117595911 0
                                          60.41411972
21 06 2018 15:10
                 0
                        1.184434056 0
                                          58.64992905
21 06 2018 15:20
                 0
                        1.081516981 0
                                          74.65112305
21 06 2018 15:30
                 0
                        0.821242213 0
                                          23.62771034
21 06 2018 15:40
                 0
                        1.17531395 0
                                          38.44292068
21 06 2018 15:50
                 0
                        1.285753012 0
                                          26.18194962
21 06 2018 16:00
                 0
                        1.324105024 0
                                          21.34129906
21 06 2018 16:10
                                          35.75925827
                        0.842825711 0
21 06 2018 16:20
                        1.234212041 0
                                          38.16065979
21 06 2018 16:30
                        1.769058943 0
                                          39.57651901
                 0
21 06 2018 16:40
                        1.704419017 0
                                          47.30776978
                 0
21 06 2018 16:50
                 0
                        1.800971031 0
                                          26.24051094
21 06 2018 17:00
                 0
                       1.864490032 0
                                          25.10033989
21 06 2018 17:10 0
                        2.826258898 0
                                          17.58922958
21 06 2018 17:20 0
                       3.043484926 17.54279274 21.25777054
```

```
21 06 2018 17:30 6.569200993 3.557547092 58.71020778 21.17898941
21 06 2018 17:40
                  75.84905243 4.028715134 128.3496906 23.49745941
21 06 2018 17:50
                  202.9149017 4.888785839 309.1406526 31.74721909
21 06 2018 18:00
                  101.6060028 4.032999992 129.1511262 38.15755081
21 06 2018 18:10
                  9.889996529 3.4022789
                                           41.81918988 47.99462891
21 06 2018 18:20
                  36.24261856 3.986622095 125.4457597 46.95714951
21 06 2018 18:30
                  58.49253082 3.877366066 105.6574112 33.73646164
                  19.68939972 3.338570118 36.00462176 39.13639069
21 06 2018 18:40
21 06 2018 18:50
                  28.7288208 3.455220938 47.14515818 37.6059494
                  26.84884071 3.357544899 37.66850515 41.91809082
21 06 2018 19:00
21 06 2018 19:10
                  0.145266503 2.73904705 0
                                                 63.67304993
21 06 2018 19:20
                  18.17193031 3.923909903 113.8538775 65.44962311
21 06 2018 19:30
                  53.39297104 4.152843952 151.9109176 65.71685028
21 06 2018 19:40
                  20.23106956 3.693583012 76.67924789 59.78334045
21 06 2018 19:50
                        3.008215904 16.26830902 46.43235016
21 06 2018 20:00
                  0
                        2.329560041 0
                                           45.26335907
21 06 2018 20:10
                  0
                        1.552492023 0
                                           57.71831894
21 06 2018 20:20
                  0
                        0.987392724 0
                                           71.85534668
                  0
21 06 2018 20:30
                        0.96747911
                                           36.67169952
21 06 2018 20:40
                  0
                        1.014631033 0
                                           20.10716057
21 06 2018 20:50
                  0
                        1.483049989 0
                                           9.719556808
21 06 2018 21:00
                                           5.821148872
                  0
                        1.741842031 0
21 06 2018 21:10
                  0
                        1.274091959 0
                                           1.843235016
21 06 2018 21:20
                  0
                        0.544198394 0
                                           54.39052963
21 06 2018 21:30
                        0.331012189 0
                                           98.38028717
21 06 2018 21:40
                        0.594678402 0
                                           36.11083984
21 06 2018 21:50
                        0.628825486 0
                                           71.31108856
21 06 2018 22:00
                  0
                        0.364641011 0
                                           76.01685333
21 06 2018 22:10
                  0
                        0.590029895 0
                                           318.0180054
21 06 2018 22:20
                  0
                        1.154240966 0
                                           343.3460999
21 06 2018 22:30
                  0
                        1.029598951 0
                                           315.3601074
21 06 2018 22:40
                  0
                        1.025567055 0
                                           315.9508972
21 06 2018 22:50
                                           326.5494995
                        0.800172329 0
                                           333.7239075
21 06 2018 23:00
                  0
                        0.59452188 0
21 06 2018 23:10
                  0
                        0.896042824 0
                                           26.95443916
21 06 2018 23:20
                  0
                        0.941854298 0
                                           26.15177917
21 06 2018 23:30
                  0
                        1.044630051 0
                                           3.010258913
21 06 2018 23:40
                        0.435620189 0
                                           300.1140137
21 06 2018 23:50
                        0.469904214 0
                                           306.7614136
22 06 2018 00:00
                        0.91340071
                                           269.9343872
22 06 2018 00:10
                        1.006384015 0
                                           282.4957886
                  0
22 06 2018 00:20
                                           252.1656952
                  0
                        1.17652905
                                     0
22 06 2018 00:30
                                           265.9359131
                  0
                        1.261692047 0
22 06 2018 00:40
                  0
                        1.992295027 0
                                           291.8308105
22 06 2018 00:50
                  0
                        2.033071995 0
                                           280.0426025
22 06 2018 01:00
                        1.792776942 0
                                           254.3529053
22 06 2018 01:10
                  0
                        2.242436886 0
                                           237.2528076
22 06 2018 01:20
                  0
                        2.090384007 0
                                           241.8126068
22 06 2018 01:30
                  0
                        2.215112925 0
                                           255.7008972
22 06 2018 01:40
                  0
                        2.22942996 0
                                           266.1167908
22 06 2018 01:50
                  0
                        2.369940996 0
                                           284.0737915
22 06 2018 02:00
                        2.189203978 0
                                           291.9641113
22 06 2018 02:10
                        1.940556049 0
                                           265.6170959
22 06 2018 02:20
                        3.228177071 27.4668483 227.3885956
                  0
22 06 2018 02:30
                        2.355438948 0
                  0
                                           234.6795044
22 06 2018 02:40
                  0
                        2.546999931 0
                                           244.8311005
22 06 2018 02:50
                  0
                        3.150724888 22.64063576 232.2129974
22 06 2018 03:00
                  0
                        2.74514389 0
                                           232.478302
22 06 2018 03:10
                        2.961102009 0
                                           229.2539063
```

```
22 06 2018 03:20 0
                        3.064999104 18.41796199 217.7888947
22 06 2018 03:30 0
                        2.818139076 0
                                          213.7388
22 06 2018 03:40
                        2.488502026 0
                 0
                                          224.1062927
22 06 2018 03:50 0
                        3.02573204 16.87639633 229.1988983
22 06 2018 04:00 0
                        2.844861984 0
                                          224.5292053
22 06 2018 04:10
                  0
                        3.115971088 20.7870183 219.3105011
22 06 2018 04:20
                  187.141098 4.917603016 316.0124103 206.2586975
22 06 2018 04:30
                  206.7637024 4.26556778 173.9583804 210.1961975
22 06 2018 04:40
                  115.0386963 3.741844893 83.76574412 212.1634064
22 06 2018 04:50
                  195.0516968 4.572229862 237.446847 207.2088013
22 06 2018 05:00
                  217.3336029 4.775220871 282.6382717 205.1811981
22 06 2018 05:10
                  237.7884064 4.96170187 326.6464589 198.5980072
22 06 2018 05:20
                  145.3567047 4.466211796 214.8819232 203.0106049
22 06 2018 05:30
                  32.6658287 3.456270933 47.25532302 202.1156006
22 06 2018 05:40
                  0
                        2.965805054 0
                                          228.6266937
22 06 2018 05:50
                  0
                        2.370053053 0
                                          221.8155975
22 06 2018 06:00
                 0
                        2.289938927 0
                                          224.3688965
22 06 2018 06:10 0
                        2.571894884 0
                                          229.491394
22 06 2018 06:20 0
                        2.294399977 0
                                          234.9768982
22 06 2018 06:30
                 0
                        2.109575987 0
                                          225.2783051
22 06 2018 06:40
                                          223.9761963
                        2.372565985 0
                  0
22 06 2018 06:50
                                          214.8392944
                  0
                        2.406866074 0
22 06 2018 07:00
                  0
                        2.177232027 0
                                          215.7725983
22 06 2018 07:10
                  0
                        1.84987998 0
                                          210.5122986
22 06 2018 07:20
                        1.20430696 0
                                          193.0951996
22 06 2018 07:30
                        1.793609977 0
                                          219.1127014
22 06 2018 07:40
                        0.953030407 0
                                          221.3728943
22 06 2018 07:50
                  0
                        1.468883991 0
                                          268.1438904
22 06 2018 08:00
                                          277.3460083
                  0
                        1.742696047 0
                                          70.58197021
22 06 2018 08:10
                  0
                        0.879882395 0
22 06 2018 08:20
                 0
                        0.869679213 0
                                          45.95079041
22 06 2018 08:30
                  0
                                          337.5795898
                        0.961930811 0
22 06 2018 08:40
                        0.742337227 0
                                          268.7550049
                        2.723762989 0
                                          48.33757019
22 06 2018 08:50
                  0
22 06 2018 09:00
                        1.570062995 0
                                          4.161382198
                  0
22 06 2018 09:10
                  0
                        1.442782998 0
                                          0.425600588
22 06 2018 09:20
                  0
                        2.05439496 0
                                          24.96925926
22 06 2018 09:30
                 0
                        1.907542944 0
                                          31.39253998
22 06 2018 09:40
                        2.188646078 0
                                          23.14904022
22 06 2018 09:50
                        3.493789911 51.30755528 54.08253098
22 06 2018 10:00
                  0
                        3.613775015 65.77838199 94.29718781
22 06 2018 10:10
                  37.0097084 4.179793835 157.123769 130.2003937
22 06 2018 10:20
                  0.712200105 2.296593904 0
                                                124.9207993
22 06 2018 10:30
                  0
                        1.906147957 0
                                          87.826828
                  26.2542305 4.131958961 147.8956379 134.0355072
22 06 2018 10:40
22 06 2018 10:50
                        1.521623015 0
                                          235.743103
22 06 2018 11:00
                  0
                        1.516116977 0
                                          290.3630066
22 06 2018 11:10
                  0
                        2.481627941 0
                                          283.4374084
22 06 2018 11:20
                  0
                        1.295292974 0
                                          305.2348022
22 06 2018 11:30
                  0
                        1.943719029 0
                                          339.2278137
22 06 2018 11:40
                  0
                        0.933211505 0
                                          311.0068054
22 06 2018 12:00
                        1.246479988 0
                                          0
22 06 2018 12:10
                        1.024945021 0
22 06 2018 12:20
                        1.554703951 0
                                          345.4784851
                  0
22 06 2018 12:30
                        2.461971998 0
                                          347.4992065
                  0
22 06 2018 12:40
                  0
                        2.294433117 0
                                          354.4258118
22 06 2018 12:50
                  0
                        1.949401021 0
                                          345.5606995
22 06 2018 13:00
                  0
                        1.778555989 0
                                          356.8218079
22 06 2018 13:10 0
                        1.551066995 0
                                          45.87120056
```

```
22 06 2018 13:20 0
                       1.392864943 0
                                         48.22552872
22 06 2018 13:30 0
                       0.801888525 0
                                         22.29939079
22 06 2018 13:40 0
                       1.391113043 0
                                         129.0688019
22 06 2018 13:50 0
                       1.646512985 0
                                         190.0227051
22 06 2018 14:00 0
                       2.363702059 0
                                         225.6309052
22 06 2018 14:10 0
                       2.473824978 0
                                         246.2245026
                       2.652225018 0
22 06 2018 14:20 0
                                         266.691803
22 06 2018 14:30 0
                       2.47102809 0
                                         267.3121033
22 06 2018 14:40 0
                       4.497790813 221.5322362 250.9580994
22 06 2018 14:50 23.64624023 3.057817936 18.11760705 241.2055969
22 06 2018 15:00 46.45928955 3.679915905 74.74015999 228.1208954
22 06 2018 15:10 1.334135056 3.066546917 18.48378072 217.2845001
22 06 2018 15:20 0
                       2.997438908 0
                                         227.1800995
22 06 2018 15:30 0
                       2.744525909 0
                                         237.3728943
22 06 2018 15:40 0
                       2.370462894 0
                                         238.1647034
22 06 2018 15:50 0
                       3.132827044 21.66190727 254.5865021
22 06 2018 16:00 31.4446907 3.248651981 28.90308803 252.985199
22 06 2018 16:10 6.083143234 2.943176985 0
                                            247.6797028
22 06 2018 16:20 66.07414246 3.601526022 64.19551711 237.6154938
22 06 2018 16:30 174.1392059 4.537475109 229.9743267 232.179306
22 06 2018 16:40 271.5993958 5.087147236 357.700915 239.5001984
22 06 2018 16:50 402.0679016 5.728862762 537.3097418 230.8020935
22 06 2018 17:00 340.7553101 5.391294003 438.2654293 231.9654999
22 06 2018 17:10 367.3163147 5.649796963 513.1418175 230.3491058
22 06 2018 17:20 455.9668884 5.898124218 591.1553118 221.1786041
22 06 2018 17:30 626.2277222 6.583607197 839.08485
                                                    213.6289978
22 06 2018 17:40 810.6694946 6.860980034 954.6154374 215.4593964
22 06 2018 17:50 1108.034058 7.640161037 1331.161456 217.7808075
22 06 2018 18:00 1320.656982 8.142190933 1612.444482 218.483902
22 06 2018 18:10 1341.878052 8.183984756 1637.051251 223.9622955
22 06 2018 18:20 1496.73999 8.637527466 1913.454564 220.3813019
22 06 2018 18:30 1451.130981 8.711356163 1959.83616 213.0363007
22 06 2018 18:40 1551.526001 8.669192314 1933.306767 210.1197968
22 06 2018 18:50 1381.525024 8.305163383 1709.291025 209.0088959
22 06 2018 19:00 1325.574951 8.101448059 1588.616002 207.5258942
22 06 2018 19:10 1496.859009 8.464877129 1806.379575 209.9633942
22 06 2018 19:20 1514.651978 8.533201218 1848.506783 211.1221008
22 06 2018 19:30 1694.215942 8.923881531 2095.040822 214.8916016
22 06 2018 19:40 1897.177979 9.361495972 2379.143406 216.6694031
22 06 2018 19:50 1813.685059 9.233711243 2295.611933 220.780304
22 06 2018 20:00 1885.162964 9.382177353 2392.692001 222.1566925
22 06 2018 20:10 1972.871948 9.483537674 2459.179728 220.4967041
22 06 2018 20:20 1976.147949 9.501621246 2441.182638 219.511795
22 06 2018 20:30 1992.660034 9.633084297 2542.027946 220.5180054
22 06 2018 20:40 2153.443115 9.963299751 2769.070877 222.8876953
22 06 2018 20:50 1964.228027 9.348689079 2370.757054 225.1280975
22 06 2018 21:00 1239.637939 7.660905838 1342.206118 229.0635071
22 06 2018 21:10 1159.94104 7.553752899 1285.751782 231.3769989
                             7.935426235 1493.237577 224.7734985
22 06 2018 21:20 1260.625
22 06 2018 21:30 1252.421997 8.007489204 1534.288381 224.9938049
22 06 2018 21:40 1334.25
                             8.213218689 1654.359217 222.8690033
22 06 2018 21:50 1204.293945 7.890971184 1468.192204 224.1118927
22 06 2018 22:00 984.81427 7.171145916 1094.930893 226.8009949
22 06 2018 22:10 1053.667969 7.360581875 1186.943552 233.4277039
22 06 2018 22:20 1266.352051 7.789261818 1411.724525 225.8780975
22 06 2018 22:30 1315.61499 7.998703003 1529.254049 219.6726074
22 06 2018 22:40 1238.037964 7.904472828 1475.775915 219.629303
22 06 2018 22:50 824.3934937 6.885241985 965.1545066 219.5397949
22 06 2018 23:00 664.2849731 6.400411129 767.5828998 219.4739075
```

```
22 06 2018 23:10 645.5429077 6.316267967 735.9771299 215.6963043
22 06 2018 23:20 408.1286926 5.342199802 424.730378 215.3188019
22 06 2018 23:30 432.5711975 5.456470013 456.5644502 213.1463013
22 06 2018 23:40 563.4381714 6.055969238 643.0317302 211.5216064
22 06 2018 23:50 343.7915955 5.226105213 393.5505334 215.6786957
23 06 2018 00:00 307.4635925 4.962732792 326.8967854 216.9026031
23 06 2018 00:10 232.5957031 4.397572041 200.6281803 214.4685974
23 06 2018 00:20 269.517395 4.543972015 231.3655498 214.4346924
23 06 2018 00:30 411.8956909 5.329198837 421.1813238 207.0005951
23 06 2018 00:40
                 243.7465057 4.30533886 181.8939779 211.3948975
23 06 2018 00:50
                 293.0498047 4.763738155 280.0087606 204.267807
23 06 2018 01:00 253.0449066 4.698544025 265.2491108 203.7570953
23 06 2018 01:10 281.5332031 4.851325989 300.2977719 206.920105
23 06 2018 01:20 376.5297852 5.385451794 436.6436481 204.1408997
23 06 2018 01:30 723.3792114 6.777355194 918.8340971 205.5997009
23 06 2018 01:40 882.0189819 7.11695385 1069.517813 203.4689026
23 06 2018 01:50 662.9359741 6.250762939 711.9026735 203.0955048
23 06 2018 02:00 489.7196045 5.623580933 505.2627631 208.2633057
23 06 2018 02:10 283.8638
                                         284.7490907 214.9743042
                             4.78441
23 06 2018 02:20 310.2611084 5.013758183 339.3867356 215.2884979
23 06 2018 02:30 398.9229126 5.287892818 410.0021664 211.7003937
23 06 2018 02:40 684.4713745 6.620354176 853.8790292 205.0413055
23 06 2018 02:50 842.4036865 6.975612164 1005.047956 206.5794983
23 06 2018 03:00
                 1099.363037 7.772072792 1402.299623 207.6634064
23 06 2018 03:10 1211.067017 8.044364929 1555.504147 211.0791016
23 06 2018 03:20 1080.866943 7.572122097 1295.323821 217.7881012
23 06 2018 03:30 950.6593018 6.916450977 978.8171941 223.972702
23 06 2018 03:40 1115.312012 7.414288044 1213.965483 222.7129974
23 06 2018 03:50 922.7741089 7.004882813 1018.188377 231.1549988
23 06 2018 04:00 762.2886963 6.467824936 793.4625919 235.4317932
23 06 2018 04:10 695.9564209 6.533824921 819.2855488 242.2613983
23 06 2018 04:20 640.6876221 6.355607986 750.6582413 242.0028992
23 06 2018 04:30 390.9697876 5.468093872 459.8681904 238.1430054
23 06 2018 04:40
                 376.9125977 5.445343018 453.4133986 234.9389038
                 373.365387 5.447400093 453.9950981 227.8168945
23 06 2018 04:50
                 260.180603 4.836046219 296.7195864 224.6625061
23 06 2018 05:00
                 159.5146942 4.300502777 180.9245233 225.2984924
23 06 2018 05:10
                 54.11278915 3.611586094 65.49375903 221.0010986
23 06 2018 05:20
                 1.088598967 2.672875881 0
23 06 2018 05:30
                                               231,4738007
23 06 2018 05:40
                       2.78373909 0
                                         244.8919067
23 06 2018 05:50
                       2.854523897 0
                                         248.1802063
                 0
23 06 2018 06:00 0
                       2.59344101 0
                                         258.4296875
23 06 2018 06:10 0
                       1.83396101 0
                                         248.8213043
23 06 2018 06:20 0
                       2.863049984 0
                                         263.5994873
23 06 2018 06:30 0
                       1.461959004 0
                                         229.2601013
23 06 2018 06:40 0
                       1.671432972 0
                                         230.9615021
23 06 2018 06:50 0
                       1.982450962 0
                                         265.8721924
23 06 2018 07:00 0
                       2.152518034 0
                                         236.3000031
23 06 2018 07:10 0
                       1.594529986 0
                                         250.0805054
                                         267.4993896
23 06 2018 07:20 0
                       2.925267935 0
23 06 2018 07:30
                 0
                       2.681931973 0
                                         273.2177124
23 06 2018 07:40
                 0
                       3.300605059 32.84843398 279.8757935
23 06 2018 07:50
                       3.533154964 55.80129615 269.4577026
23 06 2018 08:00
                 36.97518921 3.742522955 83.86796165 260.4519043
23 06 2018 08:10
                 78.48232269 3.960881948 120.6117519 254.536499
23 06 2018 08:20
                 63.60023117 3.719468117 80.43372942 250.6703033
23 06 2018 08:30 5.135612011 3.003402948 16.10982075 230.8549957
23 06 2018 08:40 0 2.22083807 0
                                         229.4936981
23 06 2018 08:50 0
                       3.073318005 18.77621853 250.497406
```

```
23 06 2018 09:00 4.627802849 3.17820406 24.24306486 264.1231079
23 06 2018 09:10 0 2.805459976 0
                                         252.9394073
23 06 2018 09:20 0
                       1.862211943 0
                                         256.8882141
23 06 2018 09:30 0
                       2.334237099 0
                                         263.5776062
23 06 2018 09:40 0
                       2.589555979 0
                                         280.4992065
23 06 2018 09:50 0
                       2.869818926 0
                                         291.9584961
23 06 2018 10:00 0
                       3.262662888 29.9245558 307.6523132
23 06 2018 10:10 0
                       3.021981001 16.74204518 334.7677002
23 06 2018 10:20 46.34307098 4.802062035 288.8203008 9.064123154
23 06 2018 10:30 349.6863098 5.382494926 435.8239794 13.3610096
23 06 2018 10:40 485.0226135 5.846867085 574.5396992 15.09253979
23 06 2018 10:50 337.3859863 5.231427193 394.9549549 17.43074989
23 06 2018 11:00 522.4882202 5.866416931 580.8448263 25.00115013
23 06 2018 11:10 197.4962006 4.508500099 223.8010545 21.8678894
23 06 2018 11:20 237.8549957 4.706481934 267.0309603 24.87570953
23 06 2018 11:30 519.0418701 5.830583096 569.3179528 28.16951942
23 06 2018 11:40 1207.260986 7.45520401 1234.840705 26.96762085
23 06 2018 11:50 882.1292114 6.898347855 970.8774275 28.96791077
23 06 2018 12:00 1111.418945 7.389480114 1201.430581 24.64241028
23 06 2018 12:10 1088.812988 7.161736965 1090.490354 23.71064949
23 06 2018 12:20 1643.803955 8.404683113 1769.551728 23.89550018
23 06 2018 12:30 1728.76001 8.619421005 1902.131108 26.79332924
23 06 2018 12:40 1161.880005 7.396038055 1204.735282 34.45923996
23 06 2018 12:50 1646.166992 8.508722305 1833.375036 37.75915146
23 06 2018 13:00 1836.714966 8.819669724 2028.451828 32.63975143
23 06 2018 13:10 1975.51001 9.161168098 2248.364697 38.56044006
23 06 2018 13:20 1983.124023 9.191592216 2268.162263 37.19095993
23 06 2018 13:30 1658.550049 8.551487923 1859.838166 38.36103058
23 06 2018 13:40 1413.619019 8.023449898 1543.453981 35.42982101
23 06 2018 13:50 1756.197998 8.693014145 1948.282349 38.36191177
23 06 2018 14:00 1416.718994 8.02514267 1544.427609 42.12776184
23 06 2018 14:10 1352.662964 7.99646616 1527.97366 51.43307114
23 06 2018 14:20 2252.706055 9.987726212 2784.446859 57.80234909
23 06 2018 14:30 2673.986084 10.77919006 3188.779524 58.02344131
23 06 2018 14:40 2602.075928 10.73878002 3172.199988 58.77378845
23 06 2018 14:50 2214.436035 9.788866043 2653.680309 58.94758987
23 06 2018 15:00 2316.587891 9.954442978 2763.449044 58.1893692
23 06 2018 15:10 2401.216064 10.31840992 2974.70855 60.01615906
23 06 2018 15:20 1880.911987 9.059352875 2182.32166 53.61423111
23 06 2018 15:30 1349.744019 7.777719021 1405.391654 45.5453186
23 06 2018 15:40 1603.71106 8.207462311 1650.944994 40.47542191
23 06 2018 15:50 2261.060059 9.476195335 2454.359564 41.72703171
23 06 2018 16:00 2089.917969 9.276364326 2323.454915 40.58158112
23 06 2018 16:10 1933.592041 8.94302845 2107.330409 39.86804962
23 06 2018 16:20 1550.787964 8.21281147 1654.117588 42.51937866
23 06 2018 16:30 1510.852051 8.169849396 1628.710574 47.40906906
23 06 2018 16:40 1845.009033 8.909358978 2085.730365 50.21371841
23 06 2018 16:50 1528.875
                           8.256810188 1680.31052 50.74324036
23 06 2018 17:00 1630.96106 8.56002903 1865.138571 50.28020096
23 06 2018 17:10 1955.17395 9.084888458 2198.852851 51.12570953
23 06 2018 17:20 2498.166992 10.64284039 3131.205602 56.51176834
23 06 2018 17:30 2529.720947 10.62625027 3123.880056 54.38877106
23 06 2018 17:40 1479.991943 8.193232536 1642.517957 51.04050827
23 06 2018 17:50 1238.233032 7.574020863 1296.315787 46.48926926
23 06 2018 18:00 1502.529053 8.185084343 1637.700846 44.13687897
23 06 2018 18:10 1455.781006 8.164997101 1625.851722 47.03985977
23 06 2018 18:20 1472.887939 8.221891403 1659.508826 45.87823105
23 06 2018 18:30 1600.209961 8.343068123 1732.147701 39.09706879
23 06 2018 18:40 1222.051025 7.732921124 1380.96371 47.74185944
```

```
23 06 2018 18:50 969.444519 7.19195509 1104.794331 51.41151047
23 06 2018 19:00 994.4194946 7.19692421 1107.158381 57.14408112
23 06 2018 19:10 985.9160767 7.155914783 1087.748563 55.0030098
23 06 2018 19:20 968.0494995 7.084472179 1054.472708 50.93571091
23 06 2018 19:30
                 1272.130005 7.737456799 1383.426018 49.57336044
23 06 2018 19:40
                 889.0443115 6.855999947 952.4610072 47.23759079
23 06 2018 19:50
                 1144.322998 7.486492157 1250.975306 48.83810043
                 1518.097046 8.210630417 1652.82369 52.47758865
23 06 2018 20:00
                 1033.10498 7.171625137 1095.157381 48.60763931
23 06 2018 20:10
                 980.7460938 6.988348007 1010.752112 44.01473999
23 06 2018 20:20
23 06 2018 20:30
                 1448.040039 8.06712532 1568.667777 49.30487061
23 06 2018 20:40
                 1738.952026 8.651799202 1922.394474 54.63478088
23 06 2018 20:50
                 1841.370972 8.931395531 2099.861801 56.43141937
23 06 2018 21:00 2112.593018 9.507702827 2445.985466 58.39899826
23 06 2018 21:10
                 1513.032959 8.033307076 1549.12763 54.32709885
23 06 2018 21:20 1544.890991 8.110198021 1593.719919 50.16056824
23 06 2018 21:30
                 1473.652954 7.971961975 1513.981553 52.00090027
23 06 2018 21:40 1265.774048 7.497129917 1256.495221 52.1083107
23 06 2018 21:50 1287.511963 7.62680006 1324.076894 49.0379715
23 06 2018 22:00
                 2041.109985 9.249815941 2306.119634 52.43787003
23 06 2018 22:10
                 1921.291016 9.090101242 2202.230301 52.02499008
23 06 2018 22:20
                 1655.050049 8.488139153 1820.684563 51.2453804
23 06 2018 22:30
                 2226.528076 9.826917648 2679.70218 53.60623169
23 06 2018 22:40
                 1882.930054 8.990929604 2138.145215 53.52080154
                 1694.692017 8.529864311 1846.441574 52.01258087
23 06 2018 22:50
23 06 2018 23:00 1439.529053 7.656324863 1339.762504 45.87311935
23 06 2018 23:10 2024.827026 8.864606857 2057.101234 42.34941864
23 06 2018 23:20 2242.018066 9.484924316 2460.090099 41.57106018
23 06 2018 23:30 2018.295044 9.149471283 2240.760567 45.45397949
23 06 2018 23:40
                 1966.198975 8.949309349 2111.365357 44.38262177
23 06 2018 23:50
                 2049.988037 9.243520737 2302.011497 42.97555161
24 06 2018 00:00
                 1211.551025 7.588016987 1303.642311 48.47229004
24 06 2018 00:10
                 1691.098022 8.510857582 1834.693276 47.29706955
24 06 2018 00:20
                 1717.853027 8.682347298 1941.572404 49.25992966
                 2031.439941 9.521109581 2456.525521 49.10947037
24 06 2018 00:30
                 1644.395996 8.595298767 1887.078336 49.49243927
24 06 2018 00:40
24 06 2018 00:50
                 1202.875977 7.651910782 1337.410417 53.72412872
24 06 2018 01:00
                 1087.824951 7.322437763 1168.007889 47.42409897
24 06 2018 01:10
                 1568.56897 8.360850334 1742.911264 48.80443954
24 06 2018 01:20
                 1621.723022 8.41163826 1773.792824 48.28227997
24 06 2018 01:30
                 1972.910034 9.13232708 2229.622628 48.11405182
24 06 2018 01:40 1524.456055 8.334021568 1726.68176 50.39181137
24 06 2018 01:50
                 1314.709961 7.864191055 1453.210139 56.23323059
24 06 2018 02:00
                 1201.161011 7.661386013 1342.462409 56.6781311
24 06 2018 02:10
                 1152.829956 7.494235992 1254.991838 56.57859039
24 06 2018 02:20
                 1442.546021 8.085240364 1579.181688 55.47713089
                 1297.10498 7.812063217 1424.280254 56.4095993
24 06 2018 02:30
                 1319.762939 7.871391773 1457.230667 57.95421982
24 06 2018 02:40
24 06 2018 02:50
                 1469.368042 8.064433098 1567.108004 60.19990158
24 06 2018 03:00
                 1576.302002 8.333200455 1726.185976 58.67155075
24 06 2018 03:10
                 1264.416992 7.713022232 1370.190605 57.26425171
24 06 2018 03:20
                 1647.921021 8.339319229 1729.881797 59.5464592
24 06 2018 03:30
                 1327.900024 7.667650223 1345.808551 56.99773026
24 06 2018 03:40
                 1084.074951 7.282085896 1148.203743 55.76893997
24 06 2018 03:50
                 1462.550049 8.039765358 1552.850295 55.83378983
24 06 2018 04:00 1723.755005 8.660234451 1927.684346 54.24951172
24 06 2018 04:10
                 1307.98999 7.741072178 1385.390499 60.30847168
24 06 2018 04:20 1527.015991 8.221953392 1659.545657 65.49678802
24 06 2018 04:30 1594.574951 8.403214455 1768.656654 63.27552032
```

```
24 06 2018 04:40 1587.125977 8.397182465 1764.98223 65.73940277
                 1879.932007 8.969765663 2124.518556 66.98457336
24 06 2018 04:50
24 06 2018 05:00
                 1271.112061 7.699890137 1363.107499 64.56645966
24 06 2018 05:10
                 1263.344971 7.729581833 1379.152483 66.9601593
24 06 2018 05:20
                 1328.266968 7.831745148 1435.166765 66.23368835
24 06 2018 05:30
                 1621.71106 8.50184536 1829.131684 63.91921997
                 2020.123047 9.017249107 2155.116637 59.38684845
24 06 2018 05:40
24 06 2018 05:50
                 2548.534912 10.03240013 2812.083508 59.17084885
24 06 2018 06:00 2283.958008 9.617974281 2530.750839 60.40047073
24 06 2018 06:10
                 2506.855957 10.17663956 2897.130496 61.77600098
24 06 2018 06:20
                 2781.427979 10.45442009 3043.77623 61.83250046
24 06 2018 06:30 2960.5
                             10.99314976 3270.018033 62.91255188
24 06 2018 06:40 2849.521973 11.18118954 3332.732263 65.32299042
24 06 2018 06:50 2453.49292 10.04421043 2819.285862 62.48529816
24 06 2018 07:00 2685.822998 10.5383997 3083.900517 64.27911377
24 06 2018 07:10 2768.525879 10.92494011 3245.291942 67.87391663
24 06 2018 07:20 2323.893066 9.645285606 2551.075589 64.22088623
24 06 2018 07:30 2520.073975 10.23727036 2931.022081 62.50381851
24 06 2018 07:40 2690.292969 10.65929031 3138.399758 67.77748871
24 06 2018 07:50
                 3235.249023 11.71249008 3469.985555 66.11975098
24 06 2018 08:00
                 3005.697021 11.12436008 3314.604951 64.84721375
                 2355.88501 9.793885231 2657.140361 61.93603897
24 06 2018 08:10
24 06 2018 08:20
                 2793.839111 10.92004967 3243.477608 62.40393829
24 06 2018 08:30
                 2791.61792 10.81546974 3203.323587 63.34268951
24 06 2018 08:40 2551.702881 10.34521961 2988.730676 63.98125076
24 06 2018 08:50 2184.031006 9.47726059 2455.058861 62.54217911
24 06 2018 09:00 2111.737061 9.469024658 2449.652589 66.81195831
24 06 2018 09:10 2110.285889 9.218852997 2285.923248 62.35198975
24 06 2018 09:20 2869.322998 10.92276955 3244.487363 62.7675705
                 3015.103027 11.38185024 3391.235932 65.90586853
24 06 2018 09:30
24 06 2018 09:40
                 2500.194092 10.22058964 2921.805325 63.35509109
24 06 2018 09:50
                 1650.564941 8.32890892 1723.595679 62.50471115
24 06 2018 10:00
                 1975.343994 9.152107239 2242.473849 66.79318237
24 06 2018 10:10 2522.730957 10.06910038 2834.323656 64.96685791
                 2577.75293 10.15013981 2881.976548 61.66268158
24 06 2018 10:20
24 06 2018 10:30
                 2759.762939 10.78201962 3189.925398 65.10201263
24 06 2018 10:40
                 2361.035889 9.822724342 2676.858158 61.635849
24 06 2018 10:50
                 2442.160889 9.69838047 2589.842439 62.74039841
24 06 2018 11:00 2685.243896 10.29856014 2964.19547 62.20259094
24 06 2018 11:10 2593.823975 10.22906017 2926.49577 61.79428101
24 06 2018 11:20 2291.572998 9.649661064 2554.307412 64.59017944
24 06 2018 11:30 2369.763916 9.801035881 2662.05522 62.60309982
24 06 2018 11:40 2432.635986 9.757803917 2632.078952 60.13162994
24 06 2018 11:50
                 2439.72998 10.05200005 2824.012642 60.76425934
24 06 2018 12:00
                 2527.39209 10.18560982 2902.21291 60.91648102
24 06 2018 12:10
                 2672.092041 10.71973991 3164.248088 61.78408051
                 2845.969971 10.82993984 3209.035359 59.08243179
24 06 2018 12:20
                 2431.316895 10.16283035 2889.259756 58.64284134
24 06 2018 12:30
                 1766.656006 8.708224297 1957.861964 58.15198898
24 06 2018 12:40
24 06 2018 12:50
                 2291.306885 9.887821198 2720.356458 57.05847931
24 06 2018 13:00
                 2765.600098 10.93675995 3249.653968 58.79714966
24 06 2018 13:10
                 2743.614014 10.75734043 3179.864987 57.22365189
24 06 2018 13:20
                 2872.106934 11.21772957 3344.018311 57.14445877
24 06 2018 13:30 2778.913086 10.82625008 3207.583703 57.09365845
24 06 2018 13:40
                 2650.98291 10.62899971 3125.098983 55.34410095
24 06 2018 13:50 2073.512939 9.428531647 2423.082495 54.66374969
24 06 2018 14:00 2638.204102 10.58790016 3106.674733 56.64720917
24 06 2018 14:10 2459.199951 10.18078995 2899.485006 57.07761002
24 06 2018 14:20 2682.987061 10.82765007 3208.134886 58.11595917
```

```
24 06 2018 14:30 2750.690918 10.5644598 3095.970358 55.64332962
                 2681.180908 10.61297989 3117.969466 57.16210938
24 06 2018 14:40
                 2681.738037 10.40948009 3021.521388 54.37520981
24 06 2018 14:50
24 06 2018 15:00
                 2921.389893 11.2579298 3356.105373 55.44095993
24 06 2018 15:10
                 3065.663086 11.6457901 3455.789341 56.86203003
24 06 2018 15:20
                 2542.091064 10.32374954 2977.517495 56.12664032
24 06 2018 15:30
                 2482.743896 10.33405018 2982.913435 56.13142014
                 2642.506104 10.68369007 3148.944004 58.13539124
24 06 2018 15:40
24 06 2018 15:50
                 2655.760986 10.64194965 3130.814081 59.21081924
24 06 2018 16:00
                 2843.76001 10.81684017 3203.866705 58.10668182
24 06 2018 16:10
                 3041.043945 11.22902012 3347.447751 56.91242981
24 06 2018 16:20 3029.879883 11.28894997 3365.198843 59.29566956
24 06 2018 16:30 2947.092041 11.08205986 3300.651777 57.72745895
24 06 2018 16:40 3064.418945 11.67236996 3461.546069 56.55332947
24 06 2018 16:50 3079.128906 11.67658043 3462.445839 57.8193512
24 06 2018 17:00 3012.096924 11.37870026 3390.382114 56.91957855
24 06 2018 17:10
                 3249.208984 11.7269001 3472.943976 55.61668015
24 06 2018 17:20 3142.466064 11.53707027 3430.846333 58.34500122
24 06 2018 17:30 3381.153076 12.40260029 3571.121113 57.55197906
                 3463.375977 12.55541039 3583.040099 59.70074081
24 06 2018 17:40
24 06 2018 17:50
                 3350.995117 12.27999973 3558.930331 59.53673935
24 06 2018 18:00
                 3381.656006 12.76966
                                         3593.820283 62.10379028
                 3277.218994 11.7859602 3484.671358 60.41799164
24 06 2018 18:10
24 06 2018 18:20
                 3235.811035 11.84385967 3495.554798 60.69746017
24 06 2018 18:30
                 2772.188965 10.76488972 3182.958327 59.01488113
24 06 2018 18:40 2728.215088 10.84465981 3214.79398 60.27561951
24 06 2018 18:50 2394.218018 10.03709984 2814.954737 57.83879089
24 06 2018 19:00 2443.157959 10.21253014 2917.323009 58.25313187
24 06 2018 19:10 2258.313965 9.876282692 2712.747476 58.81671143
                 2278.879883 9.925685883 2745.023138 60.69202042
24 06 2018 19:20
24 06 2018 19:30 2301.741943 10.01140022 2799.169992 61.89440155
24 06 2018 19:40
                 2077.346924 9.332139969 2359.924498 63.59120941
24 06 2018 19:50
                 2322.064941 9.923274994 2743.466354 64.55436707
24 06 2018 20:00 2785.702881 10.96815014 3261.080538 64.77597046
24 06 2018 20:10 2670.916016 10.82388973 3206.653356 67.09414673
                 2719.498047 10.93988991 3250.803599 65.47812653
24 06 2018 20:20
24 06 2018 20:30
                 2715.677002 10.76432037 3182.725526 66.62985229
                 2994.806885 11.47087955 3414.540238 68.98014832
24 06 2018 20:40
24 06 2018 20:50
                 3334.486084 12.37370014 3568.460852 71.25990295
24 06 2018 21:00 3134.207031 11.89947033 3505.444982 70.10965729
24 06 2018 21:10 2971.74707 11.28553009 3364.206221 69.32102203
24 06 2018 21:20 2885.073975 11.0481596 3289.181914 65.82717896
24 06 2018 21:30 2774.531982 10.99868011 3271.975792 64.83959961
24 06 2018 21:40
                 2237.506104 9.735955238 2616.689539 65.62177277
24 06 2018 21:50
                 2488.768066 10.37016964 3001.598651 68.28250885
24 06 2018 22:00
                 2631.63501 10.59521961 3109.987924 69.24961853
                 2430.916992 10.07528019 2838.027816 69.68234253
24 06 2018 22:10
                 2586.049072 10.5613203 3094.525748 70.50034332
24 06 2018 22:20
24 06 2018 22:30
                 3036.166992 11.58537006 3442.206787 71.7049408
24 06 2018 22:40
                 2681.422119 10.7044096 3157.779824 69.95527649
24 06 2018 22:50
                 2458.771973 10.14078999 2876.579813 68.3980484
24 06 2018 23:00
                 2772.924072 10.88424969 3230.024751 67.13450623
24 06 2018 23:10
                 2819.866943 11.02106953 3279.830362 67.6399765
24 06 2018 23:20
                 3052.187012 11.56081963 3436.488605 66.7768631
24 06 2018 23:30
                 2744.431885 10.79951
                                       3196.965006 66.69317627
24 06 2018 23:40 2883.845947 11.03483009 3284.601273 67.59703827
24 06 2018 23:50 2567.791016 10.40587997 3019.71461 66.18180847
25 06 2018 00:00 2372.38501 9.938581467 2753.318569 66.13864136
25 06 2018 00:10 1670.96106 8.412678719 1774.427597 65.91712952
```

```
25 06 2018 00:20
                 1146.801025 7.465603828 1240.187049 63.25381088
                 1125.918945 7.306826115 1160.318369 63.56539154
25 06 2018 00:30
25 06 2018 00:40
                 1161.475952 7.468067169 1241.455821 61.74608994
25 06 2018 00:50
                 1550.608032 8.279414177 1693.833186 63.20566177
25 06 2018 01:00 1763.167969 8.744347572 1980.667012 63.3519783
25 06 2018 01:10 1853.983032 8.782917976 2005.098077 63.69163895
25 06 2018 01:20 2041.348022 9.298119545 2337.672183 64.0539093
                 1977.27002 9.245201111 2303.107985 63.94247055
25 06 2018 01:30
25 06 2018 01:40
                 1804.234009 8.803154945 2017.948775 65.6832428
25 06 2018 01:50
                 1859.921021 8.907826424 2084.748399 63.37430954
25 06 2018 02:00
                 1461.083984 8.047109604 1557.088785 63.09368896
25 06 2018 02:10
                 1211.703979 7.463859081 1239.288958 58.25325012
25 06 2018 02:20
                 1031.207031 7.157458782 1088.475221 59.42087936
25 06 2018 02:30
                 1763.727051 8.723954201 1967.783203 58.57735062
25 06 2018 02:40
                 2254.139893 9.636846542 2544.823338 56.19583893
25 06 2018 02:50 2389.845947 10.24682999 2936.267651 61.24591827
25 06 2018 03:00 2558.254883 10.4925499 3062.22836 62.28800964
25 06 2018 03:10 2604.418945 10.51931
                                         3074.945227 61.11074066
25 06 2018 03:20 2260.302002 9.698783875 2590.133244 58.61738968
25 06 2018 03:30 2503.740967 10.28460979 2956.739714 61.81858063
                 2864.674072 10.96111965 3258.541163 59.95248032
25 06 2018 03:40
                 2872.991943 11.15497971 3324.459369 59.8239212
25 06 2018 03:50
25 06 2018 04:00
                 3124.876953 11.42508984 3402.753051 64.45715332
25 06 2018 04:10
                 3268.414063 11.85241985 3497.11291 62.07712936
25 06 2018 04:20 2930.069092 10.95425987 3256.052427 58.73804855
25 06 2018 04:30 2989.334961 11.08263969 3300.845724 60.80358887
25 06 2018 04:40 3212.331055 11.78913975 3485.284695 58.69322968
25 06 2018 04:50 3107.104004 11.69252014 3465.822172 58.63980103
25 06 2018 05:00 3211.319092 11.69163036 3465.634947 57.8763504
25 06 2018 05:10 2525.586914 10.33285046 2982.286508 61.78778076
25 06 2018 05:20 2391.98999 10.0650301 2831.877544 58.57707977
25 06 2018 05:30 2438.175049 10.06556034 2832.196492 54.35821915
25 06 2018 05:40 2396.210938 9.811475754 2669.200232 54.37332153
25 06 2018 05:50 2411.927979 9.94582653 2757.955819 56.0676918
25 06 2018 06:00 2207.198975 9.608611107 2523.722342 56.69112015
25 06 2018 06:10 1664.152954 8.433757782 1787.305694 55.96974945
25 06 2018 06:20
                 1943.791016 9.056814194 2180.679445 57.49399185
25 06 2018 06:30 2423.827881 9.868432999 2707.546263 55.06766129
25 06 2018 06:40 2460.833008 9.757512093 2631.874468 55.08628845
25 06 2018 06:50 2611.345947 10.34031963 2986.183004 55.42398071
25 06 2018 07:00 2328.583984 9.839614868 2688.278342 53.60139847
25 06 2018 07:10 2505.219971 10.35330963 2992.922202 59.97764969
25 06 2018 07:20 2622.079102 10.66845036 3142.375921 57.61611176
25 06 2018 07:30 2415.701904 10.10299969 2854.499295 57.23440933
25 06 2018 07:40 2138.999023 9.340391159 2365.324858 56.31623077
25 06 2018 07:50
                 1853.578979 8.928482056 2097.992218 57.01649094
                 1549.887939 8.249628067 1676.023201 52.83797073
25 06 2018 08:00
                 1479.014038 8.213614464 1654.594069 55.36420059
25 06 2018 08:10
25 06 2018 08:20 1612.860962 8.372915268 1750.228752 55.41936874
25 06 2018 08:30
                 1524.869995 8.367623329 1747.017702 53.96195984
25 06 2018 08:40
                 1694.744995 8.495961189 1825.503612 53.2772789
25 06 2018 08:50
                 1562.323975 8.403670311 1768.934458 54.39524841
25 06 2018 09:00
                 1507.829956 8.208208084 1651.387158 53.39205933
25 06 2018 09:10
                 1693.91394 8.672807693 1935.577361 55.78422165
25 06 2018 09:20
                 1699.776978 8.496998787 1826.143194 50.98083115
25 06 2018 09:30
                 1424.803955 7.996576786 1528.036971 50.7646904
25 06 2018 09:40
                 1180.563965 7.509633064 1262.944787 53.11920929
25 06 2018 09:50 1393.958008 7.920543194 1484.828599 50.29682159
25 06 2018 10:00 1686.151978 8.55964756 1864.901733 51.11539841
```

```
2317.481934 9.830321312 2682.006364 52.5248909
25 06 2018 10:10
                 2566.63208 10.39964008 3016.574554 53.20418167
25 06 2018 10:20
25 06 2018 10:30
                 2189.675049 9.513866425 2450.839274 52.12899017
25 06 2018 10:40 2201.643066 9.635174751 2543.581792 53.12221909
25 06 2018 10:50
                 2077.326904 9.288354874 2331.289602 52.23664093
25 06 2018 11:00
                 2551.718018 10.44997025 3041.597194 55.79272842
25 06 2018 11:10
                 2510.419922 10.49256039 3062.233382 55.5304718
25 06 2018 11:20
                 1610.19104 8.406096458 1770.41325 51.6517601
                 1339.949951 7.821891785 1429.711064 52.30400085
25 06 2018 11:30
                 1922.578003 9.232156754 2294.598027 53.37503815
25 06 2018 11:40
25 06 2018 11:50
                 2337.025879 10.04148006 2817.624621 53.61272049
25 06 2018 12:00
                 1972.93103 9.076906204 2193.682839 49.08916855
25 06 2018 12:10
                 1842.135986 8.73783493 1976.549982 50.11893082
25 06 2018 12:20
                 1392.744995 7.928620815 1489.389502 48.87815094
25 06 2018 12:30 1460.061035 8.12914753 1604.798693 53.83509827
25 06 2018 12:40 1973.333984 9.208703041 2279.308007 53.23722076
                 1669.055054 8.591594696 1884.770294 51.53158951
25 06 2018 12:50
25 06 2018 13:00 1713.322021 8.7178936 1963.95893 53.30582809
25 06 2018 13:10 2132.093994 9.712944984 2600.306179 55.43045044
25 06 2018 13:20 2308.966064 9.975482941 2776.763519 52.85435104
                 2544.729004 10.42942047 3031.464272 54.74613953
25 06 2018 13:30
                 2273.977051 9.956002235 2764.44059 56.01396179
25 06 2018 13:40
25 06 2018 13:50
                 2301.310059 9.928774834 2747.015041 55.05524063
25 06 2018 14:00
                 2281.964111 9.848773956 2694.43171 54.74821854
25 06 2018 14:10
                 2105.791992 9.411126137 2411.667699 48.39294052
25 06 2018 14:20 2246.879883 9.830580711 2682.181813 50.43531036
25 06 2018 14:30 2116.543945 9.438551903 2429.65568 49.67074966
25 06 2018 14:40 2135.379883 9.519310951 2455.115289 49.72510147
25 06 2018 14:50 1991.93396 9.116236687 2219.177736 50.04153061
25 06 2018 15:00
                 1828.737061 8.807055473 2020.428146 43.27172089
25 06 2018 15:10 1549.214966 8.252960205 1678.011735 44.16416168
25 06 2018 15:20 1654.896973 8.310608864 1712.567283 41.71545029
25 06 2018 15:30
                 1975.097046 8.986903191 2135.551342 35.87836838
25 06 2018 15:40 2047.332031 9.362949371 2380.095315 38.2563591
25 06 2018 15:50 1924.771973 8.921048164 2093.223592 40.15200043
25 06 2018 16:00
                 2373.995117 9.951836586 2761.789891 38.04014969
25 06 2018 16:10
                 2585.612061 10.66168022 3139.439218 39.5989418
25 06 2018 16:20
                 2525.25293 10.23612022 2930.38919 42.31248856
25 06 2018 16:30 2337.02002 9.846954346 2693.211435 38.90547943
25 06 2018 16:40 1934.667969 8.896280289 2077.353834 40.51522064
25 06 2018 16:50 1874.215942 8.871868134 2061.739994 50.65003967
25 06 2018 17:00 2093.506104 9.338703156 2364.219967 46.84386063
25 06 2018 17:10 1927.910034 8.950358391 2112.039444 47.58615112
25 06 2018 17:20
                 2517.388916 10.24419022 2934.821805 54.8532486
25 06 2018 17:30
                 2574.444092 10.26196957 2944.520877 54.60749054
25 06 2018 17:40
                 2594.289063 10.26813984 2947.865565 54.89562988
                 2719.677979 10.45538044 3044.245796 54.43809128
25 06 2018 17:50
                 2271.560059 9.71761322 2603.644617 52.93733978
25 06 2018 18:00
25 06 2018 18:10 2432.26709 10.16662979 2891.430949 57.46073914
                 2556.645996 10.41178989 3022.678719 59.18576813
25 06 2018 18:20
25 06 2018 18:30
                 2369.11792 9.921318054 2742.201327 60.33626175
25 06 2018 18:40
                 2170.299072 9.534916878 2467.312095 58.31420135
25 06 2018 18:50
                 2507.987061 10.23202038 2928.130008 55.87121964
25 06 2018 19:00
                 2627.599121 10.62500954 3123.329359 60.11230087
25 06 2018 19:10
                 2664.471924 10.74824047 3176.11757 63.61706924
25 06 2018 19:20
                 3054.933105 11.55885029 3436.024887 68.02628326
25 06 2018 19:30 2753.206055 10.82347965 3206.491583 69.40415192
25 06 2018 19:40 2663.113037 10.57061958 3098.797218 69.1671524
25 06 2018 19:50 2805.727051 11.19826984 3338.043541 74.16533661
```

```
25 06 2018 20:00
                 2855.00293 11.44340038 3407.516748 76.71922302
                 2810.97998 11.41644955 3400.481826 76.67162323
25 06 2018 20:10
25 06 2018 20:20
                 2696.496094 10.9976902 3271.625874 74.95777893
25 06 2018 20:30
                 2946.430908 11.70341969 3468.103699 77.09741974
25 06 2018 20:40 3249.842041 12.53979969 3581.986295 76.70841217
25 06 2018 20:50 3087.374023 11.98875999 3520.191353 74.62722778
                 3186.144043 11.85772991 3498.072885 74.97033691
25 06 2018 21:00
                 2934.145996 11.31060982 3371.42894 75.2229538
25 06 2018 21:10
25 06 2018 21:20
                 2779.697021 11.05875969 3292.796038 74.60125732
25 06 2018 21:30
                             9.705641747 2595.068351 71.25036621
                 2213.4729
25 06 2018 21:40
                 1398.458984 7.99059391 1524.614816 68.59638977
25 06 2018 21:50
                 1794.003052 8.857171059 2052.353643 69.95902252
25 06 2018 22:00
                 1475.154053 8.284598351 1696.940809 66.78391266
25 06 2018 22:10
                 1649.874023 8.542432785 1854.224241 66.30166626
                 1821.38501 8.942089081 2106.727092 66.53063965
25 06 2018 22:20
25 06 2018 22:30
                 2024.416016 9.359674454 2377.950448 70.6565094
25 06 2018 22:40
                 1742.131958 8.723475456 1967.481036 71.55561829
25 06 2018 22:50 2196.155029 9.710504532 2598.557942 74.25112915
25 06 2018 23:00 2452.549072 10.07353973 2836.985776 73.53141022
25 06 2018 23:10 2221.068115 9.77807045 2646.209594 74.22241211
25 06 2018 23:20 2702.687012 10.91209984 3240.516291 73.01785278
25 06 2018 23:30 2599.718994 10.60264969 3113.336967 73.13540649
25 06 2018 23:40
                 2872.381104 11.31095028 3371.526089 73.92928314
25 06 2018 23:50
                 3138.809082 12.01373005 3524.068903 74.58495331
26 06 2018 00:00 3039.384033 11.84961987 3496.604696 73.42427826
26 06 2018 00:10 2985.906006 11.66516972 3459.999708 73.14878082
26 06 2018 00:20 3036.543945 11.83067036 3493.128506 75.12394714
26 06 2018 00:30 3049.852051 12.27050972 3557.887156 76.69335938
26 06 2018 00:40 2957.88501 12.07649994 3533.347947 76.04354095
26 06 2018 00:50 2853.106934 11.44822025 3408.759545 74.69537354
26 06 2018 01:00 2675.269043 10.77472019 3186.965379 73.59719086
26 06 2018 01:10 2785.753906 10.97896004 3264.962769 73.77722168
26 06 2018 01:20 2875.461914 11.04669952 3288.682117 71.98291016
26 06 2018 01:30 2912.532959 11.2801199 3362.630905 72.36921692
26 06 2018 01:40 2908.008057 11.32472992 3375.43783 73.50113678
26 06 2018 01:50
                 2943.474121 11.19421959 3336.789761 70.27557373
26 06 2018 02:00
                 2944.822021 11.17770004 3331.639428 71.79747009
26 06 2018 02:10
                 2660.155029 10.63092041 3125.949347 71.14824677
26 06 2018 02:20
                 2832.052002 11.12182999 3313.781486 73.6317215
26 06 2018 02:30 2477.837891 10.33942986 2985.719652 74.05425262
26 06 2018 02:40 1753.791016 8.722811699 1967.062116 73.99049377
26 06 2018 02:50 1763.814941 8.702993393 1954.565908 73.24501801
26 06 2018 03:00 2175.168945 9.603792191 2520.092907 71.19609833
26 06 2018 03:10 2666.273926 10.86692047 3223.403939 74.78032684
26 06 2018 03:20
                 3210.37793 12.50271988 3579.334751 76.79340363
26 06 2018 03:30
                 3261.647949 12.54002953 3582.002078 76.88609314
                 3155.530029 11.88994026 3503.788897 74.88665771
26 06 2018 03:40
                 3018.674072 11.53417969 3430.152133 72.01835632
26 06 2018 03:50
26 06 2018 04:00 2371.460938 10.19221973 2905.942763 72.28987122
26 06 2018 04:10
                 1770.442017 8.66450882 1930.366547 70.45134735
26 06 2018 04:20
                 1657.564941 8.500683784 1828.41528 71.66134644
26 06 2018 04:30
                 1496.057007 8.241564751 1671.21527 72.62407684
26 06 2018 04:40
                 2007.050049 9.291238785 2333.174431 73.29855347
26 06 2018 04:50
                 1843.698975 9.017249107 2155.116637 74.62631226
26 06 2018 05:00
                 1561.61499 8.447704315 1795.844883 75.49873352
26 06 2018 05:10 980.1699219 6.882977009 964.1675934 76.33574677
26 06 2018 05:20 934.902771 6.870168209 958.598226 76.21485901
26 06 2018 05:30 1225.737061 7.535667896 1276.371529 77.53883362
26 06 2018 05:40 1462.362061 8.449235916 1796.783549 76.11283875
```

```
26 06 2018 05:50 1625.552979 9.051007271 2176.923961 75.15403748
                 1246.307007 7.950399876 1501.721914 75.55098724
26 06 2018 06:00
26 06 2018 06:10
                 1265.416016 8.264839172 1685.108714 75.49945831
26 06 2018 06:20 878.8300171 6.794187069 925.9689083 77.67951965
26 06 2018 06:30 811.5776978 6.538988113 821.3261287 78.82787323
26 06 2018 06:40 370.1170044 4.956399918 325.3603035 79.90023804
26 06 2018 06:50 535.4362793 5.909026146 594.724646 73.11064911
26 06 2018 07:00 597.4821167 5.943261147 606.0147097 71.91262054
26 06 2018 07:10 858.8085938 6.786351204 922.6432047 76.83036804
26 06 2018 07:20
                 985.8743286 7.109292984 1065.956863 76.91320038
26 06 2018 07:30 984.0584106 7.136349201 1078.568039 77.83054352
26 06 2018 07:40 737.5895996 5.980686188 618.4992259 78.92327881
26 06 2018 07:50 555.9906006 5.419445038 446.1225497 81.31143951
26 06 2018 08:00 483.5422974 5.317175865 417.9122653 79.29573822
26 06 2018 08:10 578.986084 5.705636978 530.1466492 75.40367126
26 06 2018 08:20 630.9326782 6.048902035 640.609325 75.57395172
26 06 2018 08:30 580.1939087 6.092225075 655.5429511 76.96013641
26 06 2018 08:40
                 781.5673828 6.81772995 936.005004 73.87769318
26 06 2018 08:50 843.4776001 7.008907795 1020.003805 73.18668365
26 06 2018 09:00
                 753.3905029 6.74194479 903.9334152 69.10695648
                 681.8178711 6.347996235 747.8045567 71.78157043
26 06 2018 09:10
26 06 2018 09:20
                 561.1066284 6.00396204 625.3302844 75.44313049
26 06 2018 09:30
                 480.1765137 5.762157917 547.6719022 77.46354675
26 06 2018 09:40
                 607.2158203 6.240784168 708.2758193 73.47725677
26 06 2018 09:50 582.9605713 6.117386818 664.3083584 65.66046143
26 06 2018 10:00 728.1875
                             6.66071701 870.3060219 60.79713821
26 06 2018 10:10 793.9354248 6.69242382 883.3412803 63.78910065
26 06 2018 10:20 434.5921021 5.487907887 465.5281051 63.90348053
26 06 2018 10:30 357.0773926 5.09010601 358.4480892 61.79354095
26 06 2018 10:40 84.63987732 3.565224886 59.64553009 54.97225952
26 06 2018 10:50 188.1882019 4.57019186 237.0065977 56.15914917
26 06 2018 11:00 126.5370026 3.996064901 127.2456999 52.17700958
26 06 2018 11:10 130.6703033 4.028056145 128.2265072 47.69289017
26 06 2018 11:20
                 151.407196 4.10500288 142.7442029 54.75328064
                 331.0114136 5.221736908 392.3995396 62.00376892
26 06 2018 11:30
26 06 2018 11:40
                 414.4472046 5.710330009 531.5897327 63.36203003
                 795.8112793 6.74921608 906.9811292 64.87911987
26 06 2018 11:50
26 06 2018 12:00
                 1254.000977 7.849304199 1444.916604 61.56676102
26 06 2018 12:10 999.3452759 7.642814159 1332.570958 52.27985001
26 06 2018 12:20 232.6938934 4.69340086 264.0968398 33.34022141
26 06 2018 12:30 130.5740967 3.950222969 118.6410303 23.35219955
26 06 2018 12:40 20.67100906 3.189801931 24.95564366 33.14564133
26 06 2018 12:50
                 16.77102089 3.408061028 42.37905706 62.41186905
26 06 2018 13:00
                 206.2093964 4.543561935 231.2776603 79.32460022
26 06 2018 13:10
                 365.1668091 5.379686832 435.0462662 71.04879761
26 06 2018 13:20
                 536.9611816 5.878832817 584.86971
26 06 2018 13:30
                 388.4249878 5.396067142 439.5926823 86.4537735
26 06 2018 14:10
                 0
                       3.796544075 92.24800748 0
                       3.760936022 86.67184304 149.2832947
26 06 2018 14:20
                 0
26 06 2018 14:30
                 0
                       2.13442111 0
                                         199.2252045
26 06 2018 14:40
                 0
                       4.40236187 201.6140434 200.7749939
26 06 2018 14:50
                 59.59358978 3.446867943 46.27505083 209.2770996
26 06 2018 15:00
                       2.776150942 0
                                         331.984314
26 06 2018 15:10
                       2.465764999 0
                                         36.02013016
                 0
26 06 2018 15:20
                       2.851671934 0
                                         63.11481857
                 0
26 06 2018 15:30
                 0
                       2.674597025 0
                                         43.21908951
26 06 2018 15:40
                 0
                       1.717790961 0
                                         60.06787109
26 06 2018 15:50 0
                       1.800616026 0
                                         66.35997772
                       3.575779915 60.9467581 60.13611984
26 06 2018 16:00 0
```

```
26 06 2018 16:10 0
                       2.29046011 0
                                         83.61329651
26 06 2018 16:20 0
                       2.783476114 0
                                         86.64781189
26 06 2018 16:30 0
                       3.29914999 32.73205701 62.9593811
26 06 2018 16:40 0
                       2.996191978 0
                                       66.17861938
26 06 2018 16:50 0
                       2.582385063 0
                                         75.78553772
26 06 2018 17:00 0
                       2.613109112 0
                                         118.9040985
26 06 2018 17:10 35.01190948 4.184467793 158.031501 128.1531982
26 06 2018 17:20 23.97771072 3.275382042 30.87904686 122.7843018
26 06 2018 17:30 0
                       2.052139997 0
                                         88.79876709
26 06 2018 17:40 0
                       2.055907965 0
                                         66.87966919
26 06 2018 17:50 0
                       2.345504045 0
                                         121.3311005
26 06 2018 18:00 0
                       3.943666935 117.4379247 155.5648041
26 06 2018 18:10 249.5578003 5.079833984 355.8570701 161.1746979
26 06 2018 18:20 82.89340973 4.072029114 136.4894909 174.2012024
26 06 2018 18:30 553.56427 5.096144199 359.9750462 200.3320007
26 06 2018 18:40 1840.427979 8.74118042 1978.664566 182.7877045
26 06 2018 18:50 1599.435059 8.095766068 1585.30565 187.7299957
26 06 2018 19:00 70.08648682 3.889425993 107.7479195 133.8103027
26 06 2018 19:10 141.363205 4.063212872 134.8257373 97.13233948
26 06 2018 19:20 204.9954071 4.242281914 169.3507802 106.3542023
26 06 2018 19:30 390.174408 5.314082146 417.0730965 101.0950012
26 06 2018 19:40 290.7026978 4.958889961 325.9640805 130.6300964
26 06 2018 19:50 557.7775269 5.830968857 569.4413388 159.593399
26 06 2018 20:00 934.52948 7.060115814 1043.281836 167.7407074
26 06 2018 20:10 943.3585205 7.071221828 1048.375062 174.3126984
26 06 2018 20:20 861.8853149 7.011174202 1021.026954 173.4096985
26 06 2018 20:30 571.5526733 6.20964098 697.0253685 176.4031067
26 06 2018 20:40 454.3833008 5.949117184 607.9583509 174.5852051
26 06 2018 20:50 459.5888977 5.943912029 606.2305602 178.4835968
26 06 2018 21:00 442.7116089 5.852464199 576.3408186 174.4783936
26 06 2018 21:10 410.2298889 5.801986217 560.2136078 172.5460968
26 06 2018 21:20 376.4724121 5.743400097 541.8204574 166.0093994
26 06 2018 21:30 590.7316284 6.374982834 757.9503796 167.2115021
26 06 2018 21:40 749.8098145 6.639204025 861.5274293 172.703598
26 06 2018 21:50 818.6483765 6.91960001 980.2024398 174.0733032
26 06 2018 22:00 1022.906982 7.402293205 1207.893338 172.9154968
26 06 2018 22:10 1319.484009 7.96777916 1511.59945 177.331604
26 06 2018 22:20 1395.651978 7.891952991 1468.742993 185.6903076
26 06 2018 22:30 1427.67395 8.122777939 1601.070874 189.9924011
26 06 2018 22:40 1171.03894 7.772199154 1402.368781 189.7440033
26 06 2018 22:50 970.7302246 7.372955799 1193.131734 189.4817047
26 06 2018 23:00 905.6516113 7.321204185 1167.399019 190.3110046
26 06 2018 23:10 752.5562134 6.883244991 964.2843282 189.858902
26 06 2018 23:20 656.0516968 6.697203159 885.316224 191.218399
26 06 2018 23:30 730.2860718 6.894674778 969.2713873 190.9069977
26 06 2018 23:40 819.9345703 7.015316963 1022.898858 195.6266937
26 06 2018 23:50 599.5734253 6.371068001 756.4736569 199.4738007
27 06 2018 00:00 582.5861816 6.315991879 735.8746899 200.5402069
27 06 2018 00:10 634.7376099 6.576742172 836.3379489 198.9642029
27 06 2018 00:20 603.1967163 6.574333191 835.3753026 195.5296021
27 06 2018 00:30 533.4329224 6.208234787 696.5198377 192.5079041
27 06 2018 00:40 589.7567749 6.470120907 794.3528021 193.6213074
27 06 2018 00:50 579.3696289 6.442942142 783.8521374 193.9223022
27 06 2018 01:00 560.0477905 6.434998989 780.7986076 195.5393982
27 06 2018 01:10 714.8952026 7.000991821 1016.435344 199.1468964
27 06 2018 01:20 771.5717163 7.142692089 1081.538621 200.5661011
27 06 2018 01:30 522.3195801 6.347373009 747.5711846 201.9732056
27 06 2018 01:40 420.177887 5.905156136 593.4561615 204.8721924
27 06 2018 01:50 559.3093262 6.417985916 774.2816931 207.270401
```

```
27 06 2018 02:00 573.4434814 6.513669968 811.3484491 205.6903076
                 302.7713013 5.146566868 372.8393338 199.1192017
27 06 2018 02:10
27 06 2018 02:20
                 162.6826935 4.357223034 192.3746845 202.2355042
27 06 2018 02:30 221.5245972 4.919257164 316.4087009 197.2024994
27 06 2018 02:40 393.2130127 5.709107876 531.2137235 190.8271942
27 06 2018 02:50 406.2435913 5.713335991 532.5151991 193.8892975
27 06 2018 03:00 262.3594055 4.913719177 315.082733 199.0045929
27 06 2018 03:10 314.2434082 5.161469936 376.680634 201.5540924
27 06 2018 03:20 558.5438843 6.106492996 660.5050558 203.0509033
27 06 2018 03:30
                 1155.348022 7.871197224 1457.121964 204.4579926
27 06 2018 03:40 1146.392944 7.726826191 1377.658844 205.927597
27 06 2018 03:50 1200.589966 8.020404816 1541.703286 203.6483002
27 06 2018 04:00 1451.516968 8.486968994 1819.964026 192.7088928
27 06 2018 04:10 3288.353027 12.28750992 3559.745653 188.4512024
27 06 2018 04:20 3466.143066 12.68113041 3590.191352 190.5115051
27 06 2018 04:30 2665.805908 10.43729973 3035.363086 179.1203003
27 06 2018 04:40 3415.837891 12.17006969 3545.954427 175.2584076
27 06 2018 04:50 3497.537109 12.79477024 3594.640677 180.7537994
27 06 2018 05:00 3603.97998 14.14887047 3600 190.0950928
27 06 2018 05:10 3581.833008 13.62246037 3600 188.7693024
27 06 2018 05:20 3561.5271
                             12.28584003 3559.565147 177.449295
27 06 2018 05:30 2879.514893 11.11791039 3312.503
                                                     176.8549042
27 06 2018 05:40
                 1731.052979 8.966031075 2122.115929 161.0276031
27 06 2018 05:50
                 1323.402954 8.06814003 1569.25585 169.1976013
27 06 2018 06:00 1500.110962 8.540528297 1853.044235 174.3697968
27 06 2018 06:10 1791.878052 9.134799004 2231.227979 177.5393982
27 06 2018 06:20 1309.812012 8.000211716 1530.117943 180.6407928
27 06 2018 06:30 927.5665283 7.171782017 1095.231531 186.1920013
27 06 2018 06:40 584.0640259 6.249383926 711.4008243 191.4781952
                 342.314209 5.331386089 421.7773831 203.1678009
27 06 2018 06:50
27 06 2018 07:00 218.243103 4.637845993 251.7610609 204.2207947
27 06 2018 07:10 74.97734833 3.620028019 66.59567615 209.2068024
27 06 2018 07:20 55.82249069 3.649187088 70.48949684 210.1363983
27 06 2018 07:30 2.533077002 2.093091965 0
                                               206.0484009
27 06 2018 07:40 0
                       1.228050947 0
                                         89.24710846
27 06 2018 07:50 0
                       2.103383064 0
                                         100.6933975
27 06 2018 08:00 0
                       2.958925009 0
                                         106.899498
27 06 2018 08:10 0
                       3.242758989 28.48284181 117.9019012
27 06 2018 08:20 0
                       3.423482895 43.89847362 116.5551987
27 06 2018 08:30 0
                       3.319212914 34.36656396 87.0421524
27 06 2018 08:40 0
                       2.09061408 0
                                         70.94714355
27 06 2018 14:00 0
                       0
                             0
                                   0
27 06 2018 14:10 0
                       5.820561886 566.1180059 0
27 06 2018 14:20 95.88883972 5.282392979 408.5246942 62.87527847
27 06 2018 14:30 648.5457153 6.424201012 776.6587269 53.95906067
                 706.1478882 6.441089153 783.1391859 51.60879135
27 06 2018 14:40
27 06 2018 14:50
                 721.0745239 6.551714897 826.3687017 51.42721176
27 06 2018 15:00 478.9570007 5.853923798 576.8110407 50.82624817
27 06 2018 15:10 598.8046265 6.025475979 632.6178146 57.41461945
27 06 2018 15:20
                 729.8983154 6.680482864 878.4185223 56.94950867
27 06 2018 15:30
                 545.4420166 5.97619009 616.9914689 51.83338165
27 06 2018 15:40 421.3182983 5.530940056 477.9445521 48.54486084
27 06 2018 15:50
                 417.8544006 5.499175072 468.762626 50.31829834
27 06 2018 16:00
                 712.5534058 6.618512154 853.1337923 52.78767014
27 06 2018 16:10
                 713.9393921 6.672820091 875.268151 50.96358109
27 06 2018 16:20
                 702.673584 6.674149036 875.8140309 47.13602066
27 06 2018 16:30 760.4639893 6.712276936 891.5624441 50.97436142
27 06 2018 16:40 978.2819824 7.313121796 1163.415108 49.90898132
27 06 2018 16:50 814.2144775 6.913297176 977.4310782 50.74745941
```

```
27 06 2018 17:00 888.7213745 7.066856861 1046.371372 53.86043167
27 06 2018 17:10
                 1193.409058 7.74672699 1388.466303 57.87908173
27 06 2018 17:20
                 1190.133057 7.740986824 1385.344103 59.49304962
27 06 2018 17:30 1377.276001 8.142484665 1612.616848 58.67271042
27 06 2018 17:40 1524.052979 8.517137527 1838.572161 57.11021042
27 06 2018 17:50 1469.654053 8.321401596 1719.068061 62.20980835
27 06 2018 18:00 1917.999023 9.5338974
                                          2466.518021 73.43549347
                 1733.692017 9.257702827 2311.267816 76.13670349
27 06 2018 18:10
27 06 2018 18:20 615.9332886 5.236957073 396.4167423 89.42442322
                 299.7416992 4.705198765 266.742639 117.2016983
27 06 2018 18:30
27 06 2018 18:40
                 83.98696899 3.484514952 50.28485753 138.0319977
27 06 2018 18:50 2.89586401 2.683825016 0
                                                191.4087982
27 06 2018 19:00 0
                        1.027680993 0
                                          220.1654968
27 06 2018 19:10 0
                        2.719981909 0
                                          329.811615
27 06 2018 19:20 0
                        2.973651886 0
                                          318.4010925
27 06 2018 19:30 0
                        3.067394018 18.51996488 291.7286072
27 06 2018 19:40 0
                        2.154634953 0
                                          278.8564148
27 06 2018 19:50 0
                        2.373970032 0
                                          300.7897949
27 06 2018 20:00 0
                        2.356509924 0
                                          335.3198853
27 06 2018 20:10 0
                        13.09031963 3600 233.6230927
27 06 2018 20:20 3179.183105 13.02898979 3600 214.9647064
27 06 2018 20:30
                 3508.628906 13.15093994 3600 201.7281036
27 06 2018 20:40
                 3319.012939 11.96224976 3515.957446 237.9888
27 06 2018 20:50
                 3056.770996 11.52367973 3427.616794 253.4972992
27 06 2018 21:00 2752.798096 10.58481979 3105.276221 246.6555939
27 06 2018 21:10 1595.452026 8.151576996 1617.956406 250.2173004
27 06 2018 21:20 1120.990967 7.517332077 1266.905834 257.9118042
27 06 2018 21:30 455.3904114 5.783816814 554.4722833 264.7983093
27 06 2018 21:40 274.7843933 5.14611721 372.7237126 258.7296143 27 06 2018 21:50 1500.022949 8.44140625 1791.986876 223.3728027
27 06 2018 22:00 3314.041992 12.23682022 3554.066964 233.6027985
27 06 2018 22:10 3319.178955 12.38547993 3569.560958 232.8338013
27 06 2018 22:20 2765.460938 10.69114017 3152.133532 233.5157928
27 06 2018 22:30 3117.883057 11.84772015 3496.259092 233.944397
27 06 2018 22:40 3567.833984 13.07371998 3600 230.5713043
27 06 2018 22:50
                 3550.080078 13.03567028 3600 223.207901
27 06 2018 23:00
                 3089.650879 11.95359993 3514.549749 215.7257996
27 06 2018 23:10
                 2926.606934 11.84138012 3495.101033 211.7413025
27 06 2018 23:20 2920.094971 11.93362999 3511.250221 209.3652039
27 06 2018 23:30 2600.896973 10.97834015 3264.740872 209.3394928
27 06 2018 23:40 2602.179932 10.48908997 3060.570154 216.4553986
27 06 2018 23:50 3109.154053 12.06175041 3531.227446 207.8329926
28 06 2018 00:00 2465.294922 10.18132973 2899.790847 210.5993958
28 06 2018 00:10 2001.552002 9.093164444 2204.215436 220.2615967
28 06 2018 00:20 1644.970947 8.619205475 1901.996445 227.6412964
28 06 2018 00:30 1513.017944 8.415064812 1775.883644 217.058197
28 06 2018 00:40
                 1540.828003 8.341411591 1731.146318 228.8359985
                 1431.885986 8.481747627 1816.750136 205.980896
28 06 2018 00:50
28 06 2018 01:00 1471.383057 8.385770798 1758.038577 199.4673004
28 06 2018 01:10
                 1290.088013 8.054821014 1561.545035 206.2070007
28 06 2018 01:20
                 1761.607056 9.175485611 2257.678068 201.8807983
28 06 2018 01:30
                 1633.76001 8.825379372 2032.08633 200.1634064
28 06 2018 01:40
                 1064.840942 7.580019951 1299.45298 202.7987976
28 06 2018 01:50
                 1210.220947 8.016307831 1539.349329 199.2537994
28 06 2018 02:00 1084.364014 7.86943388 1456.136899 197.0502014
28 06 2018 02:10 831.117981 7.131680965 1076.385181 194.1970978
28 06 2018 02:20 904.4140015 7.35570097 1184.508772 191.047699
28 06 2018 02:30 887.1370239 7.348344803 1180.845793 190.6282959
28 06 2018 02:40 768.0264282 6.904496193 973.5694754 192.6893005
```

```
28 06 2018 02:50 885.0305176 7.302173138 1158.033285 188.7111969
                 831.4511719 7.039610863 1033.920249 188.8309021
28 06 2018 03:00
                 766.0792236 6.924160004 982.2105342 188.7982025
28 06 2018 03:10
28 06 2018 03:20 815.93927
                            7.052465916 1039.782898 187.3721924
28 06 2018 03:30 869.9786987 7.351408005 1182.370148 183.5249023
28 06 2018 03:40
                 1258.869019 8.160243988 1623.053438 184.8883972
28 06 2018 03:50
                 1668.850952 8.980131149 2131.190191 186.4044952
                 1627.582031 9.105072021 2211.935261 182.1053925
28 06 2018 04:00
28 06 2018 04:10
                 1406.339966 8.334050179 1726.699036 181.1835022
                             7.876822948 1460.26702 183.4766998
28 06 2018 04:20
                 1216,625
28 06 2018 04:30
                 1290.463013 8.163955688 1625.238434 178.3887939
28 06 2018 04:40 1229.708008 7.97930479 1518.167743 180.6882019
28 06 2018 04:50
                 1095.905029 7.684532166 1354.85078 178.8822021
28 06 2018 05:00
                 1227.412964 7.724263191 1376.270451 175.7906952
28 06 2018 05:10 1714.286011 8.780082703 2003.299397 175.1726074
28 06 2018 05:20 1771.400024 8.810603142 2022.683913 177.9353027
28 06 2018 05:30
                 1341.947998 7.81742382 1427.240889 175.6911011
28 06 2018 05:40 1036.473999 6.984648228 1009.092936 172.6475067
28 06 2018 05:50 891.4854126 6.792469978 925.2395151 174.3522949
28 06 2018 06:00 681.4642944 6.239776134 707.9100374 177.969696
28 06 2018 06:10 595.472229 5.789175987 556.1622425 187.3323975
28 06 2018 06:20 576.7626953 6.01543808 629.2114641 190.3939972
28 06 2018 06:30 407.3190918 5.302730083 414.0009079 189.6390076
28 06 2018 06:40
                 122.1576004 3.749659061 84.94818664 193.1699066
28 06 2018 06:50 158.3824005 4.247774124 170.4349862 194.8200073
28 06 2018 07:00 157.2944946 4.164535046 154.1679002 186.1042938
28 06 2018 07:10 248.3146973 4.538618088 230.2188924 177.0393066
28 06 2018 07:20 241.1300049 4.612570763 246.2149044 178.1739044
28 06 2018 07:30 786.9846191 6.735259056 901.1366038 165.6732025
28 06 2018 07:40
                 361.9885864 5.127494812 367.9495962 165.2312012
28 06 2018 07:50 97.28888702 3.67866993 74.5648676 190.6965027
28 06 2018 08:00 578.5960083 6.003316879 625.1125102 179.5778961
28 06 2018 08:10 432.2124023 5.450218201 454.7926227 177.8972931
28 06 2018 08:20 470.4045105 5.686947823 524.4213355 182.2897034
28 06 2018 08:30 272.9395142 4.679104805 260.903146 186.2232971
28 06 2018 08:40 829.4232788 6.602767944 846.7797974 184.4701996
                 551.3510742 5.951723099 608.8244366 182.9261017
28 06 2018 08:50
28 06 2018 09:00
                 409.2272949 5.182559013 382.1472226 200.8731995
28 06 2018 09:10
                651.9594727 6.401374817 767.9493432 197.6078949
28 06 2018 09:20
                 456.9820862 5.555624962 485.1446624 196.7254028
28 06 2018 09:30 460.300415 5.597618103 497.5248054 198.0755005
28 06 2018 09:40 670.1757202 6.18394804 687.8221106 207.0572968
28 06 2018 09:50
                 315.5990906 5.126850128 367.7848209 205.0249939
28 06 2018 10:00
                 158.1134949 4.012047768 125.2400634 197.7039948
28 06 2018 10:10 609.4777832 6.315003872 735.5081673 198.2089996
28 06 2018 10:20
                 637.7805176 6.384438992 761.5242423 191.5475006
28 06 2018 10:30
                 441.734314 5.566536903 488.3456504 191.392807
                 164.2825012 4.269556046 174.7503872 201.4243011
28 06 2018 10:40
28 06 2018 10:50 5.252515793 1.980214
                                       0
                                               185.7480011
28 06 2018 11:00 0
                       1.009768009 0
                                         273.2680969
28 06 2018 11:10 0
                       1.541468978 0
                                         3.580737114
28 06 2018 11:20 0
                       1.580518007 0
                                         50.6196785
28 06 2018 11:30
                       1.128268003 0
                                         191.366394
28 06 2018 11:40 0
                       4.370563984 195.0935214 229.4373016
28 06 2018 11:50
                 1523.276001 7.834445
                                       1436.663591 236.2328949
28 06 2018 12:00
                 1986.758057 8.714138031 1961.590213 221.3088074
28 06 2018 12:10
                 1883.390015 9.46897316 2449.618787 211.5135956
28 06 2018 12:20 1523.514038 8.304540634 1708.916509 203.9172974
28 06 2018 12:30 854.0266724 6.662993908 871.2382385 213.3070068
```

```
28 06 2018 12:40 646.6055298 5.984955788 619.9330368 225.1578979
28 06 2018 12:50
                 759.3201904 6.524467945 815.5951025 226.0688019
28 06 2018 13:00
                 817.513916 6.728096008 898.1459246 227.2485046
28 06 2018 13:10
                 1448.371948 8.023936272 1543.733697 211.0196075
28 06 2018 13:20 2687.977051 10.64068031 3130.255792 212.7877045
                 3192.929932 12.06282997 3531.383894 212.9064941
28 06 2018 13:30
28 06 2018 13:40
                 2846.61499 11.2059803 3340.420613 208.4766998
                 3031.503906 11.5705204 3438.761922 212.129303
28 06 2018 13:50
28 06 2018 14:00
                 3593.562012 13.29751015 3600 210.3950958
                 3579.157959 13.64383984 3600
28 06 2018 14:10
                                               209.3858032
28 06 2018 14:20
                 3604.160889 13.82328987 3600 209.4658966
28 06 2018 14:30
                 3601.884033 12.98643017 3597.905691 207.7478943
28 06 2018 14:40 3578.762939 12.95291042 3597.713911 208.3130035
28 06 2018 14:50 3444.931885 12.47472
                                        3577.193323 206.0287933
28 06 2018 15:00 2328.138916 9.911293983 2735.702139 209.1826935
28 06 2018 15:10 1601.550049 8.332756996 1725.918241 201.0106964
28 06 2018 15:20
                 1727.526001 8.725223541 1968.584433 199.7248993
28 06 2018 15:30 1543.04895 8.342282295 1731.672636 198.7404938
28 06 2018 15:40 1812.839966 9.406497002 2408.632527 196.4859009
                             10.26177979 2944.417829 201.6092072
28 06 2018 15:50 2421.2771
28 06 2018 16:00 1981.944946 8.992271423 2139.009781 187.1667023
28 06 2018 16:10 1470.81604 7.74660778 1388.401422 194.4859924
                 2058.195068 9.120177269 2221.73495 198.1130066
28 06 2018 16:20
28 06 2018 16:30
                 2234.021973 9.819113731 2674.404667 197.8130951
28 06 2018 16:40 1886.452026 9.265707016 2316.494062 199.9232025
28 06 2018 16:50 1484.360962 8.390915871 1761.167925 210.8222046
28 06 2018 17:00 1093.751953 7.469759941 1242.328241 207.615799
28 06 2018 17:10 1382.463989 8.051522255 1559.638023 207.6141052
28 06 2018 17:20 1625.969971 8.648153305 1920.109446 206.5032959
28 06 2018 17:30
                 1952.994019 9.398555756 2403.426413 208.1405945
28 06 2018 17:40 1481.421997 8.449171066 1796.743801 207.1667938
28 06 2018 17:50 1292.133057 8.056470871 1562.499227 208.717804
28 06 2018 18:00 853.6204834 6.999638081 1015.825886 210.2440033
28 06 2018 18:10 865.0825195 6.96629715 1000.888869 214.2263031
28 06 2018 18:20 812.5413818 6.83814621 944.7619869 224.7686005
                 1072.157959 7.427024841 1220.436756 229.9725952
28 06 2018 18:30
28 06 2018 18:40
                 1246.421997 7.631300926 1326.460904 233.1880035
28 06 2018 18:50
                 907.4713135 7.089756966 1056.911104 234.8023987
28 06 2018 19:00 910.9257813 7.147080898 1083.597194 235.8730011
28 06 2018 19:10
                 1046.457031 7.401885033 1207.687085 232.509903
28 06 2018 19:20
                 1021.29303 7.650160789 1336.478597 224.766098
28 06 2018 19:30 1064.546997 7.63857317 1330.31831 223.1994934
28 06 2018 19:40 968.4912109 7.165557861 1092.292179 225.3587952
28 06 2018 19:50 808.4378052 6.864109993 955.9710255 227.3119965
28 06 2018 20:00 612.3544922 6.361569881 752.8977808 224.0061035
28 06 2018 20:10 550.8884277 6.064492226 645.9602293 226.5760956
28 06 2018 20:20 622.4880981 6.377151966 758.7693211 228.4152985
28 06 2018 20:30 641.8869019 6.510499001 810.1038297 224.7053986
28 06 2018 20:40
                 709.5703125 6.848424911 949.1897397 218.1053925
28 06 2018 20:50
                 1071.5
                             7.510991096 1263.642896 218.1329041
28 06 2018 21:00
                 1273.255981 7.872329235 1457.754529 220.911499
28 06 2018 21:10 931.0366821 7.085272789 1054.841873 222.4633942
28 06 2018 21:20
                 894.1226196 7.133646011 1077.303678 226.3466034
28 06 2018 21:30 964.1234131 7.283780098 1149.03058 224.3213043
28 06 2018 21:40 974.0427856 7.511894226 1264.107296 220.3582001
28 06 2018 21:50 825.4694824 6.767821789 914.8079013 219.9945984
28 06 2018 22:00 968.1160278 7.03737402 1032.902295 223.0928955
28 06 2018 22:10 1294.031006 7.896048069 1471.041465 225.5204926
28 06 2018 22:20 846.578186 7.170207024 1094.487247 218.4192963
```

```
28 06 2018 22:30 829.3344727 7.182639122 1100.371341 206.906601
28 06 2018 22:40 830.1895142 7.072751045 1049.077619 216.1945953
28 06 2018 22:50
                 774.4793091 6.951591015 994.3448469 218.5393982
28 06 2018 23:00
                 719.2401733 6.956761837 996.6427031 206.2068024
28 06 2018 23:10 867.3624268 7.131289005 1076.202033 192.2048035
28 06 2018 23:20
                 986.7363892 7.490427017 1253.015062 193.0841064
28 06 2018 23:30
                 1011.866028 7.705954075 1366.375596 191.0966949
                 1172.985962 7.874049187 1458.715908 192.6170044
28 06 2018 23:40
28 06 2018 23:50
                 1307.532959 8.153521538 1619.09937 196.0142975
                 1505.409058 8.381858826 1755.660632 200.6062927
29 06 2018 00:00
29 06 2018 00:10
                 1590.671997 8.566035271 1868.868879 199.3630066
29 06 2018 00:20
                 1414.866943 8.247606277 1674.817125 198.1533966
29 06 2018 00:30
                 1584.427979 8.570269585 1871.500163 197.0270996
29 06 2018 00:40
                 1923.561035 9.399259567 2403.887781 189.6334991
29 06 2018 00:50
                 2389.450928 10.25403023 2940.201075 191.4098969
29 06 2018 01:00
                 2337.850098 10.14206028 2877.314566 192.0957031
29 06 2018 01:10
                 2002.655029 9.595106125 2513.530056 191.740097
29 06 2018 01:20 2151.626953 9.705774307 2595.163585 193.5641022
29 06 2018 01:30 2176.158936 9.741054535 2620.295799 191.8643951
                 1911.391968 9.125398636 2225.124093 194.1455994
29 06 2018 01:40
                 1936.567993 9.008820534 2149.67871 199.7115936
29 06 2018 01:50
29 06 2018 02:00
                 1846.873047 9.010718346 2150.902893 203.5180054
29 06 2018 02:10
                 1303.383057 7.908270836 1477.912835 200.3697052
29 06 2018 02:20
                 1479.159058 8.239441872 1669.950412 200.259903
29 06 2018 02:30 1673.654053 8.604049683 1892.534702 202.6275024
29 06 2018 02:40 1558.036011 8.447361946 1795.635081 203.1414032
29 06 2018 02:50 1602.629028 8.561189651 1865.859209 199.9188995
29 06 2018 03:00 1327.036011 8.2091856 1651.966796 198.3652954
                 2106.201904 10.03495979 2813.648152 196.8381042
29 06 2018 03:10
29 06 2018 03:20 2190.131104 9.918246269 2740.213146 201.315506
29 06 2018 03:30 2514.931885 11.00189972 3273.112318 196.5066071
29 06 2018 03:40 2589.383057 11.08125019 3300.380827 188.6047058
29 06 2018 03:50 2278.037109 9.898793221 2727.551771 186.4806976
29 06 2018 04:00 1793.975952 9.032865524 2165.199274 185.2319031
29 06 2018 04:10 1740.435059 8.742503166 1979.500809 183.2669983
29 06 2018 04:20
                 1246.285034 7.609490871 1314.93279 187.1712036
                 1556.506958 8.27706337 1692.424771 189.5641937
29 06 2018 04:30
29 06 2018 04:40
                 1476.828003 8.149428368 1616.693898 189.4367065
29 06 2018 04:50
                 1001.348022 6.924387932 982.310975 192.4685974
29 06 2018 05:00 630.3535767 6.000089169 624.0236646 193.7747955
29 06 2018 05:10 823.223877 6.763758183 913.0950025 194.3639984
                 1270.857056 7.665783882 1344.811096 191.6112976
29 06 2018 05:20
29 06 2018 05:30
                 1067.973999 7.186416149 1102.163156 193.3959961
29 06 2018 05:40
                 1112.161987 7.238398075 1127.021691 196.7507019
29 06 2018 05:50
                 1083.482056 7.560217857 1289.115539 193.9866943
29 06 2018 06:00
                 888.5252075 6.841047764 946.0105969 198.0184021
29 06 2018 06:10 829.1558228 6.775873184 918.2075016 189.2324066
                 1159.149048 7.426280975 1220.058146 183.4174957
29 06 2018 06:20
29 06 2018 06:30 1954.743042 9.044091225 2172.452797 184.8695068
29 06 2018 06:40
                 1594.244995 8.199572563 1646.270313 190.0330963
29 06 2018 06:50
                 1259.671021 7.400238037 1206.855099 199.2162933
29 06 2018 07:00
                 1992.571045 9.252964973 2308.174995 192.735199
29 06 2018 07:10
                 1724.19397 8.498821259 1827.266766 196.0476074
29 06 2018 07:20
                 2330.190918 9.834229469 2684.647352 194.0675049
29 06 2018 07:30
                 2502.428955 10.22542953 2924.487918 191.4002991
29 06 2018 07:40 2705.61499 10.72159958 3165.028735 191.610199
29 06 2018 07:50
                 1996.692993 8.995020866 2140.78154 195.0086975
29 06 2018 08:00 2655.583008 10.47249985 3052.574463 191.9320984
29 06 2018 08:10 2364.729004 9.806789398 2665.997398 186.9273071
```

```
1561.161011 8.167326927 1627.224124 186.7017975
29 06 2018 08:20
29 06 2018 08:30
                 1926.714966 8.925138474 2095.8471
                                                     187.6486969
29 06 2018 08:40
                 1574.02002 8.108742714 1592.870512 189.5121002
29 06 2018 08:50
                 1696.61499 8.54479599 1855.688814 184.6045074
29 06 2018 09:00
                 1423.879028 8.110072136 1593.646437 192.0431976
29 06 2018 09:10
                 1571.703979 8.113516808 1595.657736 193.3654938
29 06 2018 09:20
                 1003.367981 7.23638916 1126.054077 204.8074036
                 2205.958984 9.593392372 2512.232043 204.9980927
29 06 2018 09:30
                 1975.72998 9.357382774 2376.449648 209.8143005
29 06 2018 09:40
                 2079.471924 9.545253754 2475.342255 210.8896027
29 06 2018 09:50
29 06 2018 10:00
                 2627.538086 10.82940006 3208.8232
                                                     210.8392944
29 06 2018 10:10 2734.033936 11.04747009 3288.945949 214.0785065
29 06 2018 10:20 2305.198975 9.896583557 2726.105839 208.3580017
29 06 2018 10:30 2357.183105 9.902011871 2729.655124 214.2698975
29 06 2018 10:40 1862.546997 9.014205933 2153.152928 214.3694
29 06 2018 10:50 2156.35791 9.416702271 2415.324176 218.9147949
29 06 2018 11:00 2460.550049 10.34920979 2990.800324 219.7967072
29 06 2018 11:10 3012.2771 11.57452965 3439.696173 218.7061005
29 06 2018 11:20 2524.572998 10.53973007 3084.521021 219.7182007
29 06 2018 11:30 2727.055908 10.84807014 3216.120718 217.6461945
29 06 2018 11:40 2052.77002 9.262677193 2314.515597 218.4528046
                 2107.582031 9.613061905 2527.067215 215.2602997
29 06 2018 11:50
                 2947.947021 11.63578987 3453.589071 210.7416992
29 06 2018 12:00
29 06 2018 12:10
                 2763.761963 10.92848015 3246.601791 221.1855927
29 06 2018 12:20 2568.49292 10.44810963 3040.684477 217.9510956
29 06 2018 12:30 2421.970947 10.0812397 2841.588855 214.8851013
29 06 2018 12:40 1029.692017 7.247550011 1131.436909 224.4272003
29 06 2018 12:50 450.5119019 5.530937195 477.9437209 232.2940979
29 06 2018 13:00 1027.60498 7.411478996 1212.541537 267.292511
29 06 2018 13:10 772.7161865 6.790002823 924.1921197 265.0956116
29 06 2018 13:20 205.8027954 4.619791985 247.7952921 257.880188
29 06 2018 13:30 481.2268066 5.706328869 530.3592656 233.0903931
29 06 2018 13:40
                 533.4058228 5.886827946 587.4699998 230.5075073
29 06 2018 13:50
                 261.1552124 4.635443211 251.2320553 235.4817963
29 06 2018 14:00 633.7954712 6.26561594 717.3209291 239.6849976
                 523.7459106 6.041956902 638.2339613 224.1889954
29 06 2018 14:10
29 06 2018 14:20
                 557.12323
                            6.047272205 640.0514303 222.0742035
                 441.3760986 5.683747768 523.4444552 222.5991974
29 06 2018 14:30
29 06 2018 14:40 532.53302 5.878689766 584.8232455 222.345993
29 06 2018 14:50 418.084198 5.486468792 465.1158165 227.571701
29 06 2018 15:00 728.2946777 6.523437977 815.1894737 225.3554993
29 06 2018 15:10 611.7907715 5.960599899 611.7801036 228.0500946
29 06 2018 15:20 782.8248901 6.67196703 874.9178531 227.3121948
29 06 2018 15:30
                 359.1532898 5.414153099 444.6401511 233.5303955
29 06 2018 15:40 528.644104 6.1439991 673.6527005 237.469101
29 06 2018 15:50
                 648.6604004 6.530676842 818.0428371 227.6199951
                 762.3225098 6.578972816 837.2299134 232.0758057
29 06 2018 16:00
                 1000.585999 7.37836504 1195.84394 229.2223969
29 06 2018 16:10
                 1026.83606 7.27970314 1147.041552 226.5917053
29 06 2018 16:20
29 06 2018 16:30
                 1196.276978 7.479969025 1247.599094 228.3717041
29 06 2018 16:40
                 883.3430786 6.798901081 927.9731508 228.5610046
29 06 2018 16:50 893.0609131 6.763925076 913.1653131 230.4284973
29 06 2018 17:00
                 838.6865234 6.796999931 927.1645263 228.1407013
29 06 2018 17:10
                 1401.97998 8.022996902 1543.193482 223.3016968
29 06 2018 17:20
                 1626.396973 8.555931091 1862.594866 224.8285065
29 06 2018 17:30
                 1382.901001 7.994410038 1526.797178 227.6638947
29 06 2018 17:40
                 1366.281982 7.869791031 1456.336387 229.1746063
29 06 2018 17:50 1738.498047 8.783034325 2005.171897 228.2631989
29 06 2018 18:00 2095.010986 9.744175911 2622.498897 224.3688965
```

```
2460.827881 10.54452038 3086.751409 226.2693024
29 06 2018 18:10
                 2752.123047 11.20407963 3339.835836 227.3343964
29 06 2018 18:20
29 06 2018 18:30
                 2718.083984 11.06968021 3296.493048 228.8959045
29 06 2018 18:40
                 2746.888916 10.90900993 3239.361295 229.9338989
29 06 2018 18:50
                 2855.871094 11.27118015 3360.014416 231.3592072
29 06 2018 19:00
                 3165.922119 12.07921982 3533.734983 232.2790985
                 3090.210938 11.82149982 3491.423162 229.655304
29 06 2018 19:10
                 2726.346924 10.83471012 3210.907256 225.5177002
29 06 2018 19:20
29 06 2018 19:30
                 2445.883057 10.21716022 2919.900371 224.572998
                 2306.066895 10.10336018 2854.711965 224.9013977
29 06 2018 19:40
29 06 2018 19:50
                 2528.22998 10.45643044 3044.758908 222.7086945
29 06 2018 20:00
                 2334.228027 10.01191998 2799.491264 222.6878052
29 06 2018 20:10 2423.080078 10.38766003 3010.515752 220.0200043
29 06 2018 20:20 2471.155029 10.59276009 3108.876159 217.8778076
29 06 2018 20:30 2533.750977 10.69069958 3151.945293 217.7068939
29 06 2018 20:40 2378.233887 10.42236996 3027.961138 215.085907
29 06 2018 20:50 2160.87207 9.989266396 2785.410066 213.5305939
29 06 2018 21:00 2456.166992 10.51830959 3074.473254 214.740799
29 06 2018 21:10 2738.163086 11.38778973 3392.840368 213.0901947
                 2681.593018 11.03544998 3284.815185 211.5957031
29 06 2018 21:20
                 2725.737061 10.91193962 3240.456458 210.6286926
29 06 2018 21:30
                 3046.202881 11.72531986 3472.621417 213.7725983
29 06 2018 21:40
29 06 2018 21:50
                 3290.944092 12.32135963 3563.308769 217.5256042
29 06 2018 22:00
                 3285.559082 12.24263954 3554.739914 216.7940979
29 06 2018 22:10
                 3519.327881 12.90021038 3597.088776 214.5939941
29 06 2018 22:20
                 3514.205078 12.85538006 3596.243876 216.3381042
29 06 2018 22:30 3337.904053 12.32929993 3564.118211 216.6735992
29 06 2018 22:40 3332.998047 12.45005989 3575.207552 215.3742065
29 06 2018 22:50 3152.426025 11.9589901 3515.42848 213.837204
29 06 2018 23:00 2990.207031 11.77579021 3482.697258 213.2545929
29 06 2018 23:10 2970.771973 11.86207008 3498.853799 212.6690979
29 06 2018 23:20 2860.718994 11.4056797 3397.629772 215.0639038
29 06 2018 23:30
                 3067.737061 11.98075962 3518.926378 218.9633026
29 06 2018 23:40
                 3258.111084 12.60171032 3585.949109 221.5769043
                 3280.149902 12.75533009 3593.310883 222.4317932
29 06 2018 23:50
30 06 2018 00:00
                 3270.947021 12.47033024 3576.846685 223.3513031
                 3008.615967 11.7972002 3486.831364 223.4700928
30 06 2018 00:10
                 3043.305908 12.01615047 3524.439099 218.9403076
30 06 2018 00:20
30 06 2018 00:30
                 2864.656006 11.63823986 3454.129868 220.2281036
30 06 2018 00:40
                 2547.572021 11.04417038 3287.815233 219.1488953
30 06 2018 00:50 2593.853027 11.01368046 3277.250777 218.2158966
30 06 2018 01:00 2656.695068 11.28046036 3362.73022 219.0258942
30 06 2018 01:10
                 2685.816895 11.32567978 3375.706025 220.1988068
30 06 2018 01:20
                 2906.000977 11.63558006 3453.542707 222.7926941
30 06 2018 01:30
                 2847.26001 11.22010994 3344.743598 228.0906067
30 06 2018 01:40
                 3072.662109 11.47198963 3414.820815 229.6631012
                 3177.787109 11.71856022 3471.236443 226.5142975
30 06 2018 01:50
                 3178.756104 12.03936005 3527.938301 223.0666962
30 06 2018 02:00
30 06 2018 02:10
                 2951.612061 11.71545029 3470.596422 225.348999
30 06 2018 02:20
                 2994.154053 11.69923019 3467.22935 224.4423981
30 06 2018 02:30
                 2878.521973 11.30010986 3368.421015 222.8078003
30 06 2018 02:40
                 2765.263916 11.15590954 3324.755416 222.7460022
30 06 2018 02:50
                 3043.51709 12.12232018 3539.702908 218.4208984
30 06 2018 03:00
                 3291.781006 12.61421967 3586.67976 217.6605072
30 06 2018 03:10
                 3296.912109 12.57211971 3584.127208 216.2348022
30 06 2018 03:20 3052.479004 12.01381016 3524.081171 214.8157043
30 06 2018 03:30 3277.97998 12.69882011 3591.008678 211.5276031
30 06 2018 03:40 3258.049072 12.70102024 3591.1071
                                                   209.1011047
30 06 2018 03:50 2972.748047 11.98552036 3519.680446 204.6542969
```

```
30 06 2018 04:00 3044.539063 11.96387005 3516.219698 201.0881042
                 3547.708008 12.8776598 3596.699872 199.9792938
30 06 2018 04:10
30 06 2018 04:20
                 3440.518066 12.85109997 3596.14809 196.7920074
30 06 2018 04:30 3393.512939 12.59677029 3585.654105 197.1419983
30 06 2018 04:40
                 3576.855957 13.2330904 3600 196.9996033
30 06 2018 04:50
                 3528.914063 13.37236023 3600 194.9351959
30 06 2018 05:00
                 3052.937012 11.88508987 3502.93988 190.5570984
                 2676.275879 11.04800034 3289.12742 189.594696
30 06 2018 05:10
30 06 2018 05:20
                 2180.414063 9.628152847 2538.356283 188.6847992
                 1386.160034 7.743078232 1386.481205 185.7810974
30 06 2018 05:30
30 06 2018 05:40
                 1586.380981 8.42959404 1784.759183 186.6199036
30 06 2018 05:50
                 1121.828979 7.363596916 1188.449306 191.9125977
30 06 2018 06:00
                 1278.634033 7.663510799 1343.59685 192.4082947
30 06 2018 06:10
                 1138.045044 7.391909122 1202.653874 195.7566071
30 06 2018 06:20
                 1108.514038 7.313540936 1163.621477 199.5408936
30 06 2018 06:30 1408.605957 8.134133339 1607.719362 196.0422058
30 06 2018 06:40
                 1642.472046 8.481633186 1816.679717 190.7355042
30 06 2018 06:50 1229.203979 7.70432806 1365.498829 197.1822968
30 06 2018 07:00 1464.276001 8.213086128 1654.280558 194.0048981
30 06 2018 07:10
                 1711.009033 8.661868095 1928.709338 192.2117004
30 06 2018 07:20
                 1875.374023 9.122930527 2223.521956 190.3939056
30 06 2018 07:30
                 1661.723999 8.594910622 1886.836437 187.7785034
30 06 2018 07:40
                 1553.829956 8.318254471 1717.171449 191.7830963
30 06 2018 07:50
                 1141.847046 7.397708893 1205.578275 193.1587067
30 06 2018 08:00
                 1668.666016 8.655180931 1924.514677 194.766098
30 06 2018 08:10 1544.380005 8.403549194 1768.860646 205.9732971
30 06 2018 08:20 1488.651001 8.241043091 1670.904417 204.2480011
                 1411.613037 8.175439835 1632.007041 207.2209015
30 06 2018 08:30
                 1403.901978 8.213400841 1654.467303 210.8479004
30 06 2018 08:40
                 2034.112061 9.511710167 2449.142807 207.756897
30 06 2018 08:50
30 06 2018 09:00
                 1484.564941 8.105324745 1590.876383 210.2008057
30 06 2018 09:10 2122.531982 9.638397217 2545.97406 215.0251007
30 06 2018 09:20
                 2814.616943 11.14655972 3321.769975 210.0043945
30 06 2018 09:30 2609.099121 10.70724964 3158.982552 213.3500061
                 1921.38501 9.183000565 2262.568828 215.287796
30 06 2018 09:40
                 1614.390015 8.354364395 1738.982346 217.8096924
30 06 2018 09:50
                 2149.243896 9.795666695 2658.366413 216.0709076
30 06 2018 10:00
                 2150.335938 9.660447121 2562.245681 214.5034943
30 06 2018 10:10
30 06 2018 10:20
                 2776.7771
                            11.2474699 3352.993383 207.3616028
30 06 2018 10:30
                 2862.579102 11.55243969 3434.510201 210.0870056
30 06 2018 10:40 2712.003906 11.0574398 3292.347396 207.6490936
30 06 2018 10:50 2847.916016 11.32796955 3376.351782 212.6165924
30 06 2018 11:00
                 1647.375
                           8.395801544 1764.141436 216.8056946
30 06 2018 11:10
                 1616.344971 8.390072823 1760.655021 219.6710968
30 06 2018 11:20
                 1080.203003 7.349709034 1181.524513 231.5814972
30 06 2018 11:30
                 1188.869995 7.631432056 1326.530399 244.1992035
                 1244.769043 7.549966812 1283.78443 240.9716949
30 06 2018 11:40
                 1213.873047 7.649744987 1336.257252 244.2483978
30 06 2018 11:50
30 06 2018 12:00
                 722.2216187 6.465074062 792.3967699 237.3034973
30 06 2018 12:10
                 1505.821045 8.196668625 1644.551156 236.2498932
30 06 2018 12:20
                 2400.461914 10.09864044 2851.924448 242.8106995
30 06 2018 12:30
                 2317.048096 9.974054337 2775.863908 220.8903046
30 06 2018 12:40
                 2550.298096 10.28695011 2957.99438 201.588501
30 06 2018 12:50
                 2237.929932 9.649868965 2554.460806 205.3410034
30 06 2018 13:00
                 2152.728027 9.361194611 2378.946033 214.2001038
30 06 2018 13:10
                 2081.320068 9.367699623 2383.206753 222.0827026
30 06 2018 13:20
                 1727.954956 8.674202919 1936.453828 226.2315979
30 06 2018 13:30 1639.843018 8.292442322 1701.647212 227.3278046
30 06 2018 13:40 1755.035034 8.75005722 1984.278389 224.8352051
```

```
30 06 2018 13:50 1380.779053 7.816113949 1426.517146 227.9550018
30 06 2018 14:00
                 888.9390869 6.921576023 981.0723052 230.4136047
                 1662.930054 8.562436104 1866.633242 225.1430969
30 06 2018 14:10
30 06 2018 14:20
                 1479.890991 8.173581123 1630.910708 226.978302
30 06 2018 14:30
                 707.7177734 6.260255814 715.362861 234.145401
30 06 2018 14:40
                 374.3716125 5.220148087 391.9812985 238.5932007
30 06 2018 14:50
                 538.309021 5.936366081 603.7308786 238.6020966
                 434.2481995 5.629840851 507.1381248 233.9595947
30 06 2018 15:00
30 06 2018 15:10
                 563.1798706 6.01389122 628.687497 227.395401
                 305.5426025 5.084908009 357.1359055 229.2297974
30 06 2018 15:20
30 06 2018 15:30
                 289.2383118 5.137613773 370.5402771 240.6885071
30 06 2018 15:40 508.6124878 5.959665775 611.4686771 247.7935028
30 06 2018 15:50 618.9204712 6.436580181 781.4059014 242.5709076
30 06 2018 16:00
                 1165.537964 7.70835495 1367.670772 249.6428986
30 06 2018 16:10 1545.780029 8.512545586 1835.735616 237.0592957
30 06 2018 16:20 2419.083984 10.25267982 2939.464507 235.4765015
30 06 2018 16:30
                 1934.197998 9.082847595 2197.530797 243.898407
30 06 2018 16:40 1926.19104 9.185788155 2264.38341 243.0780029
30 06 2018 16:50 1261.699951 7.820346832 1428.856655 242.258194
30 06 2018 17:00 1072.859009 7.411287785 1212.444651 243.6768036
                 1099.035034 7.464634895 1239.688243 248.3079987
30 06 2018 17:10
                 1260.025024 7.831906796 1435.25636 245.548996
30 06 2018 17:20
30 06 2018 17:30
                 1370.619019 8.066932678 1568.556143 244.6194
30 06 2018 17:40
                 1277.098999 7.836044788 1437.550925 248.9586029
30 06 2018 17:50
                 1682.409058 8.804059982 2018.523991 246.7050018
30 06 2018 18:00
                 1871.75
                             9.175706863 2257.822037 239.1414948
30 06 2018 18:10
                 1878.873047 9.025440216 2160.404005 242.4936066
                 1860.146973 9.046539307 2174.035259 246.8549042
30 06 2018 18:20
                 1927.911987 9.162828445 2249.444425 247.246994
30 06 2018 18:30
                 1935.285034 9.318360329 2350.908659 246.2830963
30 06 2018 18:40
30 06 2018 18:50 1972.812988 9.510954857 2448.548155 243.4122009
30 06 2018 19:00 1661.630005 8.754323006 1986.977708 238.5682068
                 1761.390015 8.833695412 2037.382923 236.6439972
30 06 2018 19:10
30 06 2018 19:20
                 1767.529053 8.916140556 2090.076867 243.2133026
                 1893.406982 9.284647942 2328.867137 242.8168945
30 06 2018 19:30
30 06 2018 19:40
                 1875.373047 9.374735832 2387.816185 235.9747925
30 06 2018 19:50
                 2028.594971 9.635808945 2544.052887 239.1380005
                 1615.714966 8.606883049 1894.302435 238.4691925
30 06 2018 20:00
30 06 2018 20:10 1656.777954 8.749195099 1983.732976 236.061203
30 06 2018 20:20
                 1763.328003 8.762334824 1992.050193 233.4998932
30 06 2018 20:30 2278.131104 10.0440197 2819.169888 230.4158936
30 06 2018 20:40 2141.018066 9.517104149 2453.383415 234.4264984
30 06 2018 20:50 2341.329102 10.00070953 2792.543089 237.904007
30 06 2018 21:00
                 1984.762939 9.325864792 2355.81828 234.8381042
30 06 2018 21:10
                 1814.609009 8.79302597 2011.514039 233.0325928
30 06 2018 21:20
                 2216.488037 9.728252411 2611.225246 240.1439972
                 1768.266968 8.672369957 1935.302403 239.8394012
30 06 2018 21:30
                 1684.334961 8.634046555 1911.276044 241.7554016
30 06 2018 21:40
30 06 2018 21:50
                 1849.337036 9.069320679 2188.771853 242.2857971
30 06 2018 22:00
                 1940.093018 9.328296661 2357.409507 238.6443939
30 06 2018 22:10
                 1956.340942 9.241650581 2300.791253 238.3930969
30 06 2018 22:20
                 2023.916992 9.512090683 2449.442307 241.0796051
30 06 2018 22:30
                 1675.676025 8.832813263 2036.820904 239.0422974
30 06 2018 22:40
                 1571.405029 8.408316612 1771.766886 231.9398956
30 06 2018 22:50
                 1522.112061 8.216787338 1656.477358 230.3237
30 06 2018 23:00
                 1337.266968 7.741856098 1385.816665 231.3598022
30 06 2018 23:10
                 1378.108032 7.979250908 1518.137004 239.0126038
30 06 2018 23:20 1365.593994 7.952558041 1502.946756 241.3708038
30 06 2018 23:30 1723.352051 8.612704277 1897.935931 247.1616974
```

```
30 06 2018 23:40 1568.94104 8.356040955 1739.99761 243.115799
                 1485.074951 8.17088604 1629.321624 238.883606
30 06 2018 23:50
01 07 2018 00:00
                 1473.840942 8.069483757 1570.034762 242.6972046
01 07 2018 00:10
                 1428.651978 8.144854546 1614.007829 244.8959961
01 07 2018 00:20
                 1346.494995 7.923680782 1486.599346 244.3899994
01 07 2018 00:30
                 1273.417969 7.939813137 1495.720774 243.6026001
01 07 2018 00:40
                 1502.305054 8.222449303 1659.840322 245.8531036
01 07 2018 00:50
                 1625.06897 8.464502335 1806.149422 248.5057068
01 07 2018 01:00
                 1736.475952 8.806610107 2020.145009 247.8968048
01 07 2018 01:10
                 1708.891968 8.841268539 2042.209393 246.2427063
01 07 2018 01:20
                 1354.010986 7.996041775 1527.730797 245.3623962
01 07 2018 01:30
                 1427.305054 8.118664742 1598.665686 245.9954987
01 07 2018 01:40
                 1351.019043 7.979687214 1518.385921 244.1558075
01 07 2018 01:50
                 1530.764038 8.345801353 1733.800446 244.4434967
01 07 2018 02:00 1548.103027 8.433931351 1787.411876 243.3542938
01 07 2018 02:10 1051.765991 7.403964043 1208.737881 237.4313965
01 07 2018 02:20
                 1094.553955 7.548171043 1282.851965 237.6844025
01 07 2018 02:30
                 1176.713013 7.676603794 1350.599795 241.5717926
01 07 2018 02:40 899.1439209 7.119966984 1070.920518 240.5751038
01 07 2018 02:50
                 878.0822754 7.102131844 1062.635208 237.3128967
01 07 2018 03:00
                 803.6442871 6.817595959 935.9476974 240.6506042
01 07 2018 03:10
                 671.5015869 6.497034073 804.8312307 241.0034027
01 07 2018 03:20
                 716.0308838 6.668243885 873.3899763 235.891098
01 07 2018 03:30
                 911.847229 7.084177017 1054.336628 238.5592957
01 07 2018 03:40
                 897.5018921 7.042607784 1035.285113 243.8395996
01 07 2018 03:50
                 899.8587036 7.074561119 1049.909602 241.9304047
01 07 2018 04:00 959.1262207 7.215701103 1116.121965 245.5247955
01 07 2018 04:10 884.0402832 7.14121294 1080.845407 248.3616943
01 07 2018 04:20
                 776.6292725 6.875937939 961.1044741 250.1011047
01 07 2018 04:30
                 694.0062256 6.595424175 843.8256359 246.8061066
01 07 2018 04:40
                 589.5203857 6.346152782 747.1143829 252.3518982
01 07 2018 04:50
                 410.9573059 5.748127937 543.2919748 254.196106
01 07 2018 05:00
                  254.1018066 5.108240128 363.042584 256.5133057
01 07 2018 05:10
                 91.7512207 4.070569992 136.2138853 253.4235992
01 07 2018 05:20
                  11.32818985 3.384597063 40.14029809 249.2427979
01 07 2018 05:30
                        2.525801897 0
                                          248.9234009
01 07 2018 05:40
                  0
                        2.739701986 0
                                          244.1354065
01 07 2018 05:50
                  0
                        2.516560078 0
                                          258.4895935
01 07 2018 06:00
                        2.007282972 0
                                          258.6332092
01 07 2018 06:10
                        1.51985395 0
                                          262,5728149
01 07 2018 06:20
                        1.468817949 0
                                          291.3302917
01 07 2018 06:30
                                          319.1832886
                 0
                        2.880832911 0
01 07 2018 06:40
                        3.008147001 16.26601393 328.3031921
                  0
                                          330.2413025
01 07 2018 06:50
                 0
                        2.369421005 0
01 07 2018 07:00
                 0
                        2.636543036 0
                                          333.9844971
01 07 2018 07:10
                        2.278240919 0
                                          332.2905884
01 07 2018 07:20
                 0
                        2.770143986 0
                                          323.5535889
01 07 2018 07:30
                 0
                        2.743292093 0
                                          330.6534119
01 07 2018 07:40
                  0
                        2.279534101 0
                                          321.6311951
                                          338.7771912
01 07 2018 07:50
                        2.563245058 0
01 07 2018 08:00
                  0
                        2.636049986 0
                                          1.955471039
01 07 2018 08:10
                        3.61660099 66.14697419 353.6792908
01 07 2018 08:20
                        2.663433075 0
                                          348.0480957
01 07 2018 08:30
                        1.775467038 0
                                          349.9912109
01 07 2018 08:40
                                          6.671824932
                  0
                        1.970268965 0
01 07 2018 08:50
                 0
                        1.814501047 0
                                          6.919956207
01 07 2018 09:00
                 0
                       2.259990931 0
                                          10.66738987
01 07 2018 09:10
                 0
                       2.037364006 0
                                          346.6375122
01 07 2018 09:20 0
                    2.481662989 0
                                          357.8275146
```

```
01 07 2018 09:30 0
                       2.522845984 0
                                         10.64311028
01 07 2018 09:40 0
                       2.338129997 0
                                         350.6918945
01 07 2018 09:50
                 0
                       2.43322897 0
                                         357,0020142
                       3.439523935 45.51926911 20.5903492
01 07 2018 10:00 0
01 07 2018 10:10 4.280790806 3.008544922 16.27927876 15.32458019
01 07 2018 10:20
                 5.29632616 2.861125946 0
01 07 2018 10:30
                 15.21916008 3.102895975 20.13967774 13.05908966
01 07 2018 10:40
                       3.204119921 25.86503283 22.70779037
01 07 2018 10:50
                59.72491074 3.833120108 98.18697255 26.63054085
01 07 2018 11:00
                 52.74053955 3.584656954 62.05492281 24.19113922
01 07 2018 11:10
                49.08435822 3.526259899 54.99627529 16.23654938
01 07 2018 11:20
                 16.37261963 3.028063059 16.96102071 15.66928005
01 07 2018 11:30
                -0.095733114
                                  2.674285889 0
                                                     21.89598083
01 07 2018 11:40 0
                       2.588860989 0
                                         13.29553032
01 07 2018 11:50 0
                       2.750960112 0
                                         18.93618965
01 07 2018 12:00 0
                       3.055813074 18.03522631 24.67892075
01 07 2018 12:10 0
                       3.449604988 46.55893124 21.35408974
01 07 2018 12:20 56.6525116 3.637145996 68.8650735 16.8313694
01 07 2018 12:30 54.14345932 3.654752016 71.24808072 21.2493
01 07 2018 12:40 5.591002941 2.702686071 0
                                               20.73181915
01 07 2018 12:50 0
                       3.153393984 22.79098463 20.28742981
01 07 2018 13:00 0
                       3.282129049 31.39587361 18.9274807
01 07 2018 13:10 19.07127953 3.150578022 22.63239596 28.79659081
01 07 2018 13:20 51.97045898 3.417737007 43.3279208 19.39006996
01 07 2018 13:30 58.59833908 3.719364882 80.41854283 20.4211998
01 07 2018 13:40 139.2758942 4.209249973 162.8627548 15.6843996
01 07 2018 13:50 193.0558929 4.60672617 244.9382254 20.89916039
01 07 2018 14:00 252.0332947 4.947999001 323.326689 22.87918091
01 07 2018 14:10 179.625
                          4.502697945 222.5709822 26.71349907
01 07 2018 14:20 264.4782104 4.913639069 315.0635689 23.52222061
01 07 2018 14:30 145.8954926 4.247679234 170.4162407 27.3492794
01 07 2018 14:40 144.9109955 4.296793938 180.1818888 27.57284927
01 07 2018 14:50 161.1446991 4.381357193 197.3004097 27.99951935
01 07 2018 15:00 180.2136993 4.456263065 212.7990114 40.66178894
01 07 2018 15:10 106.072998 3.964730024 121.3276824 43.95415878
01 07 2018 15:20 91.77288818 3.882858992 106.6066877 38.69726181
01 07 2018 15:30 122.9206009 4.062876225 134.7622781 38.42251968
01 07 2018 15:40 125.9141998 4.170865059 155.3927252 34.33686066
01 07 2018 15:50 215.5016937 4.66665411 258.1326481 44.01493835
01 07 2018 16:00 544.7523804 6.053792
                                       642.2848755 60.40262985
01 07 2018 16:10 677.6052246 6.562306881 830.579272 60.37255859
01 07 2018 16:20 905.1256714 7.186147213 1102.03551 60.86623001
01 07 2018 16:30 801.0985718 6.886398792 965.6588015 66.18689728
01 07 2018 16:40 850.9096069 7.121294022 1071.538675 74.04206848
01 07 2018 16:50
                 743.9458008 6.899613857 971.4313666 71.80734253
01 07 2018 17:00 549.3903198 6.308156967 732.9710582 71.52385712
01 07 2018 17:10 717.137085 6.896658897 970.1387311 71.89806366
01 07 2018 17:20 950.3646851 7.390552044 1201.970317 74.75402069
01 07 2018 17:30
                 702.3416138 6.976331234 1005.36947 76.61212158
01 07 2018 17:40
                 608.3709717 6.484116077 799.7917059 67.3761673
01 07 2018 17:50
                 480.8819885 5.974382877 616.3860349 56.81951141
01 07 2018 18:00 447.5898132 5.996808052 623.9235275 53.12707901
01 07 2018 18:10 565.2719116 6.278903008 722.1880659 47.18146896
01 07 2018 18:20 374.90979 5.638092995 509.6160814 52.33206177
01 07 2018 18:30 353.1404114 5.583891869 493.4597877 52.81830978
01 07 2018 18:40 395.2435913 5.770899773 550.4109516 48.31304169
01 07 2018 18:50 297.9509888 5.357509136 428.9284282 51.44987106
01 07 2018 19:00 376.9512939 5.667521 518.5063166 55.37086105
01 07 2018 19:10 244.1349945 4.994072914 334.5448457 50.16693115
```

```
01 07 2018 19:20 275.6932983 5.080668926 356.0673661 53.79455185
01 07 2018 19:30 92.1014328 3.90180707 109.9183055 40.81636047
01 07 2018 19:40 126.8411026 4.177190781 156.6186999 40.26766968
01 07 2018 19:50 166.7816925 4.53326416 229.0739903 43.7301712
01 07 2018 20:00 238.1293945 4.978500843 330.7354824 46.15274048
01 07 2018 20:10 180.3460999 4.630859852 250.2239954 44.37746048
01 07 2018 20:20 224.2268066 4.879703999 306.9874959 46.83665085
01 07 2018 20:30 210.2465973 4.835111141 296.5011494 44.8535614
01 07 2018 20:40 277.5469971 5.129249096 368.3981437 47.03638077
01 07 2018 20:50
                 265.8197937 5.052410126 348.9801771 44.53598022
01 07 2018 21:00
                 271.6612854 5.155518055 375.1443666 46.99670029
01 07 2018 21:10 201.1065063 4.632688046 250.6259249 46.51786041
01 07 2018 21:20 288.0297852 5.217092991 391.1776645 42.9108696
01 07 2018 21:30 313.7638855 5.335616112 422.931304 46.34674835
01 07 2018 21:40 286.7164001 5.173118114 379.6955252 44.91893005
01 07 2018 21:50 235.6473999 4.909201145 314.0026383 46.79338837
01 07 2018 22:00 393.289093 5.623223782 505.1558804 46.5627594
01 07 2018 22:10 512.4827271 6.085544109 653.2269181 41.30696106
01 07 2018 22:20 421.6413879 5.813708782 563.9356052 43.2284584
01 07 2018 22:30 453.5975952 5.987772942 620.8801625 43.67068863
01 07 2018 22:40 400.7598877 5.745238781 542.3924737 43.09223175
01 07 2018 22:50 385.4928894 5.654551983 514.578018 44.82252121
01 07 2018 23:00 414.4814148 5.798964977 559.256609 45.02495956
01 07 2018 23:10 416.40271 5.791856766 557.0086888 45.347229
01 07 2018 23:20 487.7540894 6.032947063 635.1601124 48.04069138
01 07 2018 23:30 472.1925049 5.953989983 609.5784319 49.85021973
01 07 2018 23:40 553.4597168 6.263373852 716.5015123 59.28633881
01 07 2018 23:50 629.590271 6.51236105 810.8345571 64.07102203
02 07 2018 00:00 695.7520752 6.622132778 854.5989744 63.86629105
02 07 2018 00:10 797.3519897 7.100399017 1061.832462 63.91040039
02 07 2018 00:20
                 782.6644287 6.944311142 991.1154124 68.75479889
02 07 2018 00:30 706.8552246 6.757287979 910.3716888 72.58486176
02 07 2018 00:40 767.8364868 6.942359924 990.2509531 72.15749359
02 07 2018 00:50 829.4608765 7.15955019 1089.460019 69.98947144
02 07 2018 01:00 1059.48999 7.66208601 1342.836081 73.05029297
02 07 2018 01:10 1041.52002 7.629148006 1325.320227 74.94185638
02 07 2018 01:20 923.4517212 7.31076479 1162.255073 76.58307648
02 07 2018 01:30 928.7111206 7.383196831 1198.270249 73.63613129
02 07 2018 01:40 914.0385742 7.363243103 1188.272538 72.90406799
02 07 2018 01:50 665.4608154 6.768304825 915.0116412 75.28218842
02 07 2018 02:00 667.2526855 6.585085869 839.6772067 77.14285278
02 07 2018 02:10 624.4957275 6.258608818 714.7618302 79.60090637
02 07 2018 02:20 674.3461914 6.677837849 877.3303204 74.27707672
02 07 2018 02:30 766.6080933 6.941084862 989.6863109 76.506073
02 07 2018 02:40 861.0842285 7.154747009 1087.199181 72.85738373
02 07 2018 02:50 963.5947876 7.436988831 1225.516206 71.6490097
02 07 2018 03:00 1014.958008 7.490641117 1253.126116 73.01058197
02 07 2018 03:10 1025.962036 7.721543789 1374.798207 76.09607697
02 07 2018 03:20 1075.766968 7.723321915 1375.760756 76.0817337
02 07 2018 03:30 1264.255005 8.165294647 1626.026965 75.37277222
02 07 2018 03:40
                 1260.090942 8.163283348 1624.842546 76.86086273
02 07 2018 03:50 1452.775024 8.661642075 1928.567517 76.93566132
02 07 2018 04:00 1524.800049 8.739453316 1977.572836 77.23568726
02 07 2018 04:10 1463.540039 8.591278076 1884.573047 75.4998703
02 07 2018 04:20 1432.963013 8.614276886 1898.9179 74.66439056
02 07 2018 04:30 1452.39502 8.552396774 1860.40194 75.34998322 02 07 2018 04:40 1810.18103 9.334159851 2361.246383 75.93170929
02 07 2018 04:50 1799.400024 9.237812996 2298.287564 75.39507294
02 07 2018 05:00 1729.347046 9.114157677 2217.82878 73.5226593
```

```
02 07 2018 05:10 1667.928955 8.935171127 2102.285169 73.60365295
                 1554.338013 8.74084568 1978.452959 73.87130737
02 07 2018 05:20
02 07 2018 05:30
                 1542.942017 8.575681686 1874.865108 73.43961334
02 07 2018 05:40 1377.703979 8.315964699 1715.792039 74.26470947
02 07 2018 05:50 1170.595947 7.867723942 1455.182001 73.5588913
02 07 2018 06:00 1038.980957 7.435270786 1224.639313 74.02629089
02 07 2018 06:10 913.0870972 7.084404945 1054.441709 72.29724121
02 07 2018 06:20 1007.309998 7.35575819 1184.537295 70.14380646
02 07 2018 06:30 868.8206177 7.072412014 1048.921834 70.25498199
02 07 2018 06:40 631.8598022 6.395947933 765.8870874 71.2649765
02 07 2018 06:50 807.6873169 6.783648014 921.4976065 69.8449173
02 07 2018 07:00 1041.965942 7.339272976 1176.339327 69.92420959
02 07 2018 07:10 1264.589966 7.878790855 1461.368013 70.35852051
02 07 2018 07:20 1003.700989 7.355480194 1184.398723 68.86656189
02 07 2018 07:30 849.5059814 6.800634861 928.7109625 60.89149094
02 07 2018 07:40 1095.697998 7.480310917 1247.775886 65.50449371
02 07 2018 07:50 1363.366943 8.161471367 1623.775826 69.91371918
02 07 2018 08:00 992.9838867 7.152252197 1086.026107 68.94785309
02 07 2018 08:10 961.9744263 7.045773029 1036.727892 76.82727051
02 07 2018 08:20 500.5297852 5.813786983 563.9604817 83.75282288
02 07 2018 08:30
                       6.168664932 682.3812078 86.60112
02 07 2018 08:40 599.5217285 6.274343014 720.5155684 74.23135376
02 07 2018 08:50
                 998.0247803 7.133407116 1077.191987 69.76714325
02 07 2018 09:00
                 762.3112183 6.67298317 875.3351264 66.59310913
02 07 2018 09:10 609.7321777 6.276894093 721.4509675 66.56842804
02 07 2018 09:20 877.7213745 6.7666502 914.3138511 57.65243912
02 07 2018 09:30 468.5686951 5.516923904 473.8815638 53.41624832
02 07 2018 09:40 432.8146057 5.276323795 406.8972594 50.86545181
02 07 2018 09:50 350.9450989 5.094789028 359.6320954 45.84057999
02 07 2018 10:00 650.9984131 5.98983717 621.5746971 32.9179306
02 07 2018 10:10 683.5864868 6.351029873 748.9411293 32.7937088
02 07 2018 10:20 630.913208 6.016233921 629.4811387 42.21371078
02 07 2018 10:30
                 1011.491028 7.269947052 1142.291363 59.65689087
02 07 2018 10:40
                 1409.594971 8.130433083 1605.551538 68.25205994
02 07 2018 10:50
                 1429.733032 8.092752457 1583.55119 66.93575287
02 07 2018 11:00
                 344.8146973 6.992267132 1012.511541 86.49093628
02 07 2018 11:10
                 0
                       6.14281702 673.2360315 93.01551819
02 07 2018 11:20
                 0
                       6.764058113 913.2213632 81.69106293
02 07 2018 11:30
                       8.319428444 1717.878846 79.92501068
02 07 2018 11:40 0
                       6.206765175 695.991734 65.07306671
02 07 2018 11:50 0
                       6.295486927 728.2895526 111.3516006
02 07 2018 12:00 0
                       8.223655701 1660.557243 81.64885712
02 07 2018 12:10 0
                       6.014527798 628.9030937 0
02 07 2018 12:20 0
                       6.076561928 650.1206577 0
02 07 2018 12:30 0
                       5.999669075 624.8890627 21.35688972
02 07 2018 12:40 0
                       8.362421989 1743.863822 13.88541031
02 07 2018 12:50 495.3544922 6.370676041 756.3258966 21.81866074
02 07 2018 13:00
                 765.2119751 6.435225964 780.8857656 26.39175987
02 07 2018 13:10
                 764.9556885 6.627306938 856.6954256 29.70694923
02 07 2018 13:20
                 717.6749878 6.300065994 729.9794909 28.82690048
02 07 2018 13:30
                 772.2418823 6.644310951 863.6065662 28.70031929
02 07 2018 13:40 835.9077759 6.793599129 925.719121 26.92305946
02 07 2018 13:50
                 1149.772949 7.575045109 1296.851078 28.50683022
02 07 2018 14:00
                 1072.589966 7.451097012 1232.733909 29.61037064
02 07 2018 14:10
                 1245.297974 7.538320065 1277.744417 29.88776016
02 07 2018 14:20 1279.390015 7.816822052 1426.908369 29.69182968
02 07 2018 14:30 1358.432983 8.003119469 1531.783601 38.47652054
02 07 2018 14:40 1149.751953 7.376373768 1194.845012 41.47182083
02 07 2018 14:50 1007.513977 7.127026081 1074.211457 36.95595932
```

```
02 07 2018 15:00 911.0574951 6.791666031 924.8981313 38.2491188
02 07 2018 15:10 630.0023804 6.192783833 690.9791287 41.61206055
02 07 2018 15:20 622.0474854 6.166777134 681.7108719 54.0319519
02 07 2018 15:30 1420.136963 8.185026169 1637.666476 55.88750076
02 07 2018 15:40 1629.217041 8.711725235 1960.068845 55.47917175
02 07 2018 15:50 1439.197021 8.237667084 1668.893262 55.70954132
                 1543.962036 8.458907127 1802.714768 60.76015091
02 07 2018 16:00
                 1445.477051 8.389062881 1760.040654 62.71752167
02 07 2018 16:10
02 07 2018 16:20 1330.746948 8.080939293 1576.682419 60.17967987
02 07 2018 16:30
                 1249.812988 7.904287815 1475.67186 63.7968483
02 07 2018 16:40
                 1337.645996 8.110782623 1594.061187 67.77146912
02 07 2018 16:50 1239.475952 7.932376862 1491.51271 70.08753967
02 07 2018 17:00
                 1310.109009 8.105768204 1591.135044 67.84269714
02 07 2018 17:10
                 1668.031982 8.856840134 2052.142418 68.76242065
02 07 2018 17:20 1770.259033 9.159845352 2247.504571 71.27165985
02 07 2018 17:30 1845.93396 9.475144386 2453.669669 70.30570984
02 07 2018 17:40 2111.333984 10.11159992 2859.562237 71.08032227
02 07 2018 17:50 2281.386963 10.56739044 3097.316533 71.73742676
02 07 2018 18:00 2285.090088 10.24825954 2937.0498
                                                     69.09087372
02 07 2018 18:10 2148.295898 10.17607021 2896.80711 66.17279053
02 07 2018 18:20 2128.532959 10.03561974 2814.051225 65.59356689
02 07 2018 18:30 2270.01001 10.34620953 2989.244548 69.02584839
02 07 2018 18:40
                 2306.458008 10.46901035 3050.883241 70.31125641
02 07 2018 18:50
                 2286.045898 10.4467001 3039.992411 70.28592682
02 07 2018 19:00 2192.148926 10.19402981 2906.961904 68.92629242
02 07 2018 19:10 2216.180908 10.21772003 2920.211565 67.72962189
02 07 2018 19:20 2276.099121 10.32518959 2978.273661 66.36676788
02 07 2018 19:30 2247.793945 10.24147034 2933.329968 66.25578308
02 07 2018 19:40 2344.816895 10.42780018 3030.660415 64.94888306
02 07 2018 19:50 2305.88501 10.42632961 3029.930218 65.49163818
02 07 2018 20:00 2332.800049 10.55086994 3089.698466 67.11134338
02 07 2018 20:10 2172.426025 10.39503956 3014.252579 68.30991364
02 07 2018 20:20 2004.416992 9.876336098 2712.782794 68.5267334
02 07 2018 20:30 1848.108032 9.228011131 2291.89437 69.29554749
02 07 2018 20:40 1731.593018 9.000302315 2144.185793 67.83146667
02 07 2018 20:50
                 1830.978027 9.2732687
                                         2321.432733 70.89022827
02 07 2018 21:00
                 1856.225952 9.253951073 2308.818666 71.55071259
                 1912.366943 9.440570831 2430.980224 70.18565369
02 07 2018 21:10
02 07 2018 21:20 1839.43103 9.160614967 2248.005013 69.83442688
02 07 2018 21:30 1675.901978 8.914869308 2089.261929 71.67910767
02 07 2018 21:40 1549.172974 8.67730999 1938.406084 70.88398743
02 07 2018 21:50 1275.087036 8.140021324 1611.171576 68.53766632
02 07 2018 22:00 1297.031006 8.156543732 1620.876464 69.4151535
02 07 2018 22:10
                 1271.676025 8.090947151 1582.500605 72.38155365
02 07 2018 22:20
                 1355.942993 8.357229233 1740.717327 74.83508301
02 07 2018 22:30
                 1397.234985 8.426888466 1783.105186 76.4806366
                 1324.295044 8.264167786 1684.707272 76.46875763
02 07 2018 22:40
02 07 2018 22:50
                 1103.199951 7.957489967 1505.747686 76.91748047
02 07 2018 23:00
                 1081.448975 7.789638042 1411.931202 74.71053314
02 07 2018 23:10
                 1078.074951 7.798639774 1416.881202 73.005867
02 07 2018 23:20
                 1047.79895 7.739607811 1384.594619 75.9556427
02 07 2018 23:30
                 1007.031006 7.685852051 1355.559226 77.59528351
02 07 2018 23:40
                 1028.349976 7.922770023 1486.085234 78.02835083
02 07 2018 23:50 858.9478149 7.291910172 1153.004025 79.15535736
03 07 2018 00:00 938.2987061 7.444218159 1229.210947 76.41706085
03 07 2018 00:10 1010.27002 7.610561848 1315.497448 75.94107819
03 07 2018 00:20 959.3931885 7.633049011 1327.387523 78.06537628
03 07 2018 00:30 492.0494995 5.111674786 363.9157332 84.39424133
03 07 2018 00:40 358.443512 4.893176079 310.1836479 90.8984375
```

```
03 07 2018 00:50 188.0848999 4.11381197 144.4238457 99.05293274
03 07 2018 01:00 162.5523987 4.033600807 129.2635681 87.14762878
03 07 2018 01:10 88.37671661 3.307411909 33.39734764 88.97499847
03 07 2018 01:20 195.9051056 4.487820148 219.426078 82.87415314
03 07 2018 01:30 522.1635742 6.146698952 674.6049267 76.16828156
03 07 2018 01:40 516.8239746 6.309135914 733.3334949 74.87538147
03 07 2018 01:50 358.526886 5.604733944 499.639207 68.77596283
03 07 2018 02:00 401.9674988 5.646566868 512.1674521 71.87484741
03 07 2018 02:10 334.3537903 5.371066093 432.6630565 73.91248322
03 07 2018 02:20 499.827301 6.192070961 690.7241105 75.32002258
03 07 2018 02:30 540.251709 6.377241135 758.8029971 69.94616699
03 07 2018 02:40 531.9456787 6.312517166 734.5861367 72.61730957
03 07 2018 02:50 373.9448853 5.737174988 539.8863239 75.66825867
03 07 2018 03:00 373.7750854 5.556437969 485.3827703 73.97525787
03 07 2018 03:10 504.1087952 6.356192112 750.8774929 75.0344162
03 07 2018 03:20 574.8521729 6.674081802 875.7864088 75.20796967
03 07 2018 03:30 461.5057983 6.150047779 675.7871268 75.94085693
03 07 2018 03:40 291.3140869 5.082205772 356.4545934 77.18132782
03 07 2018 03:50 148.9839935 4.260297775 172.9131211 79.2335968
03 07 2018 04:00 70.92356873 3.322086096 34.60591132 86.5474472
03 07 2018 04:10 45.03345871 3.337336063 35.8984036 90.13289642
03 07 2018 04:20 6.279401779 2.994534016 0
                                               99.38529968
03 07 2018 04:30 40.42341995 3.805372
                                         93.66182863 105.6268997
03 07 2018 04:40 120.8988037 3.89426589 108.5934271 105.1955032
03 07 2018 04:50 58.34352112 3.434513092 45.00854912 100.4916
03 07 2018 05:00 190.1195984 4.550782204 232.8266406 107.9919968
03 07 2018 05:10 143.5617981 4.113984108 144.4567043 109.4192963
03 07 2018 05:20 16.7213192 2.861334085 0
                                           92.10447693
03 07 2018 05:30 57.96334076 3.331366062 35.38799136 99.11418152
03 07 2018 05:40 95.70986938 3.663491011 72.44933804 104.1439972
03 07 2018 05:50 155.447998 4.127222061 146.9878738 105.1220016
03 07 2018 06:00 119.1924973 3.762080908 86.84797386 101.8422012
03 07 2018 06:10 78.29563141 3.359273911 37.82298456 92.50514984
03 07 2018 06:20 62.53562164 3.454329014 47.05171667 89.27864838
03 07 2018 06:30 23.38973045 2.857615948 0
                                             94.37902069
03 07 2018 06:40
                 0.487665504 2.52302599 0
                                               99.72725677
03 07 2018 06:50 0
                       3.360199928 37.90591677 106.510498
03 07 2018 07:00 31.27883911 3.524508953 54.79305785 96.20826721
03 07 2018 07:10 0
                       2.21409297 0
                                         94.75125885
03 07 2018 07:20 0
                       3.371018887 38.88500551 101.5727005
03 07 2018 07:30 14.64605999 3.101717949 20.08269766 95.09848785
03 07 2018 07:40 58.31729889 3.576261997 61.00661507 96.67288971
03 07 2018 07:50 68.36962128 3.581393003 61.64600207 99.47683716
03 07 2018 08:00 28.3232193 3.105897903 20.28588219 96.97351074
03 07 2018 08:10 0
                       2.72781992 0
                                         96.34316254
03 07 2018 08:20 0
                       2.94986105 0
                                         103.7496033
03 07 2018 08:30 0
                       2.588171005 0
                                         90.00248718
03 07 2018 08:40 0
                       3.494488001 51.38508667 81.80713654
03 07 2018 08:50 127.2794037 4.11146307 143.9756168 72.30042267
03 07 2018 09:00 187.8115997 4.532516003 228.9141412 77.4988327
03 07 2018 09:10 87.52792358 3.76581502 87.42389217 81.17881012
03 07 2018 09:20
                 189.802597 4.610626221 245.7899024 70.31532288
03 07 2018 09:30
                 31.01775932 3.295953035 32.47755306 64.24578094
03 07 2018 09:40 32.24723053 3.254585028 29.33180379 85.87526703
03 07 2018 09:50 54.62208939 3.562330008 59.29176323 80.81242371
03 07 2018 10:00 58.42070007 3.66396594 72.5149717 73.3762207
03 07 2018 10:10 37.66991043 3.55705905 58.65107237 69.28764343
03 07 2018 10:20 4.584743023 2.721860886 0
                                           65.20130157
03 07 2018 10:30 0 2.368114948 0 41.94049835
```

```
03 07 2018 10:40 0
                       2.775203943 0
                                         44.49448013
03 07 2018 10:50
                 0
                       2.403393984 0
                                         32.31319046
03 07 2018 11:00
                       2.699050903 0
                 0
                                         51.96916962
03 07 2018 11:10
                 100.3015976 4.728257179 271.9405207 67.62795258
03 07 2018 11:20
                 252.4586945 4.98918581 333.3473499 63.79346848
03 07 2018 11:30
                 159.7640076 4.397480965 200.6094472 59.6039505
                 169.6849976 4.517200947 225.6494625 60.96374893
03 07 2018 11:40
03 07 2018 11:50
                 58.09812164 3.397859097 41.39483994 54.35535812
03 07 2018 12:00
                 21.40851974 3.094619989 19.74407505 28.63911057
03 07 2018 12:10
                 123.5028
                             3.973052979 122.8842632 16.21108055
03 07 2018 12:20
                 124.3507004 4.104706764 142.687806 21.95070076
03 07 2018 12:30
                 85.23087311 3.800749063 92.91989505 25.15208054
03 07 2018 12:40
                 68.63381195 3.628947973 67.77237939 32.35850906
03 07 2018 12:50
                 77.41029358 3.879367113 106.0026692 25.47989082
03 07 2018 13:00 74.12117004 3.773535967 88.6217823 25.13038063
03 07 2018 13:10 84.83656311 3.879488945 106.0237106 23.12022018
03 07 2018 13:20
                 113.467598 4.066428185 135.4320982 26.22611046
03 07 2018 13:30
                 155.870697 4.276200771 176.071785 32.80886078
03 07 2018 13:40
                 108.137001 3.950623989 118.7148451 31.93260002
03 07 2018 13:50
                 70.56005859 3.621301889 66.76294349 30.07774925
03 07 2018 14:00
                 44.84146118 3.478849888 49.66697362 37.81454086
03 07 2018 14:10
                 26.09141922 3.25612998 29.4443647 35.72489929
03 07 2018 14:20
                 76.94731903 3.715095997 79.79205468 45.27363968
                 96.53775787 3.76147294 86.75441722 43.69575882
03 07 2018 14:30
03 07 2018 14:40
                 18.91106987 3.155630112 22.91782211 42.75004959
03 07 2018 14:50
                 75.75926971 3.7676301 87.70464087 47.88011932
                 226.7449951 4.74241209 275.1490553 47.02069092
03 07 2018 15:00
                 260.2540894 4.911218166 314.484649 46.45183182
03 07 2018 15:10
03 07 2018 15:20
                 313.5765991 5.172990799 379.6625124 53.42897034
03 07 2018 15:30 559.2244263 6.211195946 697.5846305 57.04819107
03 07 2018 15:40 584.4407959 6.3071208 732.5875496 55.45898056
03 07 2018 15:50 570.4384155 6.305315971 731.9198191 56.11532974
03 07 2018 16:00
                 511.3464966 6.168027878 682.1549543 53.6271286
03 07 2018 16:10
                 537.6583252 6.164762974 680.9960868 55.43037033
03 07 2018 16:20 574.8773804 6.292271137 727.1040944 56.85102081
                 859.7670288 7.055539131 1041.187625 57.85771179
03 07 2018 16:30
03 07 2018 16:40
                 969.5123901 7.240705013 1128.133542 57.91188049
03 07 2018 16:50
                 927.5004883 7.227414131 1121.737999 58.29141998
03 07 2018 17:00
                 1114.656006 7.63302803 1327.376399 58.52700043
03 07 2018 17:10 882.3779907 7.160600185 1089.954662 52.0544281
                 1093.223999 7.670770168 1347.476962 52.5773201
03 07 2018 17:20
03 07 2018 17:30 1177.182983 7.777353764 1405.191515 45.2974205
03 07 2018 17:40 828.8218994 6.942941189 990.5084245 48.24264908
03 07 2018 17:50
                 1195.050049 7.848483086 1444.459889 57.31568909
03 07 2018 18:00
                 1656.215942 8.982615471 2132.789859 62.51749039
                 1688.39502 8.968987465 2124.017858 67.26407623
03 07 2018 18:10
                 1247.222046 7.897800922 1472.025868 68.78163147
03 07 2018 18:20
03 07 2018 18:30
                 1358.321045 8.156190872 1620.668934 72.51763916
                 1523.33606 8.738242149 1976.807339 76.25248718
03 07 2018 18:40
03 07 2018 18:50
                 1522.069946 8.705552101 1956.17798 74.92041016
03 07 2018 19:00
                 1370.765991 8.465848923 1806.976382 72.68132782
03 07 2018 19:10
                 1168.848022 7.909429073 1478.564824 73.36031342
03 07 2018 19:20
                 1105.483032 7.813778877 1425.227442 71.28856659
03 07 2018 19:30
                 1009.533997 7.552740097 1285.225317 71.8443222
03 07 2018 19:40 906.6801147 7.328350067 1170.929126 70.41396332
03 07 2018 19:50 950.2340088 7.41960001 1216.661418 68.33495331
03 07 2018 20:00 922.9785767 7.360517979 1186.911655 64.67627716
03 07 2018 20:10 904.4367065 7.216994762 1116.741305 65.39465332
03 07 2018 20:20 1006.804993 7.527427197 1272.11176 66.67915344
```

```
03 07 2018 20:30 1125.237061 7.809861183 1423.065047 66.19676971
03 07 2018 20:40
                 1261.322998 8.054245949 1561.212511 67.26072693
03 07 2018 20:50
                 1262.912964 8.041658401 1553.94228 70.27600098
03 07 2018 21:00
                 1093.17395 7.852170944 1446.511729 66.98901367
03 07 2018 21:10
                 1036.779053 7.452398777 1233.401408 63.37308884
03 07 2018 21:20
                 1010.981018 7.507565022 1261.882171 61.76985931
03 07 2018 21:30
                 1061.629028 7.611680984 1316.087655 62.1814003
                 1136.083008 7.814268112 1425.497604 59.43976974
03 07 2018 21:40
03 07 2018 21:50
                 1242.629028 7.955648899 1504.701806 61.71908951
03 07 2018 22:00
                 1219.781006 7.915836811 1482.174492 63.8800087
03 07 2018 22:10
                 1334.603027 8.168231964 1627.757379 64.91449738
03 07 2018 22:20
                 1372.737061 8.244885445 1673.194612 61.75268936
03 07 2018 22:30
                 1356.094971 8.311768532 1713.265316 59.39878845
03 07 2018 22:40
                 1377.600952 8.308241844 1711.142865 58.31682968
                 1317.43396 8.09912014 1587.259366 58.13591003
03 07 2018 22:50
                 1285.676025 8.078508377 1575.270669 55.2492218
03 07 2018 23:00
03 07 2018 23:10
                 1220.780029 7.999573231 1529.752316 54.48503113
03 07 2018 23:20 1180.930054 7.986693859 1522.386035 55.59632111
03 07 2018 23:30 1095.234985 7.75094223 1390.761586 57.77069855
                 1103.656006 7.769581795 1400.936686 56.12792969
03 07 2018 23:40
03 07 2018 23:50
                 1151.324951 7.91597414 1482.251903 60.51622009
                 1263.994019 8.183977127 1637.046745 63.53369904
04 07 2018 00:00
04 07 2018 00:10
                 1294.156006 8.127288818 1603.710475 63.89989853
04 07 2018 00:20
                 1488.300049 8.590236664 1883.924318 66.32495117
04 07 2018 00:30
                 1617.020996 8.850248337 2047.936082 65.80615997
04 07 2018 00:40 1608.178955 8.901244164 2080.532124 68.44238281
04 07 2018 00:50
                 1511.656982 8.799613953 2015.698636 69.73718262
04 07 2018 01:00 1657.824951 8.956469536 2115.967253 68.59854889
                 1797.069946 9.238509178 2298.741735 66.65733337
04 07 2018 01:10
04 07 2018 01:20
                 1911.348022 9.450710297 2437.633065 65.99127197
04 07 2018 01:30
                 2043.391968 9.681863785 2577.887726 64.32620239
04 07 2018 01:40
                 2107.220947 9.852311134 2696.800713 62.45005035
04 07 2018 01:50
                 2098.520996 9.930040359 2747.830229 63.78039169
04 07 2018 02:00 2123.559082 9.902853966 2730.204871 64.07621765
04 07 2018 02:10 2052.37207 9.754265785 2629.597806 63.30305099
                 2030.535034 9.623811722 2535.117054 62.23814011
04 07 2018 02:20
04 07 2018 02:30
                 1981.292969 9.534910202 2467.306896 64.14324188
04 07 2018 02:40
                 2019.400024 9.638195992 2545.824783 65.11235809
04 07 2018 02:50 2055.779053 9.85265255 2697.029157 65.99456024
04 07 2018 03:00 2078.737061 9.964678764 2769.943965 69.69859314
04 07 2018 03:10 1999.274048 9.820287704 2675.202883 68.98114777
04 07 2018 03:20 1996.725952 9.680445671 2576.856903 66.82250214
04 07 2018 03:30 1939.537964 9.593248367 2512.122925 67.1607132
04 07 2018 03:40
                 2088.179932 10.12794018 2869.120097 70.24224091
04 07 2018 03:50
                 2126.008057 10.25195026 2939.066353 70.54123688
                 2245.610107 10.17313957 2895.140992 70.98227692
04 07 2018 04:00
                 2228.052002 10.02000999 2804.481026 70.14865112
04 07 2018 04:10
                 2127.185059 9.931075096 2748.496373 68.71180725
04 07 2018 04:20
04 07 2018 04:30 2070.675049 9.8250103 2678.409283 68.43357849
04 07 2018 04:40
                 2047.46106 9.749368668 2626.156664 70.65155029
04 07 2018 04:50
                 2037.470947 9.791897774 2655.771286 73.24568939
04 07 2018 05:00
                 2026.93103 9.919851303 2741.252366 74.86372375
04 07 2018 05:10
                 2036.057007 9.97389698 2775.76478 76.85162354
04 07 2018 05:20
                 1777.459961 9.523940086 2458.74242 77.45999146
04 07 2018 05:30
                 1851.051025 9.48601532 2460.806387 76.11138916
04 07 2018 05:40 1826.222046 9.517995834 2454.083413 74.46878052
04 07 2018 05:50
                 1627.046997 8.949279785 2111.346361 75.57737732
04 07 2018 06:00 1536.947021 8.742556572 1979.534575 76.11283875
04 07 2018 06:10 1066.706055 7.598807812 1309.308406 72.30023193
```

```
1137.676025 7.695460796 1360.723215 69.62058258
04 07 2018 06:20
                 939.1317749 7.266881943 1140.801743 67.65574646
04 07 2018 06:30
04 07 2018 06:40
                 906.0269775 7.078076839 1051.52679 68.04514313
04 07 2018 06:50
                 927.9578247 7.106935978 1064.862831 69.93757629
04 07 2018 07:00
                 1017.130005 7.346840858 1180.097877 69.97038269
                 909.5708008 7.005177975 1018.321437 69.44597626
04 07 2018 07:10
04 07 2018 07:20
                 1096.740967 7.541828156 1279.561814 68.7624588
                 877.659729 6.983396053 1008.531788 69.58998871
04 07 2018 07:30
04 07 2018 07:40
                 757.7728882 6.739836216 903.0507801 71.17504883
04 07 2018 07:50
                 724.9727173 6.650403023 866.0906789 70.68270111
04 07 2018 08:00
                 845.6392822 6.977506161 1005.894948 66.79665375
                 675.7897949 6.33168602 741.7109368 67.02877045
04 07 2018 08:10
04 07 2018 08:20
                 651.4260254 6.392408848 764.5439413 62.50484085
04 07 2018 08:30
                 771.7415771 6.751737118 908.0392554 64.07245636
04 07 2018 08:40
                 727.0838013 6.680397987 878.38359
                                                      65.95079803
04 07 2018 08:50
                 672.7097168 6.511734009 810.5884432 66.60166931
                 634.7271118 6.354926109 750.4023456 69.08229828
04 07 2018 09:00
04 07 2018 09:10
                 578.4700928 6.209164143 696.8539202 65.76526642
04 07 2018 09:20
                 565.8815918 6.176154137 685.0442976 61.29204941
                 641.1359863 6.344147205 746.3639297 61.75556946
04 07 2018 09:30
04 07 2018 09:40
                 618.7520142 6.472976208 795.4606918 65.66741943
                 729.4071045 6.778376102 919.2658897 63.97378922
04 07 2018 09:50
04 07 2018 10:00
                  675.8261719 6.554493904 827.4722063 64.84957886
04 07 2018 10:10
                 553.7000122 6.218115807 700.0765855 64.3558197
04 07 2018 10:20
                 490.5750122 5.95458889 609.7777278 66.79322815
04 07 2018 10:30
                 445.565094 5.578564167 491.886802 63.14593887
04 07 2018 10:40
                 380.251709 5.464284897 458.7842496 60.98165894
                 298.9580078 4.964187145 327.2500639 43.5774498
04 07 2018 10:50
                 426.6033936 5.563777924 487.5352542 26.25101089
04 07 2018 11:00
                 458.2092896 5.535264969 479.2019378 27.54721069
04 07 2018 11:10
04 07 2018 11:20
                 450.1473999 5.72860384 537.2295926 25.45631981
04 07 2018 11:30
                 536.1453247 5.933627129 602.8250625 29.45862007
04 07 2018 11:40
                  546.755188 6.129715919 668.6280511 24.01843071
04 07 2018 11:50
                 549.4636841 5.913152218 596.0787942 27.74099922
04 07 2018 12:00
                 511.7673035 5.895223141 590.2075866 25.67494011
04 07 2018 12:10
                  535.9246826 6.009950161 627.3537005 30.94004059
04 07 2018 12:20
                  419.6755066 5.629650116 507.0809284 29.39253998
                 332.0954895 5.104333878 362.0506873 33.84841156
04 07 2018 12:30
04 07 2018 12:40
                 292.3338928 4.929611206 318.8938282 25.8878994
04 07 2018 12:50
                 225.2084961 4.609622002 245.5705129 26.86322021
04 07 2018 13:00
                 423.3786926 5.543897152 481.7167908 27.14340019
                 403.851593 5.49725914 468.2117883 23.06661034
04 07 2018 13:10
04 07 2018 13:20
                 367.0353088 5.445081234 453.3393988 25.17670059
04 07 2018 13:30
                 391.3164063 5.494991779 467.5603493 28.07671928
04 07 2018 13:40
                 375.7486877 5.521777153 475.2863566 29.58794975
                  381.8678894 5.465513229 459.1336587 28.70265007
04 07 2018 13:50
04 07 2018 14:00
                  523.4188232 6.011778831 627.9723819 29.1671505
04 07 2018 14:10
                 507.3081055 6.011325836 627.8190898 30.51859093
04 07 2018 14:20
                 633.434082 6.297198772 728.9210568 26.56962013
04 07 2018 14:30
                  549.3950195 6.115524769 663.6573724 31.78059006
04 07 2018 14:40
                  607.5344849 6.231870174 705.0450122 36.62475967
04 07 2018 14:50
                 430.2514038 5.546387196 482.443519 33.49607849
04 07 2018 15:00
                 510.1408997 5.832097054 569.8022809 37.61581039
04 07 2018 15:10
                 368.1223145 5.377089024 434.3274113 34.15359116
04 07 2018 15:20
                 364.8327026 5.521790981 475.2903624 38.64588165
04 07 2018 15:30
                 211.9915009 4.716632843 269.3156873 41.29444122
04 07 2018 15:40
                 117.167099 4.140520096 149.539013 48.17301941
04 07 2018 15:50
                 255.1593018 4.910736084 314.369418 51.88278961
04 07 2018 16:00 530.4326782 6.141983032 672.9421504 59.49837875
```

```
04 07 2018 16:10 622.7852173 6.502445221 806.9477089 62.17921066
                 771.3394165 6.857207775 952.9832484 65.3601532
04 07 2018 16:20
04 07 2018 16:30
                 789.9204712 6.915537834 978.4157355 69.56774902
04 07 2018 16:40
                 620.5939941 6.566269875 832.1578966 75.60482025
04 07 2018 16:50
                 688.7811279 6.801608086 929.1252761 74.97422791
04 07 2018 17:00
                 678.0906982 6.584963799 839.6282959 72.11945343
04 07 2018 17:10
                  665.227417 6.588294983 840.9636283 70.68036652
                 734.0134277 6.893793106 968.8861255 70.05506134
04 07 2018 17:20
04 07 2018 17:30
                 608.593689 6.503829956 807.4898468 73.26309204
04 07 2018 17:40
                 572.0012817 6.493356228 803.394559 72.95683289
04 07 2018 17:50
                 654.3250122 6.766123772 914.091913 70.92552948
04 07 2018 18:00
                 622.1542969 6.658092022 869.2320273 72.5513382
04 07 2018 18:10
                 648.1337891 6.525034904 815.8184366 70.84248352
04 07 2018 18:20
                 741.5452881 6.943894863 990.9309462 64.48455048
04 07 2018 18:30
                 926.7836304 7.376907825 1195.112866 63.15658951
04 07 2018 18:40
                881.3306274 7.300403118 1157.164836 57.84189987
04 07 2018 18:50
                 856.3900757 7.266012192 1140.379291 59.79785919
04 07 2018 19:00
                 890.3295288 7.242281914 1128.893969 50.98566055
                 861.2067871 7.163701057 1091.416318 51.20085907
04 07 2018 19:10
                 979.1323242 7.469737053 1242.316442 51.47668839
04 07 2018 19:20
04 07 2018 19:30
                 887.4500732 7.300924778 1157.420739 56.35771179
                 864.2642212 7.361054897 1187.179698 68.4484024
04 07 2018 19:40
04 07 2018 19:50
                 883.1282959 7.183782101 1100.913364 62.64825058
04 07 2018 20:00
                 757.4603271 7.004959106 1018.22277 71.02483368
04 07 2018 20:10
                 757.2893066 6.933393002 986.2843771 71.7496109
04 07 2018 20:20
                 708.9904175 6.841133118 946.0473421 71.88831329
04 07 2018 20:30
                 757.7949219 6.979066849 1006.593225 68.01914215
04 07 2018 20:40
                 714.4473267 6.872299194 959.5234085 57.58983994
04 07 2018 20:50
                 544.7501831 6.394288063 765.2569668 57.50197983
04 07 2018 21:00
                 526.501709 6.412912846 772.3445759 53.62308121
04 07 2018 21:10
                 419.6297913 5.799884796 559.5478698 47.83707047
04 07 2018 21:20
                 395.6838989 5.769907951 550.0998018 48.16059113
04 07 2018 21:30
                 446.0877075 5.896400928 590.5922406 55.71010971
04 07 2018 21:40
                 388.0119934 5.806351185 561.5978806 58.07825851
04 07 2018 21:50
                 338.1958923 5.425038815 447.6922231 60.12839127
04 07 2018 22:00
                 446.8861084 6.001723766 624.5749454 47.79669952
04 07 2018 22:10
                 435.7835083 5.984540939 619.7936371 46.63639069
                 442.0628967 5.961963177 612.2347723 49.28490829
04 07 2018 22:20
04 07 2018 22:30
                 545.6773071 6.387525082 762.6927091 51.78789902
04 07 2018 22:40
                 565.8366699 6.476181984 796.7056433 48.02782059
04 07 2018 22:50
                 439.6911011 5.94205904 605.6161767 48.88925934
                 358.5349121 5.678875923 521.9591515 50.14538956
04 07 2018 23:00
04 07 2018 23:10
                 378.0740051 5.703017235 529.3420359 55.23022842
04 07 2018 23:20
                 542.4365234 6.308505058 733.0999206 60.36066818
04 07 2018 23:30
                 636.0609741 6.587378979 840.5963156 56.81428909
04 07 2018 23:40
                 678.6223145 6.76356411 913.0132453 55.20981979
                 740.4622192 6.887551785 966.1615963 52.23535156
04 07 2018 23:50
                 862.0227051 7.046205997 1036.925348 50.2924614
05 07 2018 00:00
05 07 2018 00:10
                 768.2854004 6.933134079 986.1699895 50.30522156
05 07 2018 00:20
                 845.8502197 7.145627022 1082.914967 51.28121948
05 07 2018 00:30
                 943.8422852 7.331449986 1172.462789 50.39833069
05 07 2018 00:40
                 963.9675903 7.402759075 1208.128775 50.21352005
05 07 2018 00:50
                 1023.825989 7.477427006 1246.285179 49.62905884
05 07 2018 01:00
                 944.559082 7.375347137 1194.330227 48.74761963
05 07 2018 01:10
                 797.3557129 7.019927025 1024.984487 48.62582016
05 07 2018 01:20
                 718.7871094 6.776570797 918.5024207 48.07191849
05 07 2018 01:30 573.0206909 6.295304775 728.222375 52.63188934
05 07 2018 01:40 415.8293152 5.744153976 542.0549492 53.49647903
05 07 2018 01:50 341.805603 5.46769619 459.7549581 58.32403946
```

```
05 07 2018 02:00 343.1069031 5.511891842 472.4273143 58.90549088
05 07 2018 02:10 363.2518005 5.638494015 509.7366669 56.63093948
05 07 2018 02:20
                 385,4917908 5,746380806 542,7479286 59,58267975
05 07 2018 02:30 412.5559998 5.802779198 560.4649435 60.7924881
05 07 2018 02:40 422.8642883 5.866018772 580.7160192 60.67435837
05 07 2018 02:50
                405.4341125 5.77877903 552.886318 64.66171265
05 07 2018 03:00
                 328.8088074 5.487413883 465.3865559 63.81447983
05 07 2018 03:10
                 312.7037964 5.372383118 433.0267257 64.56297302
05 07 2018 03:20
                 317.4299927 5.367540836 431.6903791 66.04031372
05 07 2018 03:30
                 408.6896057 5.863486767 579.8972833 67.48465729
05 07 2018 03:40 521.8272095 6.171096802 683.2452993 66.67946625
05 07 2018 03:50 508.0046082 6.102165222 658.9976423 68.25421906
05 07 2018 04:00
                479.1455994 6.100026131 658.2533112 67.8609314
05 07 2018 04:10
                 366.5393066 5.668194771 518.7108478 65.4757309
05 07 2018 04:20 281.7677917 5.199376106 386.5325242 62.82258987
05 07 2018 04:30
                 220.0130005 5.00483799 337.1890235 58.56005859
05 07 2018 04:40 63.80363083 3.73239398 82.34868272 57.91857147
05 07 2018 04:50 0
                    2.590368032 0
                                         55.66524124
05 07 2018 05:00 0
                       2.493071079 0
                                         57.8736496
05 07 2018 05:10 0
                       2.426898003 0
                                         57.52410889
05 07 2018 05:20 0
                       3.079536915 19.05127094 68.32972717
05 07 2018 05:30 16.90872955 4.307263851 182.2802168 74.37413788
05 07 2018 05:40 495.3646851 6.380609035 760.0755739 67.37225342
05 07 2018 05:50
                 516.7520142 6.186876774 688.8676173 67.9302063
05 07 2018 06:00 339.505188 5.511244774 472.2404836 68.11794281
05 07 2018 06:10 169.2928925 4.458763123 213.3218879 67.45731354
05 07 2018 06:20 9.204406738 2.972935915 0
                                               60.71115112
05 07 2018 06:30 0
                       2.526799917 0
                                         65.79045105
05 07 2018 06:40 0
                       2.823244095 0
                                         62.67108917
05 07 2018 06:50 0
                       3.525336027 54.88898818 72.34158325
05 07 2018 07:00 299.9031982 5.384230137 436.3049009 75.58849335
05 07 2018 07:10 105.7049026 4.189591885 159.0279066 69.25711823
05 07 2018 07:20 72.18813324 3.835997105 98.66320007 71.36501312
05 07 2018 07:30 35.40301132 3.325892925 34.92506951 55.02685165
05 07 2018 07:40 0
                       2.50018692 0
                                         38.99156189
05 07 2018 07:50 0
                       3.029704094 17.02111766 41.1198616
05 07 2018 08:00
                       3.264086962 30.03013665 49.62723923
                 16.15312004 3.571132898 60.37167575 55.87649918
05 07 2018 08:10
05 07 2018 08:20 41.14799881 3.348253965 36.84659284 51.2195816
05 07 2018 08:30 66.1028595 3.752257109 85.34348808 49.74898911
05 07 2018 08:40 21.88455963 2.983690023 0
                                               55.5139389
05 07 2018 08:50 288.0469971 5.042518139 346.5140026 63.06948853
05 07 2018 09:00 364.0421143 5.449562073 454.6068744 64.61408997
05 07 2018 09:10 391.5325012 5.564222813 487.6658832 66.27866364
05 07 2018 09:20 412.714386 5.643708229 511.3059788 62.54803085
05 07 2018 09:30
                 463.9993896 5.830070019 569.1538685 61.44626999
05 07 2018 09:40
                478.4047852 5.884075165 586.5739488 65.35428619
05 07 2018 09:50 452.4266968 5.853153229 576.562768 66.15859222
05 07 2018 10:00 468.3840027 5.737440109 539.968618 57.94897079
05 07 2018 10:10
                 365.3039856 5.347407818 426.1562015 57.71068954
05 07 2018 10:20
                 99.72329712 3.778755903 89.43704945 40.31459045
05 07 2018 10:30
                 273.9529114 4.857454777 301.7376665 24.38816071
05 07 2018 10:40
                 218.0825958 4.547023773 232.0199359 30.76400948
05 07 2018 10:50 225.9201965 4.611795902 246.045521 32.87609863
05 07 2018 11:00 228.9432068 4.704586029 266.6049992 28.28706932
05 07 2018 11:10 152.4295044 4.42580986 206.4591045 28.58703041
05 07 2018 11:20 179.5158997 4.474321842 216.5841929 28.38998985
05 07 2018 11:30 168.2922974 4.300160885 180.8560341 29.89191055
05 07 2018 11:40 194.9615021 4.479054928 217.5794482 24.32531929
```

```
05 07 2018 11:50 173.7666016 4.526892185 227.7136664 28.63203049
05 07 2018 12:00
                 182.4389038 4.447453976 210.9595425 30.41610909
05 07 2018 12:10
                 159.6248932 4.260335922 172.9206819 24.50797081
05 07 2018 12:20
                 115.3310013 4.200363159 161.1267267 32.95072937
05 07 2018 12:30
                 146.1414032 4.44659996 210.7814524 62.3930397
05 07 2018 12:40
                 165.8354034 4.230224133 166.9759469 25.08013916
05 07 2018 12:50
                 209.841095 4.543748856 231.3177203 33.18122101
                 269.6086121 4.914971828 315.3824602 31.32825089
05 07 2018 13:00
05 07 2018 13:10
                 229.4615021 4.625484943 249.0435605 32.99876022
                 208.7606049 4.561768055 235.1896267 30.6270504
05 07 2018 13:20
05 07 2018 13:30
                 161.7256012 4.43035078 207.4010447 30.30091095
05 07 2018 13:40
                 231.7808075 4.693182945 264.0480571 31.81749916
05 07 2018 13:50
                 115.7687988 4.074544907 136.9649168 31.42073059
05 07 2018 14:00
                 159.4685974 4.361186028 193.1812946 24.69212914
05 07 2018 14:10
                 184.8058014 4.4796381
                                         217.7021673 28.88059044
                 212.3571014 4.60314703 244.1574766 33.05039978
05 07 2018 14:20
05 07 2018 14:30
                 246.5415039 4.86335516 303.126435 35.54393005
05 07 2018 14:40
                 289.6918945 5.099973202 360.9448302 33.57088852
05 07 2018 14:50
                 324.082489 5.317434788 417.9825352 38.65501022
05 07 2018 15:00
                485.1803894 5.987463951 620.7762384 39.02585983
                 496.9161987 5.937572002 604.1299483 39.64628983
05 07 2018 15:10
05 07 2018 15:20
                 492.5166931 6.006849766 626.3055825 45.86713028
05 07 2018 15:30
                 692.0994873 6.557275772 828.5777145 46.73735809
05 07 2018 15:40
                 1020.390991 7.366018772 1189.659777 39.09843063
                 1004.169006 7.19494915 1106.218346 42.14783859
05 07 2018 15:50
05 07 2018 16:00
                 861.6638794 6.980624199 1007.290314 41.26903152
05 07 2018 16:10
                 789.2451172 6.713628769 892.1239022 46.15243149
05 07 2018 16:20
                 561.0042725 6.245401859 709.9528212 49.81430054
                 668.2111816 6.517772198 812.9602539 55.7580719
05 07 2018 16:30
                 605.0767212 6.288239956 725.6196288 57.56671906
05 07 2018 16:40
05 07 2018 16:50
                 901.2510986 7.026473999 1027.951064 60.40718842
05 07 2018 17:00
                 1595.718018 8.579220772 1877.06658 59.07406998
05 07 2018 17:10
                 1829.78894 9.308005333 2344.135964 64.8688736
05 07 2018 17:20
                 1635.396973 8.767756462 1995.484782 66.62345886
05 07 2018 17:30
                 1412.092041 8.248508453 1675.355264 67.85848999
05 07 2018 17:40
                 1472.186035 8.450997353 1797.863291 73.07035828
05 07 2018 17:50
                 1070.322021 7.789972782 1412.115103 77.22821808
05 07 2018 18:00
                 1092.44104 7.88014698 1462.126982 72.91230774
05 07 2018 18:10
                 1128.671997 7.88700819 1465.970072 69.6539917
                 1061.030029 7.759202003 1395.265373 70.58560944
05 07 2018 18:20
05 07 2018 18:30
                 1012.890991 7.658328056 1340.830736 71.69564819
                880.0731201 7.403639793 1208.573954 72.06643677
05 07 2018 18:40
05 07 2018 18:50
                 906.3184204 7.404988766 1209.256045 72.11840057
05 07 2018 19:00
                 936.8513794 7.559360981 1288.669383 76.9178772
05 07 2018 19:10
                 798.4041748 7.166469097 1092.722182 76.8217926
05 07 2018 19:20
                 795.3084717 7.104876041 1063.907289 78.80451202
05 07 2018 19:30
                 689.871521 6.838737011 945.0161408 77.9034729
                 755.4454956 6.932949066 986.088259 77.56532288
05 07 2018 19:40
05 07 2018 19:50
                 1037.104004 7.690163136 1357.874701 76.34689331
05 07 2018 20:00
                 1044.567993 7.75501585 1392.981779 77.93884277
05 07 2018 20:10
                 697.1447754 7.009960175 1020.478811 80.31787872
05 07 2018 20:20
                 535.9501953 6.259267807 715.0022771 78.82411957
05 07 2018 20:30
                 517.800415 6.349587917 748.4007665 79.15680695
05 07 2018 20:40
                 485.1690979 6.228281021 703.7465611 77.72506714
05 07 2018 20:50
                 488.1158142 6.181111813 686.8105025 77.8273468
05 07 2018 21:00
                 286.2156067 5.45805788 457.0150318 77.04488373
05 07 2018 21:10
                 193.969696 4.824782848 294.0925362 68.65679932
05 07 2018 21:20 254.2893982 5.148121834 373.2392906 63.96244812
05 07 2018 21:30 202.4461975 4.859519005 302.2232391 67.85263824
```

```
05 07 2018 21:40 178.4441071 4.736245155 273.7495147 64.26911163
05 07 2018 21:50
                 348,7009888 5,608383179 500,7254133 68,61573792
05 07 2018 22:00
                 330.8717041 5.571979046 489.9462742 71.17250061
05 07 2018 22:10
                 276.3504028 5.296152115 412.2257801 70.03362274
05 07 2018 22:20
                 316.2831116 5.471577168 460.8606063 66.28753662
05 07 2018 22:30
                  234.1517029 4.917418003 315.9680986 53.84376144
05 07 2018 22:40
                 249.3999939 5.019451141 340.7925164 51.6556282
                 255.5319977 5.150873184 373.9474509 52.01622009
05 07 2018 22:50
05 07 2018 23:00
                 170.3905945 4.707241058 267.2015833 51.15985107
                 166.577301 4.620382786 247.924738 48.63203049
05 07 2018 23:10
05 07 2018 23:20
                 100.5921021 4.200655937 161.1838569 49.63882828
05 07 2018 23:30
                 166.565506 4.586835861 240.6096261 51.86610031
05 07 2018 23:40
                 129.1325073 4.289393902 178.7023497 51.17340851
05 07 2018 23:50
                 100.8147964 4.150774956 151.5121922 45.27360916
06 07 2018 00:00
                 115.4238968 4.246308804 170.1455673 43.97512054
06 07 2018 00:10 101.2876968 4.182464123 157.6422338 42.79859924
06 07 2018 00:20
                 120.2230988 4.305929184 182.012402 41.69189835
06 07 2018 00:30 85.7963028 4.039375782 130.3451795 43.67089844
06 07 2018 00:40 85.15677643 4.145180225 150.4350531 42.61666107
06 07 2018 00:50
                  28.27725029 3.657445908 71.61707876 37.34627914
06 07 2018 01:00
                 54.01972961 4.090634823 140.0124988 28.19116974
06 07 2018 01:10
                 27.66489983 3.594705105 63.32449629 27.14990997
06 07 2018 01:20
                  21.09477043 3.502460957 52.27611164 21.28074074
06 07 2018 01:30
                 19.13990021 3.475188017 49.27030865 17.8289299
06 07 2018 01:40
                 16.69144058 3.456394911 47.26834232 18.19478035
06 07 2018 01:50
                 4.240458965 3.173597097 23.96598329 21.87421989
06 07 2018 02:00
                        2.880903006 0
                                          28.42760086
06 07 2018 02:10
                        3.231966972 27.72763722 16.49773026
                 0
06 07 2018 02:20
                 20.11031914 3.752191067 85.33342621 10.6447897
                 12.15898037 3.396303892 41.24626654 20.49858093
06 07 2018 02:30
06 07 2018 02:40
                 0
                        2.662029982 0
                                          24.24963951
06 07 2018 02:50 0
                        2.519682884 0
                                          20.98106003
06 07 2018 03:00
                        3.334566116 35.66087462 33.23426819
06 07 2018 03:10 8.041976929 3.600989103 64.12668349 28.34280968
06 07 2018 03:20
                 32.44330978 3.692354918 76.50378391 25.72637939
06 07 2018 03:30
                  20.16855049 3.475302935 49.28272428 28.68894958
06 07 2018 03:40
                 43.34864044 3.815220118 95.25375097 28.42584038
06 07 2018 03:50
                 83.99723053 4.040112019 130.4831797 28.67098045
06 07 2018 04:00
                 64.21528625 3.808614016 94.18417859 29.8838501
06 07 2018 04:10
                 188,2259979 4,634112835 250,9393146 27,07350922
06 07 2018 04:20
                 182.2015991 4.622402191 248.3673627 26.69994926
06 07 2018 04:30 159.9237061 4.552530766 233.2022462 30.68367004
06 07 2018 04:40 88.85611725 3.964061022 121.203045 30.12805939
06 07 2018 04:50
                 139.2297058 4.405311108 202.221717 29.47203064
06 07 2018 05:00
                 156.7180939 4.547274113 232.0736414 28.35774994
06 07 2018 05:10
                 184.5554962 4.641670227 252.6037857 28.66320992
06 07 2018 05:20
                 188.7411041 4.702678204 266.1766012 29.83819962
06 07 2018 05:30
                 100.0542984 3.966212988 121.6042187 29.33185959
06 07 2018 05:40
                 51.26086044 3.524952888 54.84453524 31.75659943
06 07 2018 05:50
                  58.1032486 3.761725903 86.79333693 33.86268997
                  26.08448982 3.342837095 36.37376896 34.61283112
06 07 2018 06:00
06 07 2018 06:10
                  0.380132288 2.66343689 0
                                                42.33140182
06 07 2018 06:20
                        2.236486912 0
                                          43.4827919
06 07 2018 06:30
                        2.478645086 0
                                          50.02320099
                 0
06 07 2018 06:40
                        2.576556921 0
                                          42.6020813
                 0
06 07 2018 06:50
                 0
                        2.275067091 0
                                          39.75696182
06 07 2018 07:00
                 0
                       2.170047045 0
                                          27.68816948
06 07 2018 07:10 0
                       2.279835939 0
                                          31.49757004
06 07 2018 07:20 0
                    2.076203108 0
                                         29.24361038
```

```
06 07 2018 07:30
                        2.210340023 0
                                           30.17262077
                  0
06 07 2018 07:40
                  0
                        2.427788019 0
                                           26.82498932
06 07 2018 07:50
                        2.557629108 0
                                           17.85810089
                  0
06 07 2018 08:00
                  0
                        2.580939054 0
                                           16.05323982
06 07 2018 08:10
                  0
                        2.218658924 0
                                           19.78350067
06 07 2018 08:20
                        2.131531954 0
                                          17.08073997
06 07 2018 08:30
                  0
                        1.986724973 0
                                          12.64606953
06 07 2018 08:40
                  0
                        1.740594983 0
                                           22.30533981
06 07 2018 08:50
                  0
                        1.939887047 0
                                           34.24386978
06 07 2018 09:00
                  0
                        1.446207047 0
                                          41.3916893
06 07 2018 09:10
                  0
                        1.879662037 0
                                           31.43481064
06 07 2018 09:20
                        1.799842954 0
                                           33.29153061
06 07 2018 09:30
                        1.653846025 0
                                           21.52024078
06 07 2018 09:40
                  0
                        2.152806044 0
                                           27.05764961
06 07 2018 09:50
                                           23.05207062
                  0
                        2.416985035 0
06 07 2018 10:00
                  0
                        2.443939924 0
                                           35.16170883
06 07 2018 10:10
                  0
                        2.775161982 0
                                          25.03101921
06 07 2018 10:20
                  0
                        3.461990118 47.85847331 4.471887112
06 07 2018 10:30
                  15.25580978 3.356923103 37.61306744 11.7111702
06 07 2018 10:40
                  15.44155979 3.173587084 23.96538474 6.622301102
06 07 2018 10:50
                  36.34658051 3.451831102 46.79070288 11.40147018
06 07 2018 11:00
                  93.6396637 3.896581888 108.999347 12.06317997
06 07 2018 11:10
                  40.68803024 3.633270979 68.34724195 12.14140034
06 07 2018 11:20
                  49.98526001 3.509851933 53.11118129 17.64546967
06 07 2018 11:30
                  70.07285309 3.665981054 72.79385491 17.22989082
06 07 2018 11:40
                  78.42613983 3.700309038 77.64450914 16.86144066
06 07 2018 11:50
                  54.84136963 3.496690035 51.63016037 24.3535099
06 07 2018 12:00
                  138.0361023 4.184656143 158.0681035 15.12668991
                  96.39019775 3.959489107 120.3531992 11.71407032
06 07 2018 12:10
06 07 2018 12:20
                  55.38459015 3.566884041 59.84889057 16.63587952
06 07 2018 12:30
                  90.04083252 3.880036116 106.1182409 22.07969093
06 07 2018 12:40
                  111.0593033 4.024922848 127.6410733 22.78852081
06 07 2018 12:50
                  155.727005 4.276486874 176.1287329 18.88773918
06 07 2018 13:00
                  209.412796 4.636936188 251.560711 21.7259903
06 07 2018 13:10
                  203.2315063 4.565557003 236.0063378 21.7947998
                  144.5431976 4.24874115 170.6260468 18.63998032 92.0923233 3.93048811 115.0402693 22.83901978
06 07 2018 13:20
06 07 2018 13:30
06 07 2018 13:40
                  150.3437958 4.252048969 171.2799584 21.01092911
06 07 2018 13:50
                  105.2310028 3.954770088 119.4795165 22.52471924
                  121.6923981 4.134513855 148.3856983 18.02736092
06 07 2018 14:00
06 07 2018 14:10
                  182.4738007 4.463177204 214.2459705 17.38121033
06 07 2018 14:20
                 186.8854065 4.475686073 216.8709221 18.37557983
06 07 2018 14:30
                  264.346405 4.964798927 327.3987199 20.44504929
06 07 2018 14:40
                  255.2973938 4.898743153 311.5082374 15.9053297
06 07 2018 14:50
                  242.0814972 4.830094814 295.330375 19.76161957
06 07 2018 15:00
                  179.4436035 4.503767014 222.7974754 23.10231018
06 07 2018 15:10
                  216.1412964 4.658339024 256.2880399 21.82794952
06 07 2018 15:20
                  267.8288879 5.037375927 345.2349885 28.65172958
06 07 2018 15:30
                  238.2371063 4.870261192 304.7550703 25.35552979
06 07 2018 15:40
                  298.3424988 5.1192379
                                           365.8417183 24.93304062
06 07 2018 15:50
                  250.4299927 5.003923893 336.9641556 22.78100014
06 07 2018 16:00
                  235.308197 4.885783195 308.4281146 25.14426041
06 07 2018 16:10
                  295.4299011 5.157429218 375.6373528 26.63125038
06 07 2018 16:20
                  348.9627991 5.40320015 441.5799032 28.41663933
06 07 2018 16:30
                  390.6140137 5.58581686 494.0287956 27.6269207
06 07 2018 16:40
                  343.5929871 5.601809025 498.7695125 33.97470856
06 07 2018 16:50
                 409.6254883 5.70159483 528.9054494 35.17890167
06 07 2018 17:00 346.9198914 5.457884789 456.9659033 41.80112076
06 07 2018 17:10 423.1509094 5.782021046 553.9066561 44.33449936
```

```
06 07 2018 17:20 508.0393982 6.062102795 645.1384377 46.50852966
06 07 2018 17:30 579.5418701 6.351904869 749.269138 45.34119034
06 07 2018 17:40
                 612.9852905 6.433372974 780.1743849 46.53847885
06 07 2018 17:50 617.7781982 6.392250061 764.4837109 49.49456024
06 07 2018 18:00
                 663.0974731 6.541635036 822.3733924 47.81127167
06 07 2018 18:10
                  673.5584717 6.622362137 854.6918407 52.10871887
06 07 2018 18:20
                  628.7244873 6.553340912 827.0142642 56.1058197
06 07 2018 18:30
                 504.9865112 6.109241009 661.463259 49.21615982
                 470.0375977 6.000916958 624.3028072 50.70428848
06 07 2018 18:40
06 07 2018 18:50
                 400.906189 5.808486938 562.2759039 56.36211014
06 07 2018 19:00
                 241.7940063 4.988501072 333.1797117 48.49145126
06 07 2018 19:10
                 201.0955048 4.774839878 282.5508801 40.32711029
06 07 2018 19:20
                 142.2557983 4.452382088 211.9880464 38.97700119
06 07 2018 19:30
                 179.6053009 4.684761047 262.1651215 33.68061829
06 07 2018 19:40
                 109.077301 4.273834229 175.6008975 33.81293106
06 07 2018 19:50
                 71.99198914 4.024202824 127.5066042 35.88375854
06 07 2018 20:00
                 38.78076172 3.671129942 73.50939006 37.72089005
06 07 2018 20:10
                 24.52964973 3.539729118 56.57593348 37.06700134
06 07 2018 20:20
                 23.48151016 3.492350101 51.14789304 36.87498093
06 07 2018 20:30
                 6.725316048 3.281980991 31.38445408 41.79975891
06 07 2018 20:40
                        3.103374958 20.16290921 45.03427887
                 0
06 07 2018 20:50
                 0
                        2.715318918 0
                                          41.31069183
06 07 2018 21:00
                 0
                        2.508163929 0
                                          25.37178993
06 07 2018 21:10
                 0
                        2.705864906 0
                                          13.62489986
06 07 2018 21:20
                 0
                        2.432357073 0
                                          10.15458965
06 07 2018 21:30
                        2.666344881 0
                                          353.3486023
06 07 2018 21:40
                        2.500154972 0
                 0
                                          347.6541138
06 07 2018 21:50
                        2.888381004 0
                 0
                                          10.05224037
06 07 2018 22:00
                 0
                        2.885782957 0
                                          23.91459084
                        3.239407063 28.24628533 55.97095108
06 07 2018 22:10
                 0
                        3.538499117 56.43047565 54.30770111
06 07 2018 22:20
                 0
06 07 2018 22:30
                 11.80480957 3.223735094 27.1641144 44.8646698
06 07 2018 22:40
                  63.39636993 3.92564106 114.1654237 46.82846069
06 07 2018 22:50
                  49.28462982 3.753926039 85.59799099 53.33692932
06 07 2018 23:00
                 53.02758026 3.833674908 98.27870518 47.1744194
                  26.40155029 3.50425601 52.47812222 46.87376022
06 07 2018 23:10
06 07 2018 23:20
                 59.18328094 3.880810022 106.2520244 51.44256973
06 07 2018 23:30
                 38.52460861 3.680864096 74.87372441 55.33847046
06 07 2018 23:40
                 37.64043045 3.714029074 79.63593181 56.75983047
06 07 2018 23:50
                 32.92073822 3.662339926 72.29041181 63.39788818
                45.91490173 3.723468065 81.0234614 59.87659073
07 07 2018 00:00
                 30.86676025 3.669974089 73.3483932 52.50252914
07 07 2018 00:10
07 07 2018 00:20
                 33.0547905 3.647028923 70.19663972 50.7961998
07 07 2018 00:30
                 24.35029984 3.562417984 59.30249459 51.07223129
07 07 2018 00:40
                 9.675268173 3.635575056 68.65485395 65.72644043
07 07 2018 00:50
                  16.43832016 3.360975027 37.97543848 63.90697861
07 07 2018 01:00
                        2.97418499 0
                                          55.82690811
07 07 2018 01:10
                        3.119246006 20.95344099 53.92382813
07 07 2018 01:20
                 3.980067968 3.567096949 59.87501829 54.26153946
07 07 2018 01:30
                 82.13292694 4.064671993 135.1008472 59.47711945
07 07 2018 01:40
                 141.0171967 4.426239967 206.5482723 59.89538956
07 07 2018 01:50
                 213.7162018 4.79442215 287.0556075 58.48635101
07 07 2018 02:00
                 281.4598083 5.143476963 372.0451503 58.04298019
07 07 2018 02:10
                 365.9404907 5.568646908 488.9659063 61.41202164
07 07 2018 02:20
                 411.9513855 5.794594765 557.8739541 67.68559265
07 07 2018 02:30 511.0038147 6.12125206 665.660858 72.80560303
07 07 2018 02:40 562.7681885 6.280693054 722.8452249 73.43688202
07 07 2018 02:50 707.0220947 6.686413765 880.8615255 73.31072235
07 07 2018 03:00 659.1680908 6.749349117 907.0369489 77.96910095
```

```
07 07 2018 03:10 751.8060303 7.042296886 1035.143469 78.12310028
                 842.1826782 7.219394207 1117.890651 78.67960358
07 07 2018 03:20
                 855.5006714 7.40081501 1207.146513 79.0818634
07 07 2018 03:30
07 07 2018 03:40 897.2307129 7.382180214 1197.759464 78.501297
07 07 2018 03:50 871.9177856 7.313446045 1163.574755 75.67839813
07 07 2018 04:00
                 816.3842773 6.975368977 1004.939236 74.35804749
07 07 2018 04:10
                 918.7058716 7.352425098 1182.87659 74.93662262
                 839.0897827 7.099176884 1061.266536 75.10727692
07 07 2018 04:20
07 07 2018 04:30
                 718.7507935 6.877319813 961.705333 73.58164978
                 773.7813721 7.045883179 1036.778124 74.47633362
07 07 2018 04:40
07 07 2018 04:50
                 704.6790161 6.738544941 902.5105181 75.15966797
07 07 2018 05:00
                 675.4042969 6.739202976 902.7858119 70.63552094
07 07 2018 05:10
                 776.7542725 6.92793417 983.874519 71.76186371
07 07 2018 05:20
                 668.3707275 6.608528137 849.1012132 72.87644958
07 07 2018 05:30 531.7623291 6.150935173 676.1005948 73.96515656
07 07 2018 05:40
                456.7127075 5.932616234 602.4909439 72.76389313
07 07 2018 05:50
                 493.2981873 5.992966175 622.6283638 70.38191986
07 07 2018 06:00
                 479.0769958 5.904674053 593.2982582 74.19011688
07 07 2018 06:10 473.6076965 5.784923077 554.8208936 72.47943878
07 07 2018 06:20 641.503418 6.44198513 783.4838727 74.79225159
07 07 2018 06:30
                629.4874878 6.335233212 743.0337408 73.40763855
07 07 2018 06:40 641.382019 6.405632019 769.5693636 75.65783691
07 07 2018 06:50
                 838.9639893 6.955541134 996.0999346 74.56877899
07 07 2018 07:00
                 713.5446167 6.592472076 842.6398216 74.05275726
07 07 2018 07:10
                 710.7401733 6.594809055 843.5784701 72.71510315
07 07 2018 07:20
                 772.3679199 6.822467804 938.032714 70.2472229
07 07 2018 07:30 405.6824036 5.543303013 481.5434747 71.47084808
07 07 2018 07:40
                 271.5003967 4.84164381 298.0284956 63.16730881
                 209.0845032 4.391732216 199.4279627 66.24545288
07 07 2018 07:50
07 07 2018 08:00
                 352.646698 5.203235149 387.5421069 64.06855774
07 07 2018 08:10 458.8315125 5.896397114 590.5909945 66.70783234
07 07 2018 08:20 582.4661865 6.145264149 674.0987808 66.05782318
07 07 2018 08:30 649.6063232 6.250786781 711.9113518 63.09725189
07 07 2018 08:40 659.8746948 6.472343922 795.2152798 65.15397644
07 07 2018 08:50
                 520.5540161 5.808231831 562.1948921 63.66814041
07 07 2018 09:00
                 583.8881836 6.09924221 657.9806559 59.65184021
07 07 2018 09:10
                 735.0626221 6.628880024 857.3334085 61.80049896
                 734.7177124 6.561697006 830.3364903 63.95859146
07 07 2018 09:20
07 07 2018 09:30 820.6732788 6.779374123 919.6881209 60.66785812
                 577.6461792 6.069551945 647.7024206 53.70005035
07 07 2018 09:40
07 07 2018 09:50 419.1677856 5.493196011 467.0447392 30.46113968
07 07 2018 10:00 554.9763794 5.860341072 578.8810333 30.19502068
07 07 2018 10:10 695.848877 6.19490099 691.7368283 24.67907906
07 07 2018 10:20 601.4691162 5.990718842 621.8714861 25.60244942
07 07 2018 10:30
                 457.9823914 5.510704994 472.0846603 23.6461792
07 07 2018 10:40
                 655.1727905 6.184074879 687.8673708 20.48600006
                 660.4199219 6.157574177 678.4484658 20.55197906
07 07 2018 10:50
07 07 2018 11:00
                 652.5958252 6.269189835 718.6282002 27.63516998
07 07 2018 11:10
                 723.791626 6.572027206 834.4544269 24.87844086
07 07 2018 11:20
                 690.9514771 6.265688896 717.3476014 21.12779999
07 07 2018 11:30
                 577.1362305 6.03626585 636.2913596 26.17371941
07 07 2018 11:40
                 589.7357788 6.13908577 671.9217898 24.96217918
07 07 2018 11:50
                 576.3798218 5.928945065 601.2784669 26.3425808
07 07 2018 12:00
                 614.9437866 6.262317181 716.1155179 24.23749924
07 07 2018 12:10
                 637.3460083 6.335749149 743.2262557 21.76065063
07 07 2018 12:20
                 761.9768066 6.595112801 843.7005148 25.65842056
07 07 2018 12:30
                 773.5631714 6.690898895 882.7116991 25.22347069
07 07 2018 12:40 657.3859253 6.27955389 722.426977 26.79980087
07 07 2018 12:50 719.2199707 6.554523945 827.4841398 28.92787933
```

```
07 07 2018 13:00 641.7255859 6.305552006 732.0071245 26.06598091
                 671.253418 6.368725777 755.5909389 23.24991989
07 07 2018 13:10
                 577.3729248 6.13347578 669.9486097 27.43199921
07 07 2018 13:20
07 07 2018 13:30
                 711.5128174 6.587348938 840.5842711 21.04627037
07 07 2018 13:40
                 701.5294189 6.535523891 819.9566815 23.62785912
07 07 2018 13:50
                 738.161499 6.638528824 861.2527637 24.71463966
                 769.5756226 6.789072037 923.7971558 23.02588081
07 07 2018 14:00
07 07 2018 14:10
                 546.880188 6.091464996 655.2792208 27.70116043
07 07 2018 14:20
                 743.5485229 6.687270164 881.2146216 26.92226028
07 07 2018 14:30
                 737.1818848 6.650139809 865.9832624 29.79454994
07 07 2018 14:40
                 970.5709229 7.202215195 1109.679266 31.38865089
07 07 2018 14:50
                 1078.970947 7.464237213 1239.483558 33.0800705
07 07 2018 15:00
                 1213.136963 7.663449764 1343.564255 32.49346924
07 07 2018 15:10
                 1298.342041 7.937091827 1494.180137 33.51137924
07 07 2018 15:20
                 1006.666016 7.200951099 1109.076641 34.03205109
07 07 2018 15:30
                 1033.937012 7.310272217 1162.012747 34.0562706
07 07 2018 15:40
                 999.1384277 7.316347122 1165.003789 38.27246094
07 07 2018 15:50
                 961.0654297 7.046945095 1037.26247 37.83562088
07 07 2018 16:00
                 1228.063965 7.625729084 1323.510003 39.0897789
                 1173.947021 7.543663979 1280.513532 41.53762817
07 07 2018 16:10
07 07 2018 16:20
                 1016.734985 7.220499992 1118.420595 44.63203812
07 07 2018 16:30
                 1079.172974 7.333897114 1173.674468 45.60480118
07 07 2018 16:40
                 1239.655029 7.875912189 1459.757621 50.20278931
07 07 2018 16:50
                 1395.452026 8.167222023 1627.162318 49.1368103
                 1488.438965 8.294942856 1703.148644 48.56460953
07 07 2018 17:00
07 07 2018 17:10 1652.505981 8.725079536 1968.49353 51.93687057
07 07 2018 17:20
                 1469.536011 8.332695007 1725.880817 53.48316956
07 07 2018 17:30 1404.432983 8.170340538 1629.000065 57.63650131
07 07 2018 17:40 1399.448975 8.184210777 1637.184767 57.43724823
07 07 2018 17:50
                 1486.552979 8.419803619 1778.776675 60.65787125
07 07 2018 18:00
                 1818.418945 9.184110641 2263.291406 62.29455185
07 07 2018 18:10
                 1962.541992 9.578866005 2501.187596 67.60694885
07 07 2018 18:20
                 2020.930054 9.758152962 2632.323494 71.00977325
07 07 2018 18:30
                 1834.463989 9.216208458 2284.199407 72.36408234
07 07 2018 18:40
                 1614.057983 8.92810154 2097.748067 74.09736633
                 1497.218994 8.750992775 1984.870305 75.43208313
07 07 2018 18:50
07 07 2018 19:00
                 1728.843018 9.202765465 2275.439455 73.65873718
                 1428.93103 8.830133438 2035.113825 76.9092865
07 07 2018 19:10
07 07 2018 19:20
                 1306.749023 8.247691154 1674.86775 74.09432983
                 1317.030029 8.305457115 1709.467684 71.09311676
07 07 2018 19:30
07 07 2018 19:40
                 1458.494995 8.666435242 1931.57576 70.77876282
07 07 2018 19:50 1529.251953 8.661454201 1928.449634 70.73433685
07 07 2018 20:00
                 1609.527954 8.929873466 2098.885042 71.57785034
07 07 2018 20:10
                 1639.36499 9.015480995 2153.97566 74.80982208
07 07 2018 20:20
                 1448.613037 8.817639351 2027.15979 76.49903107
07 07 2018 20:30
                 1373.427979 8.885081291 2070.187528 78.86126709
07 07 2018 20:40
                 1148.229004 8.132828712 1606.954887 78.57447815
07 07 2018 20:50
                 1094.925049 7.671103954 1347.655528 78.61019897
07 07 2018 21:00
                 1442.727051 8.449398994 1796.883504 77.60144043
                 1404.546021 8.286858559 1698.2964
07 07 2018 21:10
                                                     77.85217285
07 07 2018 21:20
                 1213.295044 8.018078804 1540.366644 75.86688995
07 07 2018 21:30
                 961.0601807 7.377319813 1195.319526 74.71082306
07 07 2018 21:40
                 738.5576172 6.752702236 908.4445312 71.6453476
07 07 2018 21:50
                 572.8770752 6.462657928 791.4613309 74.18972778
07 07 2018 22:00
                 409.5560913 5.970486164 615.0817885 77.87901306
07 07 2018 22:10 541.5797119 6.466708183 793.029807 75.32113647
07 07 2018 22:20 541.5084839 6.073308945 648.9978217 68.33532715
07 07 2018 22:30 640.9102173 6.356167793 750.8683641 62.79822922
07 07 2018 22:40 597.9949951 6.394556999 765.35904
                                                    63.37471008
```

```
07 07 2018 22:50 590.2872925 6.476970196 797.0119164 60.20492172
07 07 2018 23:00
                 721.7473755 6.826704979 939.8484236 55.74869156
07 07 2018 23:10
                 929,6962891 7,534512043 1275,773499 58,78367996
07 07 2018 23:20
                 1036.256958 7.75132513 1390.970188 61.35221863
07 07 2018 23:30
                 1252.692993 8.380923271 1755.092123 59.26686096
07 07 2018 23:40 1246.615967 8.050213814 1558.881917 67.22641754
07 07 2018 23:50
                 1173.093994 7.907221794 1477.322441 71.98026276
                 1115.339966 7.543644905 1280.503642 75.87371826
08 07 2018 00:00
08 07 2018 00:10
                 1063.501953 7.659183979 1341.287323 75.08099365
08 07 2018 00:20
                 1132.452026 7.794593811 1414.655176 70.52207947
08 07 2018 00:30
                 1169.641968 7.584414005 1301.753817 66.42925262
08 07 2018 00:40 1684.495972 8.767000198 1995.005594 67.98880005
08 07 2018 00:50 1529.305054 8.524746895 1843.275926 74.60133362
08 07 2018 01:00 1457.767944 8.369232178 1747.993684 74.90696716
08 07 2018 01:10 1293.493042 7.970067978 1512.902697 75.06517029
08 07 2018 01:20 2039.253052 9.896323204 2725.935368 73.41486359
08 07 2018 01:30 2026.228027 9.52950573 2463.093032 69.96753693
08 07 2018 01:40 2357.033936 10.30856037 2969.505916 68.63021088
08 07 2018 01:50 2435.477051 10.57798004 3102.162079 70.49833679
                 2675.925049 11.31723022 3373.313711 72.9746933
08 07 2018 02:00
08 07 2018 02:10
                 2482.093018 10.70541954 3158.207755 69.57655334
                            11.13341045 3317.539039 69.908638
08 07 2018 02:20
                 2656.8479
                 2639.459961 11.1591301 3325.779343 73.62989044
08 07 2018 02:30
08 07 2018 02:40
                 2588.916992 10.89964008 3235.845144 73.86760712
08 07 2018 02:50 2454.667969 10.6469698 3133.018035 71.78643036
08 07 2018 03:00 2217.291992 10.00347042 2794.257923 69.18683624
08 07 2018 03:10 1888.631958 9.096389771 2206.305982 66.92391205
08 07 2018 03:20 1527.362061 8.382863998 1756.271524 65.5029068
08 07 2018 03:30 1554.907959 8.446620941 1795.181027 66.03471375
08 07 2018 03:40
                 1709.876953 8.963652611 2120.586063 65.98845673
08 07 2018 03:50
                 1515.389038 8.466553688 1807.409242 65.48107147
08 07 2018 04:00 1390.406006 8.099517822 1587.491085 64.9103775
08 07 2018 04:10
                 1422.848999 8.266456604 1686.075986 64.37705231
08 07 2018 04:20
                 1641.150024 8.689349174 1945.976142 63.72782135
08 07 2018 04:30
                 1900.973022 9.231524467 2294.18564 65.16425323
                 1860.974976 9.227776527 2291.741381 66.2752533
08 07 2018 04:40
08 07 2018 04:50
                 1489.774048 8.375089645 1751.548775 62.67910004
08 07 2018 05:00
                 1245.582031 7.836593151 1437.855146 63.40615082
08 07 2018 05:10 1252.223022 7.837518215 1438.368431 61.6435585
08 07 2018 05:20 1468.083008 8.341208458 1731.023539 58.90970993
08 07 2018 05:30 1269.536011 7.817211151 1427.123369 59.26599121
08 07 2018 05:40 1313.925049 7.972012997 1514.010621 60.10276031
08 07 2018 05:50
                 1269.119995 7.845743179 1442.936468 60.69964981
08 07 2018 06:00
                 1213.911011 7.664309025 1344.023176 59.26821899
08 07 2018 06:10
                 1621.810059 8.642991066 1916.875489 59.38792038
08 07 2018 06:20
                 1356.448975 8.017422676 1539.989701 59.80833054
08 07 2018 06:30
                 1151.333984 7.598383904 1309.085533 60.21591949
                 1257.86499 7.819149017 1428.194414 58.92660141
08 07 2018 06:40
08 07 2018 06:50 1415.982056 8.188472748 1639.703288 60.11191177
08 07 2018 07:00
                 1033.625
                             7.244702816 1130.062073 61.28953934
08 07 2018 07:10
                 1035.859009 7.450417995 1232.385836 58.28853989
08 07 2018 07:20
                 1087.437012 7.399674892 1206.570716 58.49835968
08 07 2018 07:30
                 1071.803955 7.452403069 1233.403609 58.58784103
08 07 2018 07:40
                 1083.488037 7.506299973 1261.23244 60.18252182
08 07 2018 07:50 873.8602295 7.088286877 1056.232439 64.29911804
08 07 2018 08:00 575.2938232 5.846206188 574.3272398 58.17578888
08 07 2018 08:10 409.1066895 5.314838886 417.2782856 58.67049026
08 07 2018 08:20 333.5730896 5.143733025 372.1109353 37.02703857
08 07 2018 08:30 290.2861938 4.786785126 285.2956247 33.52611923
```

```
08 07 2018 08:40 260.2687988 4.744312763 275.5809182 29.7325592
08 07 2018 08:50 445.9606018 5.643034935 511.1031913 31.1595993
08 07 2018 09:00
                 536.3364258 5.798875809 559.2283784 31.67765999
08 07 2018 09:10 497.8612061 5.661839962 516.783526 22.8302803
08 07 2018 09:20
                 463.9396973 5.712585926 532.2841893 24.57888985
08 07 2018 09:30
                 394.2543945 5.483828068 464.359764 25.06278992
                 445.9825134 5.699822903 528.3618611 28.69537926
08 07 2018 09:40
                 593.9926147 6.09188509 655.4249763 24.68166924
08 07 2018 09:50
08 07 2018 10:00
                 777.6096802 6.711863995 891.3909793 26.66102982
08 07 2018 10:10
                 558.8842773 5.902602196 592.6199105 28.20969009
08 07 2018 10:20
                 698.0980225 6.540297031 821.8439084 22.53101921
08 07 2018 10:30
                584.3463135 6.094873905 656.4625185 22.64175034
08 07 2018 10:40
                431.8283081 5.550107002 483.5302378 25.41802025
08 07 2018 10:50
                 447.5367126 5.633491039 508.2333959 25.23913002
08 07 2018 11:00
                532.2009888 5.95138216 608.7110833 24.19522095
08 07 2018 11:10
                417.1676025 5.552495003 484.2285602 23.49920082
08 07 2018 11:20 509.4628906 5.707316875 530.6629595 25.81731033
08 07 2018 11:30
                 338.6434937 5.057518005 350.2565981 21.48193932
08 07 2018 11:40 592.9780273 6.111902237 662.3919705 20.40702057
08 07 2018 11:50
                 684.3311157 6.461915016 791.1738318 20.93732071
08 07 2018 12:00
                 400.5490112 5.366129875 431.301377 18.63540077
08 07 2018 12:10
                 574.1254272 6.14564085 674.2316459 21.37697029
08 07 2018 12:20
                 660.8286133 6.475361824 796.3870291 19.23551941
08 07 2018 12:30
                 512.4611816 5.807239056 561.8796905 24.42917061
08 07 2018 12:40
                 574.2127075 6.042558193 638.4394103 21.24356079
08 07 2018 12:50
                 440.186615 5.552693844 484.2867313 25.96600914
08 07 2018 13:00 483.2979126 5.901668072 592.3142159 15.06676006
08 07 2018 13:10
                632.6917725 6.36151123 752.8757302 14.72665024
                587.9813232 6.216899872 699.6383356 17.06769943
08 07 2018 13:20
                 772.487793 6.667381763 873.0364125 18.85333061
08 07 2018 13:30
08 07 2018 13:40 670.9401245 6.454789162 788.419293 25.64620018
08 07 2018 13:50
                 646.1104736 6.336722851 743.5896573 22.96684074
08 07 2018 14:00
                 566.03479
                             6.117329121 664.2881814 19.95524979
08 07 2018 14:10
                 528.4765015 5.937012196 603.944675 27.60079956
08 07 2018 14:20
                 318.8005981 5.183607101 382.4198489 28.87668991
                 366.236908 5.35191679 427.3925528 25.41659927
08 07 2018 14:30
                 515.2164917 5.919675827 598.2234535 20.01523972
08 07 2018 14:40
08 07 2018 14:50
                 545.9398804 6.099525928 658.0793283 23.55854034
08 07 2018 15:00
                 607.2670288 6.18524313 688.2843217 23.29821014
08 07 2018 15:10
                 742.0300293 6.545901775 824.0631919 23.54891014
08 07 2018 15:20
                 710.8803101 6.552947998 826.8582419 26.88703918
08 07 2018 15:30
                579.1411743 6.208158016 696.4922445 29.6111908
08 07 2018 15:40
                 583.2453003 6.126730919 667.5807192 27.5747509
08 07 2018 15:50
                 582.1956177 6.102974892 659.2795074 31.04490089
08 07 2018 16:00
                 626.1190186 6.374004841 757.5813124 30.90638924
                 792.2249146 6.814054012 934.4336262 29.5361805
08 07 2018 16:10
                 671.0900269 6.43708992 781.6017371 36.68706894
08 07 2018 16:20
08 07 2018 16:30
                 744.4586182 6.674355984 875.8990552 39.34022141
08 07 2018 16:40
                 691.0029297 6.63037014 857.9380022 41.57392883
08 07 2018 16:50
                 720.8999023 6.655005932 867.9703876 37.73147964
08 07 2018 17:00
                 784.0134888 6.71856308 894.1750791 43.57006836
08 07 2018 17:10
                 690.1760864 6.49174118 802.764149 45.55773926
08 07 2018 17:20
                 772.0219727 6.724542141 896.6643573 48.52931976
08 07 2018 17:30
                 1154.030029 7.573995113 1296.302332 50.32524872
08 07 2018 17:40
                 1189.895996 7.729877949 1379.313041 54.61217117
08 07 2018 17:50
                 931.3068848 7.165512085 1092.270581 55.84069824
08 07 2018 18:00
                 1056.171021 7.656105995 1339.64582 62.18058014
08 07 2018 18:10 908.6245117 7.230569839 1123.254303 61.97533035
08 07 2018 18:20 897.8997192 7.164318085 1091.70732 63.12240982
```

```
08 07 2018 18:30 863.2421875 7.20225811 1109.699729 71.17034149
08 07 2018 18:40 893.9923096 7.265942097 1140.345249 68.542099
08 07 2018 18:50
                 793.8121948 7.006557941 1018.943677 62.90699005
08 07 2018 19:00
                 725.1856079 6.792312145 925.1724876 56.68968964
08 07 2018 19:10
                 634.2067261 6.459704876 790.318891 58.22409058
08 07 2018 19:20
                 566.9210205 6.309195995 733.3557423 59.32110977
08 07 2018 19:30
                 614.0980835 6.430541039 779.0879052 61.94189072
                 364.9526978 5.260206223 402.5905274 76.11408234
08 07 2018 19:40
08 07 2018 19:50
                 154.9846039 3.823045015 96.52968827 87.26490784
08 07 2018 20:00
                  58.64455032 3.508918047 53.00518378 85.48184204
08 07 2018 20:10
                 24.78359032 3.468240976 48.5236802 73.73195648
08 07 2018 20:20
                 4.361002922 2.670799017 0
                                                82.07010651
08 07 2018 20:30
                       2.395721912 0
                                         88.21765137
08 07 2018 20:40
                 0
                        2.44513607 0
                                         80.60661316
08 07 2018 20:50
                        2.609680891 0
                                         63.3716507
                 0
08 07 2018 21:00 0
                        3.110080004 20.4919687 72.35697174
08 07 2018 21:10 0
                        3.21013999 26.2571849 62.77297974
08 07 2018 21:20 0
                        3.505975962 52.67216468 78.00364685
08 07 2018 21:30
                 71.80375671 4.277166843 176.2640962 74.13775635
08 07 2018 21:40
                 109.444603 4.192412853 159.577019 69.73867798
08 07 2018 21:50
                 220.1067963 4.901457787 312.1549554 71.40853119
08 07 2018 22:00
                 203.805603 4.818161964 292.5524626 75.30753326
08 07 2018 22:10
                 179.4286041 4.607281208 245.0593735 76.55033875
08 07 2018 22:20
                 190.6248932 4.73824501 274.2030853 68.84728241
08 07 2018 22:30
                 174.7584991 4.728643894 272.0279989 68.56179047
08 07 2018 22:40
                 133.0941925 4.321115971 185.0654644 72.78840637
08 07 2018 22:50
                63.48540115 3.625823021 67.35869295 80.70018005
08 07 2018 23:00
                65.60542297 3.749577999 84.93587011 80.4609375
                 20.06498909 3.336895943 35.86058026 79.26840973
08 07 2018 23:10
08 07 2018 23:20
                 23.47345924 3.358593941 37.76217525 77.54959869
08 07 2018 23:30
                 48.94023132 3.842320919 99.71463186 71.50063324
08 07 2018 23:40
                 94.53452301 4.233815193 167.6824388 69.50379944
08 07 2018 23:50
                 80.37262726 4.130198002 147.5580472 68.03884125
09 07 2018 00:00
                 56.90306854 3.901963949 109.9459636 71.3240509
09 07 2018 00:10
                 142.8067017 4.471032143 215.8932285 69.86591339
09 07 2018 00:20
                 121.4891968 4.267714024 174.3844867 69.80046844
09 07 2018 00:30
                 82.41036224 3.954199076 119.3740405 73.29351807
09 07 2018 00:40
                 85.05264282 3.724946022 81.24201149 76.21533203
09 07 2018 00:50
                 119.0867004 4.452732086 212.0611456 74.62934875
                 142.7297058 4.37621212 196.2475821 74.84815216
09 07 2018 01:00
                 128.508606 4.297731876 180.3696261 67.33618927
09 07 2018 01:10
                 12.50230026 3.190516949 25.00027898 48.28059006
09 07 2018 01:20
09 07 2018 01:30
                 80.98793793 3.959779978 120.4071678 58.82270813
09 07 2018 01:40
                 76.51586914 3.83742094 98.89937661 61.80448914
09 07 2018 01:50
                 26.9148407 3.309367895 33.55645221 73.07090759
09 07 2018 02:00
                 83.31284332 3.639270067 69.14993966 73.88877869
09 07 2018 02:10
                 80.17797089 3.872425079 104.8076441 66.4910965
09 07 2018 02:20
                 62.32785034 3.698255062 77.34897253 70.96743011
09 07 2018 02:30
                 47.89456177 3.580255032 61.50383315 57.00603104
09 07 2018 02:40
                 0.826066196 3.007657051 16.24971607 53.81435013
09 07 2018 02:50
                 50.64046097 3.597634077 63.69760967 44.83448029
09 07 2018 03:00
                 91.09503937 4.025224209 127.6973613 45.78105164
09 07 2018 03:10
                 102.2507019 4.049481869 132.2416128 49.90830994
09 07 2018 03:20
                 139.3596954 4.396882057 200.4862722 50.93367004
09 07 2018 03:30
                 73.47438049 3.948113918 118.2532456 57.10372925
09 07 2018 03:40
                 73.6713028 3.916157007 112.4645172 60.50880051
09 07 2018 03:50 59.92496109 3.793716908 91.79786338 63.45372009
09 07 2018 04:00 78.16338348 3.999089956 127.8253379 53.91873169
09 07 2018 04:10 36.10562134 3.656605005 71.5017708 52.09296036
```

```
09 07 2018 04:20 27.06534958 3.594490051 63.29715533 50.09590912
                 133.9154968 4.429069996 207.1352462 50.93933105
09 07 2018 04:30
09 07 2018 04:40
                 171.5317993 4.62787199 249.567574 58.36988831
09 07 2018 04:50
                 191.9369965 4.638037205 251.8031747 55.52067947
09 07 2018 05:00 150.0697937 4.428253174 206.9657824 56.01184082
09 07 2018 05:10 175.4842072 4.644367218 253.1986738 55.70048904
09 07 2018 05:20 227.4709015 4.919515133 316.4705216 59.73123169
09 07 2018 05:30 190.1148987 4.675467968 260.0928352 61.78842926
09 07 2018 05:40 223.2380066 4.90538311 313.0910503 64.97785187
09 07 2018 05:50
                 230.5187988 4.887242794 308.774401 64.44685364
09 07 2018 06:00
                 159.4290924 4.256594181 172.1794153 68.13587952
09 07 2018 06:10 99.0508728 3.928359985 114.6557005 69.7988205
09 07 2018 06:20
                 89.32736969 3.927515984 114.5033835 75.3480835
09 07 2018 06:30 49.18679047 3.636724949 68.80869121 75.0941925
09 07 2018 06:40
                 3.658663988 2.61816597 0
                                            72.3837204
09 07 2018 06:50 0
                       2.296416044 0
                                         66.48947144
09 07 2018 07:00 0
                       1.858464003 0
                                         71.20469666
09 07 2018 07:10 0
                       2.053194046 0
                                         49.96395874
09 07 2018 07:20 0
                       2.722122908 0
                                         21.6111908
09 07 2018 07:30 0
                       2.376615047 0
                                         44.05411911
09 07 2018 07:40 0
                       2.793217897 0
                                         75.85677338
09 07 2018 07:50 0
                       3.015858889 16.52760478 44.80836105
09 07 2018 08:00 0
                       2.665565014 0
                                         45.46018982
09 07 2018 08:10 0
                       2.694282055 0
                                         39.70167923
09 07 2018 08:20 0
                       3.164689064 23.43984907 63.83287811
09 07 2018 08:30 0
                       3.064917088 18.41448506 33.18067169
09 07 2018 08:40
                       3.546859026 57.42387237 32.48212814
09 07 2018 08:50 8.351930618 3.790429115 91.27598659 24.83443069
                 16.90057945 3.152324915 22.73062765 38.52666855
09 07 2018 09:00
                       3.330440998 35.3094122 34.6594696
09 07 2018 09:10
                       3.427020073 44.25233375 34.61695862
09 07 2018 09:20 0
09 07 2018 09:30 0
                       3.314640045 33.98835009 31.22098923
09 07 2018 09:40 0
                       3,464046001 48,07656736 30,68903923
09 07 2018 09:50 0
                       4.251829147 171.2364849 33.1699791
09 07 2018 10:00 0
                       4.223220825 165.6000467 30.69510078
09 07 2018 10:10 0
                       4.282987118 177.4237543 31.28182983
09 07 2018 10:20 0
                       3.866379023 103.7731376 27.7390995
09 07 2018 10:30 92.58312225 4.201480865 161.3448499 27.15514946
09 07 2018 10:40 209.1734009 4.689761162 263.2824628 20.88517952
09 07 2018 10:50 216.5493011 4.748804092 276.6023931 21.12001991
09 07 2018 11:00 306.8068848 5.122714043 366.7284663 21.34494972
09 07 2018 11:10 232.7230988 4.758966923 278.9188177 17.21102905
09 07 2018 11:20 229.3392029 4.811706066 291.0537287 12.8724699
09 07 2018 11:30
                 282.5058899 5.027985096 342.9044868 12.15573025
09 07 2018 11:40
                 176.3166046 4.417109013 204.6575722 5.409077168
09 07 2018 11:50
                 185.9526062 4.488379002 219.5439705 4.884411812
09 07 2018 12:00
                 177.3182983 4.369774818 194.9324165 7.152250767
09 07 2018 12:10
                 144.464798 4.133755207 148.2401473 14.92949009
09 07 2018 12:20 106.3399963 3.991844893 126.4395398 24.53162956
09 07 2018 12:30
                 148.3547974 4.39737606 200.5878705 23.5687294
09 07 2018 12:40
                 184.6840973 4.496397972 221.2376614 15.3554697
09 07 2018 12:50
                 220.197403 4.697505951 265.0164001 21.83569908
09 07 2018 13:00
                 188.7371063 4.575288773 238.1081188 17.52232933
09 07 2018 13:10
                 142.0227966 4.302772999 181.3794619 17.15183067
09 07 2018 13:20
                 112.0467987 3.990515947 126.1862577 13.5287199
09 07 2018 13:30 315.4702148 5.172606945 379.5629877 17.78948975
09 07 2018 13:40 240.3746033 4.890911102 309.6453798 24.84446907
09 07 2018 13:50 231.154007 4.743516922 275.4000607 24.6052494
09 07 2018 14:00 292.7668152 5.122107983 366.5737937 25.51312065
```

```
09 07 2018 14:10 248.9595032 4.861708164 302.7385323 29.18985939
                  281.8573914 5.07948494 355.7691727 27.69812965
09 07 2018 14:20
09 07 2018 14:30
                  182,7760925 4,546834946 231,9794292 32,69804001
09 07 2018 14:40
                  282.4020081 5.036061764 344.9084464 29.55125046
09 07 2018 14:50
                  262.228302 5.029778004 343.3489041 32.66028976
09 07 2018 15:00
                  241.9483948 4.855266094 301.2231508 32.82006073
09 07 2018 15:10
                  248.8040009 4.875210762 305.9244246 34.27207947
09 07 2018 15:20
                  176.5906067 4.533020973 229.0220279 37.58747101
09 07 2018 15:30
                  215.3643036 4.758492947 278.8106272 45.4502182
                  216.8656006 4.789375782 285.8921989 41.87514114
09 07 2018 15:40
09 07 2018 15:50
                  181.5476074 4.514217854 225.0152189 36.56175995
09 07 2018 16:00
                  226.9414063 4.7442379
                                          275.5639035 41.73952866
09 07 2018 16:10
                  297.1936951 5.218999863 391.6791707 44.45539093
09 07 2018 16:20
                  400.5148926 5.656550884 515.182418 38.85543823
09 07 2018 16:30
                  378.0244141 5.468925953 460.1051558 45.46147156
09 07 2018 16:40
                 482.7341919 5.907874107 594.3468746 48.84794998
09 07 2018 16:50
                  469.9023132 5.9497962 608.1839549 48.92222977
09 07 2018 17:00
                  452.6026001 5.775390148 551.8208918 52.16371918
09 07 2018 17:10
                  583.0076904 6.358784199 751.8508801 51.12036896
09 07 2018 17:20
                  660.4282227 6.555887222 828.0257993 53.26210022
09 07 2018 17:30
                  927.0170288 7.146010876 1083.095062 55.14789963
                  1069.223999 7.503229141 1259.65616 57.98175812
09 07 2018 17:40
09 07 2018 17:50
                  1063.698975 7.427226067 1220.539189 57.33707809
09 07 2018 18:00
                  918.3043823 7.136530876 1078.653048 61.58245087
09 07 2018 18:10
                  816.451416 6.873540878 960.0627495 66.9095993
09 07 2018 18:20
                  711.2321167 6.731194973 899.4390523 67.45713806
09 07 2018 18:30
                  694.0753784 6.643884182 863.4327052 70.02533722
09 07 2018 18:40
                  785.6246948 7.04553318 1036.618519 72.04242706
                             6.912344933 977.0128022 75.31923676
09 07 2018 18:50
                  695.99823
                  679.9411011 6.760898113 911.8905887 77.14434052
09 07 2018 19:00
                  428.4862976 6.061863899 645.0563084 78.28633118
09 07 2018 19:10
09 07 2018 19:20
                  330.959198 5.540461063 480.7149068 77.95410156
09 07 2018 19:30
                  360.5806885 5.65322113 514.1758282 74.55867004
09 07 2018 19:40
                  112.969902 4.168077946 154.8531894 73.55168152
09 07 2018 19:50
                  59.04272842 3.856707096 102.130391 75.91861725
                                                78.1332016
09 07 2018 20:00
                  9.760414124 2.389106989 0
09 07 2018 20:10
                  0
                        2.975719929 0
                                          71.94381714
09 07 2018 20:20
                  0
                        2.713634968 0
                                          66.48636627
09 07 2018 20:30
                        3.006165981 16.20035295 59.69773865
09 07 2018 20:40
                        2.785725117 0
                                          62,62086868
09 07 2018 20:50
                        2.001032114 0
                                          84.82441711
                  0
09 07 2018 21:00
                  0
                        2.020829916 0
                                          133.9707031
09 07 2018 21:10
                                          175.4337006
                  0
                        1.552482009 0
09 07 2018 21:20
                  0
                                          220.5570984
                        1.859619021 0
09 07 2018 21:30
                  0
                        1.731979012 0
                                          216.2259064
09 07 2018 21:40
                  0
                        2.093935966 0
                                          223.6204987
09 07 2018 21:50
                  0
                        2.15260601 0
                                          251.677002
09 07 2018 22:00
                                          231.7792053
                  0
                        2.176968098 0
09 07 2018 22:10
                  0
                        2.135456085 0
                                          212.3330994
09 07 2018 22:20
                  0
                        1.598978996 0
                                          206.1233063
09 07 2018 22:30
                  0
                        2.063867092 0
                                          191.3777008
09 07 2018 22:40
                        1.471645951 0
                                          179.6719971
09 07 2018 22:50
                        0.875059128 0
                                          183.0836945
09 07 2018 23:00
                        1.326714993 0
                                          180.8782959
                  0
09 07 2018 23:10
                                          156.9205017
                  0
                        1.635416985 0
09 07 2018 23:20
                  0
                        1.728595972 0
                                          200.7745972
09 07 2018 23:30
                  0
                        1.709223986 0
                                          222.157196
09 07 2018 23:40
                  0
                        2.289443016 0
                                          218.9649048
09 07 2018 23:50
                  0
                        2.337745905 0
                                          266.864502
```

```
10 07 2018 00:00
                         2.134413004 0
                                            263,2247009
                   0
10 07 2018 00:10
                   0
                         2.345926046 0
                                            240.3730011
10 07 2018 00:20
                   0
                         2.942955971 0
                                            227.8352966
10 07 2018 00:30
                   0
                         3.617156982 66.21964271 244.3215027
10 07 2018 00:40
                   0
                         3.162866116 23.33374543 219.9452972
10 07 2018 00:50
                   0
                         3.016550064 16.55151442 198.8383942
10 07 2018 01:00
                   0
                         2.81409502
                                      0
                                            183.097702
10 07 2018 01:10
                   0
                         1.999940991 0
                                            133.9873962
10 07 2018 01:20
                   0
                         0.954187691 0
                                            212.2277069
10 07 2018 01:30
                   0
                         1.11887002
                                            328.4164124
10 07 2018 01:40
                   0
                         1.277503014 0
                                            336.8297119
10 07 2018 01:50
                         1.739112973 0
                                            6.86179018
10 07 2018 02:00
                         1.625373006 0
                                            19.13875961
10 07 2018 02:10
                   0
                         1.808570981 0
                                            15.02956963
10 07 2018 02:20
                         2.061173916 0
                                            0.552659094
                   0
10 07 2018 02:30
                   0
                         1.976490021 0
                                            340.1270142
10 07 2018 02:40
                   0
                         2.316287041 0
                                            305.5664978
10 07 2018 02:50
                   0
                         2.497983932 0
                                            302.3617859
                   0
10 07 2018 03:00
                         2.510688066 0
                                            294,2261047
10 07 2018 03:10
                   0
                         1.628721952 0
                                            301.5581055
10 07 2018 03:20
                         1.681347966 0
                                            318.2168884
                   0
10 07 2018 03:30
                   0
                         2.249330044 0
                                            349.0787964
10 07 2018 03:40
                   0
                         2.309154987 0
                                            349.7322998
10 07 2018 03:50
                   0
                         1.809376001 0
                                            345.8547058
10 07 2018 04:00
                   0
                         1.617331028 0
                                            0.209100202
10 07 2018 04:10
                         1.433272004 0
                                            1.628254056
10 07 2018 04:20
                         1.403061032 0
                                            353.993103
                   0
10 07 2018 04:30
                         0.845446289 0
                                            8.67127037
                   0
10 07 2018 04:40
                   0
                         1.133257985 0
                                            359.0866089
10 07 2018 04:50
                   0
                         1.382096052 0
                                            12.29463005
10 07 2018 05:00
                   0
                         1.309720993 0
                                            26.18581009
                   0
10 07 2018 05:10
                         1.483968019 0
                                            11.81000996
10 07 2018 05:20
                         1.092746973 0
                                            43.86301041
                   0
10 07 2018 05:30
                         1.59976697
                                            33.13619995
                   0
                                      0
10 07 2018 05:40
                                            26.52519035
                   0
                         1.531144023 0
10 07 2018 05:50
                   0
                         1.512709022 0
                                            35.10186005
10 07 2018 06:00
                   0
                         1.183256984 0
                                            37.18244171
10 07 2018 06:10
                   0
                         1.369443059 0
                                            47.04360962
10 07 2018 06:20
                         1.328346968 0
                                            44.04664993
10 07 2018 06:30
                         1.77749002
                                            73.43063354
10 07 2018 06:40
                         1.950399041 0
                                            66.76071167
                   0
10 07 2018 06:50
                   0
                         2.194169044 0
                                            63.05918121
10 07 2018 07:00
                   0
                         2.104151011 0
                                            66.19304657
10 07 2018 07:10
                   0
                         2.407417059 0
                                            52.56303024
                   0
10 07 2018 07:20
                         2.052411079 0
                                            47.4642601
10 07 2018 07:30
                   0
                         1.338078976 0
                                            52.49644089
10 07 2018 07:40
                   0
                         2.03787303
                                      0
                                            62.72830963
10 07 2018 07:50
                                            58.21181107
                   0
                         2.038971901 0
10 07 2018 08:00
                   0
                         2.647592068 0
                                            37.48720932
10 07 2018 08:10
                   0
                         2.238775015 0
                                            55.95280075
10 07 2018 08:20
                   0
                         2.218029022 0
                                            86.08361816
10 07 2018 08:30
                         1.857862949 0
                                            64.01444244
10 07 2018 08:40
                         2.556983948 0
                                            26.21821976
10 07 2018 08:50
                         2.524770021 0
                                            17.73069
                   0
10 07 2018 09:00
                         2.993010044 0
                   0
                                            12.05959988
10 07 2018 09:10
                   0
                         2.398030996 0
                                            10.77746964
10 07 2018 09:20
                   0
                         2.720742941 0
                                            19.26008987
                   0
                         3.166160107 23.5258579 18.35971069
10 07 2018 09:30
10 07 2018 09:40
                         2.816631079 0
                                            27.53216934
```

```
10 07 2018 09:50
                        3.446769953 46.26490974 21.92727089
                  0
10 07 2018 10:00
                  0
                        3.103708982 20.17913168 31.37010956
10 07 2018 10:10
                  0
                        2.883608103 0
                                          25.14477921
10 07 2018 10:20
                  0
                        2,475852013 0
                                          25.7969799
10 07 2018 10:30
                  0
                        3.150561094 22.63144647 41.11343002
10 07 2018 10:40
                        2.911199093 0
                                          29.29833031
10 07 2018 10:50
                  0
                        3.129172087 21.46834101 28.94569969
10 07 2018 11:00
                        3.145828962 22.36781369 23.97578049
                  0
10 07 2018 11:10
                  0
                        3.319951057 34.42792817 20.58074951
                        3.284307957 31.56433575 12.17926025
10 07 2018 11:20
                  0
10 07 2018 11:30
                  0
                        3.061713934 18.27953466 22.64473915
10 07 2018 11:40
                        3.141874075 22.15023065 26.5495491
10 07 2018 11:50
                        3.454809904 47.10208084 50.12197876
10 07 2018 12:00
                  0
                        3.342197895 36.31828459 40.35316849
10 07 2018 12:10
                  0
                        3.729163885 81.86764203 17.23745918
10 07 2018 12:20
                 32.08214951 3.742048979 83.79650228 22.89485931
10 07 2018 12:30
                 62.3925209 3.725588083 81.33706399 24.54412079
10 07 2018 12:40
                 113.0859985 3.960470915 120.5354195 20.97747993
10 07 2018 12:50
                 102.5305023 4.004049778 123.7522672 21.01214027
10 07 2018 13:00
                 112.5926971 4.195593834 160.196688 23.27243042
10 07 2018 13:10
                 42.12348938 3.667715073 73.03435578 31.2756691
10 07 2018 13:20
                 67.19547272 3.725531101 81.32862555 44.50917053
10 07 2018 13:30
                 44.25408936 3.395900965 41.20783678 34.96257019
10 07 2018 13:40
                  106.1530991 3.994812965 127.0062418 31.81378937
10 07 2018 13:50
                  161.1286926 4.35098505 191.1067958 23.32130051
10 07 2018 14:00
                 210.9246979 4.707602024 267.2827284 29.93800926
10 07 2018 14:10 296.5463867 5.061157227 351.167251 18.96604919
10 07 2018 14:20 200.5140076 4.643835068 253.0812577 18.65751076
10 07 2018 14:30 158.8961029 4.418088913 204.8602457 26.99423027
10 07 2018 14:40
                 124.3822021 4.12728405 146.9997462 34.41984177
10 07 2018 14:50
                 108.0475006 4.10420084 142.5914595 32.41878891
10 07 2018 15:00
                 132.3193054 4.202710152 161.5848209 28.76338959
10 07 2018 15:10
                 69.82121277 3.91256094 111.8233476 25.48328972
10 07 2018 15:20
                 41.90766907 3.461775064 47.83569888 14.07464981
10 07 2018 15:30
                  28.20936012 3.577421904 61.1507853 21.45933914
10 07 2018 15:40
                  68.52301025 3.894227982 108.5867901 35.1414299
                  111.5151978 4.205904961 162.208842 29.76917076
10 07 2018 15:50
                  207.7911072 4.748623848 276.5613732 38.61862946
10 07 2018 16:00
10 07 2018 16:10
                 222.4329987 4.831504822 295.659281 40.09743118
10 07 2018 16:20
                 261.6870117 4.982540131 331.7218458 39.64030838
10 07 2018 16:30
                228.9409943 4.82422781 293.9633112 41.20811844
                381.6539001 5.644631863 511.5842367 39.6322403
10 07 2018 16:40
10 07 2018 16:50
                  343.6918945 5.548706055 483.1208076 38.50576019
10 07 2018 17:00
                 274.6843872 5.046273232 347.4492929 44.11494064
10 07 2018 17:10
                 418.0744934 5.776136875 552.0555549 46.06824112
10 07 2018 17:20
                  423.6383057 5.780992985 553.5829864 47.92417908
10 07 2018 17:30
                  563.5551758 6.37039423 756.2196706 58.06483078
10 07 2018 17:40
                  566.3148193 6.486739159 800.8135176 52.54195023
10 07 2018 17:50
                  563.6201782 6.411565781 771.8306817 48.96249008
10 07 2018 18:00
                  556.2216797 6.321998119 738.1051077 54.46738052
10 07 2018 18:10
                  456.8841858 6.068419933 647.3124025 63.42189026
10 07 2018 18:20
                  545.5604248 6.362496853 753.2463374 61.0842514
10 07 2018 18:30
                 553.1298828 6.441792965 783.4099383 59.29600906
10 07 2018 18:40
                 358.9122925 5.537487984 479.8489145 62.46638107
10 07 2018 18:50
                 431.5491028 5.951540947 608.7638743 62.12440109
10 07 2018 19:00
                 335.3363037 5.611848831 501.7581526 56.20483017
10 07 2018 19:10 231.2713928 4.853253841 300.7504119 59.75457001
10 07 2018 19:20 122.080101 4.406518936 202.4707262 51.94863129
10 07 2018 19:30 112.6756973 4.245441914 169.9743982 52.26567078
```

```
10 07 2018 19:40 180.0848999 4.675405025 260.0788189 50.23302841
10 07 2018 19:50 172.873703 4.578176975 238.7330232 51.60686874
10 07 2018 20:00
                 155,1107025 4,591876984 241,7043333 45,70565033
10 07 2018 20:10 113.6281967 4.299005032 180.6245355 46.1721611
10 07 2018 20:20
                 123.8235016 4.252733231 171.4152987 42.85480118
10 07 2018 20:30
                 79.1555481 3.906702042 110.7831527 33.06037903
10 07 2018 20:40
                82.74291992 3.921720028 113.4604657 34.10604095
                             3.911360025 111.6096885 43.56517029
10 07 2018 20:50
                 76.708992
10 07 2018 21:00
                 31.23283958 3.484355927 50.26744273 49.32975006
10 07 2018 21:10
                 52.3670311 3.882996082 106.6304411 48.91622925
10 07 2018 21:20
                 20.73035049 3.60038209 64.04891915 43.08349991
10 07 2018 21:30
                 26.34137917 3.728559017 81.77774787 34.8204689
10 07 2018 21:40
                 28.07497978 3.756490946 85.98999435 29.69675064
10 07 2018 21:50
                 16.54129028 3.492701054 51.18677997 43.70220947
10 07 2018 22:00 6.662079811 3.34446907 36.51572549 48.92306137
10 07 2018 22:10 0
                       3.686131001 75.61825201 46.902771
10 07 2018 22:20 5.581800938 3.372481108 39.01876949 53.68598175
10 07 2018 22:30 0
                       3.641841888 69.49582121 56.39818954
10 07 2018 22:40 47.44202042 4.117808819 145.1871491 47.83628082
10 07 2018 22:50
                67.46983337 3.971014977 122.502086 47.91595078
10 07 2018 23:00
                87.3236084 4.107718945 143.2616862 52.28664017
                 108.4666977 4.334350109 187.7361812 53.39677811
10 07 2018 23:10
10 07 2018 23:20
                 88.92044067 4.328335762 186.5212721 50.93354034
10 07 2018 23:30
                 74.40194702 3.991687059 126.4094438 51.59889984
10 07 2018 23:40
                 77.0533371 3.904047012 110.3135844 55.45401001
10 07 2018 23:50 32.24391174 3.643706083 69.7471964 52.76882935
11 07 2018 00:00 57.36925125 3.911901951 111.7060759 51.02268982
11 07 2018 00:10 65.05444336 3.905631065 110.5936042 55.9378891
11 07 2018 00:20 81.21665192 3.952070951 118.9813982 58.41954041
11 07 2018 00:30 80.36958313 4.025206089 127.6939768 53.00812912
11 07 2018 00:40 92.28256226 4.06949091 136.0101267 51.17541885
11 07 2018 00:50 114.6757965 4.351274967 191.1656746 50.38153076
11 07 2018 01:00
                 170,9006958 4,563836098 235,6352847 51,88097
11 07 2018 01:10 299.6105042 5.326846123 420.5406356 49.64759064
11 07 2018 01:20 249.3809052 4.991558075 333.9284042 46.35911942
                216.3677979 4.769468784 281.3199282 49.91024017
11 07 2018 01:30
11 07 2018 01:40
                 222.3195953 4.818665028 292.6693713 51.31684875
11 07 2018 01:50
                 303.5339966 5.414552212 444.7518649 43.77378845
11 07 2018 02:00 264.2016907 5.086510181 357.5401311 46.06320953
11 07 2018 02:10 375.2467957 5.657505035 515.4710575 47.85969925
11 07 2018 02:20 371.9191895 5.574225903 490.6079262 50.50180817
11 07 2018 02:30 379.660614 5.711690903 532.0086071 48.47063065
11 07 2018 02:40 306.9014893 5.369113922 432.1242849 47.3855896
11 07 2018 02:50
                 292.9552002 5.332095146 421.9707007 46.36407852
11 07 2018 03:00
                 276.3793945 5.119201183 365.8323573 48.78496933
11 07 2018 03:10
                 294.096405 5.209655762 389.2245577 47.24097824
                 211.6109009 4.630461216 250.1363836 53.74451065
11 07 2018 03:20
11 07 2018 03:30
                376.6679077 5.583302021 493.285505 55.63061142
11 07 2018 03:40
                 336.1572876 5.371891975 432.891089 61.56988144
11 07 2018 03:50
                 445.9942017 5.744439125 542.1436585 66.76228333
11 07 2018 04:00
                 739.0529785 6.788805008 923.6838654 69.83091736
                 732.5297852 6.751101971 907.7726021 70.5419693
11 07 2018 04:10
11 07 2018 04:20
                 735.7094727 6.790421009 924.3696037 69.33000946
11 07 2018 04:30 821.5770264 7.049335003 1038.353054 70.06271362
11 07 2018 04:40
                 1103.850952 7.730032921 1379.397073 65.53073883
11 07 2018 04:50 1063.468994 7.646801949 1334.691197 62.79513931
11 07 2018 05:00 952.194397 7.277925968 1146.175256 64.54155731
11 07 2018 05:10 1172.86499 7.752563
                                       1391.644695 65.51220703
11 07 2018 05:20 860.5153809 6.919172764 980.0144242 69.84609222
```

```
11 07 2018 05:30 991.0717163 7.346532822 1179.94473 66.71734619
11 07 2018 05:40 979.6254883 7.310787201 1162.266099 62.25067139
11 07 2018 05:50 1031.838013 7.252400875 1133.781869 64.09417725
11 07 2018 06:00 1235.547974 7.821425915 1429.453394 62.72166061
11 07 2018 06:10 1357.759033 8.136709213 1609.229229 62.57215881
11 07 2018 06:20 1019.307007 7.318185806 1165.910126 62.71232986
11 07 2018 06:30 1036.220947 7.37741518 1195.367367 64.40608215
11 07 2018 06:40 1106.625
                           7.535871983 1276.477141 62.4367218
11 07 2018 06:50 899.9575806 6.931557178 985.4735212 60.7141304
11 07 2018 07:00 987.5560303 7.13449192 1077.69923 60.54204178
11 07 2018 07:10 677.3007202 6.2185359
                                         700.2280334 59.74496078
11 07 2018 07:20 537.5579834 5.789972782 556.4137516 55.2596283
11 07 2018 07:30 466.5307007 5.336019993 423.0415611 41.36299133
11 07 2018 07:40 527.9713745 5.870882988 582.2907527 38.1043396
11 07 2018 07:50 501.413208 5.706962109 530.5539
                                                  40.66408157
11 07 2018 08:00 473.5476074 5.501278877 469.3678671 35.10274124
11 07 2018 08:10 514.4279175 5.66645813 518.1837595 26.21736908
11 07 2018 08:20 385.1379089 5.352163792 427.4603314 36.09093857
11 07 2018 08:30 348.3893127 5.086676121 357.5820088 35.61970139
11 07 2018 08:40 458.5396118 5.400186062 440.7396419 32.96733856
11 07 2018 08:50 485.835907 5.709480762 531.3284325 31.08115005
11 07 2018 09:00 682.6702881 6.282866001 723.6434177 31.08799934
11 07 2018 09:10
                 770.4464111 6.418595791 774.5147593 32.29447174
11 07 2018 09:20 837.2327881 6.729759216 898.8398041 33.08724976
11 07 2018 09:30 819.5654297 6.741082191 903.5722742 28.23317909
11 07 2018 09:40 1110.463013 7.424439907 1219.121444 30.85012054
11 07 2018 09:50 1095.979004 7.398728848 1206.093079 31.28845978
11 07 2018 10:00 1046.140015 7.373034 1193.170914 30.69486046
11 07 2018 10:10 952.2310181 6.99476099 1013.632132 27.97617912
11 07 2018 10:20 1031.276001 7.313715935 1163.707648 26.60950089
11 07 2018 10:30 943.8626709 6.931252003 985.3387702 23.09594917
11 07 2018 10:40 807.6887817 6.708593845 890.0338214 19.56495094
11 07 2018 10:50 685.7202148 6.443426132 784.0384182 23.74121094
11 07 2018 11:00 632.0814209 6.246683121 710.4185416 22.25099945
11 07 2018 11:10 656.3729858 6.326705933 739.8560831 18.5042305
11 07 2018 11:20 682.5579834 6.468643188 793.7797838 14.42457008
11 07 2018 11:30 651.7498169 6.355711937 750.6972565 14.36528015
11 07 2018 11:40 558.118103 6.168508053 682.3254872 19.46109009
11 07 2018 11:50 674.0216064 6.372173786 756.8906036 22.10556984
11 07 2018 12:00 936.871521 7.111886024 1067.1613
11 07 2018 12:10 1014.000977 7.249258995 1132.262676 21.26120949
11 07 2018 12:20 1117.186035 7.56987381 1294.149868 22.55467987
11 07 2018 12:30 1196.421021 7.714110851 1370.778727 20.18223
11 07 2018 12:40 991.4428711 7.065455914 1045.728808 24.20141029
11 07 2018 12:50 957.1362915 7.105473042 1064.184162 24.82793045
11 07 2018 13:00
                 1041.418945 7.354865074 1184.092144 23.96532059
                 1094.712036 7.516808033 1266.635966 26.09683037
11 07 2018 13:10
11 07 2018 13:20 1147.650024 7.460172176 1237.392687 26.08035088
11 07 2018 13:30 1392.63501 8.17042923 1629.052345 29.4782505
11 07 2018 13:40 2056.336914 9.504285812 2443.2886
                                                     31.45129967
11 07 2018 13:50
                 1828.277954 9.02990818 2163.289167 35.81002045
11 07 2018 14:00 1700.102051 8.61686039 1900.531439 34.757061
11 07 2018 14:10 2098.951904 9.536105156 2468.237171 36.28522873
11 07 2018 14:20 2417.552002 10.41835976 3025.962541 38.54296112
11 07 2018 14:30 2536.930908 10.66063023 3138.982715 36.69662094
11 07 2018 14:40 2773.216064 11.2466898 3352.760362 35.88671875
11 07 2018 14:50 2612.900879 10.83675957 3211.709793 38.5760994
11 07 2018 15:00 2737.947998 10.77715015 3187.952212 36.23789978
11 07 2018 15:10 2972.525879 11.84165955 3495.152224 39.57086182
```

```
11 07 2018 15:20 2453.676025 10.23445034 2929.469607 37.0216217
11 07 2018 15:30 2535.601074 10.69099998 3152.073643 39.82106018
11 07 2018 15:40
                 2345,266113 10,03168964 2811,648848 38,06132889
11 07 2018 15:50 2458.021973 10.20468998 2912.944414 40.75569916
11 07 2018 16:00 2486.798096 10.36534977 2999.126372 41.9025116
11 07 2018 16:10 2747.336914 11.22801018 3347.142094 43.2432518
11 07 2018 16:20 2129.926025 9.35887146 2377.424564 45.07472992
11 07 2018 16:30 2708.549072 10.59607983 3110.376391 43.5430603
11 07 2018 16:40 2443.86499 10.13749027 2874.668959 46.31953812
11 07 2018 16:50 2470.916016 10.07347012 2836.944075 45.31803131
11 07 2018 17:00
                 2255.726074 9.601193428 2518.132193 48.86407089
11 07 2018 17:10 2262.021973 9.671683311 2570.472107 48.56523895
11 07 2018 17:20
                 1896.125
                             9.108879089 2214.40443 53.36861038
11 07 2018 17:30 2108.648926 9.241805077 2300.892056 49.39162827
11 07 2018 17:40 1860.619995 9.053162575 2178.317707 52.23987961
11 07 2018 17:50 1924.097046 9.215202332 2283.543613 50.97383118
11 07 2018 18:00
                 1884.391968 8.949284554 2111.349425 50.36190033
11 07 2018 18:10
                 1907.564941 8.769341469 1996.489183 50.10066986
11 07 2018 18:20 2125.384033 9.542686462 2473.351473 55.49113083
                 2108.891113 9.39922142 2403.862774 55.41053009
11 07 2018 18:30
11 07 2018 18:40
                 2364.198975 10.12127018 2865.228367 58.07445145
                 2819.00708 11.40872955 3398.439803 62.24906158
11 07 2018 18:50
                 2654.969971 10.95973969 3258.041385 61.84579086
11 07 2018 19:00
11 07 2018 19:10
                 2559.899902 10.81338024 3202.494616 64.70155334
11 07 2018 19:20
                 2337.677002 10.13510036 2873.28293 65.17028809
11 07 2018 19:30 2133.839111 9.710780144 2598.755481 66.31712341
11 07 2018 19:40 2343.001953 10.20355034 2912.306442 68.40622711
11 07 2018 19:50 2633.248047 10.82516003 3207.154219 69.11109161
11 07 2018 20:00 2774.143066 11.23112965 3348.085495 69.04889679
11 07 2018 20:10 2747.023926 11.16106987 3326.394976 68.03269196
11 07 2018 20:20 2580.037109 10.56330013 3095.437048 66.67418671
11 07 2018 20:30 2554.447021 10.6453104 3132.290237 65.49169922
11 07 2018 20:40 2447.2771
                            10.40781021 3020.683774 66.96595001
11 07 2018 20:50 2530.667969 10.65268993 3135.521459 66.83640289
11 07 2018 21:00 2614.981934 10.89807987 3235.257646 67.09455109
                 2627.558105 11.10655022 3308.778432 67.68878937
11 07 2018 21:10
                 2579.717041 10.98252964 3266.238837 68.55554962
11 07 2018 21:20
11 07 2018 21:30
                 2726.740967 11.69888973 3467.158152 71.63014984
11 07 2018 21:40 2810.808105 11.4616003 3412.185312 69.78968048
11 07 2018 21:50 2558.033936 11.17996979 3332.350563 66.27057648
11 07 2018 22:00 2336.969971 10.51453972 3072.692301 66.03939056
11 07 2018 22:10 2514.947998 10.95368958 3255.845031 66.48018646
11 07 2018 22:20 2641.110107 10.94855022 3253.972642 62.73728943
11 07 2018 22:30 2597.292969 11.0915699 3303.823315 64.20572662
11 07 2018 22:40 2653.157959 11.26119041 3357.070733 65.4349823
11 07 2018 22:50 2591.25
                             11.27116013 3360.008536 70.43874359
11 07 2018 23:00 2667.346924 11.0964098 3305.429673 71.32827759
11 07 2018 23:10 2584.324951 11.10027981 3306.710387 71.9342804
11 07 2018 23:20 2292.287109 10.43791008 3035.664392 73.74816895
11 07 2018 23:30
                 2018.717041 9.975214958 2776.594816 76.72750092
11 07 2018 23:40
                 2033.510986 9.834207535 2684.632543 77.60458374
                 2074.596924 10.24481964 2935.166735 74.22382355
11 07 2018 23:50
12 07 2018 00:00
                 2148.577881 10.06472015 2831.691069 74.1181488
12 07 2018 00:10 1878.350952 9.283078194 2327.841403 71.29138947
12 07 2018 00:20 2094.226074 9.69982338 2590.88234 71.15048218
12 07 2018 00:30 2540.246094 11.25710011 3355.859369 72.76035309
12 07 2018 00:40 2521.113037 11.19944
                                       3338.405113 69.82082367
12 07 2018 00:50 2401.280029 10.71529007 3162.376635 68.49044037
12 07 2018 01:00 2537.346924 10.98052979 3265.524286 66.92359161
```

```
12 07 2018 01:10 2722.239014 11.46557045 3413.194963 63.18093872
12 07 2018 01:20
                 2852.467041 11.69598961 3466.550805 62.7262001
12 07 2018 01:30
                 2714.878906 11.52657032 3428.316903 64.39015961
12 07 2018 01:40 2439.272949 10.50069046 3066.117148 58.21818161
12 07 2018 01:50 2172.272949 9.945248604 2757.586528 57.1459198
12 07 2018 02:00
                 2095.199951 9.713792801 2600.913041 56.20087051
12 07 2018 02:10
                 2076.677979 9.465327263 2447.225745 55.14548874
                 2101.324951 9.575274467 2498.445318 55.68091965
12 07 2018 02:20
12 07 2018 02:30
                 1361.323975 7.924668789 1487.157165 49.85219955
12 07 2018 02:40
                 1613.772949 8.51793766 1839.066574 46.52598953
12 07 2018 02:50
                 1983.588989 9.197140694 2271.775587 48.05126953
12 07 2018 03:00
                 1744.467041 8.851112366 2048.487311 53.72814941
12 07 2018 03:10
                 1784.005005 8.842326164 2042.883663 40.76572037
12 07 2018 03:20 2043.229004 9.509642601 2447.514526 39.91151047
12 07 2018 03:30 1983.894043 9.138940811 2233.918238 39.68952942
12 07 2018 03:40 2040.641968 9.630508423 2540.111171 46.53881073
12 07 2018 03:50 2047.600952 9.352500916 2373.252866 39.36933899
12 07 2018 04:00 2385.356934 10.07886028 2840.168363 34.28876877
12 07 2018 04:10 1989.651001 9.071846962 2190.407182 47.53356934
12 07 2018 04:20 2094.350098 9.212760925 2281.952411 48.52904892
12 07 2018 04:30
                 1918.595947 9.053697586 2178.663703 53.92734146
                 2083.258057 9.170661926 2254.539651 36.84706116
12 07 2018 04:40
12 07 2018 04:50
                 1730.994995 8.568575859 1870.447503 45.20541
12 07 2018 05:00
                 2327.294922 9.76470089 2636.903349 45.92958069
12 07 2018 05:10 2195.584961 9.501322746 2440.946554 47.61645889
12 07 2018 05:20 2530.876953 10.47453022 3053.556993 48.05675125
12 07 2018 05:30 1847.802979 8.811861992 2023.484505 45.42541122
12 07 2018 05:40 1987.203979 9.144275665 2237.384211 52.91746902
12 07 2018 05:50 1935.368042 9.018945694 2156.211572 47.76388931
12 07 2018 06:00
                 1773.613037 8.67800045 1938.839999 38.05018997
12 07 2018 06:10 1940.453979 8.940059662 2105.423812 37.40737152
12 07 2018 06:20 1642.862061 8.494005203 1824.29814 40.83174133
12 07 2018 06:30 1562.168945 8.205369949 1649.704717 42.72463989
12 07 2018 06:40 1340.354004 7.734773159 1381.968835 35.996521
12 07 2018 06:50
                 1711.015991 8.44801712 1796.036576 31.59449959
                 1901.744995 9.105937958 2212.496843 32.43070984
12 07 2018 07:00
                 1906.406006 8.960577965 2118.608757 33.52613831
12 07 2018 07:10
12 07 2018 07:20
                 2002.51001 9.336256981 2362.618903 33.78483963
12 07 2018 07:30 1645.281982 8.564464569 1867.893123 32.17483139
12 07 2018 07:40 1499.988037 8.344952583 1733.287141 29.96416092
12 07 2018 07:50 1341.522949 7.769876003 1401.097622 28.0058403
12 07 2018 08:00 1498.366943 8.386514664 1758.490883 25.58031082
12 07 2018 08:10 1383.421997 8.008751869 1535.012523 26.48109055
12 07 2018 08:20
                 1570.430054 8.414055824 1775.267883 23.86919975
12 07 2018 08:30
                 1474.982056 8.252547264 1677.76525 22.87225914
12 07 2018 08:40
                 1392.793945 8.013824463 1537.92333 19.74354935
12 07 2018 08:50
                 1492.979004 8.31567955 1715.62029 20.27142906
12 07 2018 09:00
                 1600.899048 8.536767006 1850.714507 19.57773018
                 1709.911987 8.763011932 1992.47905 23.37479019
12 07 2018 09:10
12 07 2018 09:20
                 1715.98999 8.800474167 2016.245202 20.60794067
12 07 2018 09:30
                 1878.583008 9.169769287 2253.95895 20.10469055
12 07 2018 09:40
                 1905.156006 9.313591003 2347.789011 23.07799911
12 07 2018 09:50
                 1562.844971 8.408402443 1771.819225 23.70183945
12 07 2018 10:00
                 1599.944946 8.709028244 1958.368684 27.83742905
12 07 2018 10:10
                 1316.333008 7.899124146 1472.769215 25.81266022
12 07 2018 10:20
                 1203.42395 7.65946722 1341.438437 28.52313042
12 07 2018 10:30 1441.198975 8.203650475 1648.685771 28.90974045
12 07 2018 10:40 1575.202026 8.475158691 1812.697318 27.58779907
12 07 2018 10:50 1547.551025 8.489744186 1821.67304 26.86418915
```

```
12 07 2018 11:00 1559.984985 8.466733932 1807.519952 27.07344055
                 1344.047974 7.881604195 1462.942756 23.89262009
12 07 2018 11:10
12 07 2018 11:20
                 1440.942017 8.137412071 1609.641324 26.89242935
12 07 2018 11:30 1292.077026 7.862548828 1452.294018 29.35936928
12 07 2018 11:40 1216.277954 7.65309
                                        1338.038535 30.69721031
12 07 2018 11:50
                 1495.465942 8.378423691 1753.573544 29.92168045
12 07 2018 12:00
                 1576.797974 8.490253448 1821.986714 30.34902
                 1225.041992 7.791436195 1412.919237 30.06421089
12 07 2018 12:10
                 1310.379028 7.812265873 1424.392119 30.3195591
12 07 2018 12:20
12 07 2018 12:30
                 1359.213989 7.931929111 1491.259527 29.59770966
12 07 2018 12:40
                 1032.796997 7.324086189 1168.821862 27.67956924
12 07 2018 12:50
                 1178.897949 7.679975986 1352.40692 29.55093002
12 07 2018 13:00
                 826.1550903 6.821050167 937.4257106 34.40311813
12 07 2018 13:10
                 1124.067017 7.531291008 1274.107902 31.70298004
12 07 2018 13:20 844.7028198 6.857477188 953.0997614 33.69865036
12 07 2018 13:30 810.477417 6.732532024 899.9973201 34.97224045
12 07 2018 13:40 1090.364014 7.512523174 1264.430774 38.02270126
12 07 2018 13:50 1143.468018 7.620946884 1320.980472 39.27270889
12 07 2018 14:00 1140.478027 7.57451582 1296.574444 37.80820847
12 07 2018 14:10 1347.489014 7.995518208 1527.431201 36.05488968
12 07 2018 14:20
                 1527.166992 8.324173927 1720.73949 35.31391144
12 07 2018 14:30 1459.104004 8.199507713 1646.231913 34.72568893
12 07 2018 14:40
                 1498.880005 8.285796165 1697.65916 33.81369019
12 07 2018 14:50
                 1895.140991 9.028061867 2162.096828 33.83940887
12 07 2018 15:00 1828.082031 9.070837021 2189.753394 34.9358902
12 07 2018 15:10 1818.031006 8.988244057 2136.415074 36.10929108
12 07 2018 15:20 2082.435059 9.464767456 2446.858319 35.63311005
12 07 2018 15:30 2198.699951 9.883971214 2717.822429 38.2218399
12 07 2018 15:40 1644.838013 8.468280792 1808.470169 34.66521072
12 07 2018 15:50
                 1659.802979 8.653025627 1923.163309 36.83644867
12 07 2018 16:00
                 1613.718018 8.653144836 1923.238045 37.83597946
12 07 2018 16:10
                 1772.042969 8.975776672 2128.386934 40.30778885
12 07 2018 16:20
                 1621.598022 8.633357048 1910.844609 39.09777069
12 07 2018 16:30
                 1586.517944 8.56208992 1866.418255 39.80035019
12 07 2018 16:40 1347.194946 8.01088047 1536.233655 41.82862854
                 1147.206055 7.564896107 1291.553105 44.25194931
12 07 2018 16:50
12 07 2018 17:00
                 914.6328125 7.205203056 1111.104523 47.49430084
                 972.0241699 7.257276058 1136.141895 46.34814835
12 07 2018 17:10
12 07 2018 17:20
                 1242.067993 7.812636852 1424.596911 50.83980942
12 07 2018 17:30
                 1524.889038 8.530641556 1846.922541 51.61769867
12 07 2018 17:40 1573.270996 8.731790543 1972.731119 55.11397934
12 07 2018 17:50 1673.636963 8.987328529 2135.82532 55.1888504
12 07 2018 18:00
                 1729.552002 9.081831932 2196.872913 56.24641037
12 07 2018 18:10
                 1920.254028 9.488226891 2462.258404 57.41506958
12 07 2018 18:20
                 1941.717041 9.609374046 2524.296206 61.03900146
12 07 2018 18:30
                 1986.468018 9.873384476 2710.829457 63.47444916
                 1905.608032 9.459259033 2443.24307 64.69843292
12 07 2018 18:40
12 07 2018 18:50
                 1846.682007 9.313411713 2347.671745 67.77555847
12 07 2018 19:00 1740.001953 9.117691994 2220.122089 68.47644806
12 07 2018 19:10
                 1582.156982 8.909320831 2085.705921 69.81343079
12 07 2018 19:20
                 1408.159058 8.313214302 1714.135721 67.52239227
12 07 2018 19:30
                 1359.114014 8.192396164 1642.023223 66.27574921
12 07 2018 19:40
                 1461.28894 8.4022789
                                        1768.086569 66.62574005
12 07 2018 19:50
                 1313.821045 8.063400269 1566.509813 66.90107727
12 07 2018 20:00
                 1194.219971 7.849863052 1445.22749 64.0811615
12 07 2018 20:10 1246.577026 7.927000046 1488.473791 64.52655029
12 07 2018 20:20 1221.10498 7.811528206 1423.984953 63.47549057
12 07 2018 20:30 1393.619019 8.1369524 1609.371808 67.22437286
12 07 2018 20:40 1375.562012 8.180989265 1635.282194 68.4732666
```

```
12 07 2018 20:50 1517.521973 8.56273365 1866.818031 70.18979645
                 1589.475952 8.679586411 1939.836793 69.61765289
12 07 2018 21:00
12 07 2018 21:10
                 1614.196045 8.891862869 2074.526397 69.5249176
12 07 2018 21:20 1345.58606 8.215069771 1655.457767 70.63957214
12 07 2018 21:30 1113.956055 7.701069832 1363.742929 73.90312958
12 07 2018 21:40 709.6431885 6.770865917 916.0923453 77.35471344
12 07 2018 21:50 554.8148193 6.391018867 764.0167928 77.08534241
12 07 2018 22:00 487.3728027 6.030142784 634.2051588 78.92160797
12 07 2018 22:10 291.8627014 4.666635036 258.1284117 80.97733307
12 07 2018 22:20
                 399.2669983 6.019690037 630.6530459 79.48882294
12 07 2018 22:30 493.3391113 6.316997051 736.247689 66.95207214
12 07 2018 22:40 490.0463867 6.1384902 671.7121528 59.14242172
12 07 2018 22:50 484.8815918 6.030897141 634.4619604 55.10438919
12 07 2018 23:00 587.6906128 6.414328098 772.884697 53.85606003
12 07 2018 23:10 701.2033081 6.728013992 898.1117164 54.95674133
12 07 2018 23:20 777.4882202 6.89605093 969.8729111 64.36963654
12 07 2018 23:30 1008.494019 7.691812992 1358.761445 63.62192154
12 07 2018 23:40 1067.96106 7.781495094 1407.461641 64.57327271
12 07 2018 23:50 993.5714722 7.480844975 1248.052083 66.6283493
13 07 2018 00:00 1356.54895 8.330533028 1724.575783 60.51977921
13 07 2018 00:10 1134.082031 7.943305969 1497.699369 57.98765945
13 07 2018 00:20 1190.281006 7.978908062 1517.94142 57.66366959
13 07 2018 00:30 1290.713989 8.363235474 1744.356942 59.73550034
13 07 2018 00:40 1345.489014 8.085622787 1579.403996 54.15473175
13 07 2018 00:50 1520.022949 8.649368286 1920.87083 48.9471283
13 07 2018 01:00 1617.795044 8.799848557 2015.847695 46.19712067
13 07 2018 01:10 1653.47998 8.847621918 2046.260719 45.30480957
13 07 2018 01:20 1974.555054 9.190854073 2267.681627 45.14048004
13 07 2018 01:30 1867.357056 9.105026245 2211.905575 47.29288101
13 07 2018 01:40 1621.984985 8.599220276 1889.522852 47.28833008
13 07 2018 01:50 1662.956055 8.662581444 1929.156964 45.78292847
13 07 2018 02:00 1681.07605 8.745476723 1981.381059 46.43827057
13 07 2018 02:10 1681.952026 8.834630013 2037.978402 47.32553864
13 07 2018 02:20 1543.244995 8.463409424 1805.478349 45.70391846
13 07 2018 02:30 1615.741943 8.618069649 1901.286835 48.29106903
                 1564.454956 8.480157852 1815.771982 46.62017822
13 07 2018 02:40
                 2186.809082 9.848671913 2694.363306 43.97064972
13 07 2018 02:50
13 07 2018 03:00 2104.87793 9.658251762 2560.633244 43.9377594
13 07 2018 03:10 2065.406006 9.588633537 2508.622174 44.85211182
13 07 2018 03:20 2199.250977 9.909971237 2734.842109 45.0566597
13 07 2018 03:30 2225.550049 9.661896706 2563.309445 43.40605927
13 07 2018 03:40 2258.936035 9.967177391 2771.524373 44.24483109
13 07 2018 03:50 2162.593018 9.691280365 2584.714956 45.16891098
13 07 2018 04:00 2153.914063 9.850330353 2695.474603 44.82477951
13 07 2018 04:10 2217.858887 10.0649004 2831.799515 43.53408813
13 07 2018 04:20 2243.665039 10.00545025 2795.486159 43.88946152
13 07 2018 04:30 2134.98999 9.690158844 2583.903436 45.93133163
13 07 2018 04:40 1485.537964 8.279519081 1693.896047 42.97029114
13 07 2018 04:50 1754.286987 8.942671776 2107.101328 39.78063965
13 07 2018 05:00 1655.149048 8.621723175 1903.56968 32.41868973
13 07 2018 05:10
                 1465.384033 8.276971817 1692.369929 34.35094833
13 07 2018 05:20 1220.891968 7.52963686 1273.253082 34.13599014
13 07 2018 05:30 1376.787964 7.98910284 1523.762519 36.32334137
13 07 2018 05:40 1266.180054 7.548694134 1283.123539 31.75457001
13 07 2018 05:50 1423.125
                           7.895775795 1470.888586 34.20357895
13 07 2018 06:00 1062.214966 7.454018116 1234.232105 34.96530914
13 07 2018 06:10 912.1373291 7.038352966 1033.34772 40.12493134
13 07 2018 06:20 952.90448 7.075756073 1050.459085 38.60805893
13 07 2018 06:30 654.3181152 6.204688072 695.2457241 38.72838974
```

```
13 07 2018 06:40 721.112915 6.536355019 820.2851134 37.63607025
                 787.7520752 6.690492153 882.5438169 36.2577095
13 07 2018 06:50
13 07 2018 07:00 570.3861084 6.014932156 629.0400644 36.12994003
13 07 2018 07:10 511.5635071 5.922587872 599.1822463 27.3426609
13 07 2018 07:20 578.3632813 6.202414036 694.4295139 28.55507088
13 07 2018 07:30 472.1650085 5.840522766 572.5020391 28.93067932
13 07 2018 07:40 615.4193726 6.2598629
                                        715.2194502 23.81126022
13 07 2018 07:50 938.3463745 7.2059021
                                         1111.438154 26.0591507
13 07 2018 08:00
                 1046.792969 7.368699074 1191.000422 28.99410057
13 07 2018 08:10
                 699.5026245 6.325891972 739.5531753 31.41411972
13 07 2018 08:20 885.8812866 6.619577885 853.5649139 29.53351021
13 07 2018 08:30 862.4716797 6.987978935 1010.586523 28.17976952
13 07 2018 08:40 584.9522095 6.112801075 662.7058166 28.4400692
13 07 2018 08:50 702.0026855 6.431072235 779.2916331 24.61334991
13 07 2018 09:00 815.4702148 6.751008034 907.7331686 23.38207054
13 07 2018 09:10 886.9857788 7.01610899 1023.256984 26.03393936
13 07 2018 09:20 895.9832764 6.966934204 1001.172962 19.80772018
13 07 2018 09:30 938.4976807 7.145833015 1083.011612 24.31019974
13 07 2018 09:40 799.9229736 6.760248184 911.6170292 22.44869995
13 07 2018 09:50
                 1076.57605 7.395696163 1204.562837 19.25064087
13 07 2018 10:00 952.2086792 7.140997887 1080.744645 19.41044044
13 07 2018 10:10 896.3270264 7.077001095 1051.031789 19.15802956
13 07 2018 10:20
                 1062.397949 7.463350773 1239.027399 18.69304085
13 07 2018 10:30
                 827.6831055 6.901472092 972.2447931 20.00115967
13 07 2018 10:40
                 1156.682983 7.656065941 1339.624467 15.78098011
13 07 2018 10:50 1161.052979 7.624959946 1323.102972 10.78380966
13 07 2018 11:00 1415.151001 8.131345749 1606.086109 12.79699039
13 07 2018 11:10 1225.661987 7.744217873 1387.101052 12.48143005
13 07 2018 11:20 1123.900024 7.582868099 1300.944054 12.41318989
13 07 2018 11:30
                 1192.435059 7.739674091 1384.630637 13.15289021
13 07 2018 11:40
                 1390.633057 8.163760185 1625.123313 12.80535984
13 07 2018 11:50 1127.845947 7.602484226 1311.242287 13.79370975
13 07 2018 12:00 1389.962036 8.205106735 1649.548721 12.62102985
13 07 2018 12:10 1248.902954 7.861423969 1451.666687 13.93970966
13 07 2018 12:20 1274.678955 7.874359131 1458.889189 11.85741997
13 07 2018 12:30 1403.395996 8.197871208 1645.263003 12.98606968
13 07 2018 12:40
                 1419.192017 8.226755142 1662.399734 11.08440971
13 07 2018 12:50
                 1361.839966 8.077349663 1574.597954 10.9054203
13 07 2018 13:00
                 1552.303955 8.367765427 1747.103895 10.89317989
13 07 2018 13:10
                 1732.400024 8.750702858 1984.686872 12.43523979
13 07 2018 13:20 1895.416992 9.272908211 2321.197261 14.47173977
13 07 2018 13:30 1706.597046 8.93676281 2103.30698 15.69266987
13 07 2018 13:40 1789.578979 9.135293007 2231.548825 17.75551033
13 07 2018 13:50
                 1775.33606 8.989703178 2137.355065 22.00933075
13 07 2018 14:00
                 1727.868042 8.809042931 2021.69178 25.13417053
13 07 2018 14:10 1947.613037 9.253441811 2308.486245 22.70562935
                 1338.446045 7.985061169 1521.453466 24.46121025
13 07 2018 14:20
13 07 2018 14:30
                 1796.292969 9.030320168 2163.555244 25.23934937
13 07 2018 14:40
                 1708.279053 8.890349388 2073.557881 25.78550911
13 07 2018 14:50
                 1808.800049 9.077346802 2193.968151 26.26642036
13 07 2018 15:00
                 1785.499023 8.992472649 2139.139442 26.17551994
13 07 2018 15:10
                 2096.520996 9.842580795 2690.273971 26.09996986
13 07 2018 15:20
                 1815.146973 9.138801575 2233.82779 27.34144974
13 07 2018 15:30
                 1729.28894 8.85270977 2049.506513 32.12570953
13 07 2018 15:40
                 1625.470947 8.535913467 1850.185966 33.06348038
13 07 2018 15:50 1919.225952 9.185630798 2264.280973 32.63024902
13 07 2018 16:00 2053.966064 9.322591782 2353.676855 31.05480003
13 07 2018 16:10 2057.033936 9.39339447 2400.043272 32.3131218
13 07 2018 16:20 2472.091064 10.12327957 2866.402194 29.26326942
```

```
13 07 2018 16:30 2576.444092 10.74590015 3175.150506 30.19544029
13 07 2018 16:40 2536.006104 10.44604969 3039.672886 30.59583092
13 07 2018 16:50
                 2655.548096 10.67947006 3147.131126 28.31418037
13 07 2018 17:00 2726.342041 10.99427986 3270.418661 28.99696922
                 2717.738037 11.09782028 3305.896833 30.13529015
13 07 2018 17:10
13 07 2018 17:20
                 2514.887939 10.6578598 3137.776881 28.81407928
13 07 2018 17:30
                 2255.73291 10.0373497 2815.107196 27.51633072
                 1695.96106 8.737301826 1976.213082 32.17245102
13 07 2018 17:40
13 07 2018 17:50
                 1797.218018 9.103196144 2210.718791 36.73822021
                 1556.229004 8.628590584 1907.862985 40.31808853
13 07 2018 18:00
13 07 2018 18:10
                 1467.73999 8.46019268 1803.503707 39.43328094
13 07 2018 18:20
                 1607.006958 8.719340324 1964.871628 36.65037155
13 07 2018 18:30
                 1405.668945 8.26607132 1685.845554 31.71075058
13 07 2018 18:40
                 1308.541992 7.961792946 1508.193545 30.8884201
13 07 2018 18:50 1187.390991 7.786359787 1410.13087 33.93161011
13 07 2018 19:00 1480.412964 8.485847473 1819.273532 36.9058609
13 07 2018 19:10
                 1547.51001 8.549269676 1858.462394 35.20872879
13 07 2018 19:20
                 1355.875
                             8.112812996 1595.246696 34.56871033
13 07 2018 19:30
                 1266.699951 7.884233952 1464.415538 34.98413086
                 1194.327026 7.79458189 1414.64862 33.42728043
13 07 2018 19:40
13 07 2018 19:50
                 1183.385986 7.774816036 1403.801428 35.26485062
                 1103.635986 7.672076225 1348.175745 36.92398834
13 07 2018 20:00
                 1365.020996 8.160820007 1623.392443 35.22647095
13 07 2018 20:10
13 07 2018 20:20
                 1483.848022 8.548789978 1858.164927 38.78263092
13 07 2018 20:30 1799.42395 9.186834335 2265.064478 38.54489899
13 07 2018 20:40 1885.749023 9.292372704 2333.915571 40.58200836
13 07 2018 20:50 1244.607056 7.978419781 1517.662891 36.43637085
13 07 2018 21:00 1027.422974 7.494078159 1254.909881 38.61011887
13 07 2018 21:10 1092.82605 7.603494167 1311.773847 36.61061096
13 07 2018 21:20 882.6231079 7.09048605 1057.247791 39.83678055
13 07 2018 21:30
                 786.8792725 6.829235077 940.9336464 38.70248032
13 07 2018 21:40 868.8701782 7.148410797 1084.221493 34.12886047
13 07 2018 21:50
                 875.3123169 7.139639854 1080.108489 35.2346611
13 07 2018 22:00 690.2490845 6.604074955 847.3062059 35.65718079
13 07 2018 22:10 624.3917847 6.405451775 769.5007338 40.10488892
13 07 2018 22:20
                 484.4667053 6.083162785 652.4025575 40.56151962
13 07 2018 22:30
                 588.2955933 6.4403162
                                         782.841898 35.81792068
13 07 2018 22:40
                 580.3286743 6.37537384 758.0979637 39.53358841
13 07 2018 22:50
                 536.3170166 6.056847095 643.3330034 43.09236145
13 07 2018 23:00
                 504.6875
                             6.111419201 662.2233451 43.95124817
13 07 2018 23:10
                472.3934021 6.05901289 644.0766381 39.5745697
13 07 2018 23:20 405.447998 5.617603779 503.4756221 46.30445099
13 07 2018 23:30 453.1124878 5.977850914 617.5481701 48.79312897
13 07 2018 23:40
                 555.0275269 6.258028984 714.5503034 45.53728104
13 07 2018 23:50
                 502.1911011 6.172265053 683.6606271 40.34571075
14 07 2018 00:00
                 581.3651733 6.430870056 779.2140885 35.72301102
14 07 2018 00:10
                 563.5576782 6.3117342
                                        734.2959636 41.11244965
                 503.682312 6.017520905 629.9173826 30.23340034
14 07 2018 00:20
                 397.3951111 5.726181984 536.480232 33.18693161
14 07 2018 00:30
14 07 2018 00:40
                 520.2843018 6.283119202 723.7364594 27.8434391
14 07 2018 00:50
                 606.3314209 6.197200775 692.5604321 23.10984993
14 07 2018 01:00
                 795.6870117 6.722519875 895.8219552 22.51877975
14 07 2018 01:10
                 989.704895 7.202991009 1110.049224 16.09431076
14 07 2018 01:20
                 1087.083008 7.616934776 1318.860542 20.99873924
14 07 2018 01:30
                 928.928772 7.064941883 1045.493105 17.60894966
14 07 2018 01:40
                 1065.447998 7.289412022 1151.782097 18.29957962
14 07 2018 01:50 1104.121948 7.428772926 1221.326816 17.23304939
14 07 2018 02:00 1200.881958 7.80156517 1418.491902 16.44768906
14 07 2018 02:10 1179.667969 7.770339966 1401.351437 14.23075008
```

```
14 07 2018 02:20 663.3358154 6.592924118 842.8213361 19.80746078
                 573.6099243 6.174199104 684.3485277 22.43136024
14 07 2018 02:30
14 07 2018 02:40
                 552,5266113 6,272809029 719,9534425 21,32941055
14 07 2018 02:50
                 730.0296021 6.683231831 879.5503467 18.39764023
14 07 2018 03:00
                 963.449585 6.815530777 935.0647143 27.1871109
14 07 2018 03:10
                 821.0131836 6.825466156 939.3173416 19.86597061
14 07 2018 03:20
                 772.9984741 6.782493114 921.0084301 22.21036911
                 593.2161865 6.114935875 663.451568 20.84259987
14 07 2018 03:30
14 07 2018 03:40
                 338.0969849 5.270053864 405.2192763 26.1477108
14 07 2018 03:50
                 499.3671875 6.042644978 638.4690659 26.10766029
14 07 2018 04:00
                 331.3034973 5.328792095 421.0705261 28.74721909
14 07 2018 04:10
                 242.2326965 4.890645981 309.5823984 30.03993034
14 07 2018 04:20
                 306.0266113 5.136425018 370.235503 31.87940979
14 07 2018 04:30 435.5177002 5.767254829 549.2679627 33.03279877
14 07 2018 04:40 456.1376953 5.911170006 595.4280225 31.11591911
14 07 2018 04:50
                 369.0743103 5.299485207 413.124784 28.10897064
14 07 2018 05:00
                 308.0444946 4.992091179 334.0590395 29.79254913
14 07 2018 05:10
                 187.7662964 4.174966812 156.1874511 32.36294174
14 07 2018 05:20 305.4950867 5.252536774 400.5488956 20.21001053
14 07 2018 05:30
                 327.1223145 5.299221992 413.0537552 23.91650009
14 07 2018 05:40
                 325.4118042 5.254971981 401.196619 30.33777046
14 07 2018 05:50 588.2843018 6.239400864 707.773892
                                                     30.60961914
14 07 2018 06:00
                 329.4666138 5.323208809 419.5510688 26.3014698
14 07 2018 06:10
                 325.9450073 5.292160034 411.150283 25.12841034
14 07 2018 06:20
                 265.8543091 4.878944874 306.8077896 35.49747086
14 07 2018 06:30 293.5375977 5.173911095 379.9011734 28.31304932
14 07 2018 06:40 385.5863953 5.478899002 462.9502544 28.51091003
14 07 2018 06:50 262.9237061 4.946293831 322.9145588 19.45965004
14 07 2018 07:00 163.2919006 4.386823177 198.4205349 20.0102005
14 07 2018 07:10
                 373.9454041 5.29633522 412.2751428 22.46187019
14 07 2018 07:20
                 312.2001953 5.070619106 353.5397605 21.75849915
14 07 2018 07:30
                 240.8175964 4.807995796 290.1937114 11.58051968
14 07 2018 07:40
                 140.216507 4.255346775 171.9324575 14.96074963
14 07 2018 07:50
                618.789978 6.203822136 694.9348519 19.34962082
14 07 2018 08:00
                 432.5397949 5.843377113 573.4182817 25.95562935
14 07 2018 08:10
                 438.4973145 5.670238018 519.3313703 18.6578598
14 07 2018 08:20
                 467.17099
                            5.674736023 520.6988227 17.93188095
                 467.2121887 5.811923027 563.3677112 13.37001038
14 07 2018 08:30
14 07 2018 08:40
                 599.9539185 6.291858196 726.9519501 14.27000999
14 07 2018 08:50
                 352.3442993 5.307054043 415.1697888 18.9000206
14 07 2018 09:00 506.7373962 6.04451704 639.1089761 9.61811161
                 361.3223877 5.332500935 422.0813547 15.39214993
14 07 2018 09:10
14 07 2018 09:20
                 208.4248962 4.771141052 281.7029676 16.07966042
14 07 2018 09:30
                 350.4820862 5.435618877 450.6687725 11.0673399
14 07 2018 09:40
                 359.3023987 5.392508984 438.6030841 13.39352036
14 07 2018 09:50
                 350.1622925 5.266736984 404.3329467 9.340888023
                 460.7045898 5.770506859 550.2876766 12.26253986
14 07 2018 10:00
                 481.645813 5.840970993 572.645864 8.648845673
14 07 2018 10:10
                 473.8272095 5.748065948 543.2726667 10.69908047
14 07 2018 10:20
14 07 2018 10:30
                 829.9005127 6.739559174 902.9348507 355.2892151
14 07 2018 10:40
                 649.1619873 6.123755932 666.5378482 9.919657707
                 828.4257202 6.962120056 999.0273666 13.30082035
14 07 2018 10:50
14 07 2018 11:00
                 936.7896729 7.081608772 1053.153061 14.52023983
14 07 2018 11:10
                 877.9736938 7.043672085 1035.770097 8.683296204
14 07 2018 11:20
                 695.2213745 6.646635056 864.5537454 11.56301975
14 07 2018 11:30
                 822.444519 6.813650131 934.2610751 6.326286793
14 07 2018 11:40
                 1365.244995 8.090535164 1582.260897 10.50529957
14 07 2018 11:50 1328.791992 7.988471985 1523.401991 7.809699059
14 07 2018 12:00 1611.817017 8.674554825 1936.67491 10.06692982
```

```
14 07 2018 12:10 1662.389038 8.750948906 1984.842549 13.84101009
                 1613.420044 8.571703911 1872.391755 11.64251041
14 07 2018 12:20
14 07 2018 12:30
                 1298.162964 7.776987076 1404.990608 11.31101036
14 07 2018 12:40
                 1062.977051 7.320734024 1167.167014 4.308960915
14 07 2018 12:50
                 1223.295044 7.793015003 1413.78706 9.320560455
14 07 2018 13:00
                 1423.621948 8.283064842 1696.021316 11.10004044
14 07 2018 13:10
                 1582.531006 8.532977104 1848.368055 8.631995201
                 1648.110962 8.597346306 1888.354566 11.26725006
14 07 2018 13:20
                  1849.264038 9.202923775 2275.542588 10.39945984
14 07 2018 13:30
                 1771.900024 9.131422043 2229.034915 12.00216961
14 07 2018 13:40
14 07 2018 13:50
                 1585.01001 8.644256592 1917.66814 12.69530964
14 07 2018 14:00
                 1476.765991 8.181991577 1635.874041 9.016324997
14 07 2018 14:10
                 1330.713013 7.935994148 1493.558926 11.54170036
14 07 2018 14:20
                 1149.411987 7.63542223 1328.646134 11.80062008
14 07 2018 14:30
                 1037.702026 7.514419079 1265.406191 18.88287926
14 07 2018 14:40
                 1325.328003 8.030599594 1547.568254 24.17396927
14 07 2018 14:50
                 1559.547974 8.499515533 1827.694857 25.50218964
14 07 2018 15:00
                 1791.676025 9.040658951 2170.23452 27.14002037
14 07 2018 15:10
                 1775.973999 9.058019638 2181.459191 27.53490067
14 07 2018 15:20
                 1245.109985 7.7199049
                                         1373.911372 29.57394981
14 07 2018 15:30
                 984.6207886 7.214950085 1115.762519 31.52415085
                 1297.581055 7.847399235 1443.857153 32.51153946
14 07 2018 15:40
14 07 2018 15:50
                  1153.526001 7.601298809 1310.618539 27.8787899
14 07 2018 16:00
                 1049.202026 7.342854023 1178.116801 29.67336082
14 07 2018 16:10
                 1114.881958 7.453782082 1234.110998 27.90275002
14 07 2018 16:20
                 994.9813232 7.175875187 1097.167383 30.62240028
14 07 2018 16:30
                 1065.685059 7.411305904 1212.453832 28.69393921
                 1029.77002 7.35651207 1184.913138 31.53347969
14 07 2018 16:40
                 941.9492188 7.076601028 1050.847739 29.12458038
14 07 2018 16:50
14 07 2018 17:00
                 1222.078979 7.739439011 1384.502893 27.17448997
                 980.5402832 7.261407852 1138.144657 24.05075073
14 07 2018 17:10
14 07 2018 17:20
                 1258.630981 7.843671799 1441.785323 23.03226089
14 07 2018 17:30
                 1156.375977 7.717086792 1372.387205 30.33971977
14 07 2018 17:40
                 1224.610962 7.944581032 1498.421985 34.2335701
14 07 2018 17:50
                 1428.926025 8.280288696 1694.35725 36.94303894
                  1294.692017 7.970817089 1513.329359 35.45573044
14 07 2018 18:00
14 07 2018 18:10
                 1267.062988 7.918615818 1483.741386 31.46172905
14 07 2018 18:20
                 1318.869995 8.091292381 1582.701485 35.5014801
14 07 2018 18:30
                 1463.140015 8.288192749 1699.096804 31.42588043
14 07 2018 18:40
                 1382.584961 8.206453323 1650.346853 34.46281815
                 1684.512939 8.966583252 2122.471132 36.56830978
14 07 2018 18:50
                 1476.197998 8.341146469 1730.986072 37.15124893
14 07 2018 19:00
14 07 2018 19:10
                 1027.920044 7.429247856 1221.568712 39.08419037
14 07 2018 19:20
                 1160.897949 7.725893021 1377.153247 36.16576004
14 07 2018 19:30
                 1345.546997 8.003484726 1531.992895 37.75307083
14 07 2018 19:40
                 1307.230957 7.937005043 1494.131018 37.04444122
                 1439.395996 8.214645386 1655.205882 37.61391068
14 07 2018 19:50
                 1320.10498 7.913654804 1480.944798 37.43302917
14 07 2018 20:00
                 1402.358032 8.053593636 1560.83536 36.35797882
14 07 2018 20:10
14 07 2018 20:20
                 1164.376953 7.730239868 1379.509293 42.39406967
14 07 2018 20:30
                 1427.053955 8.184372902 1637.28054 38.75725937
14 07 2018 20:40
                 1107.896973 7.439016819 1226.551867 42.11875916
14 07 2018 20:50
                 1277.156006 7.986392975 1522.214153 42.84754944
14 07 2018 21:00
                 1345.668945 7.967563152 1511.476485 46.51977921
14 07 2018 21:10
                 1067.261963 7.541622162 1279.455052 45.20032883
14 07 2018 21:20
                 1160.713013 7.693544865 1359.692631 46.4270401
14 07 2018 21:30
                 1055.295044 7.524189949 1270.440859 49.98488998
14 07 2018 21:40 812.7136841 6.980594158 1007.276865 58.86819077
14 07 2018 21:50 937.902771 7.234755039 1125.2674
                                                    65.25549316
```

```
14 07 2018 22:00 1238.647949 7.983265877 1520.428345 66.27031708
14 07 2018 22:10
                 1181.067017 7.888232231 1466.65623 61.82612991
14 07 2018 22:20
                 1064.287964 7.570344925 1294.395808 69.65843964
14 07 2018 22:30 927.8925781 7.179183006 1098.733464 64.34767151
14 07 2018 22:40 674.2614136 6.49922514 805.6878375 59.13333893
14 07 2018 22:50 647.4890137 6.507309914 808.853226 61.83115005
14 07 2018 23:00 627.0574951 6.665760994 872.371952 56.12979126
14 07 2018 23:10 590.7426758 6.384064198 761.3824071 49.55110931
14 07 2018 23:20 546.289917 6.277748108 721.7642643 51.62771988
14 07 2018 23:30 437.1913147 5.808209896 562.1879269 40.93782043
14 07 2018 23:40
                 254.065094 5.063961983 351.8697977 45.8312912
14 07 2018 23:50 546.6425171 6.242135048 708.7661797 50.12462997
15 07 2018 00:00 794.2197266 7.00535202 1018.399903 49.19219971
15 07 2018 00:10 823.0930176 6.939890862 989.1577494 46.6586113
15 07 2018 00:20 711.2833252 6.705114841 888.5913503 40.07197952
15 07 2018 00:30 274.3279114 5.094107151 359.4595888 39.22695923
15 07 2018 00:40 342.2763062 5.638861179 509.8470859 40.32831955
15 07 2018 00:50 321.7844849 5.521452904 475.1924333 38.58285141
15 07 2018 01:00 312.8670959 5.597224236 497.4079123 32.50572968
15 07 2018 01:10 303.1919861 5.505005836 470.4410714 24.43828011
15 07 2018 01:20 308.0404053 5.404078007 441.8247823 24.28981972
15 07 2018 01:30
                 254.1204071 5.280119896 407.9148068 22.78185081
15 07 2018 01:40
                 77.40332031 3.843691111 99.94329075 30.20731926
15 07 2018 01:50
                 -0.139466897
                                   2.758209944 0
                                                     34.15954971
15 07 2018 02:00 0
                       3.284235954 31.55875675 22.23370934
15 07 2018 02:10
                       3.638597012 69.05959582 21.34004974
15 07 2018 02:20 37.74225998 4.045681953 131.5280045 17.40924072
15 07 2018 02:30 47.09764862 3.897322893 109.1294025 19.73335075
15 07 2018 02:40 73.48301697 4.181427002 157.4408236 24.54100037
15 07 2018 02:50 136.7958069 4.572269917 237.4555022 25.06142044
15 07 2018 03:00
                 101.4229965 4.420874119 205.4366128 23.21824074
15 07 2018 03:10 143.8748932 4.534307957 229.2970618 21.48664093
15 07 2018 03:20
                 182,2059021 4,745796204 275,9181496 16,17373085
15 07 2018 03:30
                 117.967598 4.324055195 185.6577911 12.84152031
15 07 2018 03:40 130.3708038 4.423646927 206.0108571 5.690055847
                 100.7288971 4.142663956 149.9510989 2.50316906
15 07 2018 03:50
                 95.01238251 4.068211079 135.7685314 358.316803
15 07 2018 04:00
                 6.843966007 3.490276098 50.91848735 3.316226959
15 07 2018 04:10
15 07 2018 04:20
                 22.58869934 3.529341936 55.35517278 357.9711914
15 07 2018 04:30
                 9.270320892 2.98062396 0
                                               357.53479
15 07 2018 04:40 0
                       2.237065077 0
                                         355.6080933
15 07 2018 04:50 0
                                         357.3987122
                       1.985180974 0
15 07 2018 05:00
                       1.905326009 0
                                         349.8615112
                 0
15 07 2018 05:10 0
                       2.211697102 0
                                         336.0386047
15 07 2018 05:20 0
                       2.785586119 0
                                         342.0628967
15 07 2018 05:30 0
                       2.237160921 0
                                        343.8876038
15 07 2018 05:40 0
                       1.952690959 0
                                        4.726143837
15 07 2018 05:50 0
                       2.190367937 0
                                         323.1784973
15 07 2018 06:00 0
                       2.003247023 0
                                         320.9596863
15 07 2018 06:10
                 0
                       2.38158989 0
                                         336.3570862
15 07 2018 06:20
                 0
                       2.778563023 0
                                         323.8642883
15 07 2018 06:30
                       2.735814095 0
                                         332.9525146
15 07 2018 06:40
                       3.344490051 36.51755327 340.5627136
15 07 2018 06:50
                 48.22967148 3.699503899 77.52858109 344.2366943
15 07 2018 07:00
                 3.007594109 2.864952087 0 338.3034058
15 07 2018 07:10
                 0
                      2.071784973 0
                                         336.5284119
15 07 2018 07:20 0
                       1.99121201 0
                                         354.122406
                                      1.47696197
20.56658936
15 07 2018 07:30 0
                    1.974614024 0
15 07 2018 07:40 0
                    2.647825956 0
```

```
15 07 2018 07:50
                        2.613548994 0
                                         6.967508793
                 0
15 07 2018 08:00
                  0
                        2.263418913 0
                                          353.5877075
15 07 2018 08:10
                        2,479173899 0
                                          338.8868103
                 0
15 07 2018 08:20
                 0
                        2.834254026 0
                                          341.1817932
15 07 2018 08:30
                 0
                        2.742485046 0
                                          343.8406067
15 07 2018 08:40
                 0
                        2.984110117 0
                                          331.6731873
15 07 2018 08:50
                 0
                        2.815715075 0
                                          329.1513977
15 07 2018 09:00
                                         336.3669128
                 0
                        2.675195932 0
15 07 2018 09:10
                 0
                        2.728624105 0
                                         347.5826111
                        3.012511969 16.41290694 340.656189
15 07 2018 09:20
                 0
15 07 2018 09:30
                 78.10547638 4.368810177 194.735536 349.131897
15 07 2018 09:40
                 342.4852905 5.224614143 393.1574767 350.9809875
15 07 2018 09:50
                 329.2196045 5.117932796 365.5090417 349.5763855
15 07 2018 10:00
                 209.6701965 4.462512016 214.106641 359.5945129
                360.5115051 5.403716087 441.7238162 346.9704895
15 07 2018 10:10
15 07 2018 10:20
                277.1098938 5.096436977 360.0491581 352.2423096
15 07 2018 10:30
                 212.1334076 4.581543922 239.4621692 341.3641052
15 07 2018 10:40
                 184.5673981 4.486626148 219.1742607 343.8337097
15 07 2018 10:50
                 250.9438019 4.715638161 269.0915039 353.1758118
                 181.026001 4.368984222 194.7710544 350.4294128
15 07 2018 11:00
15 07 2018 11:10
                 266.7719116 4.727488995 271.7667806 13.45042038
                 451.493103 5.763576984 548.1160105 11.21914005
15 07 2018 11:20
15 07 2018 11:30
                 647.1768188 6.465662003 792.6244963 353.8543091
15 07 2018 11:40
                 747.902771 6.707271099 889.4852162 354.7732849
15 07 2018 11:50
                 744.4945068 6.682160854 879.1092928 349.6928101
15 07 2018 12:00
                 633.1723022 6.210646152 697.3868612 358.6744995
15 07 2018 12:10 878.6220703 6.93427515 986.6741579 5.627706051
15 07 2018 12:20 949.852417 7.059766769 1043.122023 1.392487049
15 07 2018 12:30 645.6298218 6.333208084 742.2783717 12.94497013
15 07 2018 12:40 546.8240967 5.952394009 609.047533 18.47891998
15 07 2018 12:50 699.8267822 6.524055958 815.4328368 11.27600002
15 07 2018 13:00 852.171814 6.978751183 1006.451966 13.05037975
15 07 2018 13:10
                 597.6895752 6.242475033 708.8896229 16.29665947
15 07 2018 13:20
                 880.302124 7.006106853 1018.740251 15.41341972
15 07 2018 13:30
                 1065.53894 7.467138767 1240.977528 13.16767979
                  1024.520996 7.382630825 1197.985849 11.24228954
15 07 2018 13:40
15 07 2018 13:50
                 1103.490967 7.524618149 1270.661793 12.35470009
                 1117.121948 7.553277969 1285.504892 9.357124329
15 07 2018 14:00
15 07 2018 14:10
                 1314.628052 7.965367794 1510.227026 9.881991386
15 07 2018 14:20
                 1421.678955 8.176401138 1632.574177 10.03540039
15 07 2018 14:30 1292.333008 8.035835266 1550.584417 11.21078014
15 07 2018 14:40 950.7838745 7.247432232 1131.380015 12.96677017
15 07 2018 14:50
                 746.1740723 6.710285187 890.7355967 17.81440926
15 07 2018 15:00
                 683.6799927 6.572369099 834.5909209 20.47691917
15 07 2018 15:10
                 917.9179077 7.102149963 1062.643604 18.4860096
15 07 2018 15:20
                 994.3417969 7.310800076 1162.272434 15.81896019
15 07 2018 15:30
                849.9434204 6.959877014 998.0286681 21.9232502
15 07 2018 15:40
                643.5435791 6.434110165 780.4573543 24.16474915
                 629.2091064 6.367310047 755.0576799 22.59968948
15 07 2018 15:50
15 07 2018 16:00
                 511.4848938 6.041104794 637.9428797 22.66960907
15 07 2018 16:10
                 502.2832947 6.013791084 628.6535869 24.91546059
15 07 2018 16:20
                 458.2658081 5.901226044 592.1695929 28.16415024
15 07 2018 16:30
                 427.3277893 5.775350094 551.8083061 34.61470032
15 07 2018 16:40
                 378.6256104 5.610863209 501.4643275 35.76081085
15 07 2018 16:50
                 359.0494995 5.526650906 476.6992817 39.02093887
15 07 2018 17:00 477.8128052 6.041114807 637.9462999 38.46998978
15 07 2018 17:10 616.7116699 6.473344803 795.6037766 36.94086838
15 07 2018 17:20 582.2650757 6.31321907 734.8463238 32.68516922
15 07 2018 17:30 547.829895 6.134198189 670.2025109 31.30142975
```

```
15 07 2018 17:40 501.3392029 6.013033867 628.3971964 33.64669037
15 07 2018 17:50 526.8325195 6.185735226 688.4599954 40.60604858
15 07 2018 18:00
                 507.9537048 6.171255112 683.3015719 37.52025986
15 07 2018 18:10 688.5662842 6.618332863 853.0612763 36.05175018
                 790.1342773 6.960823059 998.449811 31.77495003
15 07 2018 18:20
                 899.5458984 7.164834976 1091.951136 33.01808167
15 07 2018 18:30
15 07 2018 18:40
                 994.9312134 7.38674593 1200.05464 32.53174973
                 1027.921021 7.505055904 1260.593697 30.56357002
15 07 2018 18:50
15 07 2018 19:00
                 878.8203735 7.033812046 1031.282623 30.59259987
                 725.2503052 6.817168236 935.7647795 34.758461
15 07 2018 19:10
15 07 2018 19:20
                 734.0244751 6.809164047 932.3457856 33.16460037
15 07 2018 19:30
                 553.1693726 6.214685917 698.8407843 35.38920975
15 07 2018 19:40
                 596.4525757 6.387654781 762.7418393 31.63832092
15 07 2018 19:50
                640.0056152 6.552619934 826.7279841 29.71219063
                742.4315186 6.739151001 902.7640658 26.84667015
15 07 2018 20:00
15 07 2018 20:10 698.960022 6.65019989 866.0077807 26.3468399
15 07 2018 20:20 918.2706909 7.346129894 1179.744427 23.74567986
15 07 2018 20:30
                 783.1256714 7.118758202 1070.357648 23.50255966
15 07 2018 20:40 646.9110718 6.509255886 809.6162066 22.2116909
15 07 2018 20:50
                 527.6088867 6.231048107 704.7474901 20.34087944
15 07 2018 21:00
                 620.2260742 6.542827129 822.8453038 18.37573051
15 07 2018 21:10 586.1397705 6.354358196 750.189257 20.1604805
15 07 2018 21:20
                 510.952301 6.124556065 666.8182388 21.35007095
15 07 2018 21:30
                 409.5804138 5.728316784 537.1407425 21.17577934
15 07 2018 21:40
                 304.9887085 5.312273979 416.5830143 21.02712059
15 07 2018 21:50 288.4014893 5.26729393 404.4817076 15.16814995
15 07 2018 22:00 232.6172028 4.952035904 324.3032484 16.17674065
15 07 2018 22:10 280.9822998 5.316884041 417.833073 12.26912975
15 07 2018 22:20 278.8503113 5.396224976 439.636605 9.186079979
15 07 2018 22:30 254.0325928 5.120429993 366.145707 5.003726006
15 07 2018 22:40
                 170.9725952 4.596073151 242.6167735 5.334722042
15 07 2018 22:50 86.84332275 4.071656227 136.419049 1.358217955
15 07 2018 23:00
                 31.62330055 3.615453005 65.99708825 5.897213936
15 07 2018 23:10
                 45.48054886 3.862831116 103.1687984 2.218719959
15 07 2018 23:20
                 39.0243988 3.722002983 80.80716007 4.527735233
                 75.39013672 4.043047905 131.0337265 3.203644037
15 07 2018 23:30
                 164.2973022 4.676983833 260.4304743 5.005231857
15 07 2018 23:40
                 223.4898071 4.99182415 333.9936023 1.387187004
15 07 2018 23:50
16 07 2018 00:00
                 147.9824982 4.496596813 221.2797076 357.3828125
16 07 2018 00:10
                 133.975296 4.47288084 216.2814479 355.0625
16 07 2018 00:20
                 164.8641052 4.618671894 247.5499389 353.199707
16 07 2018 00:30
                 114.2649002 4.260913849 173.0352388 351.5318909
16 07 2018 00:40
                 111.8374023 4.237038136 168.3170736 349.0440979
16 07 2018 00:50
                 84.69216156 4.024353981 127.5348318 348.480896
16 07 2018 01:00
                 54.39160919 3.811182976 94.59928084 345.7737122
16 07 2018 01:10
                  58.10129166 3.82250309 96.44100551 346.3151855
                  13.09179974 3.343224049 36.40738936 350.5710144
16 07 2018 01:20
16 07 2018 01:30
                  0
                        3.247842073 28.84500182 353.7396851
                        3.016762018 16.5588618 332.2213135
16 07 2018 01:40
                  0
16 07 2018 01:50
                  0
                        3.049592972 17.78373213 355.9432983
16 07 2018 02:00
                  0
                        2.747075081 0
                                          348.6485901
16 07 2018 02:10
                        2.824736118 0
                                          353.714386
16 07 2018 02:20
                        3.025366068 16.86318916 332.8193054
16 07 2018 02:30
                        2.819108009 0
                 0
                                          324.9707031
16 07 2018 02:40
                                          327.0848083
                 0
                        2.777877092 0
16 07 2018 02:50
                 0
                        3.054260969 17.97189124 318.7090149
16 07 2018 03:00
                 0
                        3.137392998 21.90672279 312.3298035
16 07 2018 03:10 0
                        2.977523088 0
                                         316.1123962
16 07 2018 03:20 0
                       3.265549898 30.13893661 317.2409058
```

```
16 07 2018 03:30 0
                       3.493364096 51.26030154 317.3200073
16 07 2018 03:40 23.21678925 3.701680899 77.84227544 324.817688
16 07 2018 03:50 52.729599
                             3.867866039 104.0270302 324.6152039
16 07 2018 04:00 84.95011139 4.058827877 133.9995583 324.6689148
16 07 2018 04:10 83.68338013 4.004802227 123.8921182 325.2558899
16 07 2018 04:20
                 102.9656982 4.088531017 139.6133311 322.9111938
16 07 2018 04:30 63.34632111 3.861196995 102.8911249 322.6000061
16 07 2018 04:40
                                               311.8783875
                 1.593199015 2.830517054 0
16 07 2018 04:50
                 0
                       2.742413998 0
                                         302.2626038
16 07 2018 05:00 0
                       3.339131117 36.05298889 301.8717041
16 07 2018 05:10 0
                       3.502428055 52.27241377 300.6781921
16 07 2018 05:20 0
                       3.425266981 44.07670381 299.2327881
16 07 2018 05:30 8.453054428 3.570751905 60.32467998 300.468689
                                               312.7145996
16 07 2018 05:40 1.363867998 2.771151066 0
16 07 2018 05:50 0
                       2.618247032 0
                                         317.1430969
16 07 2018 06:00 0
                       2.700068951 0
                                         322.533905
16 07 2018 06:10 0
                       3.161633015 23.26227498 330.1531982
16 07 2018 06:20 0
                       3.431998014 44.75371922 328.249115
16 07 2018 06:30 15.25045967 2.868784904 0
                                               313.425415
16 07 2018 06:40 25.66737938 2.969485998 0
                                               311.567688
16 07 2018 06:50 40.97063828 3.21053791 26.28331007 307.6965942
16 07 2018 07:00 84.73761749 3.833374977 98.22910747 313.5976868
16 07 2018 07:10 95.37552643 3.905654907 110.5978219 311.250885
16 07 2018 07:20 30.00746918 3.503341913 52.37518775 311.0252075
16 07 2018 07:30 72.5773468 3.662183046 72.26876843 313.1323853
16 07 2018 07:40 29.78723907 3.206547976 26.02250051 307.660614
16 07 2018 07:50 3.875324965 2.688386917 0
                                               300.1824951
16 07 2018 08:00 24.5737896 3.310851097 33.67750747 298.8998108
16 07 2018 08:10 65.77304077 3.794532061 91.92752157 293.7070007
16 07 2018 08:20 83.53636169 3.831538916 97.92580276 283.8500977
16 07 2018 08:30 29.72406006 3.351459026 37.12856462 279.3432922
16 07 2018 08:40 27.39567947 3.47923398 49.70870399 282.3680115
16 07 2018 08:50 14.99020004 2.951817036 0
                                               292.4237976
16 07 2018 09:00 13.96745968 3.19312501 25.16378185 297.8276062
16 07 2018 09:10 4.652466774 2.728728056 0
                                               295.0380859
16 07 2018 09:20 8.698266983 2.825159073 0
                                               279.8225098
16 07 2018 09:30 0
                       2.426457882 0
                                         279.9742126
                       3.202914953 25.78723676 284.5118103
16 07 2018 09:40 0
16 07 2018 09:50 0
                       3.460167885 47.66573089 293.4338074
16 07 2018 10:00 18.78553009 3.542109013 56.85806293 283.697998
16 07 2018 10:10 143.0019989 4.246311188 170.1460381 276.1594849
16 07 2018 10:20 144.4947052 4.14609623 150.6113047 276.9249878
16 07 2018 10:30 281.567688 5.222761154 392.6692733 290.4511108
16 07 2018 10:40 200.5272064 4.541736126 230.8864728 284.9992065
16 07 2018 10:50
                 102.0784988 3.9023333021 110.0110472 268.1028137
                 111.6014023 3.896857977 109.0477937 267.7963867
16 07 2018 11:00
16 07 2018 11:10 212.7225952 4.611054897 245.883574 291.978302
16 07 2018 11:20 281.1924133 4.989655018 333.4622422 284.7254028
16 07 2018 11:30 369.4226074 5.510434151 472.0064835 263.5708923
16 07 2018 11:40
                 182.0209961 4.465281963 214.6870027 265.7673035
16 07 2018 11:50
                 135.2680054 4.190651894 159.2341947 270.0614929
16 07 2018 12:00 78.73432159 3.532366991 55.70891277 283.8985901
16 07 2018 12:10 97.44967651 3.853796005 101.6388817 294.7076111
16 07 2018 12:20 42.06256866 3.413271904 42.88819426 278.7568054
16 07 2018 12:30 30.50182915 3.180325031 24.37177035 277.1611023
16 07 2018 12:40 139.0563965 4.087199211 139.3607466 276.032196
16 07 2018 12:50 80.99790192 3.741949081 83.78144576 291.9137878
16 07 2018 13:00 39.22900009 3.514934063 53.69045715 288.1771851
16 07 2018 13:10 24.81992912 3.43611002 45.17087657 292.5379944
```

```
16 07 2018 13:20 40.27301025 3.202842951 25.78259544 294.9006042
                 91.51891327 3.900751114 109.7322412 298.915802
16 07 2018 13:30
16 07 2018 13:40
                  18.24200058 3.052341938 17.89411629 308.627594
16 07 2018 13:50
                  41.40420914 3.294014931 32.32406014 315.9230042
                  18.30249977 3.236768961 28.06137002 335.1838074
16 07 2018 14:00
16 07 2018 14:10
                  16.71784973 3.157627106 23.03177174 344.5992126
16 07 2018 14:20
                  60.11201096 3.629268885 67.81495065 342.2197876
                  38.52519989 3.661298037 72.14674462 358.7571106
16 07 2018 14:30
16 07 2018 14:40
                  59.5855484 3.6947999
                                          76.85334889 14.90188026
16 07 2018 14:50
                  176.1300049 4.514844894 225.1484911 17.41931915
16 07 2018 15:00
                  156.4418945 4.403288841 201.8049872 19.23484993
16 07 2018 15:10
                  175.280899 4.469395161 215.5496371 14.65509987
16 07 2018 15:20
                  215.9506073 4.797133923 287.6815198 24.6597805
16 07 2018 15:30
                  167.4586029 4.528078079 227.9666501 25.09992981
16 07 2018 15:40
                  230.563797 4.825646877 294.2937441 26.81481934
16 07 2018 15:50
                  143.6752014 4.287052155 178.2347565 22.39248085
16 07 2018 16:00
                  154.8038025 4.404353142 202.0242793 29.67782021
16 07 2018 16:10
                  139.2736969 4.338974953 188.6717535 36.00740814
                  92.0324173 4.006826878 124.2685461 51.47612
16 07 2018 16:20
                  100.8103027 4.210288048 163.0658021 61.09579849
16 07 2018 16:30
16 07 2018 16:40
                  206.5350952 4.748703003 276.579387 60.25516891
                  219.2991028 4.910582066 314.3326069 64.12953186
16 07 2018 16:50
16 07 2018 17:00
                  324.901886 5.451873779 455.2614864 70.70432281
16 07 2018 17:10
                  225.9568024 4.991419792 333.894522 65.88276672
16 07 2018 17:20
                  288.7915039 5.419366837 446.1006254 75.01368713
16 07 2018 17:30
                  131.7454071 4.472467899 216.1947144 75.27777863
16 07 2018 17:40
                  34.16194916 3.281797886 31.37033623 84.52268219
16 07 2018 17:50
                  8.719619751 3.185887098 24.71270821 68.62032318
16 07 2018 18:00
                  0
                        3.366398096 38.46454426 53.06084824
                        3.160883904 23.21897534 54.82089996
16 07 2018 18:10
                  0
                  0
                        3.222362995 27.07123997 61.95407104
16 07 2018 18:20
16 07 2018 18:30
                        3.378734112 39.59465377 49.06264877
16 07 2018 18:40
                  32.73944855 3.884460926 106.88444
                                                       60.02930069
16 07 2018 18:50
                  25.12807083 3.347493887 36.7799645 65.76059723
16 07 2018 19:00
                  35.49337006 3.445262909 46.10913773 52.37390137
16 07 2018 19:10
                  23.43574905 3.398554087 41.46135958 50.03913116
                  16.88875961 3.273859024 30.76338997 45.91411972
16 07 2018 19:20
                  0.258600414 2.971441984 0
16 07 2018 19:30
                                                58.00502014
16 07 2018 19:40
                        2.65440011 0
                                          54.14078903
16 07 2018 19:50
                        2.95272994
                                          59.56784058
16 07 2018 20:00
                        2.60810709 0
                                          50.5942688
                  0
16 07 2018 20:10
                  0
                        2.593328953 0
                                          49.1993103
16 07 2018 20:20
                  0
                        2.594479084 0
                                          42.91878891
16 07 2018 20:30
                  0
                        2.724412918 0
                                          46.79735184
16 07 2018 20:40
                  0
                        2.51206708 0
                                          51.03142929
16 07 2018 20:50
                  0
                        1.917440057 0
                                          40.53419113
16 07 2018 21:00
                  0
                        1.456616998 0
                                          45.15626144
16 07 2018 21:10
                  0
                        1.339668989 0
                                          53.277771
16 07 2018 21:20
                  0
                        1.672384024 0
                                          75.60263062
16 07 2018 21:30
                  0
                        1.713099957 0
                                          85.30653381
16 07 2018 21:40
                  0
                        1.361565948 0
                                          95.79637146
16 07 2018 21:50
                                          70.53772736
                        0.839515328 0
16 07 2018 22:00
                        0.888842285 0
                                          65.06439972
16 07 2018 22:10
                        0.822465599 0
                                          45.22126007
                  0
16 07 2018 22:20
                        1.452586055 0
                                          348.6993103
                  0
16 07 2018 22:30
                  0
                        0.888992071 0
                                          353.6539001
16 07 2018 22:40
                  0
                        0.926784992 0
                                          337.4077148
16 07 2018 22:50
                  0
                        1.350602984 0
                                          337.3233948
16 07 2018 23:00
                  0
                        2.06407094 0
                                          341.4483032
```

```
16 07 2018 23:10
                        2.397808075 0
                                          342.3731995
                  0
16 07 2018 23:20
                  0
                        2.525192976 0
                                          343.1249084
16 07 2018 23:30
                        2.645469904 0
                                          337,3858032
                  0
16 07 2018 23:40
                  0
                        1.936656952 0
                                          324,6807861
16 07 2018 23:50
                  0
                        1.788403988 0
                                          323.4630127
17 07 2018 00:00
                        2.00137496 0
                                          329.6297913
17 07 2018 00:10
                  0
                        2.153842926 0
                                          326.0331116
17 07 2018 00:20
                                          312.4052124
                  0
                        2.136450052 0
17 07 2018 00:30
                  0
                        1.926952004 0
                                          306.8840942
17 07 2018 00:40
                  0
                        1.319159985 0
                                          318,2557068
17 07 2018 00:50
                                          294.5697937
                  0
                        0.86141777 0
17 07 2018 01:00
                        0.709851384 0
                                          234.0399017
17 07 2018 01:10
                        1.117704034 0
                                          238.4120941
17 07 2018 01:20
                        1.270998001 0
                                          233.9423981
17 07 2018 01:30
                        1.244974017 0
                                          221.7563934
                  0
17 07 2018 01:40
                  0
                        1.337134957 0
                                          225.004303
17 07 2018 01:50
                  0
                        1.786900043 0
                                          225.0695038
17 07 2018 02:00
                  0
                        1.963121057 0
                                          234.0919037
17 07 2018 02:10
                  0
                        2.56375289 0
                                          244.1497955
17 07 2018 02:20
                  0
                        2.850878
                                    0
                                          242.7528076
17 07 2018 02:30
                  0
                        3.286039114 31.69872163 239.9604034
17 07 2018 02:40
                        3.540087938 56.61841251 237.5382996
                  0
17 07 2018 02:50
                  29.88845062 4.221864223 165.3338132 226.0256042
17 07 2018 03:00
                  178.1571045 4.684294224 262.0608878 216.6833038
17 07 2018 03:10
                  181.0718994 4.757480145 278.5794951 206.9320984
17 07 2018 03:20
                  228.0874939 4.965119839 327.4767088 201.620697
17 07 2018 03:30
                 281.8570862 5.387714863 437.2715118 193.4396973
                 267.2799072 5.160268784 376.3703676 194.0175018
17 07 2018 03:40
                 268.7650146 5.142626762 371.8267623 192.9127045
17 07 2018 03:50
17 07 2018 04:00
                  281.2875977 5.209344864 389.1430118 194.4496002
17 07 2018 04:10
                 306.0585022 5.406504154 442.5019149 198.6499023
17 07 2018 04:20
                  329.2839966 5.542572975 481.3305609 202.6018982
17 07 2018 04:30
                  425.7013855 5.886610031 587.3990381 203.4920044
17 07 2018 04:40
                 470.3156128 6.0128479
                                          628.3342383 205.3759003
17 07 2018 04:50
                  461.1235962 5.925673008 600.1990059 209.2521973
17 07 2018 05:00
                  455.5212097 5.910723209 595.2813937 205.2664032
                  454.8197021 6.004096985 625.3758407 205.0921936
17 07 2018 05:10
                  526.4730225 6.267457008 717.9941895 206.9689941
17 07 2018 05:20
17 07 2018 05:30
                 591.7097778 6.468730927 793.8137995 208.838501
17 07 2018 05:40
                630.4434814 6.687180996 881.1778532 208.9358978
17 07 2018 05:50
                591.9902954 6.547348022 824.6364261 206.993103
17 07 2018 06:00
                581.7139282 6.69156599 882.9870831 202.343399
17 07 2018 06:10
                 574.8781738 6.430340767 779.0111038 199.9552002
17 07 2018 06:20
                 505.9406128 6.101928234 658.9151545 200.7857971
17 07 2018 06:30
                  404.4172974 5.703303814 529.4300212 198.8972931
                  296.7402954 5.057216167 350.1811146 199.1463013
17 07 2018 06:40
17 07 2018 06:50
                  406.839386 5.597766876 497.5689625 197.7252045
17 07 2018 07:00
                  386.3786926 5.489527225 465.9922592 195.4980011
17 07 2018 07:10
                  509.734314 6.044743061 639.1862601 189.0561981
                  720.4213867 6.569769859 833.5535539 190.5802002
17 07 2018 07:20
17 07 2018 07:30
                  735.184021 6.652166843 866.8106905 186.0386047
17 07 2018 07:40
                  515.7803955 6.023581028 631.9739401 189.5321045
17 07 2018 07:50
                  298.7738037 5.110155106 363.5292887 194.1329041
17 07 2018 08:00
                 175.8820038 4.341501236 189.1832975 196.5912018
17 07 2018 08:10
                  399.0786133 5.547809124 482.8587739 192.2059021
17 07 2018 08:20
                 187.1876984 4.425821781 206.4615758 197.6806946
17 07 2018 08:30 94.33307648 3.955190897 119.5572807 199.277298
17 07 2018 08:40 92.54091644 3.821779966 96.32274397 207.3226929
17 07 2018 08:50 213.4481049 4.633988857 250.9120399 211.5955963
```

```
17 07 2018 09:00 189.7552032 4.517638206 225.7424747 219.4694977
17 07 2018 09:10 195.4893036 4.322992802 185.4436383 223.3834991
17 07 2018 09:20 180.510498 4.473116875 216.3310288 207.9956055
17 07 2018 09:30 216.0027008 4.666687965 258.1401677 207.9768982
17 07 2018 09:40 76.28913116 3.625418901 67.30530903 194.2736053
17 07 2018 09:50 4.460330009 2.600536108 0
                                               176.4902039
17 07 2018 10:00 109.2666016 3.788882017 91.03101151 208.2758942
17 07 2018 10:10 236.0807037 4.711129189 268.0760925 213.8392029
17 07 2018 10:20 209.9844055 4.574172974 237.8668391 208.1777954
17 07 2018 10:30
                 155.6468048 4.163654804 153.9977345 204.207901
17 07 2018 10:40 174.7642975 4.354720116 191.8657002 219.735199
17 07 2018 10:50 177.604599 4.213193893 163.6344761 221.5381012
17 07 2018 11:00 248.3134003 4.760026932 279.1608322 221.1564026
17 07 2018 11:10 224.8410034 4.676702976 260.3679057 243.2507935
17 07 2018 11:20 245.1282043 4.679114819 260.9053783 215.7561951
17 07 2018 11:30 123.9240036 4.166655064 154.5778925 240.3975983
17 07 2018 11:40 334.5761108 5.186332226 383.1291231 243.6147003
17 07 2018 11:50 279.6473083 4.927278042 318.3331446 246.4855042
17 07 2018 12:00 176.978302 4.388877869 198.842031 240.9481964
17 07 2018 12:10 256.7809143 4.938420773 321.0144819 252.5722046
17 07 2018 12:20 163.0314026 4.395760059 200.25557
                                                     256.6311951
17 07 2018 12:30 139.9582977 4.270906925 175.0188402 266.7643127
17 07 2018 12:40 309.2355957 5.067955017 352.8710486 249.0348969
17 07 2018 12:50 366.348114 5.251698017 400.3259162 248.3206024
17 07 2018 13:00 357.6281128 5.213819027 390.3173172 241.1826019
17 07 2018 13:10 230.2393036 4.763012886 279.8429793 243.8986053
17 07 2018 13:20 304.5636902 5.24558115 398.7015634 238.1865997
17 07 2018 13:30 176.6524963 4.596982002 242.814546 225.6847992
17 07 2018 13:40 121.245697 4.110651016 143.8207176 219.3372955
17 07 2018 13:50 171.6988068 4.572535992 237.5129995 224.5413971
17 07 2018 14:00 157.4407043 4.226380825 166.2205628 242.7429962
17 07 2018 14:10 158.8907928 4.363629818 193.6791277 253.8571014
17 07 2018 14:20 208.4376068 4.634468079 251.0174725 250.6083069
17 07 2018 14:30 1.963863015 2.534488916 0
                                               244.0610046
17 07 2018 14:40 0
                       3.196933031 25.40446649 253.0395966
17 07 2018 14:50 40.81745911 3.436837912 45.24500205 243.7445068
17 07 2018 15:00 0
                       2.196249008 0
                                         233.8238983
                       3.310612917 33.65804408 258.4313049
17 07 2018 15:10 0
17 07 2018 15:20 20.77448082 3.193372011 25.17932313 264.7179871
17 07 2018 15:30 0
                       2.537242889 0
                                         279,5889893
17 07 2018 15:40 0
                       3.042777061 17.51525613 293.0804138
17 07 2018 15:50 0
                       3.585509062 62.1619589 290.8006897
17 07 2018 16:00 106.3740997 4.170179844 155.2600441 280.3034973
17 07 2018 16:10 356.0421143 5.516025066 473.6216308 283.5614014
17 07 2018 16:20 1273.779053 7.858998775 1450.31465 289.8500061
17 07 2018 16:30 1148.276978 7.659038067 1341.20948 295.5026855
17 07 2018 16:40 501.6509094 6.001762867 624.5881359 304.8337097
17 07 2018 16:50 557.8922119 6.333642006 742.4401864 315.0990906
17 07 2018 17:00 320.3514099 5.394773006 439.2326262 316.5021057
17 07 2018 17:10 217.9734955 4.856348991 301.4776756 329.464386
17 07 2018 17:20
                 139.183197 4.414618015 204.1426053 345.1130981
17 07 2018 17:30 85.88085938 4.014023781 125.6080807 337.6655884
17 07 2018 17:40 5.085934162 2.883321047 0
                                               327.6235046
17 07 2018 17:50 0
                       1.968773007 0
                                         332.6489868
17 07 2018 18:00 0
                       1.78571403 0
                                         332.3356018
17 07 2018 18:10 0
                       2.26482892 0
                                         345.9798889
17 07 2018 18:20 0
                       2.986458063 0
                                         299.8633118
17 07 2018 18:30 24.20801926 4.030048847 128.5990585 289.0578003
17 07 2018 18:40 213.7138977 4.832458973 295.881931 285.7254028
```

```
4.58199501 239.5599106 283.3452148
17 07 2018 18:50 161.4375
17 07 2018 19:00 216.4651031 4.834437847 296.3439041 284.8435059
17 07 2018 19:10 215.434906 4.827843189 294.8054396 278.2605896
17 07 2018 19:20 179.7281952 4.572222233 237.4451984 282.2518005
17 07 2018 19:30 232.0462036 4.852867126 300.6595939 282.931488
17 07 2018 19:40 148.0003967 4.320356846 184.9125581 282.2114868
17 07 2018 19:50 258.0527954 4.970407963 328.7629576 282.0645142
                 161.6557007 4.413665771 203.9458407 277.8387146
17 07 2018 20:00
1707201820:10122.4102024.250164986170.9074503266.88558961707201820:20138.2716984.408638202.9077991274.7101135
17 07 2018 20:30
                 129.4483032 4.341886997 189.2614406 273.3299866
17 07 2018 20:40 141.1175995 4.453502178 212.2220088 268.6459961
17 07 2018 20:50 181.4398956 4.717572212 269.527465 273.1091919
17 07 2018 21:00 272.8186951 5.071513176 353.7643049 274.6138
17 07 2018 21:10 308.2137146 5.22342205 392.8433656 277.0957031
17 07 2018 21:20 401.5545959 5.666606903 518.2289022 274.6463928
17 07 2018 21:30 775.5233154 6.687635899 881.3654407 274.6777039
17 07 2018 21:40 727.3773193 6.548257828 824.9971564 274.7325134
17 07 2018 21:50 960.8120117 7.250258923 1132.746021 277.0166931
17 07 2018 22:00 791.1928101 6.904911995 973.751702 281.9070129
17 07 2018 22:10 580.6860962 6.263957024 716.7145922 280.8410034
17 07 2018 22:20 641.5731201 6.216106892 699.3526134 278.333313
17 07 2018 22:30 261.3648987 4.959918022 326.2134961 289.7307129
17 07 2018 22:40 204.4118958 4.871455193 305.0369961 299.4270935
17 07 2018 22:50 8.379123688 3.174993992 24.04963951 294.3031921
17 07 2018 23:00 25.43144989 3.859875917 102.6669568 276.1850891
17 07 2018 23:10 133.3509064 4.284730911 177.7715454 284.8830872
17 07 2018 23:20 246.2319031 5.082056999 356.4171001 287.7688904
17 07 2018 23:30 176.7875977 4.652040958 254.8938805 290.1170044
17 07 2018 23:40 379.9092102 5.631184101 507.5410298 297.2056885
17 07 2018 23:50 224.7850952 4.928748131 318.6863755 295.9238892
18 07 2018 00:00 431.0640869 5.748679161 543.4636859 291.7684937
18 07 2018 00:10 689.5128784 6.75356102 908.8052466 298.6673889
18 07 2018 00:20 768.5598755 6.91125679 976.5349692 303.0306091
18 07 2018 00:30 876.2954102 7.019557953 1024.817416 305.7443848
18 07 2018 00:40
                 774.9622803 6.668002129 873.2908212 302.8638
18 07 2018 00:50 663.4230957 6.322885036 738.4347951 296.7267151
18 07 2018 01:00 928.9238892 7.008462906 1019.803041 293.953186
18 07 2018 01:10 774.0294189 6.635304928 859.942031 289.0492859
18 07 2018 01:20 1269.928955 7.62057209 1320.78235 285.9884949
18 07 2018 01:30 1640.177002 8.236162186 1667.99709 295.2969055
18 07 2018 01:40 998.1409912 7.119608879 1070.753746 284.2314148
18 07 2018 01:50 1672.953003 8.05282402 1560.390443 280.0631104
18 07 2018 02:00
                 1996.770996 8.608787537 1895.490936 275.4543152
18 07 2018 02:10
                 1211.927979 7.559121132 1288.544516 276.6547852
18 07 2018 02:20
                 715.604187 6.310482979 733.8323897 277.5127869
18 07 2018 02:30 49.59732819 3.345204115 36.57980215 290.1653137
18 07 2018 02:40
                 0
                        2.634361982 0
                                         290.0392151
18 07 2018 02:50 182.1271057 4.916993141 315.866351 270.9494934
18 07 2018 03:00
                 313.5664063 5.378293037 434.6605071 282.7098999
18 07 2018 03:10
                 101.0511017 4.075909138 137.2228472 292.0574036
18 07 2018 03:20
                 131.1519928 4.408970833 202.9764716 306.0678101
18 07 2018 03:30
                 149.7039032 4.370090961 194.9969516 309.6821899
18 07 2018 03:40 35.92304993 3.73191905 82.27784929 308.9273987
18 07 2018 03:50 9.826066971 3.124744892 21.2367396 322.5624084
18 07 2018 04:00 0
                        2.90479207 0
                                         345.7645874
18 07 2018 04:10 0
                        3.428625107 44.41356199 326.8360901
18 07 2018 04:20 215.384201 4.950696945 323.9792091 324.7817078
18 07 2018 04:30 197.7046967 4.745037079 275.7455587 327.843689
```

```
18 07 2018 04:40 93.5766983 4.041474819 130.7386878 335.0748901
18 07 2018 04:50 52.83285904 3.764624119 87.23997525 311.3280029
18 07 2018 05:00
                  116.2544022 4.019597054 126.6469957 286.4381104
18 07 2018 05:10
                  292.1846924 5.17625618 380.5096384 279.6896973
                  263.9068909 5.047440052 347.7401382 279.6112061
18 07 2018 05:20
18 07 2018 05:30
                  279.1514893 5.059465885 350.7438934 289.2320862
18 07 2018 05:40
                  48.52568817 3.694870949 76.8635212 307.7567139
18 07 2018 05:50
                  24.73167992 3.25850606 29.61822454 321.5752869
18 07 2018 06:00
                  0
                        2.133455992 0
                                           315.5857849
18 07 2018 06:10
                  0
                        1.748371005 0
                                           354.0982056
18 07 2018 06:20
                  Θ
                        0.963293672 0
                                           343.2258911
18 07 2018 06:30
                        2.153383017 0
                                           343.8688049
18 07 2018 06:40
                        3.225730896 27.29974366 359.148407
                                           341.2254028
18 07 2018 06:50
                        2.729871988 0
18 07 2018 07:00
                        2.565937042 0
                                           342.1418152
                  0
18 07 2018 07:10
                  0
                        1.448665023 0
                                           315.2923889
18 07 2018 07:20
                  0
                        1.587604046 0
                                           328.4724121
18 07 2018 07:30
                  0
                        1.556982994 0
                                           345,2099915
18 07 2018 07:40
                  0
                        0.871270478 0
                                           313.0003967
18 07 2018 07:50
                  0
                        1.076905966 0
                                           339.9421082
18 07 2018 08:00
                        1.496734023 0
                                           342.180603
                  0
18 07 2018 08:10
                  0
                        1.159147978 0
                                           350.5056152
18 07 2018 08:20
                        1.35384798 0
                                           75.52086639
18 07 2018 08:30
                  0
                        0.948510289 0
                                           56.72135925
18 07 2018 08:40
                        1.862071991 0
                                           0.336786687
18 07 2018 08:50
                        2.629817009 0
                                           352.0779114
18 07 2018 09:00
                        1.549281001 0
                                           347.9902954
18 07 2018 09:10
                        1.016011
                                           14.36839008
                  0
                                     0
18 07 2018 09:20
                  0
                        1.133281946 0
                                           17.15185928
18 07 2018 09:30
                  0
                        1.148663998 0
                                           69.50885773
18 07 2018 09:40
                  0
                        2.065732002 0
                                           10.05189037
18 07 2018 09:50
                  0
                        2.669462919 0
                                           1.179479957
18 07 2018 10:00
                        1.909733057 0
                                           8.498473167
                        0.964804113 0
18 07 2018 10:10
                                           88.58822632
                  0
18 07 2018 10:20
                                           66.63980103
                  0
                        1.098479986 0
18 07 2018 10:30
                  0
                        1.509202003 0
                                           34.47713089
18 07 2018 10:40
                  0
                        1.296708941 0
                                           16.90195084
                        1.078137994 0
18 07 2018 10:50
                                           2.494326115
18 07 2018 11:00
                        1.341807008 0
                                           359.9873962
18 07 2018 11:10
                        1.639994025 0
                                           334.8110962
18 07 2018 11:20
                        1.424303055 0
                                           357.2809143
                  0
18 07 2018 11:30
                  0
                        2.186342001 0
                                           346.0235901
18 07 2018 11:40
                        2.246308088 0
                  0
                                           325.2236023
                                           315.987793
18 07 2018 11:50
                  0
                        2.521847963 0
18 07 2018 12:00
                  0
                        3.276880026 30.99316473 317.493103
18 07 2018 12:10
                  0
                        2.490967035 0
                                           293.9454956
18 07 2018 12:20
                  0
                        3.023639917 16.80118501 276.894989
18 07 2018 12:30
                        3.230726957 27.64205694 274.842804
                  0
18 07 2018 12:40
                  2.839735985 3.50029707 52.03327885 266.6263123
18 07 2018 12:50
                  14.91425991 3.257652044 29.55563149 274.9802856
18 07 2018 13:00
                  61.49847031 3.71389389 79.61616343 283.0650024
18 07 2018 13:10
                  18.87397003 2.854279041 0
                                                 282.2098083
18 07 2018 13:20
                  49.99914932 3.429349899 44.48650366 312.8416138
18 07 2018 13:30
                  25.49947929 2.904093027 0
                                                 308.6014099
18 07 2018 13:40
                  14.54864025 2.968796968 0
                                                 311.0779114
18 07 2018 13:50
                  28.80374908 3.336405039 35.81842925 311.6315002
18 07 2018 14:00
                  67.57180023 3.567446947 59.91798533 312.0338135
18 07 2018 14:10
                  98.95258331 3.941740036 117.0856248 316.9049072
18 07 2018 14:20 38.42520142 3.339118004 36.05185777 334.6665955
```

```
18 07 2018 14:30 104.1592026 4.075251102 137.098424 341.3104858
18 07 2018 14:40 56.49237823 3.588792086 62.57543635 352.8341064
                 6.30768013 2.73259902 0
18 07 2018 14:50
                                               3.908602953
18 07 2018 15:00
                 21.92248917 3.166657925 23.5550427 13.53590965
18 07 2018 15:10
                 0
                       2.153331995 0
                                         23.19728088
18 07 2018 15:20
                       2.258085966 0
                                         359.7872925
                       3.334734917 35.67531449 340.7453003
18 07 2018 15:30
                 0
18 07 2018 15:40
                 0
                       2.071788073 0
                                         19.64908981
18 07 2018 15:50
                 0
                       2.568491936 0
                                         340.0882874
                 7.155929089 3.724199057 81.1315117 327.015686
18 07 2018 16:00
                 16.17554092 3.044378042 17.5776502 331.8306885
18 07 2018 16:10
18 07 2018 16:20
                 0
                       2.59505105 0
                                         317.802887
18 07 2018 16:30
                       3.141364098 22.12235577 318.8045044
18 07 2018 16:40
                 0
                       3.207781076 26.1028325 358.0357056
18 07 2018 16:50
                       2.540324926 0
                                         356.699707
                 0
18 07 2018 17:00
                 0
                       3.380749941 39.78163951 352.3143921
18 07 2018 17:10 0
                       2.201339006 0
                                         19.24292946
18 07 2018 17:20 0
                       1.958431959 0
                                         30.23594093
18 07 2018 17:30 0
                       2.394197941 0
                                         52.05503082
18 07 2018 17:40 0
                       2.463650942 0
                                         61.92765045
18 07 2018 17:50
                       1.824766994 0
                                         53.69091034
                 0
18 07 2018 18:00
                 0
                       1.033053994 0
                                         326.7052002
18 07 2018 18:10
                 0
                       2.376110077 0
                                         313.6906128
18 07 2018 18:20
                 0
                       1.960860968 0
                                         294.2427979
18 07 2018 18:30
                 0
                       2.574805975 0
                                         269.4325867
18 07 2018 18:40 0
                       2.997421026 0
                                         276.1908875
18 07 2018 18:50 0
                       3.230746984 27.64343717 275.464386
18 07 2018 19:00 6.714931011 3.617347002 66.24448974 267.1286926
18 07 2018 19:10 25.08205032 3.184099913 24.60261943 243.9223938
18 07 2018 19:20 57.15546036 3.60018301 64.02342797 254.0081024
18 07 2018 19:30
                 233.006897 4.803166866 289.0758358 249.7498932
18 07 2018 19:40
                 325.8086853 5.328637123 421.028315 246.4555969
18 07 2018 19:50
                 339.8753052 5.357906818 429.0377513 237.3905945
18 07 2018 20:00 403.3970032 5.6353302
                                         508.7857382 233.3856964
18 07 2018 20:10 470.7969055 5.73197794 538.2745638 233.0251007
18 07 2018 20:20
                 367.6465149 5.329567909 421.2818725 247.5948944
                 465.8985901 5.736320019 539.6209877 252.5140991
18 07 2018 20:30
18 07 2018 20:40
                 529.416626 6.054478168 642.5201962 261.5806885
18 07 2018 20:50 563.3529053 6.08262682 652.2171021 263.2497864
18 07 2018 21:00
                 522.9395752 5.90294981 592.7336916 267.7962952
18 07 2018 21:10 724.3447266 6.59561491 843.9022852 262.0071106
18 07 2018 21:20 644.7030029 6.357780933 751.4740447 259.575592
18 07 2018 21:30 668.5623169 6.422520161 776.0154488 257.7720032
18 07 2018 21:40 568.9146729 6.112587929 662.6313848 260.4773865
18 07 2018 21:50
                 564.1085815 6.136086941 670.8666046 260.8633118
18 07 2018 22:00
                 688.4528809 6.455827236 788.8202183 267.3268127
                 1068.98999 7.539402008 1278.304752 277.7373047
18 07 2018 22:10
18 07 2018 22:20 994.0103149 7.270886898 1142.748385 281.9194031
18 07 2018 22:30
                 729.3023071 6.651965141 866.7283354 284.3828125
18 07 2018 22:40
                 532.8272705 6.01354599 628.5705923 286.3396912
18 07 2018 22:50
                 191.5361023 4.569427013 236.8414422 291.2780151
                 279.7962952 5.056259155 349.9418324 291.1019897
18 07 2018 23:00
18 07 2018 23:10
                 205.3878021 4.611849785 246.0572984 294.0965881
18 07 2018 23:20
                 117.4644012 4.091185093 140.1169392 288.3449097
18 07 2018 23:30
                 174.4221039 4.5063591
                                         223.3469211 293.9664001
18 07 2018 23:40 104.2904968 4.045590878 131.5109089 284.4689941
18 07 2018 23:50
                 102.5948029 3.956681013 119.8328773 279.6366882
19 07 2018 00:00 270.2623901 4.901086807 312.0665438 283.3198853
19 07 2018 00:10 206.1486969 4.563725948 235.6115411 276.5484009
```

```
19 07 2018 00:20 246.4091034 4.963943958 327.1909801 264.8987122
                 388.3823853 5.546178818 482.3826809 274.6802979
19 07 2018 00:30
19 07 2018 00:40
                 382,1180115 5,525890827 476,4787861 273,5595093
19 07 2018 00:50 441.7786865 5.780352116 553.3812723 273.7055054
19 07 2018 01:00 537.8867188 6.048523903 640.4798642 276.1272888
19 07 2018 01:10
                587.3479004 6.168264866 682.2391169 291.0856018
19 07 2018 01:20
                 797.3585205 6.685717106 880.5743534 292.1185913
19 07 2018 01:30 807.7949829 6.854914188 951.9916977 291.5859985
19 07 2018 01:40
                 635.1469116 6.19072485 690.2427094 286.0927124
                 493.0914917 5.878283978 584.6914529 284.5974121
19 07 2018 01:50
19 07 2018 02:00
                 539.0036011 5.901971817 592.4136073 292.1312866
19 07 2018 02:10 598.4724731 6.241299152 708.462732 295.9335022
19 07 2018 02:20 618.3471069 6.238646984 707.5004359 296.5419922
19 07 2018 02:30 469.8684082 5.798180103 559.0081465 295.8756104
19 07 2018 02:40 454.2257996 5.68371582 523.4347075 294.9866028
19 07 2018 02:50 418.9519043 5.653093815 514.1373618 292.3357849
19 07 2018 03:00
                 379.1419983 5.51662302 473.7945434 286.7056885
19 07 2018 03:10 283.6260071 5.07121706 353.6899289 285.3291016
19 07 2018 03:20 316.8244934 5.294561863 411.7971909 283.061615
19 07 2018 03:30 305.2390137 5.178461075 381.0821387 286.8700867
19 07 2018 03:40 269.7887878 5.048157215 347.9189529 281.668396
                 243.5684967 4.908380032 313.8065006 280.1109924
19 07 2018 03:50
19 07 2018 04:00
                 216.6125946 4.784863949 284.8535175 264.6411133
19 07 2018 04:10 317.4205933 5.278718948 407.5391394 265.5021057
19 07 2018 04:20 208.5516968 4.747182846 276.2335108 268.1618958
19 07 2018 04:30 319.028595 5.337575912 423.4664501 262.1386108
19 07 2018 04:40 422.8340149 5.739151955 540.5001464 255.2416992
19 07 2018 04:50 343.5892029 5.417871952 445.6816294 249.9678955
19 07 2018 05:00 326.9829102 5.424060822 447.4175857 244.8531036
19 07 2018 05:10 679.6741943 6.348842144 748.1213818 239.4649048
19 07 2018 05:20 565.2185059 5.91771698 597.5790047 243.3802948
19 07 2018 05:30
                 1256.015015 7.907399178 1477.422263 241.3695068
19 07 2018 05:40
                 777.071228 6.59445715 843.4370875 229.0807953
19 07 2018 05:50 841.359375 6.82454586 938.9229312 222.4019012
19 07 2018 06:00 1147.474976 7.556437969 1287.148168 224.8032074
19 07 2018 06:10 541.3048096 5.889811993 588.4422231 225.741394
                 998.6602783 7.11454916 1068.39922 225.2144012
19 07 2018 06:20
                 1302.124023 7.827086926 1432.586165 220.8921967
19 07 2018 06:30
19 07 2018 06:40 1255.213989 7.755577087 1393.287819 218.7478027
19 07 2018 06:50 805.8203735 6.605635166 847.9348464 224.5522003
19 07 2018 07:00 896.2155151 6.61805582 852.9492307 230.0341949
19 07 2018 07:10 615.0485229 5.65471983 514.6287542 234.9662018
19 07 2018 07:20 619.8170776 6.110212803 661.8023066 235.6204071
19 07 2018 07:30 697.9213867 6.255044937 713.4622776 232.9846954
19 07 2018 07:40
                 633.6165161 6.280814171 722.8897015 247.8674011
19 07 2018 07:50
                 411.5971069 5.535289764 479.2091517 254.2472992
                 628.921875 6.30833292 733.0361938 252.4588928
19 07 2018 08:00
                 611.6240234 6.106314182 660.4427333 249.0437927
19 07 2018 08:10
19 07 2018 08:20
                 365.0296936 5.251326084 400.2270585 249.0027008
19 07 2018 08:30
                 569.6016235 5.84304285 573.3109403 254.8713074
19 07 2018 08:40
                 413.9805908 5.41441679 444.713958 266.927002
19 07 2018 08:50
                 956.0103149 7.038619995 1033.46924 259.1412964
19 07 2018 09:00
                 1026.848022 7.389939785 1201.662013 258.8016968
19 07 2018 09:10
                 870.1168823 6.988567829 1010.850746 253.6808014
19 07 2018 09:20
                 657.6132813 6.161241055 679.7472713 268.0151062
19 07 2018 09:30
                 725.7954712 6.544177055 823.3798883 267.2088928
19 07 2018 09:40
                 750.5092163 6.570178032 833.7164069 256.8604126
19 07 2018 09:50 835.6760864 6.710652828 890.8881833 259.9274902
19 07 2018 10:00 1052.04895 7.444941998 1229.581319 257.6702881
```

```
19 07 2018 10:10 818.3950195 6.844396114 947.4527364 256.7177124
19 07 2018 10:20 855.5894165 6.756698132 910.1236668 263.3212891
19 07 2018 10:30
                 1148.13501 7.431744099 1222.84068 259.2612915
19 07 2018 10:40 968.8076172 7.208613873 1112.73303 261.6803894
19 07 2018 10:50
                 726.1616211 6.442887783 783.8312168 265.1907043
19 07 2018 11:00
                 1009.453979 7.285665035 1149.95098 257.256012
19 07 2018 11:10
                 954.6981812 7.095056057 1059.359779 258.3757935
19 07 2018 11:20
                 541.4807739 6.098484993 657.7173506 259.2066956
19 07 2018 11:30
                 277.5910034 4.819242954 292.8036996 264.623291
                 322.5555115 5.024529934 342.0487348 260.3837891
19 07 2018 11:40
19 07 2018 11:50
                 490.0436096 5.618076801 503.6169288 267.7615967
19 07 2018 12:00 507.9332886 5.997817039 624.2639388 261.6541138
19 07 2018 12:10 455.1947021 5.567647934 488.6721961 258.2199097
19 07 2018 12:20 600.7244263 6.148815155 675.3518474 261.8109131
19 07 2018 12:30 550.1229248 5.99431181 623.0818195 259.4129944
19 07 2018 12:40 696.2681274 6.485833168 800.4605062 262.892395
19 07 2018 12:50 940.9022827 7.009288788 1020.175755 259.2531128
19 07 2018 13:00
                 766.5272827 6.57733202 836.5737558 252.7030029
19 07 2018 13:10 528.4370117 5.943183899 605.9890953 258.1940918
19 07 2018 13:20 607.6774902 6.321031094 737.7457391 252.6266937
19 07 2018 13:30 489.9632874 5.923231125 599.3941585 248.2129059
19 07 2018 13:40
                 399.3599854 5.505197048 470.4961666 248.7418976
19 07 2018 13:50
                 293.6358948 5.020996094 341.1744446 248.7846069
19 07 2018 14:00
                 286.1841125 4.955730915 325.198165 243.2407074
19 07 2018 14:10
                 137.5305023 4.030772209 128.7343408 260.3106995
19 07 2018 14:20 165.297699 4.412322044 203.6682712 264.1195068
19 07 2018 14:30 103.2018967 3.957988024 120.0749011 259.8048096
19 07 2018 14:40 51.52799988 3.507910967 52.89103496 265.8146973
19 07 2018 14:50 36.97751999 3.443990946 45.97794706 246.0007935
19 07 2018 15:00 22.57949066 3.193005085 25.15623975 259.5712891
19 07 2018 15:10
                 13.8138504 3.258249044 29.59937494 270.1937866
19 07 2018 15:20 56.71622849 3.612921953 65.66736816 265.5734863
19 07 2018 15:30
                 74.43289185 3.925259113 114.0966458 260.0466003
19 07 2018 15:40
                 107.7506027 4.069249153 135.9644842 255.611496
19 07 2018 15:50
                 71.06915283 3.842391014 99.7263221 265.3009949
                 110.6381989 4.158754826 153.0511819 277.8421936
19 07 2018 16:00
19 07 2018 16:10
                 147.4461975 4.315162182 183.867064 286.0360107
19 07 2018 16:20
                 249.6362
                              5.028288841 342.9797603 295.4108887
19 07 2018 16:30 275.5665894 5.119392872 365.8812305 298.3182983
19 07 2018 16:40 309.877594 5.264082909 403.6244
                                                      289.7466125
19 07 2018 16:50 326.4971008 5.365214825 431.0491908 291.4237976
19 07 2018 17:00 357.1979065 5.481556892 463.7100256 291.9071045
19 07 2018 17:10
                 269.5960999 5.037045956 345.152985 286.7544861
19 07 2018 17:20
                 286.2963867 5.1273489 367.9122994 286.9700928
19 07 2018 17:30
                 224.0980072 4.860758781 302.5150206 293.3103943
19 07 2018 17:40
                 206.6741028 4.828849792 295.0400711 308.1164856
19 07 2018 17:50
                 198.8677979 4.666396141 258.0753528 308.2952881
19 07 2018 18:00
                 222.7962036 4.729323864 272.1818382 308.6427917
19 07 2018 18:10
                 116.0681
                            4.110582829 143.8077123 304.8648071
19 07 2018 18:20
                  66.22460175 3.898677111 109.3673115 303.8569946
19 07 2018 18:30
                  17.43592072 3.460362911 47.68633396 301.285614
19 07 2018 18:40
                        3.074928999 18.84687636 316.0061035
19 07 2018 18:50
                        2.365868092 0
                                          290.3057861
19 07 2018 19:00
                        2.659401894 0
                                          301.2661133
                 0
19 07 2018 19:10
                        2.716510057 0
                                          298.0570984
                 0
19 07 2018 19:20
                 0
                        2.77542305 0
                                          287.968811
19 07 2018 19:30
                 0
                       2.975923061 0
                                         281.7791138
19 07 2018 19:40 0
                    3.046046972 17.64312901 276.6402893
3.662820101 72.35668211 280.6398926
                        3.046046972 17.64312901 276.6402893
19 07 2018 19:50 0
```

```
19 07 2018 20:00 45.69984818 3.678910017 74.59862544 287.4320068
19 07 2018 20:10 80.66638947 3.985327959 125.2001896 290.499115
19 07 2018 20:20
                 73.08453369 3.911881924 111.702513 288.5205994
19 07 2018 20:30 148.821106 4.409365177 203.0578438 293.229187
19 07 2018 20:40 113.5131989 4.208992004 162.8123046 293.526001
19 07 2018 20:50 97.08439636 4.096990108 141.2195876 286.5827026
19 07 2018 21:00 90.97715759 4.054687023 133.2201879 288.2908936
19 07 2018 21:10 72.28774261 3.947237015 118.0922214 274.5958862
19 07 2018 21:20
                 137.1911926 4.316680908 184.1725764 268.6335144
19 07 2018 21:30
                 210.7778015 4.780371189 283.8206252 262.526886
19 07 2018 21:40
                 326.9043884 5.280745029 408.0824917 260.866394
19 07 2018 21:50 379.0805054 5.554403782 484.7871281 258.843811
19 07 2018 22:00 322.8005981 5.368113041 431.8481857 256.4725037
19 07 2018 22:10 388.7450867 5.562048912 487.0277559 256.2406006
19 07 2018 22:20 387.7833862 5.644225121 511.4616897 256.4581909
19 07 2018 22:30 510.6000061 6.080187798 651.3735356 255.904007
19 07 2018 22:40 493.4862976 6.0670228 646.8312293 245.910202
19 07 2018 22:50 387.6784058 5.723796844 535.7428009 243.0279999
19 07 2018 23:00 408.3942871 5.796907902 558.6055467 242.3191986
19 07 2018 23:10 457.3756104 5.823066235 566.9167243 240.1477966
19 07 2018 23:20 383.2840881 5.513461113 472.8805773 239.2017975
19 07 2018 23:30 529.7965088 6.052229881 641.7493366 235.372406
19 07 2018 23:40 432.0369873 5.666910172 518.3209305 246.0525055
19 07 2018 23:50 307.9425049 5.108518124 363.1132205 246.8757019
20 07 2018 00:00 351.3425903 5.366638184 431.4414975 249.0045929
20 07 2018 00:10 467.7206116 5.863093853 579.7702923 257.9118958
20 07 2018 00:20 346.0817871 5.375781059 433.9657019 252.0428009
20 07 2018 00:30 286.8146057 5.061491013 351.2508269 251.6459045
20 07 2018 00:40 327.5539856 5.246594906 398.9705523 255.5816956
20 07 2018 00:50 419.15271 5.623175144 505.1413259 251.1172028
20 07 2018 01:00 378.1081848 5.485221863 464.7587349 247.2568054
20 07 2018 01:10 294.2049866 5.154467106 374.8733995 257.4372864
20 07 2018 01:20 380.9419861 5.485124111 464.7307479 261.6427002
20 07 2018 01:30
                 391.9519958 5.526799202 476.7423081 268.332489
20 07 2018 01:40 487.9059143 5.976735115 617.1741264 268.7814026
20 07 2018 01:50 635.6185303 6.397501945 766.4772949 272.8703918
20 07 2018 02:00
                 590.1362305 6.228244781 703.7334577 262.4880066
                 761.0615234 6.703770161 888.0341929 265.1044922
20 07 2018 02:10
20 07 2018 02:20 810.4351807 6.826847076 939.9093524 286.4012146
20 07 2018 02:30 486.0939026 5.884348869 586.6630063 296.9560852
20 07 2018 02:40 265.114502 4.959352016 326.0761689 292.4281006
20 07 2018 02:50 169.3986053 4.540063858 230.5283616 291.765686
20 07 2018 03:00 174.8278961 4.66220808 257.1457858 271.4313049
20 07 2018 03:10 489.3746948 5.981352806 618.7229597 292.2341919
20 07 2018 03:20 594.2830811 6.366263866 754.6637579 301.7662964
20 07 2018 03:30 257.9938965 4.910429955 314.2962534 303.123291
20 07 2018 03:40 256.7672119 4.913193226 314.9569206 300.2142029
20 07 2018 03:50 423.3362122 5.831583023 569.6378118 305.4406128
20 07 2018 04:00 280.1130066 5.050908089 348.6052151 310.362915
20 07 2018 04:10 629.8607178 6.460490227 790.6226239 317.0342102
20 07 2018 04:20
                 679.076416 6.509122849 809.5640316 309.9603882
20 07 2018 04:30
                 703.7440796 6.506987095 808.7266953 306.6507874
20 07 2018 04:40
                 418.7195129 5.684588909 523.701133 312.9367065
20 07 2018 04:50
                 257.574707 4.983874798 332.0480319 312.816803
20 07 2018 05:00 315.0195923 5.349877834 426.8332556 299.5003052
20 07 2018 05:10 619.5101929 6.204315186 695.1118475 309.160614
20 07 2018 05:20 717.7614746 6.503892899 807.5144945 298.6777039
20 07 2018 05:30 493.491394 5.890686989 588.7274793 302.1303101
20 07 2018 05:40 444.2868042 5.814978123 564.3394703 303.1216125
```

```
20 07 2018 05:50 237.5888062 4.795767784 287.3661335 312.4249878
20 07 2018 06:00 63.32532883 3.693181992 76.62192561 318.2991943
20 07 2018 06:10 53.7597084 3.538619041 56.44464707 303.4295044
20 07 2018 06:20 158.0625
                             4.371459007 195.2762789 301.908905
20 07 2018 06:30 104.3556976 3.921343088 113.3928257 298.2659912
20 07 2018 06:40 44.20856857 3.436608076 45.2215874 289.7268066
20 07 2018 06:50 12.3978796 2.894325972 0
                                               283.0461121
20 07 2018 07:00
                 27.48139954 3.283411026 31.4948976 274.2601929
20 07 2018 07:10
                 45.29375076 3.493791103 51.30768761 283.0440063
20 07 2018 07:20
                 4.677992821 2.913738966 0
                                               284,4258118
20 07 2018 07:30 0
                       2.64469099 0
                                         277.3965149
20 07 2018 07:40 0
                       2.827693939 0
                                         273.4208069
20 07 2018 07:50 0
                       3.457206011 47.35357925 263.2677917
20 07 2018 08:00 33.93489075 3.279824972 31.21856031 292.204895
20 07 2018 08:10 123.0302963 4.034908772 129.5084086 291.9508057
20 07 2018 08:20 61.37932968 3.746907949 84.53077318 284.8254089
20 07 2018 08:30 41.85134888 3.373784065 39.13825228 279.8326111
20 07 2018 08:40 15.01467991 3.207063913 26.05608236 282.8327026
20 07 2018 08:50 39.01755142 3.411062002 42.67174164 271.7258911
20 07 2018 09:00 6.335672855 2.891638994 0
                                               272.332489
20 07 2018 09:10 3.429267883 2.469891071 0
                                               283.2561035
20 07 2018 09:20 0
                       2.870049953 0
                                         265.2471924
20 07 2018 09:30 4.509533882 3.553822994 58.25992853 262.990509
20 07 2018 09:40 59.61196899 3.655834913 71.3962719 254.820694
20 07 2018 09:50 31.59981918 3.219822884 26.90010029 270.2134094
20 07 2018 10:00 91.52252197 3.921905994 113.4938448 272.390686
20 07 2018 10:10 84.10066223 3.775108099 88.86686438 269.2211914
20 07 2018 10:20 19.82320023 3.075119019 18.85523795 276.4786987
20 07 2018 10:30 0
                                         275.7791138
                       2.433526993 0
20 07 2018 10:40 0
                       2.669452906 0
                                         263.6321106
20 07 2018 10:50 0
                       3.070112944 18.63688019 269.1552124
20 07 2018 11:00 12.77472973 3.656598091 71.50082318 287.7896118
20 07 2018 11:10 80.86759186 3.792845964 91.65944873 288.5967102
20 07 2018 11:20
                 252.8025055 4.975304127 329.9557397 309.9822083
20 07 2018 11:30
                 160.7057953 4.455804825 212.703212 325.785614
20 07 2018 11:40
                 77.19962311 3.6606071
                                       72.05156638 336.8770142
20 07 2018 11:50
                 1.097666979 3.053762913 17.95164927 352.4681091
20 07 2018 12:00
                       3.315458059 34.05576087 357.0198059
20 07 2018 12:10
                 75.96224213 3.751724005 85.2622865 353.7800903
20 07 2018 12:20 254.7283936 4.875091076 305.8961275 9.663549423
20 07 2018 12:30 315.5280151 4.970872879 328.8761411 3.842845917
20 07 2018 12:40 413.809906 5.528040886 477.1026479 9.237751007
20 07 2018 12:50 455.3016052 5.739720821 540.6768443 13.24328041
20 07 2018 13:00 368.958313 5.328492165 420.9888333 6.508757114
20 07 2018 13:10 472.0754089 5.858921051 578.4226162 1.188971043
20 07 2018 13:20
                 197.550705 4.556097031 233.9688944 9.292084694
20 07 2018 13:30 219.5397034 4.684132099 262.0246915 9.361621857
20 07 2018 13:40 92.27958679 3.867595911 103.9808823 6.204387188
20 07 2018 13:50 232.3816986 4.805881977 289.7041715 8.481842041
20 07 2018 14:00
                 114.7630997 4.085729122 139.0820323 16.45904922
20 07 2018 14:10
                 133.0301056 4.183681965 157.8788088 25.62114906
20 07 2018 14:20
                 208.4667969 4.638946056 252.003379 25.30483055
20 07 2018 14:30
                 498.6133118 5.901611805 592.2958053 13.70611954
20 07 2018 14:40 457.3375854 5.811789036 563.3251133 10.79286003
20 07 2018 14:50 405.5443115 5.647314072 512.3927581 7.315463066
20 07 2018 15:00 508.2522888 6.015353203 629.1827071 10.50008011
20 07 2018 15:10 297.3301086 5.166483879 377.977037 6.087944984
20 07 2018 15:20 265.5643921 5.035103798 344.6704959 4.078423977
20 07 2018 15:30 145.5263062 4.249120235 170.700958 1.064234018
```

```
20 07 2018 15:40 142.0820007 4.184525013 158.0426205 10.13862038
20 07 2018 15:50 256.1541138 4.941627979 321.7879515 8.592317581
20 07 2018 16:00 307.2174072 5.305600166 414.7765885 2.456526995
20 07 2018 16:10 67.96814728 3.656420946 71.47654696 352.6451111
20 07 2018 16:20 70.18319702 3.734298944 82.63316141 357.9164124
20 07 2018 16:30 184.2422943 4.644085884 253.1365967 359.7556152
20 07 2018 16:40 200.7503967 4.768424988 281.08094
                                                     354.8804016
20 07 2018 16:50 332.4602051 5.358394146 429.1717368 352.7709045
20 07 2018 17:00 234.0446014 4.919539928 316.476464 348.15979
20 07 2018 17:10 300.174408 5.305387974 414.7192163 341.8353882
20 07 2018 17:20
                 232.2731934 4.961565971 326.6134662 333.7189941
20 07 2018 17:30 228.5856018 4.886035919 308.4880617 327.637085
20 07 2018 17:40 278.8720093 4.986979008 332.8072056 330.4090881
20 07 2018 17:50 305.4945984 5.202992916 387.478699 332.1052856
20 07 2018 18:00 353.7034912 5.511034012 472.1796377 337.105896
20 07 2018 18:10 394.4715881 5.694471836 526.7221457 339.4071045
20 07 2018 18:20 241.2745972 4.922019958 317.0710422 346.5739136
20 07 2018 18:30 119.4825974 4.191779137 159.4536289 347.543396
20 07 2018 18:40 110.4685974 4.165949821 154.4414805 344.5586853
20 07 2018 18:50 74.44389343 3.97460103 123.1750064 344.5397034
20 07 2018 19:00 54.07448959 3.787034988 90.73904547 345.5535889
20 07 2018 19:10 0.233399704 3.019814014 16.66545608 353.4592896
20 07 2018 19:20 0
                       3.652493
                                   70.93954521 346.817688
20 07 2018 19:30 218.3506012 4.829827785 295.2681022 347.4295044
20 07 2018 19:40 193.6735992 4.642710209 252.8331238 345.7391968
20 07 2018 19:50 152.3404999 4.467059135 215.0595952 346.4130859
20 07 2018 20:00 189.3368073 4.656332016 255.8434826 358.2026062
20 07 2018 20:10 259.7562866 5.013165951 339.2406363 6.679777145
20 07 2018 20:20 382.9764099 5.54352808 481.6091251 12.19194031
20 07 2018 20:30 752.8477783 6.798160076 927.6579247 16.1084404
20 07 2018 20:40 1210.108032 7.917757988 1483.257624 20.15286064
20 07 2018 20:50 919.8165283 7.241476059 1128.505319 24.67217064
20 07 2018 21:00 950.2609253 7.073299885 1049.329843 27.71446991
20 07 2018 21:10 953.1008301 7.143576145 1081.953081 28.31008911
20 07 2018 21:20 808.1956787 6.904829025 973.7153385 22.45657921
                             6.463034153 791.606949 20.49292946
20 07 2018 21:30 681.97052
20 07 2018 21:40
                 1026.546021 7.484230995 1249.804243 15.22474957
20 07 2018 21:50
                 1156.959961 7.693927765 1359.898558 13.81637955
20 07 2018 22:00 1017.703003 7.490832806 1253.225551 17.42259026
20 07 2018 22:10 875.8585815 7.113222122 1067.782248 20.45149994
20 07 2018 22:20 951.7072144 7.123970985 1072.786364 20.04243088
20 07 2018 22:30 723.4376221 6.589416027 841.4132898 21.45482063
20 07 2018 22:40 504.2345886 5.967070103 613.9397556 20.04948044
20 07 2018 22:50 476.3262939 5.971236229 615.332712 26.92271042
20 07 2018 23:00 583.0709839 6.370547771 756.2775456 35.16360092
20 07 2018 23:10 457.5900879 5.903728962 592.9887696 40.86206055
                 392.8124084 5.755291939 545.5259939 43.96770859
20 07 2018 23:20
20 07 2018 23:30 344.8374939 5.485187054 464.7487687 44.79650116
20 07 2018 23:40 311.3052063 5.354839802 428.1949845 38.05332947
20 07 2018 23:50
                 264.2298889 4.984700203 332.2498241 31.7011795
21 07 2018 00:00
                 106.8218994 4.061736107 134.5474006 11.36909962
21 07 2018 00:10
                 7.438971996 2.717240095 0
                                               349.8068848
21 07 2018 00:20 0
                       2.282399893 0
                                         357.9753113
21 07 2018 00:30 0
                       2.117117882 0
                                         348.0855103
21 07 2018 00:40 0
                       2.522563934 0
                                         356.0651855
21 07 2018 00:50 0
                       2.950738907 0
                                         348.550293
21 07 2018 01:00 0
                       3.373294115 39.09329139 1.474308014
21 07 2018 01:10 46.0284996 4.060571194 134.3279117 358.331604
21 07 2018 01:20 106.3811035 4.246899128 170.2621502 4.599960804
```

```
21 07 2018 01:30 53.25680923 3.82130909 96.24578053 15.1468401
21 07 2018 01:40 15.05659008 3.460431099 47.69353892 22.04841042
21 07 2018 01:50 34.99106979 3.803035021 93.28634024 36.50286102
21 07 2018 02:00 69.27374268 3.83168292 97.94957187 30.56324005
21 07 2018 02:10 111.3208008 4.222551823 165.468743 29.38342094
21 07 2018 02:20 90.48135376 4.066661835 135.4761798 32.53723907
21 07 2018 02:30 49.76910019 3.751832962 85.27887901 31.25956917
21 07 2018 02:40 40.7351799 3.701092005 77.75734409 34.29244995
21 07 2018 02:50
                 26.09172058 3.359347105 37.82953471 38.11054993
21 07 2018 03:00
                 7.887613773 3.003401995 16.10978972 44.11840057
21 07 2018 03:10
                 0.543466687 3.474019051 49.14413445 50.52204895
21 07 2018 03:20
                 15.78104019 3.362567902 38.11861151 42.27944946
21 07 2018 03:30
                        3.363209009 38.17635104 56.69018173
21 07 2018 03:40
                       3.327992916 35.10212156 62.29584885
21 07 2018 03:50
                 0
                        2.94273591 0
                                         52.36983109
21 07 2018 04:00
                 0
                       2.469278097 0
                                         39.95774841
21 07 2018 04:10 0
                       2.902687073 0
                                         30.73988914
21 07 2018 04:20 0
                       2.439388037 0
                                         35.53342819
21 07 2018 04:30 0
                       2.182497025 0
                                         31.16402054
21 07 2018 04:40
                 0
                       2.697423935 0
                                         22.22731018
21 07 2018 04:50
                       3.025743961 16.87682689 17.90039063
                 0
21 07 2018 05:00
                       2.634658098 0
                 0
                                       13.31145
21 07 2018 05:10
                       1.838379979 0
                                         16.86603928
21 07 2018 05:20
                 0
                       2.209721088 0
                                         8.744315147
21 07 2018 05:30
                       1.824717999 0
                                         14.70724964
21 07 2018 05:40
                       1.396275043 0
                                         12.93519974
21 07 2018 05:50
                       2.148578882 0
                                         16.35103989
21 07 2018 06:00
                       1.830438972 0
                                         17.54944992
                 0
21 07 2018 06:10
                                         27.10976982
                 0
                       2.031394958 0
21 07 2018 06:20
                 0
                       2.615556955 0
                                         14.13236046
21 07 2018 06:30
                 0
                       2.637140989 0
                                         9.067198753
21 07 2018 06:40 0
                       2.174161911 0
                                         10.04275036
21 07 2018 06:50
                       2.373169899 0
                                         38.57801819
21 07 2018 07:00 0
                       3.097795963 19.89459486 36.34645081
21 07 2018 07:10
                       3.085977077 19.34263111 23.11511993
                 0
21 07 2018 07:20
                       3.590039015 62.73293159 12.32015991
21 07 2018 07:30
                       2.704813957 0
                                         4.04722023
21 07 2018 07:40
                       2.217097998 0
                                         15.71164989
21 07 2018 07:50
                       2.914895058 0
                                         24.01606941
21 07 2018 08:00
                       2.585769892 0
                                         15.8217001
21 07 2018 08:10
                       1.735180974 0
                                         359.5239868
21 07 2018 08:20
                       1.962484956 0
                 0
                                         19.70848083
21 07 2018 08:30
                 0
                       2.39457202 0
                                         28.97426987
21 07 2018 08:40
                 0
                       2.902537107 0
                                         37.99560165
21 07 2018 08:50
                 0
                                         29.52799988
                       1.971415997 0
21 07 2018 09:00
                       2.501854897 0
                                         27.70793915
21 07 2018 09:10
                       3.016084909 16.53541505 31.39241982
                 0
21 07 2018 09:20
                 0
                       2.761054039 0
                                         25.97229958
21 07 2018 09:30
                 0
                       2.922699928 0
                                         0.590022027
21 07 2018 09:40
                       2.738059998 0
                                         345.7273865
21 07 2018 09:50
                  0
                       2.377023935 0
                                         6.774106979
21 07 2018 10:00
                        3.470016003 48.71371551 18.23048973
21 07 2018 10:10
                 13.71057987 2.820497036 0
                                               12.67053032
21 07 2018 10:20
                 32.13208008 3.21509099 26.5840424 18.53141975
21 07 2018 10:30
                 0
                       2.577583075 0
                                         27.35491943
21 07 2018 10:40
                 0
                       2.883961916 0
                                         33.39947891
21 07 2018 10:50
                 0
                      2.601878881 0
                                         15.88895988
21 07 2018 11:00 0
                    2.302700996 0
                                         20.13018036
21 07 2018 11:10 0
                    2.616125107 0
                                         27.45587921
```

```
3.029005051 16.99546506 27.04153061
21 07 2018 11:20 0
21 07 2018 11:30
                        2.536812067 0
                 0
                                       19.46434975
21 07 2018 11:40
                 0
                        2.65722394 0
                                          24.10652924
21 07 2018 11:50 0
                       2.936621904 0
                                          24.4012394
21 07 2018 12:00 0
                       2.728926897 0
                                          18.69759941
21 07 2018 12:10 0
                       2.994087934 0
                                          15.50625992
21 07 2018 12:20 0
                       2.56852603 0
                                          16.70406914
21 07 2018 12:30
                       3.01799798 16.60184955 23.11396027
                 0
21 07 2018 12:40
                 0
                        2.870896101 0
                                       5.477592945
21 07 2018 12:50
                 0
                        3.125062943 21.25327333 17.71441078
21 07 2018 13:00
                 0
                        3.21991396 26.90621867 5.021231174
21 07 2018 13:10 33.44197845 3.822493076 96.43936729 3.345062971
21 07 2018 13:20 195.0522003 4.642962933 252.8888653 10.75063038
21 07 2018 13:30 204.7998962 4.66799593 258.4307385 14.19410992
21 07 2018 13:40 313.8913879 5.260912895 402.7788952 13.23657036
21 07 2018 13:50 239.7472992 4.845502853 298.9321665 11.8487196
21 07 2018 14:00 280.4090881 5.006229877 337.5315502 10.18463993
21 07 2018 14:10 197.6358032 4.643917084 253.0993529 18.22308922
21 07 2018 14:20 219.8565063 4.710065842 267.8368268 18.23856926
21 07 2018 14:30 279.4363098 5.008528233 338.0974707 19.59885025
21 07 2018 14:40 200.357193 4.640672207 252.3837667 22.81705093
21 07 2018 14:50
                 179.9479065 4.512876987 224.730309 16.44947052
21 07 2018 15:00
                 225.3265991 4.672513962 259.4353024 21.93825912
21 07 2018 15:10
                 223.4196014 4.687661171 262.8129912 29.03030014
21 07 2018 15:20 356.7019958 5.443520069 452.8982246 23.28053093
21 07 2018 15:30 396.5058899 5.543220997 481.5195525 23.57117081
21 07 2018 15:40 260.8215942 4.953849792 324.7424376 28.11451912
21 07 2018 15:50 158.5700073 4.337347031 188.342303 34.44631958
21 07 2018 16:00 183.9443054 4.456511021 212.8508538 43.12865067
21 07 2018 16:10 310.4468079 5.312448025 416.630175 54.20772934
21 07 2018 16:20 374.765686 5.672529221 520.0276793 53.5256691
21 07 2018 16:30 379.4341125 5.74549818 542.4732002 49.82926178
21 07 2018 16:40 495.0533142 6.106071949 660.3583124 51.59059143
21 07 2018 16:50 422.0700073 5.832833767 570.0380469 42.19244003
21 07 2018 17:00 333.9216003 5.357624054 428.9600178 43.11830902
21 07 2018 17:10 274.1773987 5.152177811 374.283458 40.17147064
21 07 2018 17:20 373.9541016 5.698136806 527.8448906 35.72608185
21 07 2018 17:30 379.3812866 5.58732605 494.4751422 32.87770844
21 07 2018 17:40 319.8369141 5.481648922 463.7363443 32.95833969
21 07 2018 17:50 254.4483032 5.124018192 367.0613978 39.54650879
21 07 2018 18:00 284.2155151 5.277901173 407.3199279 42.34244919
21 07 2018 18:10 214.0030975 4.863094807 303.0651033 43.54109955
21 07 2018 18:20 193.2740021 4.6117239 246.0297833 32.28282928
                 167.8435974 4.541742802 230.8879027 27.02882004
21 07 2018 18:30
21 07 2018 18:40
                 163.582901 4.552188873 233.1287901 25.85497093
21 07 2018 18:50 120.6415024 4.322276115 185.2992063 28.83922958
21 07 2018 19:00 122.1989975 4.47941494 217.6552045 22.36897087
21 07 2018 19:10 129.9640961 4.326344967 186.1195625 23.18301964
21 07 2018 19:20 172.6192017 4.692217827 263.8320418 18.51676941
21 07 2018 19:30
                 172.2100983 4.551177025 232.911435 22.05891037
21 07 2018 19:40 199.8513947 4.77082777 281.6311945 21.96821976 21 07 2018 19:50 284.1528015 5.35757494 428.9465167 18.72950935
21 07 2018 20:00 273.495697 5.279788017 407.8257977 18.50707054
21 07 2018 20:10 239.5908966 4.993255138 334.3443386 19.6479702
21 07 2018 20:20 307.5505981 5.598324776 497.7345706 7.741828918
21 07 2018 20:30 194.7357025 4.797648907 287.8004425 9.327477455
21 07 2018 20:40 206.6448975 4.958559036 325.8838123 10.69478035
21 07 2018 20:50 250.5605927 4.980187893 331.1472976 7.021720886
21 07 2018 21:00 183.6389008 4.687191963 262.7081355 7.281311989
```

```
21 07 2018 21:10 132.0157928 4.361648083 193.2753961 11.97399044
21 07 2018 21:20
                  161.4584961 4.628201962 249.6400393 7.675572872
21 07 2018 21:30
                  113.6188965 4.158792019 153.0583622 4.202094078
21 07 2018 21:40
                  116.7649994 4.222517967 165.4620989 2.414947987
21 07 2018 21:50
                  84.2322998 4.015963078 125.9694285 4.33669281
21 07 2018 22:00
                  54.00983047 3.890234947 107.8889792 358.8304138
21 07 2018 22:10
                  114.9128036 4.230532169 167.0365229 356.8895874
21 07 2018 22:20
                  109.957901 4.20351696 161.7423609 2.713378906
21 07 2018 22:30
                  139.2008057 4.510439873 224.212744 359.5925903
21 07 2018 22:40
                  94.97088623 4.202023983 161.4508634 1.221091986
21 07 2018 22:50
                  119.1882019 4.302426815 181.3100709 359.8049927
                  74.34960938 4.080150127 138.0252287 359.8864136
21 07 2018 23:00
21 07 2018 23:10
                  26.57420921 3.68296504 75.17018098 0.190400407
21 07 2018 23:20
                  0.872134089 2.9325459
                                           0
                                                 354.4005127
21 07 2018 23:30
                  0
                         3.495774984 51.52822631 337.5087891
21 07 2018 23:40
                  11.77029991 3.40613699 42.19216401 340.6583862
21 07 2018 23:50
                  0
                        2.676934004 0
                                           346.4014893
22 07 2018 00:00
                  0
                         2.542295933 0
                                           343.7796021
                  0
22 07 2018 00:10
                         2.637804985 0
                                           345.726593
22 07 2018 00:20
                  0
                         3.033890009 17.1763629 323.892395
22 07 2018 00:30
                         2.796647072 0
                                           325.3977966
                  0
22 07 2018 00:40
                         2.657916069 0
                                           332.5806885
                  0
22 07 2018 00:50
                         2.309174061 0
                                           347.5826111
22 07 2018 01:00
                  0
                        2.560300112 0
                                           345.9742126
22 07 2018 01:10
                        2.895792007 0
                                           353.4118958
22 07 2018 01:20
                         3.261094093 29.80862103 357.5664978
22 07 2018 01:30
                         2.798823118 0
                                           2.747550011
22 07 2018 01:40
                         2.584043026 0
                                           3.317698956
                  0
22 07 2018 01:50
                  0
                         2.985038996 0
                                           356.7226868
22 07 2018 02:00
                  0
                         2.853480101 0
                                           352.5873108
22 07 2018 02:10
                  0
                        2.489732027 0
                                           345.153595
22 07 2018 02:20
                  0
                        2.665942907 0
                                           353.5177917
22 07 2018 02:30
                        2.440526009 0
                                           355.2278137
22 07 2018 02:40
                        2.051853895 0
                                           353.1646118
                  0
22 07 2018 02:50
                                           352.881012
                  0
                        1.743093967 0
22 07 2018 03:00
                  0
                         1.854889989 0
                                           1.236356974
22 07 2018 03:10
                  0
                         2.167702913 0
                                           2.558238983
                         2.450736046 0
22 07 2018 03:20
                                           16.68077087
22 07 2018 03:30
                        1.774652958 0
                                           14.43587971
22 07 2018 03:40
                        1.590060949 0
                                           338,4536133
22 07 2018 03:50
                         2.100322962 0
                                           359.6077881
                  0
22 07 2018 04:00
                  0
                        1.799080014 0
                                           18.20198059
22 07 2018 04:10
                         1.385982037 0
                                           7.417935848
                  0
                                           11.99825001
22 07 2018 04:20
                  0
                        1.627416015 0
22 07 2018 04:30
                  0
                                           14.58189011
                        1.30173099 0
22 07 2018 04:40
                        1.317433
                                           352.2388
22 07 2018 04:50
                  0
                        1.049960017 0
                                           342.7821045
22 07 2018 05:00
                                           346.2038879
                  0
                        0.924640894 0
22 07 2018 05:10
                  0
                        1.125831962 0
                                           322.3363037
22 07 2018 05:20
                  0
                        1.191336036 0
                                           293,401886
22 07 2018 05:30
                  0
                        0.94872272 0
                                           291.6252136
22 07 2018 05:40
                                           281.0625
                        1.372061014 0
22 07 2018 05:50
                         1.061874986 0
                                           244.2796936
22 07 2018 06:00
                        0.883031011 0
                                           254.7234039
                  0
22 07 2018 06:10
                         1.657114029 0
                                           246.5001984
                  0
22 07 2018 06:20
                  0
                         1.53846395 0
                                           230.5718994
22 07 2018 06:30
                  0
                        1.856719971 0
                                           219.7232056
22 07 2018 06:40
                  0
                        1.474087
                                     0
                                           254.7653961
22 07 2018 06:50
                        1.007295012 0
                                           286.2219849
```

```
22 07 2018 07:00 0
                        1.426264048 0
                                          280.0646973
22 07 2018 07:10
                  0
                        0.868354619 0
                                          232.7436066
22 07 2018 07:20
                        1.335755944 0
                                          193.1421967
                  0
22 07 2018 07:30 0
                        1,478327036 0
                                          236,8480988
22 07 2018 07:40
                  0
                        0.78674072 0
                                          310.0224915
22 07 2018 07:50
                  0
                        1.760653019 0
                                          3.670996904
22 07 2018 08:00
                  0
                        3.184736967 24.64180271 4.010694027
22 07 2018 08:10
                  17.54957008 3.231014967 27.66191214 12.89799023
22 07 2018 08:20
                  0
                        2.710108042 0
                                          345.3594971
22 07 2018 08:30
                  11.42212963 3.586025
                                          62,226824
                                                      296,8081055
22 07 2018 08:40
                  -0.109866403
                                    2.593415976 0
                                                      285.8745117
22 07 2018 08:50
                  0
                        2.362807989 0
                                          278.4541931
22 07 2018 09:00
                        2.60115099 0
                                          273.5119934
22 07 2018 09:10
                  0
                        2.871107101 0
                                          270.756012
22 07 2018 09:20
                        2.583934069 0
                                          257.2367859
                  0
22 07 2018 09:30
                  0
                        2.475697041 0
                                          264.3546143
22 07 2018 09:40
                  0
                        3.052870035 17.91546038 256.64151
22 07 2018 09:50
                  0
                        2.942956924 0
                                          263.6404114
22 07 2018 10:00 12.84440041 3.720519066 80.58842805 270.3352966
22 07 2018 10:10
                  93.19769287 4.029034138 128.4093283 262.7101135
22 07 2018 10:20
                  59.85625076 3.54955101 57.74613734 261.8608093
22 07 2018 10:30
                  83.67725372 3.919261932 113.0197819 269.6661987
22 07 2018 10:40
                  58.23048019 3.58336091 61.89234528 276.7037048
22 07 2018 10:50
                  211.1696014 4.763624191 279.9827084 285.5494995
22 07 2018 11:00
                  255.4396057 5.121780872 366.4903241 265.4877014
22 07 2018 11:10 320.1012878 5.328285217 420.9324711 267.8063049
22 07 2018 11:20 321.6964111 5.179430008 381.3338475 275.4161987
22 07 2018 11:30 162.7799988 4.134729862 148.4271456 277.2536926
22 07 2018 11:40 182.4029999 4.207828045 162.5847144 272.1299133
22 07 2018 11:50
                  163.9322052 4.279792786 176.7870788 268.96521
22 07 2018 12:00
                  111.4409027 3.993832111 126.8188088 288.172699
                  77.81388092 3.673326015 73.81586634 297.1329956
22 07 2018 12:10
22 07 2018 12:20
                  19.44227028 3.236643076 28.05257406 288.0104065
22 07 2018 12:30
                  1.597332954 2.748559952 0
                                                313.3460083
22 07 2018 12:40
                  0
                        2.239842892 0
                                          293.949585
22 07 2018 12:50
                  0
                        2.477399111 0
                                          305.0154114
22 07 2018 13:00
                        3.054482937 17.98092521 312.8634033
                  0
22 07 2018 13:10
                  0
                        2.78805089 0
                                          312.8244934
22 07 2018 13:20
                        2.508030891 0
                                          315.1947937
22 07 2018 13:30
                        2,442260027 0
                                          328,230896
22 07 2018 13:40
                        2.105860949 0
                                          343.2210999
                  0
22 07 2018 13:50
                  0
                        2.396601915 0
                                          346.6488953
22 07 2018 14:00
                                          7.282938004
                  0
                        1.938421011 0
22 07 2018 14:10
                  0
                        1.958806992 0
                                          36.89459991
22 07 2018 14:20
                  0
                        1.12103498 0
                                          341.8497009
22 07 2018 14:30
                  0
                        1.515110016 0
                                          353.4023132
22 07 2018 14:40
                  0
                        1.15357101 0
                                          341.0844116
22 07 2018 14:50
                  0
                        1.101943016 0
                                          325.4775085
22 07 2018 15:00
                  0
                        1.791628957 0
                                          333.5080872
22 07 2018 15:10
                  0
                        1.069774985 0
                                          4.338703156
22 07 2018 15:20
                  0
                        0.989385724 0
                                          69.37494659
22 07 2018 15:30
                        1.353350043 0
                                          75.4171524
22 07 2018 15:40
                        1.548411012 0
                                          85.97045135
22 07 2018 15:50
                        1.146710992 0
                                          99.05245972
22 07 2018 16:00
                        1.376821995 0
                                          87.17301178
                  0
22 07 2018 16:10
                  0
                        1.19216001 0
                                          76.0847168
22 07 2018 16:20
                  0
                        1.351595998 0
                                          73.39187622
                        2.582547903 0
                                          71.87859344
22 07 2018 16:30
                  0
                        3.225527048 27.28586149 61.00675964
22 07 2018 16:40 0
```

```
22 07 2018 16:50
                  0
                         2.61384511 0
                                           77.55441284
22 07 2018 17:00
                         3,272819042 30,68462773 79,06012726
                  0
22 07 2018 17:10
                         3.056894064 18.07956481 84.39330292
                  0
22 07 2018 17:20
                  0
                         2.735434055 0
                                           87,99604797
22 07 2018 17:30
                  0
                         2.704606056 0
                                           93.19528198
22 07 2018 17:40
                         2.439651012 0
                                           93.17958069
22 07 2018 17:50
                  0
                         2.396241903 0
                                           93.27477264
22 07 2018 18:00
                                           99.97715759
                  0
                         2.579381943 0
22 07 2018 18:10
                  0
                         2.510658026 0
                                           100.9560013
22 07 2018 18:20
                  0
                         1.946318984 0
                                           96.39875031
22 07 2018 18:30
                  0
                         1.397869945 0
                                           113.1135025
22 07 2018 18:40
                         0.60393697 0
                                           106.9916992
22 07 2018 18:50
                         0.906740129 0
                                            22.46025085
22 07 2018 19:00
                  0
                         0.903438628 0
                                           35.65156937
22 07 2018 19:10
                         0.930915117 0
                                           55.48134995
                  0
22 07 2018 19:20
                  0
                         1.500509024 0
                                            79.16912079
22 07 2018 19:30
                  0
                         1.330322027 0
                                           56.71139908
22 07 2018 19:40
                  0
                         1.492908001 0
                                           60.27558899
22 07 2018 19:50
                  0
                         1.492627978 0
                                           42.63552856
22 07 2018 20:00
                  0
                         1.457507014 0
                                            53.89273071
22 07 2018 20:10
                         1.195592999 0
                                           40.1588707
                  0
22 07 2018 20:20
                                            220.321106
                  0
                         0.546676815 0
22 07 2018 20:30
                  0
                         1.06566298 0
                                            259.3895874
                                           2.938178062
22 07 2018 20:40
                  Θ
                         1.284173012 0
22 07 2018 20:50
                         2.173057079 0
                                           1.580368042
22 07 2018 21:00
                         2.261322021 0
                                           0.120145097
22 07 2018 21:10
                         2.325242996 0
                                           350.5499878
22 07 2018 21:20
                         2.205811024 0
                                           1.381554008
                  0
22 07 2018 21:30
                  0
                         2.071979046 0
                                           9.790728569
22 07 2018 21:40
                  0
                         2.016103029 0
                                           26.73023987
22 07 2018 21:50
                  0
                         1.598521948 0
                                           29.91316986
22 07 2018 22:00
                  0
                         1.980661035 0
                                           2.320307016
22 07 2018 22:10
                  0
                         2.918631077 0
                                            347.862915
                                           304.755188
22 07 2018 22:20
                         1.466007948 0
                  0
22 07 2018 22:30
                                           281.8421021
                  0
                         1.842522025 0
22 07 2018 22:40
                  0
                         1.983839035 0
                                            245.1138
22 07 2018 22:50
                  0
                         2.486562014 0
                                            218.7700043
22 07 2018 23:00
                  0
                         3.042592049 17.50807217 208.6641998
                         3.162038088 23.28572616 195.8529053
22 07 2018 23:10
22 07 2018 23:20
                         3.063478947 18.35369243 192.1515961
22 07 2018 23:30
                         2.184331894 0
                                           197.5260925
                  0
22 07 2018 23:40
                         0.878078997 0
                  0
                                           173.8524017
22 07 2018 23:50
                                            250.0480042
                  0
                         1.182680964 0
23 07 2018 00:00
                  0
                         1.419352055 0
                                            258.7455139
23 07 2018 00:10
                  0
                         1.052042007 0
                                            277.8772888
23 07 2018 00:20
                  0
                         0.683934629 0
                                            257.0062866
23 07 2018 00:30
                  0
                         1.196238041 0
                                           18.62895966
23 07 2018 00:40
                  0
                         1.169497967 0
                                           44.57640839
23 07 2018 00:50
                  0
                         1.541615963 0
                                            7.893464088
23 07 2018 01:00
                  0
                         1.919090033 0
                                            355.0031128
23 07 2018 01:10
                  0
                         1.770061016 0
                                            348.1362915
23 07 2018 01:20
                         1.683498025 0
                                           1.529503942
23 07 2018 01:30
                         0.764879882 0
                                            32.47806931
23 07 2018 01:40
                         0.382591397 0
                                           103.2037964
                  0
23 07 2018 01:50
                  0
                         0.956155121 0
                                           89.69539642
23 07 2018 02:00
                  0
                         1.386737943 0
                                            132.8636017
23 07 2018 02:10
                  0
                                           155.6528015
                         1.708819985 0
23 07 2018 02:20
                         3.047410011 17.69693709 184.2489014
                  0
23 07 2018 02:30
                         3.159806967 23.15688427 197.0565948
```

```
23 07 2018 02:40 0
                        2.680392027 0
                                          213.5019989
23 07 2018 02:50
                        3.548149109 57.57816713 206.3363037
                 0
23 07 2018 03:00
                  32.41949844 3.796530962 92.24591666 199.5095062
23 07 2018 03:10 5.083727837 3.26154089 29.84159943 204.2324982
23 07 2018 03:20
                 0
                        2.992360115 0
                                          198.9794006
23 07 2018 03:30
                  0
                        3.211707115 26.36021989 197.4286041
                        3.120788097 21.03240027 199.1215057
23 07 2018 03:40
                 0
23 07 2018 03:50
                                          184.2563934
                 0
                        2.711108923 0
                        3.442822933 45.85770588 185.8661041
23 07 2018 04:00
                 0
23 07 2018 04:10 49.18553162 4.026048183 127.8512835 185.3556976
23 07 2018 04:20
                  164.0061951 4.437890053 208.9675765 178.4902039
23 07 2018 04:30
                  182.8049011 4.431382179 207.6151575 183.3486938
23 07 2018 04:40
                  276.2102051 4.951406002 324.1507902 186.5314941
23 07 2018 04:50
                 270.5143127 5.089208126 358.2212751 185.1398926
23 07 2018 05:00
                 374.0328979 5.442636013 452.6484941 185.1369019
23 07 2018 05:10
                 214.5359955 4.706399918 267.0125285 188.8233032
23 07 2018 05:20
                  169.6670074 4.539548874 230.4181138 198.8343048
23 07 2018 05:30
                  80.02667999 4.011258125 125.0930471 199.9165955
                  55.26757813 3.784290075 90.30615619 188.6118927
23 07 2018 05:40
23 07 2018 05:50
                  13.80568027 2.925678015 0
                                                183.4100037
23 07 2018 06:00
                  0
                        2.264611959 0
                                          183.3641968
23 07 2018 06:10
                        1.402045012 0
                  0
                                          177.334198
23 07 2018 06:20
                  0
                        1.462697029 0
                                          175.5682068
23 07 2018 06:30
                  0
                        0.96418649 0
                                          169.3574982
23 07 2018 06:40
                        0.648112178 0
                                          207.3251953
23 07 2018 06:50
                        0.376865596 0
                                          116.3579025
23 07 2018 07:00
                        1.614189029 0
                                          208.6932983
23 07 2018 07:10
                                          188.4421997
                        2.363353968 0
                  0
23 07 2018 07:20
                  0
                        1.710474968 0
                                          182.6893005
23 07 2018 07:30
                  0
                        2.353782892 0
                                          159.8721008
23 07 2018 07:40
                  0
                        2.550038099 0
                                          150.7209015
23 07 2018 07:50
                  0
                        3.180315971 24.37121905 158.2026978
23 07 2018 08:00
                        2.676352024 0
                                          196,2940063
                                          185.0979004
23 07 2018 08:10
                        2.667915106 0
                  0
23 07 2018 08:20
                        1.932803988 0
                                          201.3253937
                  0
23 07 2018 08:30
                  0
                        2.039303064 0
                                          260.291687
23 07 2018 08:40
                  0
                        2.434022903 0
                                          13.86898994
23 07 2018 08:50
                        3.239855051 28.27779727 13.34156036
23 07 2018 09:00
                        2.063565969 0
                                          9.596403122
23 07 2018 09:10
                        2.305167913 0
                                          7.396284103
23 07 2018 09:20
                        2.740830898 0
                                          23.94441986
23 07 2018 09:30
                        3.373023033 39.06843172 33.18122101
                  0
23 07 2018 09:40
                        3.126054049 21.30489941 37.21749878
                  0
23 07 2018 09:50
                  0
                        2.196650982 0
                                          16.96925926
23 07 2018 10:00
                        1.876834989 0
                  0
                                          14.73383045
                        3.387319088 40.39549689 24.66412926
23 07 2018 10:10
23 07 2018 10:20
                  0
                        3.441206932 45.69170638 12.71438026
23 07 2018 10:30
                        3.139760017 22.03494955 353.7349854
                  0
23 07 2018 10:40
                  0
                        2.447554111 0
                                          14.35653019
23 07 2018 10:50
                  0
                        2.206116915 0
                                          352.4255066
23 07 2018 11:00
                  0
                        2.182820082 0
                                          10.77493954
23 07 2018 11:10
                        1.635058045 0
                                          0.785961986
23 07 2018 11:20
                        2.190548897 0
                                          329.9155884
23 07 2018 11:30
                        2.363473892 0
                                          313.0179138
23 07 2018 11:40
                        2.964709044 0
                                          327.5462036
                  0
23 07 2018 11:50
                  0
                        2.762105942 0
                                          337.9573975
23 07 2018 12:00
                  0
                        2.509874105 0
                                          355.549408
                        1.925642967 0
23 07 2018 12:10
                 0
                                          351.2072144
23 07 2018 12:20 0
                        0.704953372 0
                                          355.3171997
```

```
23 07 2018 12:30
                        0.653906286 0
                                           31.97509003
                  0
23 07 2018 12:40
                  0
                        1.004768014 0
                                           351.9737854
23 07 2018 12:50
                        1.800325036 0
                                           351.1217957
                  0
23 07 2018 13:00
                  0
                        1.690487981 0
                                           359.7102966
23 07 2018 13:10
                  0
                        1.72835505 0
                                           24.74037933
23 07 2018 13:20
                        2.403275967 0
                                           48.68066025
23 07 2018 13:30
                  0
                        2.851264
                                    0
                                           62.3844986
23 07 2018 13:40
                  0
                        2.487637997 0
                                           89.13391876
23 07 2018 13:50
                  0
                        2.07961297 0
                                           105.2932968
23 07 2018 14:00
                  0
                        2.697738886 0
                                           62.15293121
23 07 2018 14:10
                  0
                        2.736556053 0
                                           70.82657623
23 07 2018 14:20
                        0.867156982 0
                                           53.87662125
23 07 2018 14:30
                        0.980518222 0
                                           32.6683197
23 07 2018 14:40
                        1.691997051 0
                                           44.80046082
23 07 2018 14:50
                        1.52919805 0
                                           42.8782692
                  0
23 07 2018 15:00
                  0
                        1.146042943 0
                                           61.6669693
23 07 2018 15:10
                  0
                        0.760386825 0
                                           157.895401
23 07 2018 15:20
                  0
                        2.072177887 0
                                           206.009903
23 07 2018 15:30
                  0
                        2.709223986 0
                                           201.4089966
23 07 2018 15:40
                  0
                        2.628900051 0
                                           206.4243927
23 07 2018 15:50
                        2.960643053 0
                                           210.2501984
                  0
23 07 2018 16:00
                        2.857023001 0
                  0
                                           232.5695953
23 07 2018 16:10
                  0
                        2.851176023 0
                                           221.5458984
23 07 2018 16:20
                  0
                        3.061135054 18.2553213 217.4761047
23 07 2018 16:30
                        3.579041004 61.3523909 232.341095
23 07 2018 16:40
                        2.780755043 0
                                           249.2610931
23 07 2018 16:50
                        2.954061031 0
                                           253.7098999
23 07 2018 17:00
                  44.15576935 4.135942936 148.6599513 277.3927002
23 07 2018 17:10
                  17.70912933 3.376802921 39.4161288 256.8103943
                        2.976856947 0
23 07 2018 17:20
                                           272.5031128
23 07 2018 17:30
                        3.261718035 29.85468349 292.7535095
                  0
23 07 2018 17:40
                  0
                        1.951570034 0
                                           321.1830139
23 07 2018 17:50
                        2.166157007 0
                                           16.24320984
                  0
23 07 2018 18:00
                        2.821553946 0
                                           49.80374908
                  0
23 07 2018 18:10
                        2.91544795 0
                                           59.53863907
                  0
23 07 2018 18:20
                  0
                        3.2549119
                                    29.35558691 31.03183937
23 07 2018 18:30
                  0
                        2.979727983 0
                                           44.45428848
23 07 2018 18:40
                  0
                        2.712167978 0
                                           45.83826065
23 07 2018 18:50
                        2.797261953 0
                                           29.59914017
23 07 2018 19:00
                        3.064608097 18.4013956 17.56377029
23 07 2018 19:10
                  0
                        2.62411499 0
                                           16.16293907
23 07 2018 19:20
                        3.535854101 56.11850066 28.09469986
                  0
23 07 2018 19:30
                  13.74693012 3.181514978 24.4442943 27.62998962
23 07 2018 19:40
                  0
                        2.532469988 0
                                           26.71721077
23 07 2018 19:50
                  0
                        2.314033985 0
                                           28.44079018
23 07 2018 20:00
                  0
                        2.329758883 0
                                           20.06572914
23 07 2018 20:10
                  0
                        2.683288097 0
                                           25.24901962
23 07 2018 20:20
                        3.190329075 24.98854293 60.69781113
                  0
23 07 2018 20:30
                  20.64092064 3.866648912 103.8191922 55.07231903
23 07 2018 20:40
                  69.80726624 3.962212086 120.8589546 53.03638077
23 07 2018 20:50
                  22.49846077 3.634058952 68.45234688 40.43703842
23 07 2018 21:00
                  12.90067005 3.152412891 22.73558768 22.07991982
23 07 2018 21:10
                        2.05816102 0
                                           26.42514992
23 07 2018 21:20
                        2.254611015 0
                                           27.14973068
                  0
23 07 2018 21:30
                        0.984161079 0
                                           49.18943024
                  0
23 07 2018 21:40
                  0
                        2.614756107 0
                                           67.11347961
23 07 2018 21:50
                  0
                        1.816177964 0
                                           84.06585693
23 07 2018 22:00
                  0
                        2.036497116 0
                                           145.4839935
23 07 2018 22:10 0
                        1.887410998 0
                                           144.9606018
```

```
23 07 2018 22:20 0
                       0.588037729 0
                                         147.7243958
23 07 2018 22:30 56.96149063 6.638763905 861.3483865 304.7956848
23 07 2018 22:40
                 708.3413696 6.387031078 762.505598 324.8884888
23 07 2018 22:50 535.4768066 5.640058994 510.2074002 343.8432922
23 07 2018 23:00
                 267.5397034 4.91684103 315.829926 9.15872097
23 07 2018 23:10
                 40.24090958 3.695517063 76.95606483 60.77888107
23 07 2018 23:20
                 15.72735023 3.070729971 18.66357737 57.0018692
23 07 2018 23:30
                                         76.67182159
                 0
                       2.372483969 0
23 07 2018 23:40
                 0
                       2.525238991 0
                                         188.2460938
23 07 2018 23:50
                       2.367355108 0
                 0
                                         218.2348938
24 07 2018 00:00 0
                       2.271796942 0
                                         330.7961121
                       3.550601959 57.8722641 11.17753983
24 07 2018 00:10 0
24 07 2018 00:20 0
                       2.09551096 0
                                         358.0216064
24 07 2018 00:30 0
                       1.64715004 0
                                         338.3577881
24 07 2018 00:40 0
                       2.236251116 0
                                         283.8806152
24 07 2018 00:50 0
                       3.448786974 46.47396301 295.7901917
24 07 2018 01:00 86.17347717 3.903955936 110.2974968 288.5996094
24 07 2018 01:10 121.5849991 4.249582767 170.7923693 268.7807007
24 07 2018 01:20 396.1099854 5.439941883 451.8878835 262.0350952
24 07 2018 01:30
                 1639.22998 8.575172424 1874.548393 290.9202881
24 07 2018 01:40
                 733.1323853 6.38329792 761.0924686 299.96521
24 07 2018 01:50 401.7843018 5.536057949 479.4326706 321.1929016
24 07 2018 02:00 413.1582947 5.622158051 504.8370174 354.8522034
24 07 2018 02:10 469.5237122 5.653204918 514.1709298 359.5498962
24 07 2018 02:20 322.3973999 5.012360096 339.0418808 24.81240082
24 07 2018 02:30 100.3407974 4.111394882 143.9626088 25.25470924
24 07 2018 02:40 57.96099091 3.849474907 100.9118064 16.69005013
24 07 2018 02:50 132.0511932 4.442868233 210.0037638 345.7431946
24 07 2018 03:00 361.3837891 5.619606972 504.0741859 343.5799866
24 07 2018 03:10 147.6526031 4.313236237 183.4798135 21.21927071
24 07 2018 03:20 87.15966797 4.027647972 128.1502181 53.07830811
24 07 2018 03:30 65.13144684 3.374309063 39.18647198 52.69232941
24 07 2018 03:40 492.1773987 5.903047085 592.7655338 41.37828827
24 07 2018 03:50 388.1366882 5.407519817 442.7855399 48.35871887
24 07 2018 04:00 386.0418091 5.499297142 468.7977331 44.15333176
                 316.788208 5.401420116 441.0835715 31.05946922
24 07 2018 04:10
24 07 2018 04:20 43.08187103 3.66446805 72.58440076 22.06265068
24 07 2018 04:30 0
                       2.95274806 0
                                         349.4854126
24 07 2018 04:40 0
                       2.854494095 0
                                         323,4075928
24 07 2018 04:50 0
                       3.635516882 68.6470768 308.6918945
24 07 2018 05:00 143.5962067 4.235405922 167.9956049 287.6158142
24 07 2018 05:10 574.9934082 6.190412998 690.1312116 288.9677124
24 07 2018 05:20 126.3439026 4.111929893 144.0646775 288.2550964
24 07 2018 05:30 210.3865051 4.32337904 185.5214874 284.7831116
24 07 2018 05:40 318.3615112 4.907017231 313.4810801 270.6307068
24 07 2018 05:50 2226.105957 9.106967926 2213.164837 239.8766937
24 07 2018 06:00 3035.781982 11.8222599 3491.565078 228.177597
24 07 2018 06:10 2258.483887 9.609594345 2524.461871 226.8724976
24 07 2018 06:20 1134.499023 7.473494053 1244.254274 213.0254059
24 07 2018 06:30 1128.995972 7.388304234 1200.8387
                                                     222.153595
24 07 2018 06:40
                 1053.147949 7.215034008 1115.802682 226.1560059
24 07 2018 06:50 2355.934082 9.726126671 2609.713708 223.5771942
24 07 2018 07:00 2737.230957 10.49446011 3063.14247 245.1741943
24 07 2018 07:10 3105.466064 11.82411957 3491.911865 247.4263
24 07 2018 07:20 3443.574951 12.60441017 3586.108789 247.1067047
24 07 2018 07:30 3453.532959 12.40795994 3571.600129 244.5646057
24 07 2018 07:40 3207.52002 11.88823032 3503.490061 241.7534943
24 07 2018 07:50 2397.325928 10.46094036 3046.959422 241.622406
24 07 2018 08:00 1972.962036 9.173112869 2256.134215 249.4799957
```

```
24 07 2018 08:10 1691.936035 8.477993965 1814.440889 219.6661072
24 07 2018 08:20
                  2265.947021 9.464152336 2446.454592 215.3014984
24 07 2018 08:30
                  2025.109009 9.074799538 2192.318747 217.5252075
24 07 2018 08:40
                  1335.399048 7.903880119 1475.442576 238.6417999
24 07 2018 08:50
                  1162.781006 7.460306168 1237.461566 255.5180054
24 07 2018 09:00
                  788.7625122 6.635375023 859.9705168 254.0379028
24 07 2018 09:10
                  547.4406128 5.944811821 606.5290298 251.2787933
24 07 2018 09:20
                  837.1682129 6.995546818 1013.9854
                                                      251.1636963
24 07 2018 09:30
                  515.2050171 5.772912979 551.0428303 248.2702026
24 07 2018 09:40
                  455.3674927 5.493764877 467.2080431 253.0451965
24 07 2018 09:50
                  567.6109009 5.991594791 622.1664319 261.9186096
                  576.4072876 6.111997128 662.4250992 258.2308044
24 07 2018 10:00
24 07 2018 10:10
                  491.1860046 5.886187077 587.2613214 256.7789917
24 07 2018 10:20
                 642.9874878 6.312503815 734.581188 260.4910889
24 07 2018 10:30 835.6021729 6.897912979 970.6871932 256.7044067
24 07 2018 10:40
                 1155.353027 7.571157932 1294.820297 267.1877136
24 07 2018 10:50
                  638.637085 6.111453056 662.235163 273.1948853
24 07 2018 11:00
                  737.0396118 6.451683998 787.2207246 263.3869019
24 07 2018 11:10
                  465.5140076 5.684082031 523.5464487 250.6726074
                  269.2372131 4.863817215 303.2352938 243.9420013
24 07 2018 11:20
24 07 2018 11:30
                  266.8045044 4.961048126 326.4877593 240.8114929
24 07 2018 11:40
                  204.0137024 4.553491116 233.4086176 243.6083984
                  303.3720093 5.16034317 376.3895788 230.7859955
24 07 2018 11:50
24 07 2018 12:00
                  262.5704956 4.848727226 299.6880282 222.8394928
24 07 2018 12:10
                  93.41175842 3.92929101 114.8238548 243.9487
24 07 2018 12:20
                  83.47062683 3.64833498 70.37377906 232.2926941
24 07 2018 12:30
                  30.60729027 3.086002111 19.34377662 247.4617004
                 97.31304169 3.777592897 89.25502985 241.1042938
24 07 2018 12:40
24 07 2018 12:50
                  51.17282104 3.496792078 51.641536
                                                      245.8471069
24 07 2018 13:00
                  19.19309998 2.970113039 0
                                                268.185791
24 07 2018 13:10
                  24.60482025 3.074927092 18.84679246 254.311203
24 07 2018 13:20
                  3.469400883 2.447429895 0
                                                251.2095947
24 07 2018 13:30
                        2.128489971 0
                                          255.504303
24 07 2018 13:40
                        2.302162886 0
                                          264.03479
                  0
24 07 2018 13:50
                        2.430072069 0
                                          259.7901917
                  0
24 07 2018 14:00
                  0
                        2.961762905 0
                                          252.7357941
24 07 2018 14:10
                  0
                        2.051691055 0
                                          251.5321045
24 07 2018 14:20
                  0
                        2.833806992 0
                                          271.5541077
24 07 2018 14:30
                        3.013729095 16.4544101 265.0855103
                        3.159485102 23.13836307 262.7272949
24 07 2018 14:40
24 07 2018 14:50
                        2.461833954 0
                                          243.2359924
                  0
24 07 2018 15:00
                                          227.6096039
                  0
                        2.280903101 0
24 07 2018 15:10
                                          238.0225067
                  0
                        1.853618979 0
24 07 2018 15:20
                  0
                        1.011085987 0
                                          252.3518066
24 07 2018 15:30
                                          257.9049988
                  0
                        0.660106301 0
24 07 2018 15:40
                  0
                        1.365919948 0
                                          278.1622009
24 07 2018 15:50
                  0
                        1.898676991 0
                                          287.0143127
24 07 2018 16:00
                  0
                        1.518916011 0
                                          275.6737061
24 07 2018 16:10
                  0
                        2.213335037 0
                                          300.9934998
24 07 2018 16:20
                  0
                        2.821408987 0
                                          348.1315002
24 07 2018 16:30
                  0
                        2.904278994 0
                                          354.8685913
24 07 2018 16:40
                        2.467307091 0
                                          333.9762878
24 07 2018 16:50
                  21.68421936 4.264417171 173.7300431 338.3930969
24 07 2018 17:00
                  105.4123001 4.210528851 163.1129109 358.5763855
24 07 2018 17:10
                  70.57977295 3.932706118 115.4418519 4.019351006
24 07 2018 17:20
                  54.96242142 3.721441984 80.72442642 5.708288193
24 07 2018 17:30
                  140.9589996 4.383584023 197.7565432 11.25903034
24 07 2018 17:40
                 76.31271362 3.980258942 124.2408935 14.55994987
24 07 2018 17:50 132.9691925 4.361042023 193.1519693 9.641869545
```

```
24 07 2018 18:00 143.1790924 4.389658928 199.0023187 9.991437912
24 07 2018 18:10 56.99903107 3.793165922 91.71028392 8.238638878
24 07 2018 18:20
                  0.610998213 2.778728008 0
                                                11.84990025
24 07 2018 18:30 0
                        3.564228058 59.52356195 350.3482056
                  33.83646011 3.646285057 70.09587183 359.4490051
24 07 2018 18:40
24 07 2018 18:50
                  53.19910812 3.710496902 79.12036875 1.519745946
24 07 2018 19:00
                  8.375131607 3.402426004 41.83336726 15.60521984
24 07 2018 19:10
                        2.459580898 0
                  0
                                          10.20333958
24 07 2018 19:20
                  0
                        2.233846903 0
                                          7.764324188
24 07 2018 19:30
                        2.702536106 0
                  0
                                          10.98134995
24 07 2018 19:40
                  0
                                          352.9094849
                        2.955686092 0
24 07 2018 19:50
                        3.507690907 52.86611353 347.8340149
24 07 2018 20:00
                  43.38993073 3.946758986 118.0044937 354.0844116
24 07 2018 20:10
                  26.39460945 3.308115005 33.4544687 358.2525024
24 07 2018 20:20
                  0
                        2.690892935 0
                                          10.95335007
24 07 2018 20:30
                  0
                        2.694880009 0
                                          39.8946991
24 07 2018 20:40
                  0
                        3,550494909 57,85940871 61,45306015
24 07 2018 20:50
                  0
                        2.927615881 0
                                          74.41812134
                  0
24 07 2018 21:00
                        3.034593105 17.202714
                                                53.34222031
                        3.073070049 18.76538015 54.32659912
24 07 2018 21:10
                  0
24 07 2018 21:20
                        3.277177095 31.01583843 45.49417114
                  0
24 07 2018 21:30
                        3.534329891 55.93923113 38.27692032
                  0
24 07 2018 21:40
                        2.681510925 0
                                          42.0329895
24 07 2018 21:50
                  0
                        2.532253981 0
                                          26.10996056
24 07 2018 22:00
                        2.009645939 0
                                          34.66796112
24 07 2018 22:10
                        1.871322989 0
                                          21.64878082
24 07 2018 22:20
                        1.421062946 0
                                          67.3033371
24 07 2018 22:30
                        0.933557212 0
                                          85.99671936
                  0
24 07 2018 22:40
                  0
                        0.8345505
                                    0
                                          69.01567841
24 07 2018 22:50
                  0
                        0.926549792 0
                                          11.90709972
24 07 2018 23:00
                  0
                        0.621146977 0
                                          347.0759888
24 07 2018 23:10
                  0
                        0.602416813 0
                                          262.8966064
24 07 2018 23:20
                        0.614824772 0
                                          241.4539948
24 07 2018 23:30
                        1.080301046 0
                                          219.2666016
                  0
24 07 2018 23:40
                                          221.7313995
                  0
                        1.545341015 0
24 07 2018 23:50
                  0
                        2.141210079 0
                                          209.1981049
25 07 2018 00:00
                  0
                        2.824188948 0
                                          193.5522003
25 07 2018 00:10
                        2.494317055 0
                                          196.4479065
25 07 2018 00:20
                        1.481528997 0
                                          187.7012939
25 07 2018 00:30
                        1.281175971 0
                                          287,0664978
25 07 2018 00:40
                        2.446571112 0
                                          274.9660034
                  0
25 07 2018 00:50
                        2.43442893 0
                                          241.5679932
                  0
25 07 2018 01:00
                        2.897878885 0
                                          244.8361053
                  0
                                          249.2487946
25 07 2018 01:10
                  0
                        2.895493031 0
25 07 2018 01:20
                  0
                        3.097069979 19.86004578 253.7713013
25 07 2018 01:30
                  0
                        3.653438091 71.06852605 247.8621063
25 07 2018 01:40
                  0
                        2.544751883 0
                                          247.6228027
25 07 2018 01:50
                  7.935928822 3.593897104 63.22180897 264.9486084
25 07 2018 02:00
                 59.14414978 3.838485003 99.07608804 268.7120972
25 07 2018 02:10
                  113.7669983 4.212685108 163.5348758 278.2043152
25 07 2018 02:20
                  315.0031128 5.356305122 428.5975285 281.834198
                  223.6473999 4.803410053 289.1320936 278.0369873
25 07 2018 02:30
25 07 2018 02:40
                  154.2940063 4.436573029 208.6936841 274.3539124
25 07 2018 02:50
                 216.0408936 4.826609135 294.5178884 275.561615
25 07 2018 03:00
                  342.949585 5.307188988 415.2062938 279.0194092
25 07 2018 03:10 359.8705139 5.379224777 434.9183647 279.4088135
25 07 2018 03:20 294.3442078 5.124911785 367.2895984 285.1437988
25 07 2018 03:30 265.052887 4.838212967 297.2259833 286.5147095
25 07 2018 03:40 246.2675018 4.878211021 306.6341055 299.351593
```

```
25 07 2018 03:50 17.5331707 3.033804893 17.17317826 310.4920044
                  92.9935379 3.872003078 104.735248 263.3927917
25 07 2018 04:00
                  779.1704102 5.907660007 594.2766832 183.1448059
25 07 2018 04:10
25 07 2018 04:20
                  117.4104004 3.237096071 28.08423804 143.5653992
25 07 2018 04:30
                  46.12384033 3.592955112 63.10222483 263.6286926
25 07 2018 04:40
                  58.21849823 3.654963017 71.27694077 268.9088135
25 07 2018 04:50
                  24.7055397 3.430824041 44.63511769 291.5244141
                  103.7668991 4.124783039 146.5208885 263.8800964
25 07 2018 05:00
25 07 2018 05:10
                  181.8432007 4.705840111 266.8867324 249.0753937
                  132.6661987 4.298030853 180.429479 252.254303
25 07 2018 05:20
25 07 2018 05:30
                  164.863205 4.538499832 230.1935852 243.5251007
25 07 2018 05:40
                  65.46582031 3.744443893 84.15794143 241.9703064
25 07 2018 05:50
                  112.771698 4.135002136 148.4793926 262.1538086
25 07 2018 06:00
                  273.1383057 5.013975143 339.4402651 265.0362854
25 07 2018 06:10
                  184.4010925 4.688924789 263.0954494 259.6824036
25 07 2018 06:20
                 60.43257141 3.697379112 77.22314169 257.5086975
25 07 2018 06:30
                  21.49081993 3.359843969 37.8740216 263.6846924
25 07 2018 06:40
                  51.35293961 3.686652899 75.69226903 255.8955994
25 07 2018 06:50
                  26.43956947 3.041732073 17.4747516 263.879303
25 07 2018 07:00
                  97.05335999 3.986752033 125.4704311 264.1170044
25 07 2018 07:10
                  81.76618958 4.020855904 126.8818499 254.0428009
                  46.00764847 3.780879021 89.76989226 247.8173065
25 07 2018 07:20
25 07 2018 07:30
                  44.91580963 3.698862076 77.43624251 252.6589966
25 07 2018 07:40
                  7.909887791 3.384537935 40.13476782 249.1289978
25 07 2018 07:50
                        3.595607042 63.43924526 253.2120056
25 07 2018 08:00
                  175.0946045 4.518214226 225.8650211 261.7249146
25 07 2018 08:10
                  194.6613007 4.611725807 246.0302001 262.2521973
25 07 2018 08:20
                  153.7182007 4.031890869 128.9435977 269.4552002
                  225.4467926 4.829755783 295.2513117 275.5292969
25 07 2018 08:30
                  230.577301 4.764618874 280.2101225 263.9056091
25 07 2018 08:40
25 07 2018 08:50
                  141.8085022 4.18185091 157.5231407 262.6875
25 07 2018 09:00
                  132.3981934 4.18820715 158.7585084 279.9670105
25 07 2018 09:10
                  188.2360992 4.649102211 254.244231 276.6388855
25 07 2018 09:20
                  92.69035339 3.779664993 89.57947993 268.521698
25 07 2018 09:30
                  75.63587952 3.753074884 85.46813882 261.0799866
25 07 2018 09:40
                  93.17434692 3.872119904 104.755287 263.0884094
25 07 2018 09:50
                  14.9331398 2.779755116 0
                                                276.2691956
                  17.66836929 3.042629957 17.50954369 270.6643066
25 07 2018 10:00
25 07 2018 10:10
                        2.430042982 0
                                          255.6808929
25 07 2018 10:20
                  0
                        2.183126926 0
                                          248,4302979
25 07 2018 10:30
                        2.188734055 0
                                          289.6724854
                  0
25 07 2018 10:40
                        3.101226091 20.05897265 309.291687
                  0
25 07 2018 10:50
                                          302.4549866
                  0
                        2.167448044 0
25 07 2018 11:00
                  0
                        1.667422056 0
                                          310.0651855
25 07 2018 11:10
                  0
                        1.874425054 0
                                          305.3016968
25 07 2018 11:20
                        1.159502029 0
                                          307.832489
25 07 2018 11:30
                  0
                        1.74783504 0
                                          311.3078918
25 07 2018 11:40
                                          324.0441895
                  0
                        2.448585033 0
25 07 2018 11:50
                  0
                        2.023180962 0
                                          312.2576904
25 07 2018 12:00
                  0
                        1.650205016 0
                                          290.9796143
25 07 2018 12:10
                  0
                        1.705551982 0
                                          292.8033142
25 07 2018 12:20
                                          323.6159973
                        1.696789026 0
25 07 2018 12:30
                        2.321707964 0
                                          313.2854919
25 07 2018 12:40
                        1.406748056 0
                                          301.0480042
                  0
25 07 2018 12:50
                                          307.4757996
                  0
                        1.754634976 0
25 07 2018 13:00
                  0
                        1.610532999 0
                                          299.2604065
25 07 2018 13:10
                  0
                        2.204296112 0
                                          315.0942993
25 07 2018 13:20
                  0
                        1.910447001 0
                                          300.5310974
25 07 2018 13:30
                  0
                        1.392145991 0
                                          321.0458984
```

```
25 07 2018 13:40
                        2.734441042 0
                                           330.7817993
                  0
25 07 2018 13:50
                  0
                        1.882138968 0
                                           335.0775146
25 07 2018 14:00
                        1.79677701 0
                                           343.7207947
                  0
25 07 2018 14:10
                  0
                        1.252434015 0
                                           331,5137939
25 07 2018 14:20
                  0
                        1.166232944 0
                                           323.7344055
25 07 2018 14:30
                        1.041056991 0
                                           311.297699
25 07 2018 14:40
                  0
                        0.845327318 0
                                           335.5486145
25 07 2018 14:50
                  0
                        0.770079792 0
                                           299.5703125
25 07 2018 15:00
                  0
                        1.094812989 0
                                           346.9721985
25 07 2018 15:10
                  0
                        1.492447019 0
                                           5.050529003
25 07 2018 15:20
                  0
                        1.413735986 0
                                           358.631012
25 07 2018 15:30
                        1.964740992 0
                                           351.5085144
25 07 2018 15:40
                        1.659155011 0
                                           349.6353149
                        1.373355031 0
25 07 2018 15:50
                                           25.45853043
25 07 2018 16:00
                        1.366222024 0
                                           33.35776901
                  0
25 07 2018 16:10
                  0
                        0.424516708 0
                                           276.1174011
25 07 2018 16:20
                  0
                        0.72449708 0
                                           286,6954956
25 07 2018 16:30
                  0
                        1.434741974 0
                                           291.6111145
                  0
25 07 2018 16:40
                        1.816609979 0
                                           285.4714966
25 07 2018 16:50
                  0
                        1.621024013 0
                                           303.1524048
25 07 2018 17:00
                        1.820006967 0
                                           295.0491028
                  0
25 07 2018 17:10
                  0
                        2.322834015 0
                                           320.1629944
25 07 2018 17:20
                        1.455932975 0
                                           308.3046875
25 07 2018 17:30
                  0
                        1.414783955 0
                                           310.4728088
25 07 2018 17:40
                        1.800559044 0
                                           335.9562988
25 07 2018 17:50
                        1.781689048 0
                                           332.5953064
25 07 2018 18:00
                        1.654934049 0
                                           346.6304932
25 07 2018 18:10
                        2.172683954 0
                                           349.4148865
                  0
25 07 2018 18:20
                  0
                        2.039470911 0
                                           328.2051086
25 07 2018 18:30
                  0
                        1.327002048 0
                                           305.1611023
25 07 2018 18:40
                  0
                        1.868054032 0
                                           282.3808899
25 07 2018 18:50
                  0
                        1.914803982 0
                                           281.3566895
25 07 2018 19:00
                        1.679937959 0
                                           305.068512
                  0
25 07 2018 19:10
                        2.172744036 0
                                           299.3945007
                  0
25 07 2018 19:20
                        2.003339052 0
                                           292.7013855
                  0
25 07 2018 19:30
                  0
                        2.245695114 0
                                           289.2485046
25 07 2018 19:40
                  0
                        2.608743906 0
                                           274.2612915
25 07 2018 19:50
                  0
                        2.622081041 0
                                           267.5733032
25 07 2018 20:00
                        3.133826017 21.71518479 269.8308105
25 07 2018 20:10
                        2.95836997 0
                                           269.9179993
25 07 2018 20:20
                        3.546602964 57.39327892 275.6478882
25 07 2018 20:30
                  11.34584045 3.370788097 38.86392417 275.2372131
25 07 2018 20:40
                  69.89766693 3.971313953 122.5581102 275.5958862
25 07 2018 20:50
                  36.00297165 3.55991292 58.99741168 269.4814148
                  45.52888107 3.784205914 90.29290242 268.0058899
25 07 2018 21:00
25 07 2018 21:10
                  124.7469025 4.25911808 172.6793381 275.8033142
                  134.5877991 4.353404045 191.5982081 273.454895
25 07 2018 21:20
25 07 2018 21:30
                  163.2707062 4.488584995 219.5874305 277.3454895
25 07 2018 21:40
                  152.5545044 4.403007984 201.7471292 279.8570862
25 07 2018 21:50
                  123.2526016 4.22042799 165.0520544 284.6311951
25 07 2018 22:00
                  101.0363007 4.102316856 142.2327867 286.2814026
25 07 2018 22:10
                  73.50576782 4.056655884 133.5906588 283.538208
25 07 2018 22:20
                  68.91925812 4.019011021 126.537688 273.8876038
25 07 2018 22:30
                  75.32967377 4.010066032 124.8711546 280.1647034
25 07 2018 22:40
                  8.026810646 2.879105091 0
                                                 267.4172058
25 07 2018 22:50
                  0
                        3.045783043 17.63274433 268.1036072
25 07 2018 23:00
                  0
                        3.317087889 34.19039077 268.9171143
25 07 2018 23:10
                  4.880134106 3.575948954 60.96774229 273.307312
25 07 2018 23:20 150.7416992 4.415565014 204.3383376 273.5645142
```

```
25 07 2018 23:30
                  103.9023972 4.216144085 164.2122675 272.8638
25 07 2018 23:40
                  108.7237015 4.219059944 164.7837706 278.536499
25 07 2018 23:50
                   65.18958282 3.816735983 95.50016471 277.9753113
26 07 2018 00:00
                   44.65758896 3.707246065 78.64763382 276.8395081
26 07 2018 00:10
                   10.3508997 3.264626026 30.07018753 272.8988953
26 07 2018 00:20
                   -0.019600051
                                     2.705131054 0
26 07 2018 00:30
                   0
                         3.277220011 31.01911509 283.7994995
26 07 2018 00:40
                   0
                         3.45538497 47.16235668 284.3670044
26 07 2018 00:50
                   0
                         2.56772089
                                     0
                                            280.1983032
26 07 2018 01:00
                   0
                         2.703807116 0
                                            295.5840149
                         3.026441097 16.90204564 294.6572876
26 07 2018 01:10
                   0
26 07 2018 01:20
                         2.74873209 0
                                           286.806488
26 07 2018 01:30
                         2.335386992 0
                                            283.4176025
26 07 2018 01:40
                   0
                         2.207851887 0
                                            294.0776978
26 07 2018 01:50
                         1.882256985 0
                                            296.063385
                   0
26 07 2018 02:00
                   0
                         2.125868082 0
                                            314.3548889
26 07 2018 02:10
                  0
                         2.196821928 0
                                            309.2443848
26 07 2018 02:20
                   0
                                           290.6589966
                         1.691943049 0
26 07 2018 02:30
                   0
                         2.303220987 0
                                           299.085907
26 07 2018 02:40
                   0
                         1.915359974 0
                                            273.6080933
26 07 2018 02:50
                         2.075525999 0
                                            260.6668091
                   0
26 07 2018 03:00
                   0
                         1.851773977 0
                                            253.0233002
26 07 2018 03:10
                   0
                         1.981158018 0
                                            291.3125916
                                           272.0107117
26 07 2018 03:20
                   0
                         1.934798002 0
26 07 2018 03:30
                         2.157335997 0
                                           266.4122925
26 07 2018 03:40
                         2.108082056 0
                                            266.2478027
26 07 2018 03:50
                         1.867918968 0
                                            276.4809875
26 07 2018 04:00
                         2.000174999 0
                                            284.6340942
                   0
26 07 2018 04:10
                   0
                         2.488082886 0
                                            273.0297852
26 07 2018 04:20
                   0
                         2.416564941 0
                                            262.8902893
                                           248.0843048
26 07 2018 04:30
                  0
                         1.881458998 0
                   0
26 07 2018 04:40
                         1.245738983 0
                                            271.3395996
26 07 2018 04:50
                                            270.6799011
                         2.857141972 0
26 07 2018 05:00
                         1.977851033 0
                                           276.5367126
                   0
26 07 2018 05:10
                         2.52026391
                                            253.8173981
                   0
                                     0
26 07 2018 05:20
                   0
                         2.428113937 0
                                            245.3345947
26 07 2018 05:30
                   0
                         2.77069211
                                            230.0146027
26 07 2018 05:40
                   0
                         1.565932035 0
                                            246.9013062
26 07 2018 05:50
                         1.490183949 0
                                            257.6813965
26 07 2018 06:00
                         1.332738996 0
                                            284,6281128
26 07 2018 06:10
                         1.264029026 0
                                           287.2532043
                   0
26 07 2018 06:20
                   0
                         0.996285021 0
                                            242.460907
26 07 2018 06:30
                                            279.1452026
                   0
                         1.121580958 0
26 07 2018 06:40
                   0
                         1.605875015 0
                                            266.9584961
26 07 2018 06:50
                   0
                         1.41494
                                     0
                                            274.7858887
26 07 2018 07:00
                   0
                         1.456377029 0
                                            314.0711975
26 07 2018 07:10
                   0
                         1.082540989 0
                                           314.7474976
26 07 2018 07:20
                                           315.1983032
                   0
                         1.406996965 0
26 07 2018 07:30
                   0
                         1.477174997 0
                                            304.4711914
26 07 2018 07:40
                   0
                         1.956467032 0
                                            296.1611023
26 07 2018 07:50
                   0
                         1.876786947 0
                                            306.6648865
26 07 2018 08:00
                         1.840031028 0
                                            285.2670898
26 07 2018 08:10
                         2.252942085 0
                                            316.0934143
26 07 2018 08:20
                         2.321016073 0
                                            318.8543091
                   0
26 07 2018 08:30
                   0
                         1.207869053 0
                                            299.9981995
26 07 2018 08:40
                   0
                         1.744894981 0
                                            309.0523987
26 07 2018 08:50
                  0
                         1.815922022 0
                                            319.7394104
                   0
                         3.206963062 26.04951473 332.114502
26 07 2018 09:00
26 07 2018 09:10
                         3.427787066 44.32932797 340.5766907
```

```
26 07 2018 09:20 14.56612015 3.324512005 34.80902746 10.96453953
26 07 2018 09:30 0.473666996 1.962113023 0 10.05543995
26 07 2018 09:40 0
                       2.183512926 0
                                         35.87982178
26 07 2018 09:50 0
                       2.930354118 0
                                         35.92350006
26 07 2018 10:00 0
                       2.908844948 0
                                         8.823874474
26 07 2018 10:10 0
                       1.925868034 0
                                         35.53134918
26 07 2018 10:20 0
                       1.988304973 0
                                         10.29695988
26 07 2018 10:30 0
                                         346.875885
                       1.967010021 0
26 07 2018 10:40 0
                       2.639662981 0
                                         359.4487915
26 07 2018 10:50 0
                       3.001940966 16.06241229 357.9367981
26 07 2018 11:00 0
                       2.465523958 0
                                         21.10195923
26 07 2018 11:10 0
                       2.37046504 0
                                         15.85426044
26 07 2018 11:20 0
                       2.0791049 0
                                         20.4922905
26 07 2018 11:30 0
                       1.38994503 0
                                         59.58224869
26 07 2018 11:40 0
                       1.932499051 0
                                         12.7850399
26 07 2018 11:50 0
                       2.203885078 0
                                         19.6600399
26 07 2018 12:00 0
                       2.580287933 0
                                         23,40950012
26 07 2018 12:10 0
                       2.294378042 0
                                         19.68022919
26 07 2018 12:20 0
                       2.346895933 0
                                         19.78237915
26 07 2018 12:30 0
                       2.883991957 0
                                         15.56431007
26 07 2018 12:40 0
                       3.223884106 27.1742188 17.96302986
26 07 2018 12:50 0
                       2.809022903 0
                                         50.65192032
26 07 2018 13:00 0
                        2.670295954 0
                                         40.02835846
26 07 2018 13:10 0
                        3.003495932 16.11284754 36.7053299
26 07 2018 13:20 17.51086998 3.494000912 51.33098124 43.56428909
26 07 2018 13:30 203.8034973 4.701126099 265.828258 66.38408661
26 07 2018 13:40 223.5424957 4.785961151 285.1059779 60.95936966
26 07 2018 13:50 215.3255005 4.66686821 258.1802033 60.10126877
26 07 2018 14:00 179.0592041 4.478740215 217.5132304 47.94709015
26 07 2018 14:10 225.3238983 4.589764118 241.2453186 32.04375076
26 07 2018 14:20 139.5912933 4.253650188 171.5967025 30.30728912
26 07 2018 14:30 66.50093079 3.626801014 67.48799333 45.77865982
26 07 2018 14:40 101.3865967 4.089090824 139.7195263 54.81238174
26 07 2018 14:50 101.0114975 4.026424885 127.9216631 64.56613159
26 07 2018 15:00 86.82772827 3.871505976 104.6500045 73.05806732
26 07 2018 15:10 17.06049919 2.922353983 0
                                                90.60370636
26 07 2018 15:20 0
                                       93.99925232
                       2.452739
                                  0
26 07 2018 15:30 0
                       2.745291948 0
                                         109.9861984
26 07 2018 15:40 0
                       2.376012087 0
                                         92.95717621
26 07 2018 15:50 0
                       2.733761072 0
                                         105.4901962
                       1.705718994 0
26 07 2018 16:00 0
                                         109.8467026
26 07 2018 16:10 0
                       1.957625031 0
                                         113.330101
26 07 2018 16:20 0
                       2.625921965 0
                                         144.8023071
26 07 2018 16:30 21.36304092 3.560355902 59.05128778 149.7290955
26 07 2018 16:40 159.707901 4.382959843 197.6286609 168.1345978
26 07 2018 16:50 362.0350037 5.608209133 500.6735792 195.2355042
26 07 2018 17:00 210.4835968 4.889268875 309.2553397 197.6083069
26 07 2018 17:10 67.83213043 3.761231899 86.71734113 179.8583069
26 07 2018 17:20 9.372724533 2.330343008 0
                                                185.9304962
26 07 2018 17:30 0
                        2.630273104 0
                                         210.1663971
26 07 2018 17:40 361.6890869 5.660493851 516.3757739 206.4098969
26 07 2018 17:50
                 385.9679871 5.592720032 496.0721915 205.8724976
26 07 2018 18:00
                 69.02908325 3.673330069 73.8164327 217.0800934
26 07 2018 18:10
                 72.96125793 3.833986998 98.3303289 246.9924927
26 07 2018 18:20 82.05835724 3.911691904 111.6687112 279.4289856
26 07 2018 18:30 65.07444763 3.646287918 70.09625922 264.825592
26 07 2018 18:40 0
                     2.863292933 0
                                         293.1633911
26 07 2018 18:50 0
                       3.199480057 25.56674526 349.2972107
26 07 2018 18:50 0 3.199480057 25.56674526 349.29
26 07 2018 19:00 0 2.927841902 0 17.48732948
```

```
26 07 2018 19:10
                        1.674466968 0
                                          84.97733307
                  0
26 07 2018 19:20
                  0
                        1.32368505 0
                                          99.68102264
26 07 2018 19:30
                        1.389245987 0
                                          229.0821075
                  0
26 07 2018 19:40
                  0
                        0.720695615 0
                                          140.5877991
26 07 2018 19:50
                  0
                        2.314044952 0
                                          223.1405945
26 07 2018 20:00
                  0
                        1.697438955 0
                                           262.9563904
26 07 2018 20:10
                  0
                        0.777491987 0
                                          341.8023987
26 07 2018 20:20
                  0
                        1.269029975 0
                                          145.7727051
26 07 2018 20:30
                  0
                        3.516089916 53.82278145 198.1632996
26 07 2018 20:40
                  254.5502014 5.167553902 378.2539661 190.2198029
26 07 2018 20:50
                  444.6004028 5.948565006 607.7749254 184.1959076
26 07 2018 21:00
                  583.3939209 6.32141304 737.887667 191.8296967
26 07 2018 21:10
                  371.9122925 5.685657978 524.0274641 192.3321075
26 07 2018 21:20
                  323.1379089 5.381896973 435.6583154 193.4100952
                  290.134491 5.192689896 384.7862158 194.0970001
26 07 2018 21:30
26 07 2018 21:40
                  238.9868927 4.927308083 318.3403612 196.0157928
26 07 2018 21:50
                  362.8145142 5.63684082 509.2396559 199.1867981
26 07 2018 22:00
                  272.072998 5.152285099 374.3110962 201.4006958
26 07 2018 22:10
                  129.1860962 4.325345993 185.9180673 207.8106995
                  135.6381073 4.408562183 202.8921569 206.6828003
26 07 2018 22:20
26 07 2018 22:30
                  222.1999054 4.875484943 305.9892525 206.2971954
                  328.7507019 5.463733196 458.6273584 202.7445068
26 07 2018 22:40
26 07 2018 22:50
                  569.6497803 6.52320385 815.0972848 200.4411011
26 07 2018 23:00
                  638.7879028 6.748681068 906.7566711 198.3280945
26 07 2018 23:10
                  428.2546997 5.861226082 579.1668415 197.4848938
26 07 2018 23:20
                  153.884201 4.555478096 233.8357843 194.0688019
26 07 2018 23:30
                  106.8700027 4.146774769 150.7418911 192.8294983
26 07 2018 23:40
                  69.31568909 3.845674992 100.274895 198.4490051
                  79.50794983 4.08105278 138.1961157 204.3874054
26 07 2018 23:50
27 07 2018 00:00
                  68.29488373 3.839822054 99.2983923 207.0187073
27 07 2018 00:10
                  125.927002 4.169716835 155.1704028 212.7326965
27 07 2018 00:20
                  125.0159988 4.198254108 160.7153116 214.9624023
27 07 2018 00:30
                  89.37850189 3.885974884 107.1473159 207.7436981
27 07 2018 00:40
                  34.90649033 3.280925989 31.30318456 211.1976929
27 07 2018 00:50
                  -0.009533332
                                    1.973656058 0
                                                       193.7277069
27 07 2018 01:00
                        2.633347988 0
                                           206.170105
27 07 2018 01:10
                  0
                        2.727042913 0
                                           204.4618988
27 07 2018 01:20
                  0
                        2.883312941 0
                                           208.1495056
27 07 2018 01:30
                        2.839827061 0
                                          201.2404022
27 07 2018 01:40
                        2.52987504 0
                                          208.8267059
27 07 2018 01:50
                        2.982527971 0
                                          195.5926056
                  0
27 07 2018 02:00
                        3.384584904 40.13916077 191.0498962
                  0
27 07 2018 02:10
                                          203.5722046
                  0
                        2.098076105 0
27 07 2018 02:20
                  0
                        2.549024105 0
                                           213.241806
27 07 2018 02:30
                  0
                        2.183911085 0
                                          204.9535065
27 07 2018 02:40
                        2.473294973 0
                                          187.4640961
27 07 2018 02:50
                  0
                        2.77227807 0
                                          171.3282013
27 07 2018 03:00
                                          167.3719025
                  0
                        2.515588045 0
27 07 2018 03:10
                  0
                        1.405478001 0
                                          189.0256042
27 07 2018 03:20
                  0
                        0.709437609 0
                                           225.5372925
27 07 2018 03:30
                  0
                        0.592042983 0
                                           214.2342072
27 07 2018 03:40
                        0.986462116 0
                                          188.5572052
27 07 2018 03:50
                        1.430065036 0
                                          165.3459015
27 07 2018 04:00
                        1.015648007 0
                                          152.1784973
                  0
27 07 2018 04:10
                        0.926226377 0
                                          139.8296967
                  0
27 07 2018 04:20
                  0
                        0.915695012 0
                                          111.2642975
27 07 2018 04:30
                  0
                        1.095443964 0
                                          118.0231018
                  0
27 07 2018 04:40
                        1.009935021 0
                                          107.6144028
27 07 2018 04:50
                  0
                        1.45006001 0
                                          136.7061005
```

```
27 07 2018 05:00
                        1.760169029 0
                                           133.7628021
                  0
27 07 2018 05:10
                  0
                        1.190490007 0
                                           118.5647964
27 07 2018 05:20
                        0.917833388 0
                                           110.2526016
                  0
27 07 2018 05:30
                  0
                        1.126224041 0
                                           39.25849915
27 07 2018 05:40
                  0
                        1.430678964 0
                                           31.02927017
27 07 2018 05:50
                        1.658362985 0
                                           20.29667091
27 07 2018 06:00
                  0
                        1.674708009 0
                                           14.79823017
27 07 2018 06:10
                        2.044261932 0
                                           19.86313057
                  0
27 07 2018 06:20
                  0
                        2.192794085 0
                                           24.71125984
27 07 2018 06:30
                  0
                        1.985836983 0
                                           25,45084
27 07 2018 06:40
                                           21.70890999
                  0
                        2.217968941 0
27 07 2018 06:50
                        2.329715014 0
                                           24.99683952
27 07 2018 07:00
                        2.409393072 0
                                           27.65829086
27 07 2018 07:10
                        2.383285046 0
                                           33.23237991
27 07 2018 07:20
                        1.974562049 0
                                           21.4600296
                  0
27 07 2018 07:30
                  0
                        2.314877987 0
                                           35.66577148
27 07 2018 07:40
                  0
                        1.757001042 0
                                           30.85726929
27 07 2018 07:50
                  0
                        1.208140016 0
                                           99.09989166
27 07 2018 08:00
                  0
                        1.438552022 0
                                           0
27 07 2018 08:10
                  0
                        1.944031954 0
                                           0
27 07 2018 08:20
                        2.015160084 0
                                           52.30155182
                  0
27 07 2018 08:30
                        2.545845032 0
                  0
                                           102.8600006
27 07 2018 08:40
                        3.126874924 21.34777726 100.5057983
27 07 2018 08:50
                  Θ
                        3.144901037 22.31653804 140.4111023
27 07 2018 09:00
                        2.036143064 0
                                           145.4989929
27 07 2018 09:10
                        3.036783934 17.2853305 143.7702942
27 07 2018 09:20
                        2.175107002 0
                                           134.6748962
27 07 2018 09:30
                        2.658315897 0
                                           103.3088989
                  0
27 07 2018 09:40
                  0
                        2.714716911 0
                                           109.7778015
27 07 2018 09:50
                  0
                        2.627711058 0
                                           106.6003036
27 07 2018 10:00
                  0
                        2.843929052 0
                                           100.9609985
                  0
27 07 2018 10:10
                        2.409765959 0
                                           109.0074997
27 07 2018 10:20
                                           167.9011993
                        2.104181051 0
27 07 2018 10:30
                        2.209547997 0
                                           199.3858948
                  0
27 07 2018 10:40
                        2.51949501 0
                                           202.7185974
                  0
27 07 2018 10:50
                  0
                        1.170809031 0
                                           334.2583008
27 07 2018 11:00
                  0
                        1.624359965 0
                                           14.33012009
27 07 2018 11:10
                        3.430192947 44.57145207 47.7052803
                        3.130727053 21.55043067 51.45463181
27 07 2018 11:20
27 07 2018 11:30
                        3,206093073 25,99292671 76,22987366
27 07 2018 11:40
                        1.688750029 0
                                           79.91217041
27 07 2018 11:50
                  0
                        0.62883538 0
                                           263.052887
27 07 2018 12:00
                                           264.5817871
                  0
                        1.711115956 0
27 07 2018 12:10
                  0
                                           32.00632095
                        1.316593051 0
27 07 2018 12:20
                  0
                        1.28234303 0
                                           158.7671967
27 07 2018 12:30
                        1.223755002 0
                                           170.2144012
27 07 2018 12:40
                  0
                        1.961689949 0
                                           112.7731018
27 07 2018 12:50
                  0
                        1.601896048 0
                                           87.96324158
27 07 2018 13:00
                  0
                        1.158213019 0
                                           98.28443146
27 07 2018 13:10
                  0
                        2.069425106 0
                                           148.5545959
27 07 2018 13:20
                  0
                        1.590965033 0
                                           188.241394
27 07 2018 13:30
                        2.545219898 0
                                           239.1002045
27 07 2018 13:40
                        4.050610065 132.4536101 275.8721008
27 07 2018 13:50
                  602.3430176 6.316738129 736.1515977 285.8345947
27 07 2018 14:00
                  856.1444702 7.088476181 1056.319815 289.1962891
27 07 2018 14:10
                  874.6638184 6.916379929 978.7859542 294.7739868
27 07 2018 14:20
                  1712.69397 8.460504532 1803.695108 282.098114
27 07 2018 14:30
                  1920.123047 9.132543564 2229.763213 276.8891907
27 07 2018 14:40 1380.803955 8.233218193 1666.244514 270.342804
```

```
27 07 2018 14:50 1250.828003 7.790764809 1412.550284 273.509491
                  758.6583252 6.60996294 849.6800387 278.0073853
27 07 2018 15:00
27 07 2018 15:10
                  520.4970703 5.995756149 623.5687545 271.7471924
27 07 2018 15:20
                  550.7985229 6.117920876 664.4951372 261.1195068
                  46.92385864 3.438532114 45.41786085 242.2664032
27 07 2018 15:30
27 07 2018 15:40
                  1.064666986 2.411221027 0
                                                 260.0596924
27 07 2018 15:50
                        1.532423019 0
                                          321.5252075
27 07 2018 16:00
                  0
                        3.368549109 38.6598471 42.29878998
27 07 2018 16:10
                        3.338901043 36.03314673 45.0971489
                  0
27 07 2018 16:20
                                          53.70545959
                  0
                        2.827961922 0
27 07 2018 16:30
                        2.781765938 0
                                          34.07955933
                  0
27 07 2018 16:40
                  0
                        1.466640949 0
                                          45.12905121
27 07 2018 16:50
                        0.923116326 0
                                          194.6631927
27 07 2018 17:00
                  0
                        2.006691933 0
                                          329.9075928
27 07 2018 17:10
                        3.549371004 57.72455214 329.5588989
                  0
27 07 2018 17:20
                  90.42629242 3.98032093 124.2525999 283.1445923
27 07 2018 17:30
                  17.19309998 2.814014912 0
                                                 259.6993103
27 07 2018 17:40
                  8.310149193 2.9377141
                                          0
                                                 258,5823059
27 07 2018 17:50
                  2.459798098 2.303153992 0
                                                 263.5098877
27 07 2018 18:00
                  0
                        1.085335016 0
                                          228.4635925
27 07 2018 18:10
                        1.156257987 0
                  0
                                          225.7299042
27 07 2018 18:20
                        2.146792889 0
                                          219.6309967
                  0
27 07 2018 18:30
                  0
                        2.271316051 0
                                          239.4822998
27 07 2018 18:40
                  21.85950089 3.834585905 98.4294396 203.9600983
27 07 2018 18:50
                  111.4642029 4.020763874 126.8646782 198.9319
27 07 2018 19:00
                  242.6737976 4.961260796 326.5393823 196.6381073
27 07 2018 19:10
                  257.006897 4.96430397 327.2784489 209.9416962
                  201.9544067 4.644021988 253.1224985 210.4322968
27 07 2018 19:20
27 07 2018 19:30
                  191.9152985 4.604073048 244.3593991 207.1932068
27 07 2018 19:40
                  186.1502991 4.594119072 242.1917287 204.447403
27 07 2018 19:50
                  72.6978302 3.928095102 114.6078848 197.9232941
                  -0.110799998
27 07 2018 20:00
                                    2.620528936 0
                                                       185.3661041
27 07 2018 20:10
                        2.578274965 0
                                          220.0825043
27 07 2018 20:20
                        3.393043041 40.9360039 245.219696
                  0
27 07 2018 20:30
                        3.288033962 31.85417186 248.5028992
                  0
27 07 2018 20:40
                  0
                        2.944650888 0
                                          264.7175903
27 07 2018 20:50
                  0
                        3.545267105 57.23384464 274.4649963
                        3.068416119 18.56377702 271.552002
27 07 2018 21:00
27 07 2018 21:10
                        2.740736008 0
                                          281.0350037
27 07 2018 21:20
                        2.365304947 0
                                          287,4988098
27 07 2018 21:30
                        2.479309082 0
                                          285.0802002
27 07 2018 21:40
                        2.259322882 0
                                          285.4692078
                  0
27 07 2018 21:50
                        2.626456022 0
                                          290.7839966
                  0
27 07 2018 22:00
                  0
                        2.123048067 0
                                          278.4590149
27 07 2018 22:10
                  0
                        1.723409057 0
                                          276.8857117
27 07 2018 22:20
                        1.967381001 0
                                          283.5517883
27 07 2018 22:30
                  0
                        1.998257995 0
                                          286.1004028
27 07 2018 22:40
                                          298.5198975
                  0
                        2.019537926 0
27 07 2018 22:50
                  0
                        2.213371038 0
                                          284.2626038
27 07 2018 23:00
                  0
                        2.802654028 0
                                          275.6294861
27 07 2018 23:10
                  0
                        2.4841609
                                          255.1513977
                                    0
27 07 2018 23:20
                        2.299439907 0
                                          275.8970032
27 07 2018 23:30
                        2.564749956 0
                                          293.403595
27 07 2018 23:40
                        2.333439112 0
                                          286.0914917
27 07 2018 23:50
                        2.574182034 0
                                          289.6766968
                  0
28 07 2018 00:00
                  0
                        2.350616932 0
                                          298.3013916
28 07 2018 00:10
                  0
                        2.571583986 0
                                          323.1307983
28 07 2018 00:20
                  0
                        2.499967098 0
                                          323.7420044
28 07 2018 00:30
                  0
                        2.429380894 0
                                          314.1524963
```

```
28 07 2018 00:40
                   0
                         2.06754303
                                            293,5126038
28 07 2018 00:50
                   0
                         2.020206928 0
                                            299,245697
28 07 2018 01:00
                         2,205621004 0
                                            311.8434143
                   0
28 07 2018 01:10
                   0
                         1.679460049 0
                                            337.370697
28 07 2018 01:20
                   0
                         0.861916125 0
                                            23.76283073
28 07 2018 01:30
                         1.247022986 0
                                            22.77275085
28 07 2018 01:40
                   0
                         1.235427976 0
                                            35.19715881
28 07 2018 01:50
                         1.549852014 0
                   0
                                            359.0835876
28 07 2018 02:00
                   0
                         1.45470798
                                      0
                                            0.685392797
28 07 2018 02:10
                   0
                         1.341580033 0
                                            345.519104
28 07 2018 02:20
                   0
                         1.183140993 0
                                            10.10848999
28 07 2018 02:30
                         1.132606983 0
                                            15.33020973
28 07 2018 02:40
                         0.634564579 0
                                            351.3901062
28 07 2018 02:50
                   0
                         0.925961971 0
                                            324.2390137
28 07 2018 03:00
                         1.79607296
                                            317.7549133
                   0
                                      0
28 07 2018 03:10
                   0
                         1.94223702
                                            303.2571106
28 07 2018 03:20
                   0
                         2.035459995 0
                                            295,7044067
28 07 2018 03:30
                   0
                         1.984354019 0
                                            289.3985901
                   0
28 07 2018 03:40
                         1.331622005 0
                                            283.6950989
28 07 2018 03:50
                   0
                         0.888754189 0
                                            304.6643982
28 07 2018 04:00
                         0.755873322 0
                                            276.6174927
                   0
28 07 2018 04:10
                                            290.2132874
                   0
                         1.388898969 0
28 07 2018 04:20
                   0
                         1.646311998 0
                                            288.6054993
28 07 2018 04:30
                   0
                         1.077770948 0
                                            283.7237854
28 07 2018 04:40
                         0.660871625 0
                                            293.5570068
28 07 2018 04:50
                         1.036535978 0
                                            317.0320129
28 07 2018 05:00
                         1.315734982 0
                                            301.0875854
                   0
28 07 2018 05:10
                                            287.353302
                         1.793635011 0
                   0
28 07 2018 05:20
                   0
                         1.295487046 0
                                            287.0374146
28 07 2018 05:30
                   0
                         1.51433599
                                      0
                                            319.0855103
28 07 2018 05:40
                   0
                         1.358479977 0
                                            320.3432922
28 07 2018 05:50
                   0
                         1.146129966 0
                                            325.9700012
28 07 2018 06:00
                         0.776749015 0
                                            352,1976929
28 07 2018 06:10
                         2.048541069 0
                                            12.27396011
                   0
28 07 2018 06:20
                         3.310790062 33.67251899 23.69684029
                   0
28 07 2018 06:30
                   0
                         2.359081984 0
                                            29.75060081
28 07 2018 06:40
                   0
                         1.481595993 0
                                            20.82580948
                                            14.84123993
28 07 2018 06:50
                   0
                         1.463390946 0
28 07 2018 07:00
                         1.457708955 0
                                            358.9613037
28 07 2018 07:10
                         2.292057991 0
                                            330.956604
28 07 2018 07:20
                         2.511126041 0
                                            343.3710022
                   0
28 07 2018 07:30
                   0
                         2.017967939 0
                                            5.123559952
28 07 2018 07:40
                         2.220236063 0
                   0
                                            343.1451111
28 07 2018 07:50
                   0
                         1.370951056 0
                                            0.231510594
28 07 2018 08:00
                   0
                         1.390481949 0
                                            7.508999825
28 07 2018 08:10
                   0
                         1.291720986 0
                                            24.91282082
28 07 2018 08:20
                   0
                         1.58436799
                                      0
                                            351.7755127
28 07 2018 08:30
                                            20.40387917
                   0
                         1.917878985 0
28 07 2018 08:40
                   0
                         1.807417989 0
                                            24.96751022
28 07 2018 08:50
                   0
                         2.338536978 0
                                            32.90319824
28 07 2018 09:00
                   0
                         2.099661112 0
                                            22.45774078
28 07 2018 09:10
                         1.68918705
                                            28.41136932
28 07 2018 09:20
                         1.474946022 0
                                            19.47748947
28 07 2018 09:30
                         1.255839944 0
                                            28.23246002
                   0
28 07 2018 09:40
                                            47.10623169
                   0
                         1.492715955 0
28 07 2018 09:50
                   0
                         1.280483961 0
                                            25.12488937
28 07 2018 10:00
                   0
                         1.505563974 0
                                            36.14540863
28 07 2018 10:10
                   0
                         2.418245077 0
                                            46.20516968
28 07 2018 10:20
                         1.712425947 0
                                            17.84395027
```

```
28 07 2018 10:30
                         1.756710052 0
                                           28.25861931
                  0
28 07 2018 10:40
                  0
                         1.965554953 0
                                           26.68996048
28 07 2018 10:50
                         1.646517038 0
                                           34.0658989
                  0
28 07 2018 11:00
                  0
                         1.909646988 0
                                           45.79542923
28 07 2018 11:10
                  0
                         1.075711966 0
                                           68.24196625
28 07 2018 11:20
                         1.481201053 0
                                           40.66756058
28 07 2018 11:30
                  0
                         2.1722579
                                     0
                                           24.42033005
28 07 2018 11:40
                                           38.085289
                  0
                         2.076925993 0
28 07 2018 11:50
                  0
                         1.693611026 0
                                           16.98007965
28 07 2018 12:00
                  0
                         1.066393018 0
                                           14.56877041
28 07 2018 12:10
                  0
                        1.287099004 0
                                           353.2149048
28 07 2018 12:20
                        0.931053877 0
                                           11.5173502
28 07 2018 12:30
                         1.760658979 0
                                           289.4590149
28 07 2018 12:40
                         1.659219027 0
                                           320.9173889
28 07 2018 12:50
                         1.558508039 0
                                           330.627594
                  0
28 07 2018 13:00
                  0
                         1.828191042 0
                                           338.7619019
28 07 2018 13:10
                  0
                        1.518239021 0
                                           354,4003906
28 07 2018 13:20
                  0
                        1.92395401 0
                                           347,2625122
                  0
28 07 2018 13:30
                        2.045753956 0
                                           348.3606873
28 07 2018 13:40
                  0
                        1.376690984 0
                                           351.3442078
28 07 2018 13:50
                         1.222372055 0
                                           8.310117722
                  0
28 07 2018 14:00
                                           347.5929871
                  0
                         1.584496021 0
28 07 2018 14:10
                  0
                         1.707427025 0
                                           299.3434143
28 07 2018 14:20
                  0
                        1.700857997 0
                                           342.4256897
28 07 2018 14:30
                        1.767438054 0
                                           338.3458862
28 07 2018 14:40
                        1.354372025 0
                                           347.6932068
28 07 2018 14:50
                        1.449728012 0
                                           19.52215004
28 07 2018 15:00
                                           343.2304993
                         1.026397943 0
                  0
28 07 2018 15:10
                  0
                         1.075824976 0
                                           299.1888123
28 07 2018 15:20
                  0
                        1.490079999 0
                                           317.9439087
28 07 2018 15:30
                  0
                        1.541556954 0
                                           333.4901123
                  0
                                           305.6903992
28 07 2018 15:40
                        1.944206953 0
28 07 2018 15:50
                        1.467107058 0
                                           309.9616089
28 07 2018 16:00
                        1.936596036 0
                                           319.4252014
                  0
28 07 2018 16:10
                        1.506440043 0
                                           328.3710938
                  0
28 07 2018 16:20
                  0
                         1.677680969 0
                                           2.708344936
28 07 2018 16:30
                  0
                         2.387952089 0
                                           37.33086014
28 07 2018 16:40
                        2.313631058 0
                                           36.13544846
28 07 2018 16:50
                        2.934815884 0
                                           44.72687912
28 07 2018 17:00
                         3.007119894 16.23189204 45.69467163
28 07 2018 17:10
                  0
                         3.248182058 28.86937259 49.17811966
28 07 2018 17:20
                  0
                         3.509108067 53.02674
                                                 51.75875854
28 07 2018 17:30
                  26.90776062 3.894095898 108.5636667 52.56671906
28 07 2018 17:40
                  43.3959198 3.811651945 94.67517264 55.42116165
28 07 2018 17:50
                  52.81985855 3.797986984 92.47824166 57.59254837
                  143.3876953 4.431546211 207.6492153 61.06005096
28 07 2018 18:00
                  189.1598053 4.658003807 256.2137704 50.50571823
28 07 2018 18:10
28 07 2018 18:20
                  147.9535065 4.497604847 221.4928991 41.42811966
28 07 2018 18:30
                  130.4458008 4.297243118 180.2717906 41.4914093
28 07 2018 18:40
                  98.32792664 4.023893833 127.4489053 45.48490143
28 07 2018 18:50
                  99.45089722 4.082740784 138.5157844 36.00379181
28 07 2018 19:00
                  50.66511917 3.784190893 90.29053714 45.66711044
28 07 2018 19:10
                  -0.413933396
                                     3.077250957 18.94944747 74.51854706
28 07 2018 19:20
                         2.879432917 0
                                           61.82210922
                  0
28 07 2018 19:30
                         2.922846079 0
                                           64.27826691
                  0
28 07 2018 19:40
                  0
                         2.878730059 0
                                           79.16091156
28 07 2018 19:50
                  0
                        2.966813087 0
                                           88.87329102
28 07 2018 20:00
                  0
                        2.173475981 0
                                           92.98890686
28 07 2018 20:10
                  0
                        1.077486992 0
                                           82.15762329
```

```
28 07 2018 20:20
                        1.112159967 0
                                          56.01893997
                  0
28 07 2018 20:30
                  0
                        1.516680002 0
                                          42.70027161
28 07 2018 20:40
                        1.628044009 0
                                          39.71672058
                  0
28 07 2018 20:50
                  0
                        1.927708983 0
                                          41.15830994
28 07 2018 21:00
                  0
                        2.249931097 0
                                          41.04533005
28 07 2018 21:10
                        2.608268023 0
                                          31.93795013
28 07 2018 21:20
                  0
                        2.157771111 0
                                          38.0764389
28 07 2018 21:30
                  0
                        1.850412011 0
                                          58.67438889
28 07 2018 21:40
                  0
                        1.715499997 0
                                          48.01700974
28 07 2018 21:50
                                          46.49411011
                  0
                        1.660794973 0
28 07 2018 22:00
                        1.558200002 0
                                          54.40546036
                  0
28 07 2018 22:10
                        1.394894958 0
                                          72.02063751
28 07 2018 22:20
                        1.791399956 0
                                          57.86719131
28 07 2018 22:30
                        1.693254948 0
                                          38.05078125
28 07 2018 22:40
                        2.341434002 0
                                          25.18384933
                  0
28 07 2018 22:50
                  0
                        2.094820023 0
                                          36.09001923
28 07 2018 23:00
                  0
                        2.322572947 0
                                          30.85860062
28 07 2018 23:10
                  0
                        2.369714022 0
                                          34.73200989
28 07 2018 23:20
                  0
                        2.030857086 0
                                          39.39146042
28 07 2018 23:30
                  0
                        1.909212947 0
                                          55.68827057
28 07 2018 23:40
                        2.025012016 0
                                          47.52342987
                  0
28 07 2018 23:50
                                          54.76964951
                  0
                        1.78511405 0
29 07 2018 00:00
                  0
                        1.697700977 0
                                          46.43807983
29 07 2018 00:10
                  0
                        1.653422952 0
                                          41.44453812
29 07 2018 00:20
                        1.581624031 0
                                          23.57793045
29 07 2018 00:30
                        2.088212967 0
                                          19.02124023
29 07 2018 00:40
                        2.38905406 0
                                          22.06583977
29 07 2018 00:50
                        2.531164885 0
                  0
                                          13.56301022
29 07 2018 01:00
                  0
                        2.842648983 0
                                          8.087301254
29 07 2018 01:10
                        3.155280113 22.89791671 6.280268192
                  0
29 07 2018 01:20
                        3.063299894 18.34614675 8.269182205
                  0
29 07 2018 01:30
                  0
                        3.225876093 27.30963572 8.629403114
29 07 2018 01:40
                        3.343065977 36.39365244 7.600961208
29 07 2018 01:50
                  0
                        3,536009073 56,13674847 5,48122406
29 07 2018 02:00
                        3.553841114 58.26211402 4.155317783
                  0
29 07 2018 02:10
                        3.277570963 31.04592197 353.5885925
                  0
29 07 2018 02:20
                  0
                        3.000684023 16.02192616 5.696247101
29 07 2018 02:30
                  3.2235291
                             3.478202105 49.59664757 11.10219955
29 07 2018 02:40
                  8.868048668 3.355472088 37.48393923 3.527293921
29 07 2018 02:50
                        2.920514107 0
                                          10.17844963
29 07 2018 03:00 0
                        3.666404963 72.85260473 10.92803955
29 07 2018 03:10 94.62555695 4.28040123 176.9083087 9.913742065
29 07 2018 03:20
                 52.3945694 3.730196953 82.02130968 12.90235996
29 07 2018 03:30
                  36.68281174 3.584069967 61.98125709 13.92731953
29 07 2018 03:40
                  34.55487061 3.774099112 88.70952633 8.276496887
29 07 2018 03:50
                  0.727069974 3.204025984 25.85895965 19.21250916
29 07 2018 04:00
                  0
                        3.477643013 49.53600425 26.58081055
29 07 2018 04:10
                        3.489161968 50.79553748 35.4969902
                  0
                        3.432713032 44.82606245 29.28199959
29 07 2018 04:20
                  0
29 07 2018 04:30
                  18.6375103 3.505309105 52.59687468 25.09589005
29 07 2018 04:40
                  43.27090836 3.606780052 64.87152421 22.52812958
29 07 2018 04:50
                  30.69854927 3.507882118 52.88776746 21.69054031
29 07 2018 05:00
                  92.32878876 3.999244928 127.8550719 15.85779953
29 07 2018 05:10
                  118.8047028 4.213671207 163.7279274 14.69262028
29 07 2018 05:20
                  119.5442963 4.227851868 166.5095999 15.53314972
29 07 2018 05:30
                  71.74368286 3.81686306 95.52083862 19.06016922
29 07 2018 05:40 52.3697319 3.762202978 86.86676569 25.40216064
29 07 2018 05:50 19.86819077 3.253205061 29.23158618 30.17260933
29 07 2018 06:00 29.4529705 3.513597965 53.53776448 34.7767601
```

```
29 07 2018 06:10 24.41947937 3.082019091 19.1627814 43.09379959
29 07 2018 06:20 0
                        2.828996897 0
                                        49.86983109
29 07 2018 06:30
                        2.34059906 0
                                         46.95806885
                 0
29 07 2018 06:40 0
                        1.99061203 0
                                         40.82189941
29 07 2018 06:50 0
                        1.33047998 0
                                         63.78231049
29 07 2018 07:00 0
                        1.852110982 0
                                         63.98546982
29 07 2018 07:10
                 0
                        1.812322974 0
                                         39.8028717
29 07 2018 07:20
                 0
                        2.142246008 0
                                         14.61948967
29 07 2018 07:30
                                         23.8671093
                 0
                        2.347667933 0
29 07 2018 07:40
                 0
                        2.19472599 0
                                         26.10190964
29 07 2018 07:50
                 0
                                         22.87532043
                       2.676707029 0
29 07 2018 08:00
                       3.125965118 21.30026067 20.43096924
                 0
29 07 2018 08:10
                       2.936960936 0
                                         25.9383297
29 07 2018 08:20
                       2.337577105 0
                                         44.33404922
29 07 2018 08:30
                       1.984230042 0
                                         40.1420517
                 0
29 07 2018 08:40
                 0
                       2.488656044 0
                                         57.94406128
29 07 2018 08:50
                 0
                       2.336914063 0
                                         66.41983032
29 07 2018 09:00 0
                       2.305339098 0
                                         49.24758911
29 07 2018 09:10 0
                        3.028259993 16.96820994 83.29120636
29 07 2018 09:20
                 0
                        2.476528883 0
                                         68.04409027
29 07 2018 09:30
                 0
                       2.371046066 0
                                         52.97871017
29 07 2018 09:40
                                         33.89609909
                 0
                       1.734061956 0
29 07 2018 09:50
                 0
                       2.283548117 0
                                         49.13568115
29 07 2018 10:00
                 0
                       1.761489987 0
                                         53.44181061
29 07 2018 10:10 0
                       2.066394091 0
                                         75.67359924
29 07 2018 10:20 0
                       2.301381111 0
                                         25.82879066
29 07 2018 10:30 0
                        2.455156088 0
                                         21.15815926
29 07 2018 10:40 0
                        2.198658943 0
                                         20.17939949
29 07 2018 10:50 0
                        3.234329939 27.89139967 4.926883221
29 07 2018 11:00
                 0
                        2.97578311 0
                                         11.0941
                        3.344829082 36.54709833 10.13570023
29 07 2018 11:10 0
29 07 2018 11:20 65.53579712 3.866637945 103.8173205 20.27356911
29 07 2018 11:30
                 121.266098 4.143818855 150.1731826 9.509673119
29 07 2018 11:40 97.17002869 4.089263916 139.7523648 13.43350029
29 07 2018 11:50 67.97541046 3.761445045 86.75012604 15.47210979
                 114.8106003 4.111155033 143.9168551 10.50271988
29 07 2018 12:00
29 07 2018 12:10 43.61320114 3.446238995 46.20998705 18.49271011
29 07 2018 12:20
                 20.09579086 3.100599051 20.02878313 15.05926991
29 07 2018 12:30 4.609004021 2.606564999 0
                                                16.35271072
29 07 2018 12:40 0
                        2.973617077 0
                                         8,493021965
29 07 2018 12:50 0
                        3.216226101 26.65953337 3.828052998
29 07 2018 13:00 0
                        3.196949005 25.40548101 5.558269024
29 07 2018 13:10 25.74585915 3.889816999 107.8160874 1.871186972
29 07 2018 13:20
                 76.46456146 3.717694044 80.17298869 359.5335999
29 07 2018 13:30
                 102.0262985 3.758999109 86.37434333 2.063134909
29 07 2018 13:40 127.4552002 4.073944092 136.8513502 354.8001099
                 138.9669037 4.252287865 171.3272068 358.9176941
29 07 2018 13:50
29 07 2018 14:00 353.1914063 5.475686073 462.0326839 352.0869141
29 07 2018 14:10 380.2597961 5.613133907 502.1413877 355.4379883
29 07 2018 14:20
                 394.4342957 5.627838135 506.5377367 355.6929016
29 07 2018 14:30
                 311.126709 5.332069874 421.9638097 356.70401
29 07 2018 14:40
                 364.3678894 5.474349976 461.6513892 7.425289154
29 07 2018 14:50
                452.302887 5.862143993 579.4633607 0.892565787
29 07 2018 15:00 569.2905273 6.139550209 672.0852961 357.8294983
29 07 2018 15:10
                 374.0126953 5.543280125 481.5367987 10.45123959
29 07 2018 15:20 533.3833008 6.081160069 651.7097316 12.60204983
29 07 2018 15:30 469.270813 5.911970139 595.690661 15.19756985
29 07 2018 15:40 359.8352051 5.487372875 465.3748067 12.04823017
29 07 2018 15:50 290.0291138 5.205236912 388.0662814 12.71008015
```

```
29 07 2018 16:00 454.6149902 5.89736414 590.9069239 10.84016991
29 07 2018 16:10 512.8604736 6.09603405 656.8655102 14.95654964
29 07 2018 16:20 426.2084961 5.688676834 524.9495683 21.4624691
29 07 2018 16:30 308.7384949 5.259412766 402.3790768 39.25989914
29 07 2018 16:40 324.3375854 5.363354206 430.5366344 43.9785881
29 07 2018 16:50
                 193.8222961 4.641179085 252.4955027 52.60000992
29 07 2018 17:00
                 120.5046005 4.213870049 163.7668611 56.61418915
                 104.8929977 3.927422047 114.4864377 37.11177826
29 07 2018 17:10
                 235.7294006 4.794333935 287.0352549 25.08326912
29 07 2018 17:20
29 07 2018 17:30
                 335.066803 5.363543987 430.5889007 28.61302948
29 07 2018 17:40
                 327.2611084 5.301590919 413.6932284 36.33737183
29 07 2018 17:50 182.1051025 4.499606133 221.9163362 37.80315018
29 07 2018 18:00 205.3450012 4.650920868 254.6462034 41.1445694
29 07 2018 18:10 194.9951019 4.389233112 198.9149293 43.22045135
29 07 2018 18:20 298.0956116 5.10538578 362.3176731 48.62488937
29 07 2018 18:30 180.0234985 4.622927189 248.4824773 56.16944885
29 07 2018 18:40 326.3945007 5.307519913 415.2958216 54.81684875
29 07 2018 18:50 306.436615 5.210789204 389.5219175 61.12902832
29 07 2018 19:00 291.9522095 5.120509148 366.1658958 61.27336884
29 07 2018 19:10 227.2149048 4.722596169 270.6611031 62.15475082
29 07 2018 19:20
                 144.223999 4.332884789 187.4400017 68.55592346
29 07 2018 19:30 87.27192688 3.898736
                                         109.3776638 64.86164856
29 07 2018 19:40
                 118.3900986 4.162116051 153.7003589 70.72543335
29 07 2018 19:50
                 131.5843048 4.428340912 206.9839833 60.94475937
29 07 2018 20:00
                 188.8383026 4.699212074 265.3989086 60.89054108
29 07 2018 20:10 156.9476929 4.554125786 233.5450343 56.92660141
29 07 2018 20:20 72.13343048 3.902523994 110.0447327 62.61265945
29 07 2018 20:30 59.901371
                             3.775923014 88.99405829 61.35606003
29 07 2018 20:40 141.3567047 4.489990234 219.8839715 49.56433868
29 07 2018 20:50
                 77.20420074 3.895191908 108.7556252 47.19260025
29 07 2018 21:00 49.77180099 3.78433609 90.31340306 46.6990509
29 07 2018 21:10 10.14188957 3.041544914 17.46751565 50.27339172
29 07 2018 21:20
                 1.298465014 2.760440111 0
                                               57.87137985
29 07 2018 21:30 0
                       2.322231054 0
                                         44.01483917
29 07 2018 21:40 0
                       2.634083986 0
                                         40.30659103
29 07 2018 21:50 0
                        2.412420988 0
                                         55.74684143
                        3.348408937 36.86018901 45.05677032
29 07 2018 22:00 0
29 07 2018 22:10 6.503195763 3.699660063 77.55105829 38.09944153
29 07 2018 22:20
                 55.25122833 3.835004091 98.49867751 36.40692902
29 07 2018 22:30
                 30.43022919 3.690432072 76.22954194 40.68040085
29 07 2018 22:40 39.20581055 3.767316103 87.65603545 43.53644943
29 07 2018 22:50 13.98536015 3.423000097 43.8503297 55.15956879
29 07 2018 23:00 0
                       3.123739958 21.18460482 57.84420013
29 07 2018 23:10 0
                       3.233357906 27.823926 50.90058899
29 07 2018 23:20 0
                       3.022399902 16.75693733 50.42565155
29 07 2018 23:30 0
                       2.87311697 0
                                         42.34371948
29 07 2018 23:40 0
                       2.841743946 0
                                         67.31861877
29 07 2018 23:50
                 0
                       3.098329067 19.92001859 71.27749634
30 07 2018 00:00 4.120718956 3.549098969 57.69194117 65.5001297
30 07 2018 00:10
                 23.01824951 3.56041193 59.05810427 58.70944977
30 07 2018 00:20
                 49.71125031 3.799424887 92.70800833 49.42490005
                 33.88525009 3.493375063 51.26151823 54.8712883
30 07 2018 00:30
30 07 2018 00:40
                 0.280267894 3.426162958 44.16640401 62.66918182
30 07 2018 00:50 16.85463905 3.371193886 38.90099641 58.92684174
30 07 2018 01:00 0
                        3.427903891 44.34106367 51.90338898
30 07 2018 01:10 49.14266968 3.929828882 114.9210642 64.5999527
30 07 2018 01:20 50.63042831 3.777802944 89.28788781 60.82299042
30 07 2018 01:30 56.41590118 3.788187981 90.92123881 52.83794022
30 07 2018 01:40 91.7159729 4.057579994 133.7646054 52.63068008
```

```
30 07 2018 01:50 36.66468048 3.584238052 62.00234582 64.63847351
                 74.04373932 3.975905895 123.420374 69.53981781
30 07 2018 02:00
30 07 2018 02:10
                 83.2296524 4.030573845 128.6972406 72.47994995
30 07 2018 02:20 98.6335907 4.162899017 153.8516585 68.52285004
30 07 2018 02:30
                 134.028595 4.452299118 211.9707188 63.38938141
30 07 2018 02:40 148.5993958 4.625758171 249.1035219 53.55104065
30 07 2018 02:50
                 108.4950027 4.30214119 181.2528234 58.88983917
30 07 2018 03:00 62.88574982 3.978663921 123.9398912 61.57278824
30 07 2018 03:10 88.62149811 4.119246006 145.4618042 61.06013107
                 144.2138062 4.416720867 204.577307 59.45806122
30 07 2018 03:20
30 07 2018 03:30
                 145.5962982 4.426997185 206.7052809 59.81745911
30 07 2018 03:40
                 153.4069977 4.415775776 204.3819063 62.20378113
30 07 2018 03:50
                 175.7344055 4.546059132 231.8130267 64.81285095
30 07 2018 04:00 211.1463013 4.754769802 277.9613105 63.14458847
30 07 2018 04:10 201.3363953 4.788682938 285.7326058 70.74984741
30 07 2018 04:20 283.1299133 5.249051094 399.6226321 69.23860168
30 07 2018 04:30
                 163.3029022 4.623341084 248.5732431 74.02581787
30 07 2018 04:40 222.516098 4.908088207 313.736805 74.23712921
30 07 2018 04:50 251.4069061 5.053940773 349.3624616 69.77365112
30 07 2018 05:00 248.6517029 4.898619175 311.4787145 67.86157227
30 07 2018 05:10 219.0413055 4.768210888 281.0319288 70.25227356
                 198.3197937 4.688570976 263.0163505 62.75270844
30 07 2018 05:20
30 07 2018 05:30
                 126.7425003 4.142632008 149.9449563 60.01190186
30 07 2018 05:40
                 158.0014954 4.24622488 170.1289947 65.79688263
30 07 2018 05:50 212.3941956 4.595057011 242.395716 68.92710114
30 07 2018 06:00 310.9413147 5.068080902 352.9026345 70.18457031
30 07 2018 06:10 344.6319885 5.355169773 428.2856159 69.60507202
30 07 2018 06:20 318.6545105 5.254971027 401.1963652 63.94926071
30 07 2018 06:30 283.7072144 5.154366016 374.8473402 62.91716003
                 329.8315125 5.262365818 403.166313 69.70892334
30 07 2018 06:40
30 07 2018 06:50 270.0035095 5.024988174 342.1621761 70.51838684
30 07 2018 07:00 232.3117981 4.873614788 305.5471773 66.69750214
30 07 2018 07:10 268.1796875 4.970848083 328.8701042 66.83006287
30 07 2018 07:20 248.7787018 4.863644123 303.1945121 69.47667694
30 07 2018 07:30 254.9382935 4.972809792 329.3478556 64.50726318
30 07 2018 07:40
                 183.1708069 4.444500923 210.3439152 68.46472168
                 198.7129974 4.564305782 235.7365376 69.01938629
30 07 2018 07:50
30 07 2018 08:00
                 167.0278931 4.380957127 197.2184915 68.00776672
30 07 2018 08:10
                 161.6853943 4.365046978 193.9679745 65.07051086
30 07 2018 08:20 214.3350983 4.610575199 245.7787543 59.51779938
30 07 2018 08:30 263.5091858 4.951865196 324.2619283 56.33420944
30 07 2018 08:40 276.7063904 5.031444073 343.7621031 67.26808929
30 07 2018 08:50
                 199.5720978 4.375514984 196.1050425 58.93703842
30 07 2018 09:00
                 178.941803 4.34229517 189.3441325 60.94108963
30 07 2018 09:10 91.04000854 3.734461069 82.65739917 56.84481812
30 07 2018 09:20
                 168.9232941 4.317204952 184.2780239 47.0063591
30 07 2018 09:30
                 47.72214127 3.449982882 46.5982197 50.62958908
                 149.8311005 4.177444935 156.6679984 29.60956955
30 07 2018 09:40
30 07 2018 09:50
                 171.7059021 4.331487179 187.1576177 28.93431091
30 07 2018 10:00
                 91.05207062 3.685753107 75.56468533 29.93881035
30 07 2018 10:10
                 184.2716064 4.427248955 206.7574926 27.27145004
30 07 2018 10:20
                 112.1207962 3.848747969 100.7897841 30.43559074
30 07 2018 10:30
                 332.718689 5.12536478 367.4053061 31.24530983
30 07 2018 10:40
                 243.9113007 4.773073196 282.1457717 38.36719131
30 07 2018 10:50
                 239.3516998 4.452680111 212.0502898 47.87707138
30 07 2018 11:00 287.8705139 4.758817196 278.8846392 49.27602005
30 07 2018 11:10 332.7391968 5.025023937 342.1710302 26.92923927
30 07 2018 11:20 451.401886 5.529035091 477.3912721 33.20518112
30 07 2018 11:30 354.2773132 5.198281765 386.2464517 29.00050926
```

```
30 07 2018 11:40 386.9703064 5.356696129 428.7049751 30.52456093
30 07 2018 11:50 477.5061951 5.798751831 559.1891285 28.43988991
30 07 2018 12:00 577.5236206 5.995849133 623.60011
                                                     27.13281059
30 07 2018 12:10 509.2182922 5.84735918 574.6979232 24.35868073
30 07 2018 12:20 554.4138184 6.011654854 627.9304261 24.22777939
30 07 2018 12:30
                 439.6391907 5.571848869 489.9079546 19.83377075
30 07 2018 12:40
                 435.5452881 5.495512009 467.7097755 19.93738937
                 453.4874878 5.70471096 529.86216
30 07 2018 12:50
                                                     18.78203964
30 07 2018 13:00
                 601.7852173 6.300344944 730.0825125 15.80070972
                 507.8279114 6.014042854 628.7388487 13.0328598
30 07 2018 13:10
30 07 2018 13:20
                 532.8284302 6.031216145 634.5705756 14.58078957
30 07 2018 13:30
                 381.9439087 5.566144943 488.2304761 16.44524956
30 07 2018 13:40
                432.2750854 5.773105145 551.103166 19.88204956
30 07 2018 13:50
                 396.6431885 5.595221996 496.8139106 24.74375916
30 07 2018 14:00 524.6124878 6.013648987 628.6054686 24.98637009
30 07 2018 14:10 779.0297241 6.827919006 940.3690546 26.16485023
30 07 2018 14:20 886.5300293 7.003220081 1017.439021 32.29172897
30 07 2018 14:30
                 1047.680054 7.399848938 1206.658602 32.0656395
30 07 2018 14:40 1236.004028 7.760284901 1395.856447 30.6294899
30 07 2018 14:50
                 1071.660034 7.321148872 1167.371722 36.18827057
30 07 2018 15:00
                 1484.470947 8.451489449 1798.164982 34.42016983
                 1334.927002 8.057979584 1563.372027 36.26145172
30 07 2018 15:10
                 1722.275024 8.81710434 2026.819368 40.30802155
30 07 2018 15:20
30 07 2018 15:30
                 1265.657959 7.822524071 1430.060818 43.21963882
30 07 2018 15:40
                 721.2932129 6.598363876 845.00745
                                                     46.91004181
30 07 2018 15:50 919.3505249 7.048316002 1037.887965 46.74657822
30 07 2018 16:00 735.2109985 6.574428082 835.4132092 49.42063904
30 07 2018 16:10 719.810791 6.528004169 816.9886617 50.15618896
30 07 2018 16:20 764.3469849 6.742646217 904.2271436 51.34790039
30 07 2018 16:30 859.9785767 6.866394997 956.961414 49.99597931
30 07 2018 16:40 813.9014893 6.858932972 953.7294961 52.64693832
30 07 2018 16:50
                 763.5936279 6.671702862 874.8093932 54.90674973
30 07 2018 17:00
                 781.3840942 6.776122093 918.3127225 51.88246918
30 07 2018 17:10 832.8074951 6.903055191 972.9381163 50.81093979
30 07 2018 17:20 818.3250122 6.898013115 970.7309951 52.92913055
30 07 2018 17:30
                 792.0756226 6.913561821 977.5473441 50.8220787
30 07 2018 17:40
                 1129.822998 7.730154991 1379.463267 51.85263824
30 07 2018 17:50
                 1089.823975 7.595898151 1307.779098 55.38182068
30 07 2018 18:00
                 1211.619019 7.811600208 1424.024693 56.10995865
30 07 2018 18:10
                 1069.688965 7.437768936 1225.91452 62.97537994
30 07 2018 18:20 885.9418945 7.06447506 1045.279078 58.57970047
30 07 2018 18:30 854.7351074 6.970925808 1002.954168 57.85541916
30 07 2018 18:40 849.1791992 6.865098 956.3991791 65.36997986
30 07 2018 18:50
                 986.0322266 7.341320992 1177.355644 63.16400146
30 07 2018 19:00
                 1070.342041 7.474562168 1244.805595 67.95398712
30 07 2018 19:10
                 1106.302002 7.621308804 1321.171806 69.17710876
30 07 2018 19:20
                 878.7567139 6.82006216 937.0028088 74.87365723
                 878.4025879 6.686604977 880.9403553 77.90885162
30 07 2018 19:30
30 07 2018 19:40 948.239624 6.809186935 932.3555514 79.30645752
30 07 2018 19:50
                 1137.765015 7.439178944 1226.634688 77.57745361
30 07 2018 20:00
                 871.3994141 6.353466034 749.8545764 79.50631714
30 07 2018 20:10
                 607.8842163 5.541452885 481.0039858 83.06358337
30 07 2018 20:20
                 610.1317139 5.802021027 560.2246392 79.80322266
30 07 2018 20:30
                 500.8616943 5.833425999 570.2276157 84.38900757
30 07 2018 20:40
                 527.4187012 6.235191822 706.2479199 76.62072754
30 07 2018 20:50
                 764.0056763 7.186863899 1102.375697 77.26708984
30 07 2018 21:00 698.2683716 6.647095203 864.7413501 78.3000412
30 07 2018 21:10 233.5549927 4.772192955 281.9440083 78.48092651
30 07 2018 21:20 167.6645966 4.322182178 185.2802775 78.06685638
```

```
30 07 2018 21:30 323.0415955 5.401615143 441.1379376 79.49192047
                 184.4208984 4.726156235 271.465445 74.57176208
30 07 2018 21:40
30 07 2018 21:50
                 136.1446075 4.312204838 183.2725121 80.74687195
30 07 2018 22:00
                 112.725502 3.912197113 111.7585935 78.72132874
30 07 2018 22:10
                 13.87790012 2.887317896 0
                                               81.88374329
30 07 2018 22:20
                 3.93405509 2.523494959 0
                                               90.84594727
30 07 2018 22:30
                 0
                       2.255265951 0
                                         104.8839035
30 07 2018 22:40
                       1.57911694 0
                 0
                                         127.3497009
30 07 2018 22:50
                 0
                       1.478888988 0
                                         72.86457825
30 07 2018 23:00
                 0
                       2.707652092 0
                                         62.11215973
30 07 2018 23:10
                 0
                       2.827061892 0
                                         64.89961243
30 07 2018 23:20
                 0
                       2.183213949 0
                                         59.40243912
30 07 2018 23:30
                       3.483633995 50.18843514 53.62321091
30 07 2018 23:40
                 102.6044006 4.308949947 182.6186866 45.04570007
30 07 2018 23:50 159.1692047 4.400723934 201.2767699 56.93964005
31 07 2018 00:00 511.7359009 6.113629818 662.9952642 63.54257965
31 07 2018 00:10 718.1870728 6.658896923 869.5612625 64.90480042
31 07 2018 00:20 682.3250122 6.470258236 794.4060667 62.29399872
31 07 2018 00:30 824.7734985 6.938950062 988.7414001 59.99890137
31 07 2018 00:40 834.0988159 6.930314064 984.9246935 62.0064888
31 07 2018 00:50
                 1046.957031 7.456418037 1235.463964 64.74817657
31 07 2018 01:00
                 1085.275024 7.553913116 1285.835077 71.05227661
                 1296.241943 7.828344822 1433.282779 69.82478333
31 07 2018 01:10
31 07 2018 01:20
                 1332.597046 8.068412781 1569.413939 72.76264954
31 07 2018 01:30
                 1557.333008 8.52320385 1842.321755 72.02677917
31 07 2018 01:40 1724.458008 9.010077477 2150.489484 70.69759369
31 07 2018 01:50 1841.366943 9.454740524 2440.277754 70.17046356
31 07 2018 02:00 1748.339966 9.136208534 2232.143462 67.56884003
31 07 2018 02:10 1773.706055 9.117609024 2220.068248 63.49803925
31 07 2018 02:20
                 1873.314941 9.259967804 2312.746556 67.7612915
31 07 2018 02:30 2218.335938 10.03147984 2811.520463 68.95340729
31 07 2018 02:40 1896.560059 9.134613991 2231.107819 69.13771057
31 07 2018 02:50
                 2029.286011 9.447176933 2435.314574 68.26303101
31 07 2018 03:00 1894.88501 9.179549217 2260.322478 67.02105713
31 07 2018 03:10 1784.33606 9.08131218 2196.536263 65.93727112
31 07 2018 03:20
                 2146.616943 9.715704918 2602.280818 66.8659668
                 2065.989014 9.614997864 2528.519943 65.48497772
31 07 2018 03:30
31 07 2018 03:40
                 1825.821045 9.053185463 2178.332509 66.11976624
31 07 2018 03:50 1789.514038 8.892832756 2075.14711 67.6672287
31 07 2018 04:00 2077.460938 9.571136475 2495.280075 65.67281342
31 07 2018 04:10 1763.912964 8.887704849 2071.865829 64.35032654
31 07 2018 04:20 1479.322998 8.30228138 1707.558088 59.4058609
31 07 2018 04:30 1855.194946 9.118247032 2220.482273 62.94771957
31 07 2018 04:40 2209.8479
                            9.791410446 2655.435385 61.48461151
                 2022.998047 9.405750275 2408.14295 60.55138016
31 07 2018 04:50
31 07 2018 05:00
                 2077.26001 9.40260601 2406.081563 59.81657028
                 2139.087891 9.443595886 2432.964939 54.09820938
31 07 2018 05:10
31 07 2018 05:20
                 2329.606934 9.970882416 2773.864201 57.57065964
31 07 2018 05:30 2303.964111 9.915802956 2738.62957 58.17449951
31 07 2018 05:40
                 2518.738037 10.47243023 3052.540754 60.03990936
31 07 2018 05:50
                 2256.409912 9.833349228 2684.052958 59.66548157
31 07 2018 06:00 2223.150879 9.776497841 2645.118059 59.54114914
31 07 2018 06:10
                 1984.970947 9.333586693 2360.87128 59.05575943
31 07 2018 06:20
                 1847.902954 9.002326012 2145.490499 57.36948013
31 07 2018 06:30 1918.332031 9.13643837 2232.292745 60.06291962
31 07 2018 06:40 1445.27002 8.215464592 1655.692119 61.79055023
31 07 2018 06:50 1538.697021 8.437998772 1789.900808 55.87778091
31 07 2018 07:00 1930.119995 9.31083107 2345.983927 60.02135086
31 07 2018 07:10 1501.312988 8.357364655 1740.799357 58.74188995
```

```
31 07 2018 07:20 1432.984009 8.151747704 1618.05673 60.17343903
31 07 2018 07:30 1364.895996 7.84361887 1441.755915 59.28974152
31 07 2018 07:40 977.9802856 7.019526005 1024.802955 58.29494858
31 07 2018 07:50 658.7957764 6.278750896 722.1322391 54.0309906
31 07 2018 08:00 695.3007813 6.083878994 652.6504293 53.91812134
31 07 2018 08:10 830.2125244 6.672605991 875.180226 51.3667984
31 07 2018 08:20
                640.8109131 6.132969856 669.7708283 58.18133926
31 07 2018 08:30 910.979187 6.746201992 905.7170409 50.91057968
31 07 2018 08:40 974.8563843 6.837403774 944.4426617 44.65563965
31 07 2018 08:50
                 746.8322754 6.092270851 655.5588364 41.45861053
31 07 2018 09:00 692.4536133 6.188483238 689.4414871 37.05728149
31 07 2018 09:10 1017.439026 7.227774143 1121.910913 32.84798813
31 07 2018 09:20
                857.1621094 6.719842911 894.7075639 33.52851105
31 07 2018 09:30
                905.8707886 6.871254921 959.0699607 22.54463005
31 07 2018 09:40 930.0278931 7.025847912 1027.667133 31.14388084
31 07 2018 09:50 530.1395264 5.891077042 588.8546656 34.6072998
31 07 2018 10:00 836.6104736 6.487709999 801.1918981 35.02273941
31 07 2018 10:10 895.3306274 6.93530798 987.1306405 30.18338966
31 07 2018 10:20 496.8243103 5.53990984 480.5542853 28.72267914
31 07 2018 10:30
                436.7955017 5.36299181 430.4368381 38.5079689
31 07 2018 10:40
                435.7955017 5.665814877 517.9886
                                                     34.38513184
31 07 2018 10:50 594.0192261 6.164029121 680.7357652 31.56315994
31 07 2018 11:00 257.3811951 4.836702824 296.8730083 45.02402115
31 07 2018 11:10 364.4797058 5.451476097 455.1488392 41.40769958
31 07 2018 11:20 437.1184998 5.578292847 491.8067674 34.22808838
31 07 2018 11:30 453.2402039 5.709441185 531.3162568 36.82888031
31 07 2018 11:40 485.2958069 5.852974892 576.5053175 38.73110962
31 07 2018 11:50 479.6994019 5.970855236 615.2052487 36.61732864
31 07 2018 12:00 238.5493011 4.734550953 273.3654782 37.24433136
31 07 2018 12:10 197.4398956 4.55065012 232.7982755 24.32761002
31 07 2018 12:20 388.8493042 5.409760952 443.411704 27.18305016
31 07 2018 12:30
                 194.1439972 4.466423988 214.9264122 24.25675011
31 07 2018 12:40
                 304.6683044 5.058087826 350.3991178 25.87034035
31 07 2018 12:50 524.1777954 6.103552818 659.4807401 29.19068909
31 07 2018 13:00 543.6210938 6.078833103 650.9052721 33.85459137
31 07 2018 13:10 598.1688232 6.238823891 707.5646001 41.65641022
31 07 2018 13:20 840.4129028 6.775290012 917.9610071 48.35634995
31 07 2018 13:30 875.1967163 7.096018791 1059.805048 64.26641846
31 07 2018 13:40 1123.713013 7.524437904 1270.568791 64.60630035
31 07 2018 13:50
                423.1176147 5.612458229 501.9398674 61.55384827
31 07 2018 14:00 1212.521973 7.687069893 1356.213093 59.28659058
31 07 2018 14:10 1660.093018 8.545862198 1856.349713 55.71591949
31 07 2018 14:20 1616.192993 8.45291996 1799.042095 56.65547943
31 07 2018 14:30
                 1890.417969 9.167002678 2252.159298 58.56209183
31 07 2018 14:40
                 1692.978027 8.724807739 1968.321962 58.53023911
31 07 2018 14:50
                 2573.991943 10.60842991 3115.932462 57.63376999
31 07 2018 15:00
                 2686.456055 10.97157001 3262.311653 59.50133133
31 07 2018 15:10
                 2526.943115 10.64286041 3131.214403 60.75817108
31 07 2018 15:20 2186.670898 9.915618896 2738.510198 58.83184814
31 07 2018 15:30
                 1587.668945 8.531813622 1847.647906 56.25582123
31 07 2018 15:40
                 889.1405029 6.869277
                                         958.2114653 55.10150909
31 07 2018 15:50
                 1013.142029 7.08453989 1054.503926 52.23363113
31 07 2018 16:00
                 1190.057983 7.634181976 1327.988289 61.89191818
31 07 2018 16:10
                980.3276978 7.167523861 1093.220055 61.35552979
31 07 2018 16:20 769.4672241 6.730535984 899.1639772 62.24036026
31 07 2018 16:30 876.3228149 6.997500896 1014.864192 65.18559265
31 07 2018 16:40 900.6740723 7.143737793 1082.028875 68.16365051
31 07 2018 16:50 721.4840698 6.56487608 831.6024891 64.95596313
31 07 2018 17:00 809.0438232 6.866267204 956.9060083 64.55563354
```

```
31 07 2018 17:10 879.8104858 7.141740799 1081.092758 60.38563919
31 07 2018 17:20
                988.3634033 7.179947853 1099.095791 57.10969925
31 07 2018 17:30
                 1052.06604 7.396493912 1204.965236 61.32608032
31 07 2018 17:40
                 1111.902954 7.397850037 1205.649505 64.77023315
31 07 2018 17:50
                 1058.228027 7.46707201 1240.943142 67.91457367
                 1080.630981 7.503620148 1259.856796 65.83043671
31 07 2018 18:00
                811.5167847 6.804309845 930.2760401 61.55649185
31 07 2018 18:10
                584.9891968 6.12800312 668.0269736 64.42904663
31 07 2018 18:20
31 07 2018 18:30
                471.3691101 5.819935799 565.9184265 67.08046722
31 07 2018 18:40
                 502.5559998 5.896073818 590.485395 65.85414886
31 07 2018 18:50
                 782.6682739 6.759601116 911.3447235 72.10056305
31 07 2018 19:00
                 673.3834229 6.355465889 750.6049106 69.6810379
31 07 2018 19:10
                 559.6046753 6.244728088 709.7079858 73.1161499
31 07 2018 19:20
                493.8068848 5.435515881 450.6397474 78.21353149
31 07 2018 19:30 478.987793 5.413926125 444.576626 77.89703369
31 07 2018 19:40 372.3587036 4.856656075 301.5498679 79.69741058
31 07 2018 19:50
                 376.4979858 5.299670219 413.1747137 76.10904694
31 07 2018 20:00 253.1331024 5.393933773 438.9992131 70.42769623
31 07 2018 20:10 358.9164124 5.62459898 505.567496 65.35030365
31 07 2018 20:20 359.3794861 5.593418121 496.2790836 73.88295746
31 07 2018 20:30 307.9845886 5.386664867 436.9801459 71.16233063
31 07 2018 20:40 314.5143127 5.490064144 466.1462103 65.07449341
31 07 2018 20:50 424.7441101 5.769127846 549.8551401 63.64411926
31 07 2018 21:00
                 284.1404114 5.160571098 376.4484467 64.27039337
31 07 2018 21:10
                 160.6840973 4.529907227 228.3570253 46.41584015
31 07 2018 21:20 276.4784851 5.379251957 434.9258878 46.15047836
31 07 2018 21:30 369.5570068 5.555195808 485.0189999 53.4468689
31 07 2018 21:40 508.5963135 6.106650829 660.5600688 55.36058044
31 07 2018 21:50 487.4663086 6.063561916 645.6401976 57.29489136
31 07 2018 22:00 628.3389282 6.402266026 768.2883166 53.86788177
31 07 2018 22:10 677.6766968 6.543635845 823.1655391 63.48432159
31 07 2018 22:20 666.2399292 6.49571991 804.3177086 63.07183075
31 07 2018 22:30
                 553.0230713 6.230288982 704.4728126 71.06963348
31 07 2018 22:40
                 344.8510132 5.231945992 395.0919874 75.66172791
31 07 2018 22:50 413.9870911 5.792531013 557.2216948 74.81800079
                 744.9525146 6.778625011 919.3711843 71.7840271
31 07 2018 23:00
31 07 2018 23:10 846.5944214 7.025866032 1027.675349 72.14002228
31 07 2018 23:20 614.6087036 6.45451498 788.3134184 75.32021332
31 07 2018 23:30 743.565918 6.818586826 936.3715312 72.61496735
31 07 2018 23:40 923.7393188 7.251821995 1133.501859 70.9176178
31 07 2018 23:50 967.876709 7.32997179 1171.731289 71.06961823
01 08 2018 00:00 1096.728027 7.578811169 1298.820474 71.82769775
01 08 2018 00:10 1198.43396 7.944087982 1498.142538 67.56918335
01 08 2018 00:20
                 1083.240967 7.886631012 1465.758671 66.01464081
01 08 2018 00:30
                 1025.68103 7.518247128 1267.377149 70.24141693
                 1089.70105 7.607592106 1313.932056 72.07171631
01 08 2018 00:40
01 08 2018 00:50
                 1040.552002 7.549553871 1283.56997 69.23433685
                 1105.849976 7.746491909 1388.338359 66.67082977
01 08 2018 01:00
01 08 2018 01:10 1197.269043 8.161893845 1624.024513 65.78984833
01 08 2018 01:20
                 1282.817993 8.090612411 1582.305841 70.81247711
01 08 2018 01:30
                 1197.319946 7.865622044 1454.008669 71.46608734
01 08 2018 01:40
                 1069.784058 7.626755238 1324.053166 69.16782379
01 08 2018 01:50
                 946.3237915 7.279154778 1146.774201 67.70292664
01 08 2018 02:00
                 1108.718018 7.847957134 1444.167387 60.76882935
01 08 2018 02:10
                 1004.171021 7.562007904 1290.047888 66.72557068
01 08 2018 02:20 1092.53894 7.620320797 1320.649522 66.78977203
01 08 2018 02:30 1140.512939 7.881621838 1462.952634 64.59272766
01 08 2018 02:40 1170.998047 7.884377003 1464.495675 65.7723465
01 08 2018 02:50 1119.406982 7.922451019 1485.905182 56.7781105
```

```
01 08 2018 03:00 1036.970947 7.678152084 1351.429333 65.05734253
01 08 2018 03:10 985.5490112 7.557855129 1287.885556 55.57172012
01 08 2018 03:20
                921.3444824 7.307291985 1160.547328 54.35610962
01 08 2018 03:30 883.9332275 7.084157944 1054.327835 48.39495087
01 08 2018 03:40 966.1403198 7.231235027 1123.574098 44.77310181
01 08 2018 03:50
                 839.9719238 6.930171013 984.8615496 46.31219864
01 08 2018 04:00
                 1038.180054 7.48220396 1248.755104 48.63882065
                 839.4666138 6.957141876 996.8117202 52.08084869
01 08 2018 04:10
01 08 2018 04:20
                 707.5465088 6.623683929 855.2271455 52.80059814
01 08 2018 04:30
                 590.5767212 6.191267014 690.4365766 49.79605103
01 08 2018 04:40
                 308.651886 5.394981861 439.290724 38.54970932
01 08 2018 04:50
                 412.4154968 5.740777969 541.0052947 43.8804512
01 08 2018 05:00
                 185.7624054 4.580248833 239.1816207 43.45862961
01 08 2018 05:10
                 230.186203 4.719717979 270.0114428 40.1344986
01 08 2018 05:20 529.9990234 6.097581863 657.4033877 43.99599075
01 08 2018 05:30
                 318.699585 5.178734779 381.1532337 40.34445953
01 08 2018 05:40
                 273.8287964 4.869434834 304.5600116 34.2797699
01 08 2018 05:50 688.0548096 6.515312195 811.9934708 49.5802002
01 08 2018 06:00 621.6312256 6.141654968 672.8265675 60.20267105
01 08 2018 06:10 505.1365051 5.822099209 566.6082322 55.30913925
01 08 2018 06:20 827.2584229 7.005055904 1018.266406 66.43950653
01 08 2018 06:30 804.5927124 6.823636055 938.5331165 58.19075012
01 08 2018 06:40
                 657.6749878 6.288653851 725.771963 51.29124832
01 08 2018 06:50
                 1114.661987 7.530683994 1273.794171 50.70761871
01 08 2018 07:00 840.8419189 6.911483765 976.6346278 59.774189
01 08 2018 07:10 641.1428223 6.145930767 674.3339119 53.29701996
01 08 2018 07:20 527.1549072 5.583906174 493.4640148 55.68347168
                 1140.517944 7.087184906 1055.723901 35.66371918
01 08 2018 07:30
01 08 2018 07:40 796.6085815 6.336619854 743.5512123 34.73699951
01 08 2018 07:50
                 1553.724976 8.489222527 1821.35175 32.75098038
01 08 2018 08:00 951.1834717 6.862782955 955.396139 40.1809082
01 08 2018 08:10
                 1070.505981 7.266795158 1140.759585 35.23239136
01 08 2018 08:20
                 1098.765991 7.101819038 1062.490269 38.26438904
01 08 2018 08:30
                 1332.397949 7.68539381 1355.313242 29.50601006
01 08 2018 08:40 855.020874 6.739946842 903.0970745 38.58140945
                 704.300415 6.247378826 710.6714946 31.86215019
01 08 2018 08:50
01 08 2018 09:00
                 621.2811279 6.079100132 650.9975577 25.97097015
01 08 2018 09:10
                 789.869812 6.726477146 897.4708563 25.62902069
01 08 2018 09:20
                 708.1196899 6.312195778 734.4670198 29.81888962
01 08 2018 09:30
                 274.5281982 4.926661968 318.1851626 32.65419006
01 08 2018 09:40
                 311.9054871 5.019802094 340.8792593 27.58694077
01 08 2018 09:50 426.9547119 5.443205833 452.8094504 35.64471054
01 08 2018 10:00
                 201.4835052 4.460519791 213.6895071 29.06352043
01 08 2018 10:10 459.4346924 5.837712765 571.6008504 22.54548073
01 08 2018 10:20 637.8422241 6.30709219 732.5769619 17.73715019
                 398.8770142 5.558619022 486.0218484 22.77613068
01 08 2018 10:30
                 469.2414856 5.814558983 564.2060947 22.21190071
01 08 2018 10:40
                             6.280183792 722.6582303 22.72709084
01 08 2018 10:50
                 595.28302
01 08 2018 11:00
                 554.1923828 6.125720978 667.2265819 20.13027954
01 08 2018 11:10
                 686.8012695 6.55068779 825.961071 19.02359009
01 08 2018 11:20
                 655.9987793 6.460296154 790.5475603 20.91374969
01 08 2018 11:30
                 620.6729126 6.389619827 763.4864212 18.2074604
01 08 2018 11:40
                 544.5667114 5.973618984 616.1302284 18.45041084
01 08 2018 11:50
                 566.3635254 6.142309189 673.0570728 19.30616951
01 08 2018 12:00
                 533.6481934 6.008560181 626.8836773 15.88105965
01 08 2018 12:10
                 387.2406921 5.494007111 467.2775897 17.25522041
01 08 2018 12:20 275.2161865 5.052598953 349.0273276 18.21550941
01 08 2018 12:30 308.0762939 5.145922184 372.6735702 15.56945992
01 08 2018 12:40 284.9978027 5.003105164 336.7628022 15.45086956
```

```
01 08 2018 12:50 455.0747986 5.770697117 550.3473672 11.71722984
                 347,2915039 5,357000828 428,7887141 18,40634918
01 08 2018 13:00
                 278.494812 4.940776825 321.5826076 22.17251968
01 08 2018 13:10
01 08 2018 13:20
                 319.9866028 5.265781879 404.0778981 20.25461006
                 527.3521118 6.092178822 655.5269005 18.8418808
01 08 2018 13:30
01 08 2018 13:40
                 657.7484131 6.473880768 795.8118594 18.93219948
01 08 2018 13:50
                 653.4279175 6.373645782 757.44584
                                                      23.2614994
                 831.1254883 6.903477192 973.1229849 22.54203987
01 08 2018 14:00
01 08 2018 14:10
                 827.5327148 6.844553947 947.5207488 24.32509041
                 813.2041016 6.868381023 957.8227326 26.07439995
01 08 2018 14:20
01 08 2018 14:30
                 779.8986206 6.756235123 909.9290072 26.86356926
01 08 2018 14:40
                 742.2684937 6.558303833 828.9864834 31.78280067
01 08 2018 14:50
                 998.9182129 7.270743847 1142.678815 36.33192062
01 08 2018 15:00
                 1062.301025 7.365768909 1189.534853 39.51673889
01 08 2018 15:10
                 946.9036255 7.101096153 1062.155368 37.73207855
01 08 2018 15:20
                 1169.973999 7.682472229 1353.745544 40.3992691
01 08 2018 15:30
                 1002.164978 7.293976784 1154.015543 39.1221199
01 08 2018 15:40
                 954.9266968 7.137628078 1079.166546 37.04093933
01 08 2018 15:50
                 875.3505249 7.098724842 1061.057262 41.12540054
01 08 2018 16:00
                 1068.884033 7.389966011 1201.675218 39.645401
                 1060.837036 7.500110149 1258.05647 39.72774887
01 08 2018 16:10
                 1192.062988 7.642776966 1332.551192 40.117939
01 08 2018 16:20
01 08 2018 16:30
                 982.3792114 7.257565975 1136.282346 41.58557892
01 08 2018 16:40
                 807.588623 6.883616924 964.4463588 42.45306015
                 1006.294983 7.337997913 1175.70689 44.25415039
01 08 2018 16:50
01 08 2018 17:00
                 1138.838989 7.606197834 1313.197509 46.22172165
01 08 2018 17:10
                 1278.501953 7.860429764 1451.112341 47.00270844
01 08 2018 17:20
                 1031.380981 7.436168194 1225.097296 51.76757813
                 1093.012939 7.492747784 1254.219223 48.02148056
01 08 2018 17:30
                 964.1959839 7.165019989 1092.038415 46.60289001
01 08 2018 17:40
01 08 2018 17:50 936.953186 7.138979912 1079.799435 48.82302094
01 08 2018 18:00
                 1068.353027 7.416322231 1214.997378 48.02322006
01 08 2018 18:10
                 1207.067017 7.721932888 1375.008805 50.65106964
01 08 2018 18:20
                 1244.18396 7.838383198 1438.848467 50.90288925
                 1314.985962 7.964179039 1509.550675 52.87850952
01 08 2018 18:30
                  1206.399048 7.673233986 1348.795364 51.5246315
01 08 2018 18:40
                 1362.592041 8.101424217 1588.602105 57.44184875
01 08 2018 18:50
01 08 2018 19:00
                 1444.79895 8.282732964 1695.822347 55.09548187
01 08 2018 19:10
                 1380.246948 8.092762947 1583.557295 54.25703812
01 08 2018 19:20
                 1435.521973 8.372623444 1750.05162 57.04209137
01 08 2018 19:30
                 1077.850952 7.407838821 1210.69803 58.54841995
                 799.8140259 6.790133953 924.247771 62.29026031
01 08 2018 19:40
01 08 2018 19:50
                 705.8679199 6.64112711 862.3100074 65.43215179
01 08 2018 20:00
                 563.8383789 6.172885895 683.8814037 64.16655731
01 08 2018 20:10
                 403.9671021 5.517049789 473.9179742 66.85198975
01 08 2018 20:20
                 546.2327271 5.931661129 602.1753642 64.37123108
01 08 2018 20:30
                 406.4504089 5.360704899 429.8073363 71.6888504
                 624.7174072 6.421244144 775.5273117 71.95645905
01 08 2018 20:40
                 1179.006958 7.777923107 1405.503488 69.22868347
01 08 2018 20:50
01 08 2018 21:00
                 1187.848022 7.863616943 1452.889835 72.48195648
01 08 2018 21:10
                 983.2346802 6.969883919 1002.489044 76.24878693
01 08 2018 21:20
                 1890.500977 9.472053528 2451.640738 71.68930054
01 08 2018 21:30
                 1861.876953 9.289808273 2332.239473 70.97566986
01 08 2018 21:40
                 1994.129028 9.633946419 2542.668952 71.74022675
01 08 2018 21:50
                 1782.552002 9.243797302 2302.191959 68.00428009
01 08 2018 22:00
                 1305.072021 8.102710724 1589.352064 69.69724274
01 08 2018 22:10
                 1029.786987 7.463563919 1239.137072 69.23419952
01 08 2018 22:20 1050.36499 7.539570808 1278.392187 71.32446289
01 08 2018 22:30 1054.936035 7.576251984 1297.48199 71.99262238
```

```
01 08 2018 22:40 1147.442993 7.745461941 1387.777875 69.94023132
01 08 2018 22:50
                 1116.198975 7.770980835 1401.702073 62.90272903
                 1356.51001 8.170117378 1628.868527 61.66545105
01 08 2018 23:00
01 08 2018 23:10
                 1444.053955 8.197009087 1644.752673 63.90618896
01 08 2018 23:20
                 1318.536987 8.016281128 1539.333992 70.99993896
01 08 2018 23:30
                 1492.848999 8.351307869 1737.132011 69.03894806
01 08 2018 23:40
                 1628.54895 8.868583679 2059.641452 66.29625702
                 1816.63501 9.17930603 2260.16421 67.13313293
01 08 2018 23:50
02 08 2018 00:00
                 1867.536987 9.346508026 2369.329118 65.1652298
                 2049.043945 9.471538544 2451.302696 62.77793884
02 08 2018 00:10
02 08 2018 00:20
                 1892.525024 9.346609116 2369.3953
                                                     66.23745728
02 08 2018 00:30 2082.799072 9.622141838 2533.869263 61.76065063
02 08 2018 00:40
                 1820.743042 9.049850464 2176.175973 59.46899033
02 08 2018 00:50
                 1497.869019 8.526986122 1844.660892 57.75098038
02 08 2018 01:00 1262.905029 7.920391083 1484.74278 57.92079926
02 08 2018 01:10
                 1224.519043 7.930822849 1490.634077 52.48757935
02 08 2018 01:20
                 1254.399048 8.052122116 1559.984721 51.67654037
02 08 2018 01:30
                 1171.083008 7.890342236 1467.839423 49.71807861
02 08 2018 01:40 1223.699951 7.857367992 1449.405867 48.24515915
                 1299.749023 8.021100044 1542.102907 43.39891815
02 08 2018 01:50
                 1125.348022 7.65588522 1339.528126 44.14529037
02 08 2018 02:00
02 08 2018 02:10 884.6898193 7.05008316 1038.694612 42.01382065
                 955.6237793 7.25612402 1135.583905 42.21186066
02 08 2018 02:20
02 08 2018 02:30
                 1147.942017 7.626728058 1324.038777 38.4076004
02 08 2018 02:40
                 1154.197021 7.612079144 1316.297674 29.61961937
02 08 2018 02:50
                 1055.661987 7.571812153 1295.161943 35.51364136
02 08 2018 03:00 915.4874268 7.145555019 1082.881188 33.70544815
02 08 2018 03:10 960.3967285 7.285464764 1149.853165 37.00780869
                 1238.640991 7.884840965 1464.755602 36.11407089
02 08 2018 03:20
                 1317.905029 7.957015038 1505.477851 36.21781158
02 08 2018 03:30
02 08 2018 03:40
                 1118.824951 7.490913868 1253.267602 35.65097046
02 08 2018 03:50 836.2188721 7.020212173 1025.11358 37.850811
02 08 2018 04:00
                 778.5579224 6.845970154 948.1311452 40.45460129
02 08 2018 04:10 859.0521851 7.055658817 1041.242357 44.70909119
                 969.9404907 7.342201233 1177.792646 45.02164078
02 08 2018 04:20
02 08 2018 04:30
                 901.8673706 7.072823048 1049.110706 44.75120163
                 830.2769165 6.90920496 975.6343516 37.43706894
02 08 2018 04:40
02 08 2018 04:50
                 1017.54303 7.291901112 1152.999592 42.64377975
02 08 2018 05:00
                 741.2263184 6.554276943 827.386023 42.29222107
02 08 2018 05:10
                 708.1699219 6.369791985 755.9926885 46.75912094
02 08 2018 05:20
                 755.6146851 6.687603951 881.3522655 48.41125107
02 08 2018 05:30 781.281311 6.484545231 799.958829 38.89524078
02 08 2018 05:40 826.9077759 6.792616844 925.3018877 45.62585831
02 08 2018 05:50 639.0501709 6.140485764 672.4147289 55.3237381
02 08 2018 06:00
                 687.5551147 6.113706112 663.0219144 43.84189987
                 535.4921265 5.880152225 585.2983678 44.38249969
02 08 2018 06:10
02 08 2018 06:20
                 776.3795166 6.533585072 819.1908288 33.73960114
02 08 2018 06:30
                 834.7410278 6.622014999 854.5512886 32.59371185
02 08 2018 06:40
                 650.9091797 6.131457806 669.2396579 37.24536896
02 08 2018 06:50
                 787.617981 6.413197041 772.4530193 39.86645126
02 08 2018 07:00
                 860.3131714 6.767718792 914.7644618 43.97098923
02 08 2018 07:10
                 593.7813721 6.111499786 662.2514753 50.65536118
02 08 2018 07:20
                 884.6016235 6.813681126 934.2743162 58.5159111
02 08 2018 07:30
                 454.3774109 5.437852859 451.2985575 54.58657074
02 08 2018 07:40
                 660.0916748 6.15798521 678.5939821 45.13356018
02 08 2018 07:50 586.7581177 6.049908161 640.9538662 42.11360931
02 08 2018 08:00 649.4180298 6.215415955 699.1037137 38.81002045
02 08 2018 08:10 540.0463257 5.671738148 519.7872101 39.80200958
02 08 2018 08:20 978.3175049 6.939670086 989.0600357 34.55321884
```

```
02 08 2018 08:30 741.9255981 6.319867134 737.3133196 36.55651855
                 913.8983765 6.917738914 979.3836039 36.9296608
02 08 2018 08:40
                 1020.69397 7.02487278 1027.225009 32.72354126
02 08 2018 08:50
02 08 2018 09:00 1177.496948 7.400228977 1206.850523 31.07593918
02 08 2018 09:10 1022.406006 7.165987015 1092.494678 34.03290939
02 08 2018 09:20 1418.873047 8.06872654 1569.595807 30.45763969
02 08 2018 09:30 1138.082031 7.466476917 1240.636638 26.98986053
                 1773.139038 8.797242165 2014.191843 28.24151039
02 08 2018 09:40
                 1380.449951 8.042709351 1554.548668 23.96869087
02 08 2018 09:50
                 1547.530029 8.402860641 1768.441048 20.32361984
02 08 2018 10:00
02 08 2018 10:10
                 1318.359985 7.983032227 1520.294955 26.20088959
02 08 2018 10:20 1286.05603 7.904684067 1475.894726 25.92439079
02 08 2018 10:30 1039.838013 7.335002899 1174.222274 23.86552048
02 08 2018 10:40 1312.965942 7.95603323 1504.920108 25.32302094
02 08 2018 10:50 1413.541016 8.13171196 1606.30063 26.13113022
02 08 2018 11:00 1514.270996 8.459313393 1802.964078 25.97184944
02 08 2018 11:10
                 1244.515991 7.747188091 1388.717278 25.23184967
02 08 2018 11:20 2038.607056 9.482889175 2458.753976 25.5682106
02 08 2018 11:30 1162.301025 7.944093227 1498.145511 29.9200592
02 08 2018 11:40 0
                       9.85953331 2701.624967 12.3025198
02 08 2018 12:00 0
                       7.634412766 1328.110688 0
02 08 2018 12:10 0
                       7.930507183 1490.455632 0
02 08 2018 12:20 1242.092041 9.647204399 2552.493683 32.54639816
02 08 2018 12:30
                 2589.782959 10.56153965 3094.626762 30.42019081
02 08 2018 12:40 2881.668945 10.94598007 3253.033974 28.49629021
02 08 2018 12:50 2501.238037 10.33469963 2983.252644 28.84489059
02 08 2018 13:00 2408.388916 9.957526207 2765.40895 30.9252491
02 08 2018 13:10 2637.952881 10.50677967 3069.014403 31.9740696
02 08 2018 13:20 3084.361084 11.42543983 3402.844737 31.86096954
02 08 2018 13:30 2991.240967 11.07903957 3299.640317 31.69996071
02 08 2018 13:40 3010.218018 11.20259953 3339.379918 32.01496887
02 08 2018 13:50 3365.879883 12.37370014 3568.460852 33.58076859
02 08 2018 14:00 3208.407959 11.49542046 3420.686243 31.64398956
02 08 2018 14:10 3497.564941 12.44711971 3574.964535 28.97401047
02 08 2018 14:20 3473.522949 12.08922958 3535.148673 29.65011024
                 3325.643066 11.94042969 3512.381479 31.88559914
02 08 2018 14:30
02 08 2018 14:40 546.6793213 10.44777012 3040.517831 31.63168907
02 08 2018 14:50 0
                       10.65606976 3136.996721 30.1875
02 08 2018 15:00 0
                       10.08514023 2843.913695 30.3654995
02 08 2018 15:10 0
                       10.46930027 3051.023878 30.69112968
02 08 2018 15:20 0
                       10.62174034 3121.876435 28.62966919
02 08 2018 15:30 0
                       10.3721199 3002.597168 36.81848907
02 08 2018 15:40 0
                       10.26422977 2945.747331 34.75024033
02 08 2018 15:50 0
                       10.89593029 3234.447281 33.34434891
02 08 2018 16:00 1595.092041 13.6844101 3600 36.57558823
02 08 2018 16:10
                 3585.072998 13.8331604 3600 34.67219162
                 3530.698975 13.05860043 3600 32.70555115
02 08 2018 16:20
02 08 2018 16:30
                 3558.498047 12.92881966 3597.477346 35.83546066
02 08 2018 16:40 3427.00708 12.19149971 3548.638128 34.03834152
02 08 2018 16:50
                 3373.50293 11.96317959 3516.108
                                                     35.90589142
02 08 2018 17:00
                 3271.865967 12.04104996 3528.189508 37.01496887
02 08 2018 17:10
                 3036.708008 11.2498703 3353.709586 39.97758865
02 08 2018 17:20
                 2881.271973 10.75675011 3179.622508 40.78752899
02 08 2018 17:30 3050.649902 10.89647007 3234.650873 41.44343185
02 08 2018 17:40 3537.477051 13.32800961 3600 45.50267029
02 08 2018 17:50 3433.945068 12.19532967 3549.109842 40.7150116
02 08 2018 18:00 3558.900879 12.86740971 3596.498957 42.11555862
02 08 2018 18:10 3248.522949 11.49433041 3420.415771 42.22443008
02 08 2018 18:20 1664.35498 10.31754971 2974.255273 47.48976135
```

```
02 08 2018 18:30 0
                       8.358778
                                   1741.655558 43.73575974
02 08 2018 18:40 2458.569092 11.24847984 3353.294866 49.02906036
02 08 2018 18:50 3479.196045 12.86165047 3596.379436 51.25067902
02 08 2018 19:00 477.6086121 9.939340591 2753.805238 53.12482834
02 08 2018 19:10 0
                       10.49787998 3064.776574 53.7274704
02 08 2018 19:20 2817.968018 12.00741005 3523.097565 51.65431976
                 3242.629883 11.84679985 3496.091437 54.41873932
02 08 2018 19:30
                 2840.111084 11.13591003 3318.346223 56.90103912
02 08 2018 19:40
02 08 2018 19:50 2388.322021 10.00137997 2792.959726 54.61227036
02 08 2018 20:00
                 2558.071045 10.3608799 2996.827822 53.1817894
02 08 2018 20:10 2222.391113 9.438445091 2429.585606 54.13486862
02 08 2018 20:20 2580.26709 10.36538029 2999.142046 50.32773972
02 08 2018 20:30 2771.0979
                             11.07271957 3297.517238 54.82513046
02 08 2018 20:40 2362.918945 9.82135582 2675.928725 48.80828857
02 08 2018 20:50 2406.149902 10.06280041 2830.535413 49.11772919
02 08 2018 21:00 3027.068115 11.42428017 3402.540855 51.7262001
02 08 2018 21:10 2522.322021 10.28195
                                       2955.311865 49.89770126
02 08 2018 21:20 2815.134033 10.98960018 3268.757785 52.43003082
02 08 2018 21:30 2536.198975 10.31610012 2973.490961 51.28527832
02 08 2018 21:40 2254.270996 9.922855377 2743.195205 52.11545944
02 08 2018 21:50 2403.037109 10.20333004 2912.183074 51.26723099
02 08 2018 22:00 2574.059082 10.53090954 3080.398275 53.74111176
02 08 2018 22:10 2222.695068 9.774534225 2643.753963 48.23059082
02 08 2018 22:20 1917.630981 9.158916473 2246.900591 55.32064056
02 08 2018 22:30 2106.510986 9.488099098 2462.1745
                                                     53.36188889
02 08 2018 22:40 1676.595947 8.44990921 1797.196243 43.86463928
02 08 2018 22:50 2058.468018 9.22021389 2286.810417 46.30469131
02 08 2018 23:00 2039.06604 9.263689041 2315.176307 45.3865509
02 08 2018 23:10 1909.552979 9.035075188 2166.62668 43.12200928
02 08 2018 23:20 2111.899902 9.593912125 2512.625819 44.72605133
02 08 2018 23:30 1935.678955 9.182779312 2262.424813 45.99888992
02 08 2018 23:40 1940.005005 9.156429291 2245.283491 45.05031967
02 08 2018 23:50 2164.147949 9.344780922 2368.198443 33.72777939
03 08 2018 00:00 1841.552002 8.896857262 2077.723202 38.77338028
03 08 2018 00:10 2258.468994 9.440462112 2430.908896 38.34004974
03 08 2018 00:20
                 2130.202881 9.307961464 2344.107276 37.39376831
03 08 2018 00:30 2067.811035 8.92304039 2094.501304 37.27873993
03 08 2018 00:40 2137.511963 9.188643456 2266.242294 44.25130844
03 08 2018 00:50 1866.07605 8.818146706 2027.482628 45.61991882
03 08 2018 01:00 2379.731934 9.786010742 2651.708199 36.17778015
03 08 2018 01:10 1665.043945 8.358810425 1741.675202 41.9961586
03 08 2018 01:20 1399.067017 7.840325832 1439.926876 45.53429031
03 08 2018 01:30 1385.430054 7.817383766 1427.218755 46.57120895
03 08 2018 01:40 1713.400024 8.540477753 1853.012921 45.52053833
03 08 2018 01:50 1642.759033 8.348256111 1735.285323 49.72011185
03 08 2018 02:00 1399.484009 7.776587009 1404.771431 48.47919083
03 08 2018 02:10 1965.475952 9.012029648 2151.74883 48.50194931
03 08 2018 02:20 1641.453979 8.451980591 1798.466107 49.46455002
03 08 2018 02:30 1373.725952 7.984664917 1521.227175 55.76105118
03 08 2018 02:40
                 1879.390015 8.685910225 1943.812892 44.13414001
03 08 2018 02:50
                 1661.227051 8.146231651 1614.816354 42.90386963
03 08 2018 03:00
                 1663.761963 7.962759018 1508.742942 43.22512054
03 08 2018 03:10
                 1912.532959 8.814915657 2025.426888 38.60195923
03 08 2018 03:20
                 1563.921997 8.171283722 1629.556064 49.31396103
03 08 2018 03:30
                 1726.442017 8.73336792 1973.72751 52.7273407
03 08 2018 03:40 1377.980957 7.929516792 1489.895839 57.37796021
03 08 2018 03:50 1570.159058 8.313306808 1714.191419 38.50511932
03 08 2018 04:00 1515.707031 8.184814453 1637.541395 49.30234909
03 08 2018 04:10 1719.078979 8.436858177 1789.202729 48.71680832
```

```
03 08 2018 04:20
                 1181.197021 7.363386154 1188.344005 54.62324905
                 1427.026978 7.725705147 1377.051469 34.08119965
03 08 2018 04:30
                 1485.156982 8.002230644 1531.27436 45.06357956
03 08 2018 04:40
03 08 2018 04:50 1957.957031 8.875153542 2063.839665 35.90118027
03 08 2018 05:00 1853.41394 8.754281998 1986.951754 30.20083046
03 08 2018 05:10 2096.35791 9.124219894 2224.358906 31.24570084
03 08 2018 05:20
                 1974.057983 9.221966743 2287.953175 32.76491165
03 08 2018 05:30
                 1940.084961 8.848982811 2047.128775 29.53178024
03 08 2018 05:40
                 1877.631958 8.966453552 2122.387698 33.58349991
                 1584.795044 8.30742836 1710.653438 35.54309082
03 08 2018 05:50
03 08 2018 06:00
                 1607.005005 8.418210983 1777.804181 34.94691086
03 08 2018 06:10
                 1792.475952 8.67777729 1938.699753 31.91576004
03 08 2018 06:20
                 1824.692993 8.754026413 1986.789996 32.03602982
03 08 2018 06:30
                 1504.631958 8.233437538 1666.375065 32.07685089
03 08 2018 06:40
                 1350.671997 7.862822056 1452.446418 31.5656395
03 08 2018 06:50
                 1166.993042 7.648186207 1335.427654 30.89757919
03 08 2018 07:00
                 1281.784058 7.644124985 1333.267679 23.83523941
03 08 2018 07:10
                 1050.432007 7.199103832 1108.196397 32.96923065
03 08 2018 07:20
                 785.3001709 6.625628948 856.0152085 38.13227081
03 08 2018 07:30
                 926.6652222 6.992396832 1012.569801 30.36257935
03 08 2018 07:40
                 1289.968018 7.729069233 1378.874569 32.65792084
                 796.1900024 6.773787975 917.326313 39.61270142
03 08 2018 07:50
03 08 2018 08:00
                 610.6826172 6.176334858 685.1086345 32.2466507
03 08 2018 08:10
                 606.1796875 6.004580975 625.5392477 23.60062981
03 08 2018 08:20
                 696.7874146 6.458926201 790.0178072 29.25271988
03 08 2018 08:30 674.1704102 6.416636944 773.7663222 25.5164299
03 08 2018 08:40 884.3806763 6.857672215 953.1841099 26.95989037
03 08 2018 08:50
                 707.5067139 6.375328064 758.0806847 32.93172073
                 1037.946045 7.131270885 1076.193567 27.66496086
03 08 2018 09:00
                 829.1655273 6.842362881 946.5768583 29.25819016
03 08 2018 09:10
03 08 2018 09:20
                 764.6505127 6.585153103 839.7041465 26.53336906
03 08 2018 09:30
                 788.640686 6.68510294 880.3212324 23.31731987
03 08 2018 09:40
                 476.8687134 5.562451839 487.1459978 29.88656998
03 08 2018 09:50
                 570.5615845 6.031446934 634.649162 29.47670937
                 670.8386841 6.288763046 725.8121557 30.42704964
03 08 2018 10:00
03 08 2018 10:10
                 790.6557007 6.789203167 923.8527925 28.96538925
03 08 2018 10:20
                 930.9348145 7.149570942 1084.766298 29.18428993
03 08 2018 10:30
                 764.7960815 6.598875999 845.213433 23.30566025
03 08 2018 10:40
                 630.9309082 6.218303204 700.1441417 26.0345192
                 457.093811 5.751967907 544.4887907 22.3607502
03 08 2018 10:50
03 08 2018 11:00 604.357605 6.180930138 686.7457331 22.82345963
03 08 2018 11:10 627.8756104 6.182260036 687.2199401 24.33068085
03 08 2018 11:20
                 838.8305054 6.857215881 952.986754 22.25443077
03 08 2018 11:30
                 780.2929077 6.610802174 850.0187089 18.95965958
03 08 2018 11:40
                 930.7645264 7.06707716 1046.472438 20.20826912
03 08 2018 11:50
                 952.5560303 7.038384914 1033.362258 20.86039925
03 08 2018 12:00
                 1230.900024 7.785509109 1409.663907 17.37933922
                 1630.555054 8.653349876 1923.366594 25.79417038
03 08 2018 12:10
                 1658.787964 8.494804382 1824.79064 25.95513916
03 08 2018 12:20
03 08 2018 12:30
                 2289.851074 9.753279686 2628.90554 23.77846909
03 08 2018 12:40
                 2500.38208 10.30321026 2966.668375 27.32908058
03 08 2018 12:50
                 2201.275879 9.392787933 2399.645722 27.12535095
03 08 2018 13:00
                 2885.583008 11.0514698 3290.313247 27.83982086
03 08 2018 13:10
                 2543.176025 10.20921993 2915.476517 27.71244049
03 08 2018 13:20
                 3215.860107 11.81330013 3489.885578 29.50304031
03 08 2018 13:30
                 3200.866943 11.47947025 3416.705214 27.47908974
03 08 2018 13:40
                 3021.543945 11.31634045 3373.060928 26.0240593
03 08 2018 13:50 3482.761963 12.58897018 3585.180843 25.73579025
03 08 2018 14:00 3574.014893 13.06044006 3600 27.8026104
```

```
03 08 2018 14:10 3483.660889 13.05572033 3600 28.62586975
03 08 2018 14:20 2446.175049 11.6157198 3449.116161 26.86770058
                       9.334100723 2361.207687 29.76925087
03 08 2018 14:30 0
03 08 2018 14:40 0
                       9.223410606 2288.894549 38.0112381
03 08 2018 14:50 0
                       9.303679466 2341.307266 35.45909882
03 08 2018 15:00 0
                       6.957115173 996.7998439 40.62577057
03 08 2018 15:30 0
                       11.12008953 3313.214206 0
03 08 2018 15:40 770.7443237 10.29582977 2962.740602 37.74684143
03 08 2018 15:50 2530.454102 9.965147972 2770.240895 44.65427017
03 08 2018 16:00 3154.448975 11.5148201 3425.460804 44.90591812
03 08 2018 16:10 2907.711914 10.8222599 3206.010161 45.76773834
03 08 2018 16:20 2727.930908 10.23871994 2931.819206 46.90747833
03 08 2018 16:30 2800.447021 10.64124966 3130.506255 38.67367935
03 08 2018 16:40 2581.212891 10.11487007 2861.48149 42.5755806
03 08 2018 16:50 3404.626953 12.58843994 3585.148339 42.74911118
03 08 2018 17:00 3479.833984 12.56602955 3583.735867 42.47455978
03 08 2018 17:10 3592.204102 14.00352001 3600 41.81845093
03 08 2018 17:20 3555.314941 13.00572968 3600 44.42176056
03 08 2018 17:30 3556.25293 12.61295033 3586.606689 45.81261063
03 08 2018 17:40 3451.710938 12.83819962 3595.843401 47.10757065
03 08 2018 17:50 3416.041016 12.28954029 3559.964526 48.25291824
03 08 2018 18:00 3276.23999 11.84368038 3495.522024 50.06600189
03 08 2018 18:10 3361.37207 13.00179005 3600 53.12031937
03 08 2018 18:20 3491.304932 12.27315998 3558.179935 53.04005051
03 08 2018 18:30 527.0994263 11.72622967 3472.807183 56.8241806
03 08 2018 18:40 1652.270996 11.38490009 3392.060685 57.00257874
03 08 2018 18:50 2942.315918 13.55710983 3600 56.20006943
03 08 2018 19:00 0
                       12.00442982 3522.637157 59.96570969
03 08 2018 19:10 0
                       11.24289036 3351.623606 60.16313934
03 08 2018 19:20 939.2543945 11.54467964 3432.666031 61.92749023
03 08 2018 19:30 3583.183105 13.27544975 3600 58.97378922
03 08 2018 19:40 3595.199951 14.21774006 3600 60.33383179
03 08 2018 19:50 3573.787109 13.72264957 3600 59.38727188
03 08 2018 20:00 3548.936035 12.83469963 3595.756591 60.58927917
03 08 2018 20:10 3579.979004 13.36925983 3600 61.18669128
03 08 2018 20:20 3603.350098 14.31285
                                         3600 59.7350502
03 08 2018 20:30 2921.052002 13.61250019 3600 58.68360901
03 08 2018 20:40 0
                       11.27455997 3361.005597 62.53237915
03 08 2018 20:50 0
                       11.20742989 3340.866083 62.02222061
03 08 2018 21:00 0
                       11.10630989 3308.69933 63.54035187
                       12.09047985 3535.32407 62.81150055
03 08 2018 21:10 0
03 08 2018 21:20 737.0142212 11.99172974 3520.658115 61.56959915
03 08 2018 21:30 3603.437988 14.08500957 3600 62.08634949
03 08 2018 21:40 3594.64502 13.72165012 3600 59.80326843
03 08 2018 21:50 3524.717041 12.96183968 3597.780598 59.78665924
03 08 2018 22:00 3461.883057 11.94303989 3512.813601 59.06777954
03 08 2018 22:10 3540.558105 12.72492027 3592.1303
                                                     61.89213181
03 08 2018 22:20 3522.227051 12.77517033 3594.008183 61.0092392
03 08 2018 22:30 3571.946045 13.10579014 3600 61.27508163
03 08 2018 22:40 3409.25
                             12.52233982 3580.76384 58.68759918
03 08 2018 22:50 3341.434082 11.88996029 3503.792394 58.57836151
03 08 2018 23:00 3480.2771 13.07740021 3600 60.33581924
03 08 2018 23:10 3287.558105 12.00951004 3523.421075 58.88161087
03 08 2018 23:20 3501.398926 12.42348003 3572.962005 59.78530121
03 08 2018 23:30 3079.415039 11.45209026 3409.754068 59.2481308
03 08 2018 23:40 3281.363037 11.99674034 3521.442213 58.8259201
03 08 2018 23:50 3485.5
                             13.17203999 3600 59.80743027
04 08 2018 00:00 3277.583008 12.34039021 3565.232056 59.50875092
04 08 2018 00:10 3280.170898 11.96656036 3516.654136 59.50251007
```

```
04 08 2018 00:20 3471.433105 12.56567001 3583.712589 56.48368073
                 3578.830078 13.64838028 3600 59.76036835
04 08 2018 00:30
04 08 2018 00:40
                 3587.616943 13.91112041 3600 59.56628036
04 08 2018 00:50 3386.028076 12.33742046 3564.935699 59.01725006
04 08 2018 01:00 3132.370117 11.72325993 3472.200252 60.43667984
04 08 2018 01:10 3352.013916 11.63424969 3453.24852 57.17269897
                 3301.243896 11.91464043 3508.048255 57.32762146
04 08 2018 01:20
                             13.16160965 3600 59.008461
04 08 2018 01:30
                 3542.4729
04 08 2018 01:40
                 3517.9021
                             12.90200043 3597.116523 58.45972824
                 3532.474121 12.62222004 3587.134762 57.27315903
04 08 2018 01:50
04 08 2018 02:00
                 3542.354004 12.82275963 3595.447115 61.19726944
04 08 2018 02:10 3479.361084 12.73326969 3592.467951 59.58707809
04 08 2018 02:20
                 3501.51709 12.5440197 3582.274811 59.32323837
04 08 2018 02:30 3491.379883 13.5549202 3600 62.20186996
04 08 2018 02:40 3516.322021 13.17652035 3600 60.24311066
04 08 2018 02:50 3513.699951 13.44989967 3600 61.92538071
04 08 2018 03:00 3524.768066 13.24155998 3600 64.80496216
04 08 2018 03:10 3562.205078 13.6201601 3600 64.02104187
04 08 2018 03:20 3536.259033 13.12849045 3600 63.55403137
                 3561.354004 13.05638027 3600 65.65247345
04 08 2018 03:30
04 08 2018 03:40
                 3599.636963 13.60336971 3600 64.02160645
04 08 2018 03:50
                 3580.076904 13.11499023 3600 61.57825089
04 08 2018 04:00
                 3590.600098 13.55313969 3600
                                              64.92256165
04 08 2018 04:10
                 3598.342041 13.52363968 3600 61.99403
04 08 2018 04:20 2166.933105 12.88512039 3596.836614 64.29750824
04 08 2018 04:30 0
                       11.17026997 3329.303709 66.63078308
04 08 2018 04:40 0
                       11.11015987 3309.96499 68.09133911
04 08 2018 04:50 0
                       11.40305042 3396.929936 68.23349762
04 08 2018 05:00 1386.378052 11.64764977 3456.19643 65.31391907
                 3551.87793 13.36637974 3600 66.63033295
04 08 2018 05:10
04 08 2018 05:20 3514.486084 13.39867973 3600 65.61927032
04 08 2018 05:30 3521.089111 13.01307011 3600 63.40792084
04 08 2018 05:40 3436.110107 12.63117981 3587.632969 61.32012177
04 08 2018 05:50 3563.672119 13.26992035 3600 60.82165909
04 08 2018 06:00 3580.164063 13.37924957 3600 61.53657913
                 3551.739014 13.72087002 3600 61.92451859
04 08 2018 06:10
                 3432.157959 12.74353027 3592.868879 60.27441025
04 08 2018 06:20
04 08 2018 06:30 3505.468018 12.64044952 3588.135798 60.75373077
04 08 2018 06:40 3415.599121 12.1476202 3543.062164 58.40750885
04 08 2018 06:50 3396.218994 12.18258953 3547.531433 59.06425095
04 08 2018 07:00 3174.874023 11.56075954 3436.474469 57.16690826
04 08 2018 07:10 3266.935059 11.66576004 3460.126855 56.16004944
04 08 2018 07:20
                 3342.228027 12.05076981 3529.624985 57.04346085
04 08 2018 07:30
                 3302.474121 12.20728016 3550.566334 57.36526108
04 08 2018 07:40
                 1453.83606 10.0970602 2850.989633 55.61882019
04 08 2018 07:50 0
                       10.1905098 2904.979114 62.49058914
04 08 2018 08:00 0
                       10.05041981 2823.055259 61.55340958
                       10.04216003 2818.038551 58.83639145
04 08 2018 08:10 0
                       8.81247139 2023.872093 58.19433975
04 08 2018 08:20 0
04 08 2018 08:30 0
                       7.532540798 1274.754004 53.21910095
                       8.814959526 2025.454796 55.04899979
04 08 2018 08:40 0
04 08 2018 08:50 0
                       8.524177551 1842.923842 57.28565979
04 08 2018 09:00 0
                       9.647583008 2552.773343 64.11113739
04 08 2018 09:10 0
                       9.813222885 2670.392418 0
04 08 2018 09:20
                 1335.48999 9.776288033 2644.97237
                                                    53.9239502
04 08 2018 09:30
                 2536.413086 10.01136017 2799.14523 46.91838074
04 08 2018 09:40 3028.581055 11.54179955 3431.978609 60.15140915
04 08 2018 09:50 2569.790039 9.987635612 2784.390176 53.63206863
04 08 2018 10:00 2259.144043 9.37846756 2390.26117 44.83222961
```

```
2088.836914 9.247423172 2304.558043 46.97031021
04 08 2018 10:10
                 2353.389893 9.447772026 2435.705047 48.46009064
04 08 2018 10:20
04 08 2018 10:30
                 2541.676025 9.874141693 2711.330842 44.40227127
04 08 2018 10:40
                 2140.145996 8.891736031 2074.445226 52.69118118
04 08 2018 10:50
                 2750.804932 10.25352001 2939.922843 34.27402115
04 08 2018 11:00
                 2732.613037 10.17625046 2896.909499 34.09178925
04 08 2018 11:10
                 2715.262939 10.41082954 3022.197711 44.76498032
                 2826.083008 10.3752203 3004.18236 40.8490715
04 08 2018 11:20
                 2944.86499 10.73554039 3170.853354 34.33480835
04 08 2018 11:30
                 2542.221924 10.10608959 2856.320897 41.36983109
04 08 2018 11:40
04 08 2018 11:50
                 3238.133057 11.50996971 3424.273963 33.80387115
04 08 2018 12:00
                 3291.435059 11.28299046 3363.467505 29.2793808
04 08 2018 12:10
                 3210.604004 11.28934956 3365.314665 32.64876175
04 08 2018 12:20
                 3435.785889 12.5573101 3583.165821 30.46941948
                 3514.783936 12.9090004 3597.220621 33.16693115
04 08 2018 12:30
04 08 2018 12:40
                 3323.321045 12.39568043 3570.496029 37.77788925
04 08 2018 12:50
                 3525.355957 13.45112991 3600 40.18225098
04 08 2018 13:00
                 3481.75
                             12.37250042 3568.34759 37.53242111
                 3418.590088 12.11100006 3538.16547 38.74240112
04 08 2018 13:10
                 3436.22998 12.55187988 3582.805002 41.09025955
04 08 2018 13:20
                 3276.916992 11.76006031 3479.606896 40.10826111
04 08 2018 13:30
                 3157.792969 10.97900963 3264.980517 37.56536865
04 08 2018 13:40
04 08 2018 13:50
                  3226.691895 11.59051991 3443.391584 44.20201111
04 08 2018 14:00
                 3047.996094 10.8593502 3220.489207 40.91791916
04 08 2018 14:10
                 3339.98999 12.81157017 3595.138356 40.3451004
04 08 2018 14:20
                 3427.552979 12.51920033 3580.539109 38.08469009
04 08 2018 14:30 3293.433105 11.90555954 3506.494774 39.08034897
04 08 2018 14:40 3282.809082 11.80154037 3487.659311 37.35931015
                 3100.162109 11.1983099 3338.055922 44.54817963
04 08 2018 14:50
                 3303.712891 12.29121971 3560.145069 43.13838959
04 08 2018 15:00
                 3437.076904 12.78604984 3594.366174 41.89310074
04 08 2018 15:10
04 08 2018 15:20
                 3534.187988 12.95473003 3597.728421 43.50051117
04 08 2018 15:30
                 3402.200928 12.0064497 3522.949369 43.10020828
04 08 2018 15:40
                 3384.678955 12.15445995 3543.952151 48.01979065
                 3039.131104 10.98577976 3267.398149 45.62083817
04 08 2018 15:50
                 3025.467041 11.04913044 3289.513975 46.6065712
04 08 2018 16:00
04 08 2018 16:10
                 2868.26709 10.88572979 3230.586936 47.9764595
04 08 2018 16:20
                 2990.143066 11.20481968 3340.063618 48.30183029
04 08 2018 16:30
                 2838.962891 10.50207996 3066.779148 44.52555084
04 08 2018 16:40
                 2929.485107 10.57433033 3100.495369 46.23384857
04 08 2018 16:50
                 2763.371094 10.57310963 3099.937135 46.56209183
                 2834.364014 10.93124008 3247.620961 47.6806488
04 08 2018 17:00
04 08 2018 17:10
                 2816.970947 10.7917099 3193.834808 47.22229004
04 08 2018 17:20
                 2965.727051 11.10336018 3307.727411 48.60752869
04 08 2018 17:30
                 2688.668945 10.44906998 3041.155689 48.73748016
04 08 2018 17:40
                 3182.373047 11.80770016 3488.82854 50.87443924
                             11.71562004 3470.631403 51.24225998
04 08 2018 17:50
                 3209.625
                 3159.323975 11.58133984 3441.27603 50.69985962
04 08 2018 18:00
04 08 2018 18:10
                 2937.954102 11.28658009 3364.511243 55.0740509
04 08 2018 18:20
                 2934.285889 11.36999989 3388.013339 56.75564957
04 08 2018 18:30
                 2954.968018 11.6128397 3448.468021 56.64001846
04 08 2018 18:40
                 3320.001953 12.08526039 3534.590109 58.87799072
04 08 2018 18:50
                  3365.312012 11.85581017 3497.726404 57.28271103
04 08 2018 19:00
                 3210.086914 11.80161953 3487.674379 56.77360916
04 08 2018 19:10
                 3261.87793 12.06116009 3531.141814 57.09183121
04 08 2018 19:20
                 3238.186035 12.23145008 3553.4411
                                                     58.75297928
04 08 2018 19:30
                 3151.888916 11.93317986 3511.175048 61.2370491
04 08 2018 19:40 3524.256104 12.74308968 3592.85198 59.4961586
04 08 2018 19:50 3569.800049 12.71804047 3591.844382 59.4063797
```

```
3504.105957 13.03421021 3600 63.22039032
04 08 2018 20:00
                 3582.76709 13.2330904 3600 61.53649902
04 08 2018 20:10
04 08 2018 20:20
                 3479.177002 12.89453983 3596.997848 60.96490097
04 08 2018 20:30 3315.998047 11.75879002 3479.355362 57.69530106
04 08 2018 20:40 3416.519043 12.74386024 3592.881517 60.37274933
04 08 2018 20:50 3350.593994 12.10433006 3537.249596 61.22193146
                 3305.710938 11.92879963 3510.441707 58.55310822
04 08 2018 21:00
                 3268.858887 11.94279957 3512.773864 57.25875854
04 08 2018 21:10
04 08 2018 21:20
                 3165.187012 11.46842003 3413.917713 57.33324051
                 2811.76001 10.83938026 3212.734553 58.14085007
04 08 2018 21:30
04 08 2018 21:40
                 3117.616943 11.59537983 3444.505028 54.47578812
04 08 2018 21:50
                 3269.01709 12.02460957 3525.725048 53.76865005
04 08 2018 22:00
                 3091.474121 11.72861958 3473.294433 58.57234955
04 08 2018 22:10
                 3376.843018 12.29743958 3560.8098
                                                     59.94897079
04 08 2018 22:20 3459.041016 12.76465988 3593.645946 60.76720047
04 08 2018 22:30 3461.020996 12.53796005 3581.859676 60.3332901
04 08 2018 22:40 3233.516113 11.9964304 3521.393836 60.60250854
04 08 2018 22:50 3326.434082 12.06824017 3532.164972 60.38951874
04 08 2018 23:00 3310.604004 12.00284004 3522.390936 56.6282196
04 08 2018 23:10 3211.540039 11.79024029 3485.496563 59.83074951
04 08 2018 23:20 3152.918945 11.75973034 3479.541586 62.67272186
04 08 2018 23:30 3318.183105 12.40277958 3571.13721 62.87807083
                 3320.993896 12.52235985 3580.765269 63.29491043
04 08 2018 23:40
04 08 2018 23:50
                 3194.053955 12.00494003 3522.716087 60.80208969
05 08 2018 00:00 3304.248047 12.29125023 3560.148345 62.7783699
05 08 2018 00:10 3414.922119 12.63068008 3587.605498 65.05827332
05 08 2018 00:20 3391.125
                             12.46177006 3576.162202 64.4509964
05 08 2018 00:30 3484.518066 12.4238596 3572.994842 63.57590866
05 08 2018 00:40 3591.065918 13.3668499 3600 65.25478363
                 3587.64502 13.18890953 3600 63.03385925
05 08 2018 00:50
05 08 2018 01:00 3447.201904 12.62502956 3587.292276 64.18971252
05 08 2018 01:10 3589.519043 12.99738026 3597.933794 64.252388
05 08 2018 01:20
                 3582.761963 12.95026016 3597.691934 62.31373978
05 08 2018 01:30
                 3573.922119 12.98044014 3597.883127 61.6618309
                 3573.789063 13.3973999 3600 62.17707062
05 08 2018 01:40
05 08 2018 01:50
                 3561.875977 13.39461994 3600 62.68938065
05 08 2018 02:00
                 3577.659912 13.42862988 3600 62.45220947
05 08 2018 02:10
                 3549.710938 13.39276028 3600 64.31890106
05 08 2018 02:20
                 3595.064941 13.69596958 3600 65.41074371
05 08 2018 02:30
                 3589.116943 13.7262001 3600
                                               64.20922852
05 08 2018 02:40 3598.85791 14.09097004 3600 64.28513336
05 08 2018 02:50 3601.637939 13.73486042 3600 63.13100052
05 08 2018 03:00
                 3580.613037 14.06515026 3600 63.59978104
05 08 2018 03:10
                 3603.314941 13.92889023 3600 61.62340927
05 08 2018 03:20
                 3598.89502 13.48241997 3600 59.64448929
05 08 2018 03:30
                 3596.306885 13.33413982 3600 62.34222031
05 08 2018 03:40
                 3570.887939 13.28975964 3600 63.04753876
05 08 2018 03:50
                 3603 13.98260021 3600 62.80854034
                 3599.181885 13.5218401 3600 60.3878212
05 08 2018 04:00
05 08 2018 04:10
                 3600.291992 13.70145988 3600
                                               59.51465988
                 3583.269043 13.20604038 3600 60.65439987
05 08 2018 04:20
05 08 2018 04:30
                 3593.733887 13.50887012 3600 62.04938126
05 08 2018 04:40
                 3561.64209 13.26259995 3600
                                               63.60042953
05 08 2018 04:50
                 3439.336914 12.84712982 3596.056879 64.63890076
05 08 2018 05:00
                 3575.045898 13.34226036 3600 62.94031906
05 08 2018 05:10
                 3584.209961 13.99905014 3600 64.9225235
05 08 2018 05:20 3430.971924 12.50415993 3579.44164 63.92998886
05 08 2018 05:30 3106.830078 11.69845009 3467.066182 62.63415909
05 08 2018 05:40 3341.496094 12.19880962 3549.536373 60.6657486
```

```
3274.018066 12.25712967 3556.391816 61.73918915
05 08 2018 05:50
05 08 2018 06:00
                 3109.955078 11.67965984 3463.101808 58.88272858
                 3524.468018 13.01198006 3600 58.10501099
05 08 2018 06:10
05 08 2018 06:20 3372.211914 12.57462025 3584.286266 62.91365051
05 08 2018 06:30 3429.12207 12.93682957 3597.565182 64.77420807
05 08 2018 06:40 2857.552979 10.8758297 3226.816715 62.98468018
                 2622.128906 10.43190002 3032.693034 66.04078674
05 08 2018 06:50
                 2826.63501 10.96181965 3258.79451 61.97621918
05 08 2018 07:00
05 08 2018 07:10
                 3435.820068 12.40507984 3571.343278 62.70013046
                 3157.356934 11.66277981 3459.484294 60.35609055
05 08 2018 07:20
05 08 2018 07:30
                 3413.687012 12.0296402 3526.484028 58.78173065
05 08 2018 07:40 3175.074951 11.74592018 3476.790344 59.32077026
05 08 2018 07:50
                 3156.155029 11.96675014 3516.684736 60.01499176
05 08 2018 08:00
                 3596.645996 13.2149601 3600 57.2417984
05 08 2018 08:10
                 3575.975098 13.57384014 3600 61.02025986
05 08 2018 08:20
                 3523.929932 13.25833035 3600 58.23329926
05 08 2018 08:30
                 3394.983887 12.55333042 3582.901822 59.42037964
05 08 2018 08:40 3142.933105 11.67273045 3461.623234 57.38761139
05 08 2018 08:50 3344.273926 12.32159996 3563.333415 59.54418945
05 08 2018 09:00
                 3297.783936 12.4239502 3573.002677 60.60149002
                 3381.191895 12.50926018 3579.817664 59.04916
05 08 2018 09:10
05 08 2018 09:20
                 3385.354004 12.52163982 3580.713863 60.61740112
05 08 2018 09:30
                 3222.940918 12.11596966 3538.843039 58.88549042
05 08 2018 09:40
                 3171.331055 11.71835995 3471.195281 56.80295944
05 08 2018 09:50
                 3111.239014 11.48089027 3417.061674 55.44964981
05 08 2018 10:00
                 3036.214111 11.48235035 3417.427773 58.27711868
05 08 2018 10:10 2752.163086 10.95353031 3255.7871
                                                     57.87189102
                 1597.637939 8.179176331 1634.211926 50.00434875
05 08 2018 10:20
                 1555.776001 8.175344467 1631.950782 51.21860886
05 08 2018 10:30
                 2026.982056 9.068996429 2188.561975 40.08843994
05 08 2018 10:40
05 08 2018 10:50
                 1930.843018 8.841688156 2042.476906 37.53059006
05 08 2018 11:00
                 1823.905029 8.810330391 2022.510463 36.72309113
05 08 2018 11:10
                 1567.151978 8.053490639 1560.775813 37.27304077
05 08 2018 11:20
                 1212.371948 7.499032021 1257.484064 38.64765167
                 1502.110962 8.017573357 1540.076263 39.01279068
05 08 2018 11:30
05 08 2018 11:40
                 1760.744019 8.611274719 1897.043425 38.56830978
                 1613.78894 8.44752121 1795.732676 37.59960938
05 08 2018 11:50
05 08 2018 12:00
                 2164.968018 9.388924599 2397.11366 32.94974899
05 08 2018 12:10
                 1798.291016 8.333830833 1726.56659 33.47177887
05 08 2018 12:20
                 2095.096924 9.226417542 2290.855192 27.58239937
05 08 2018 12:30
                 1883.593018 8.808211327 2021.163017 27.29647064
05 08 2018 12:40 2102.387939 9.359519005 2377.848643 26.64681053
05 08 2018 12:50
                 2038.894043 9.280950546 2326.451202 29.97542953
05 08 2018 13:00
                 1986.271973 9.147094727 2239.216067 29.68489075
05 08 2018 13:10
                 1866.713989 8.874964714 2063.718973 32.93873978
                 1984.621948 8.913708687 2088.517973 33.77000046
05 08 2018 13:20
05 08 2018 13:30
                 2396.25708 9.945313454 2757.627972 37.98981857
05 08 2018 13:40
                 1954.714966 8.866865158 2058.543643 32.99520111
05 08 2018 13:50
                 2409.532959 9.866856575 2706.499297 39.80110931
05 08 2018 14:00
                 2287.052002 9.614432335 2528.095712 34.19623184
                 2388.503906 9.842173576 2690.000144 37.01144028
05 08 2018 14:10
05 08 2018 14:20
                 2661.322021 10.34095955 2986.516102 38.88288116
05 08 2018 14:30
                 2380.438965 9.648797035 2553.669749 41.41051102
05 08 2018 14:40
                 3010.858887 11.42467022 3402.643096 43.30513
05 08 2018 14:50
                 3218.399902 11.72830009 3473.229359 42.76253891
05 08 2018 15:00
                 3320.083984 12.44044018 3574.407479 42.4373703
05 08 2018 15:10 3315.063965 11.95098019 3514.120848 44.19493103
05 08 2018 15:20 3222.618896 11.66934013 3460.896551 46.15787888
05 08 2018 15:30 3214.562988 11.51226044 3424.835054 44.33607864
```

```
3047.301025 11.35980988 3385.219345 45.68965149
05 08 2018 15:40
                 2838.919922 10.55772018 3092.866003 48.37372971
05 08 2018 15:50
                 2600.795898 10.04693985 2820.94422 45.77791977
05 08 2018 16:00
05 08 2018 16:10
                 2767.748047 10.43906975 3036.236594 46.95975876
05 08 2018 16:20
                 2439.474121 10.02766037 2809.180867 47.69021988
                 2880.230957 10.98307037 3266.431884 49.16236115
05 08 2018 16:30
                 2748.585938 10.88749027 3231.254942 49.44528961
05 08 2018 16:40
                 2920.38501 11.43889046 3406.349668 51.52357101
05 08 2018 16:50
                 2727.50293 10.92835999 3246.557378 51.33440018 2553.23291 10.5799799 3103.073876 53.21030045
05 08 2018 17:00
05 08 2018 17:10
05 08 2018 17:20
                 2437.180908 10.27227974 2950.103512 53.54592896
05 08 2018 17:30
                 2367.332031 10.19087982 2905.187718 53.78673935
05 08 2018 17:40
                 2283.008057 10.02122021 2805.225706 56.10601044
05 08 2018 17:50
                 2419.183105 10.44927025 3041.253925 57.75239182
05 08 2018 18:00
                 2537.756104 10.94917011 3254.198807 59.41501999
05 08 2018 18:10
                 2706.625
                            11.26877022 3359.306202 63.12004089
05 08 2018 18:20
                 2830.208984 11.72558022 3472.674592 64.79395294
05 08 2018 18:30 2736.219971 11.37092018 3388.26463 64.53045654
05 08 2018 18:40 2511.751953 10.8169899 3203.926016 66.19098663
                 2720.676025 11.38438034 3391.920265 65.14779663
05 08 2018 18:50
                 2888.214111 11.95234966 3514.345205 67.28431702
05 08 2018 19:00
                 3017.470947 11.90291977 3506.040472 69.81916809
05 08 2018 19:10
05 08 2018 19:20
                  3034.85498 12.00337029 3522.473107 70.94069672
05 08 2018 19:30
                 3235.227051 12.14943981 3543.299685 68.30653381
05 08 2018 19:40
                 3065.788086 11.81931019 3491.013749 66.43341827
05 08 2018 19:50 3523.076904 12.64885044 3588.580437 65.02007294
05 08 2018 20:00 3572.935059 12.87759018 3596.698558 64.64919281
05 08 2018 20:10 3595.856934 13.09368992 3600 64.08396912
05 08 2018 20:20 3603.056885 13.07693005 3600 64.11390686
05 08 2018 20:30
                 3575.311035 13.18013954 3600 62.79943085
05 08 2018 20:40 3571.251953 13.17152023 3600 61.90893936
05 08 2018 20:50
                 3602.121094 13.15373039 3600 60.94107056
05 08 2018 21:00
                 3604.426025 12.79821968 3594.746207 58.31729126
05 08 2018 21:10
                 3536.157959 12.29761982 3560.828971 55.77970886
                 3343.00293 12.35830021 3566.989819 56.81676865
05 08 2018 21:20
05 08 2018 21:30
                 3162.539063 12.24277973 3554.756058 58.17620087
                 3097.495117 11.9709301 3517.357108 56.31061172
05 08 2018 21:40
05 08 2018 21:50
                 3018.644043 11.45207977 3409.751377 51.85446167
05 08 2018 22:00
                 2992.241943 11.36003971 3385.282598 49.77571869
05 08 2018 22:10 2973.949951 11.35383034 3383.569926 49.75870895
05 08 2018 22:20 2965.216064 11.49975967 3421.760605 48.83839035
05 08 2018 22:30 2813.955078 10.90686989 3238.560038 47.23146057
05 08 2018 22:40 2954.447021 11.20368004 3339.712796 45.13999939
05 08 2018 22:50 3163.594971 11.6869297 3464.6434
                                                    43.59141922
05 08 2018 23:00 3180.104004 11.64041996 3454.610138 43.40710831
05 08 2018 23:10 2924.854004 11.80897045 3489.068813 43.69044113
                 3037.72998 12.32174969 3563.348765 47.44565964
05 08 2018 23:20
                 2919.874023 11.75267029 3478.139448 47.81534958
05 08 2018 23:30
05 08 2018 23:40 2880.35498 11.20685005 3340.687949 47.32933044
05 08 2018 23:50
                 2818.326904 11.2110796 3341.985679 45.59347153
06 08 2018 00:00
                 2454.535889 10.40338039 3018.458054 46.25991058
06 08 2018 00:10 2359.135986 10.09733963 2851.154988 48.05997849
06 08 2018 00:20
                 2181.112061 9.937626839 2752.706304 50.8092804
06 08 2018 00:30
                 2150.854004 9.801218987 2662.180849 48.65636826
06 08 2018 00:40
                 2406.875
                             10.13656044 2874.129906 47.9344101
06 08 2018 00:50 2371.51709 9.986079216 2783.416027 46.09832001
06 08 2018 01:00 2226.128906 10.13024044 2870.459119 48.64191055
06 08 2018 01:10 2321.884033 10.14216995 2877.37798 49.67609024
06 08 2018 01:20 2365.326904 10.46885967 3050.810138 49.77862167
```

```
06 08 2018 01:30 2347.655029 10.42803001 3030.774484 52.80131149
                 2456.3479 10.64461994 3131.987199 47.04130173
06 08 2018 01:40
06 08 2018 01:50
                 2403.693115 10.43671036 3035.07204 47.58805084
06 08 2018 02:00 2301.615967 10.26669025 2947.080782 47.4586792
06 08 2018 02:10 2347.933105 10.67800045 3146.498737 50.96641159
06 08 2018 02:20
                 2513.085938 10.65044022 3134.537864 52.14178848
06 08 2018 02:30
                 2601.510986 11.07028008 3296.69535 51.961689
                 2487.674072 11.13549042 3318.210813 54.43917084
06 08 2018 02:40
06 08 2018 02:50 2466.414063 11.46331978 3412.622977 58.44977951
                 2496.759033 11.2974596 3367.658164 59.69480896
06 08 2018 03:00
06 08 2018 03:10 2502.718994 10.84729004 3215.817476 63.19754028
06 08 2018 03:20 2474.404053 10.5546999 3091.47095 63.56581879
06 08 2018 03:30 2341.209961 10.19596958 2908.053
                                                     61.6240387
06 08 2018 03:40 2304.851074 10.12792969 2869.113987 61.17739105
06 08 2018 03:50 2208.512939 9.870013237 2708.594947 62.61360931
06 08 2018 04:00 2091.726074 9.688611984 2582.783433 60.55009079
06 08 2018 04:10 2185.881104 9.999973297 2792.085397 60.60462952
06 08 2018 04:20 2347.149902 10.11332989 2860.577958 63.25276184
06 08 2018 04:30 2340.302979 10.16160011 2888.555814 63.81618881
06 08 2018 04:40 2150.01001 9.676656723 2574.09931 61.62797928
06 08 2018 04:50
                 1937.293945 9.35216713 2373.034309 63.65943146
                 1907.854004 9.160002708 2247.60689 63.83430099
06 08 2018 05:00
06 08 2018 05:10
                 1667.51001 8.746178627 1981.824962 63.27056122
06 08 2018 05:20
                 1468.883057 8.41519165 1775.961056 63.20373154
06 08 2018 05:30
                 1255.604004 7.868040085 1455.358523 61.36085129
06 08 2018 05:40 1051.189941 7.422057152 1217.909897 63.60194016
06 08 2018 05:50 1033.69397 7.493562222 1254.642002 62.42213821
06 08 2018 06:00 920.3751221 7.078289032 1051.624448 64.22062683
06 08 2018 06:10 903.9780884 6.995098114 1013.783676 64.35975647
06 08 2018 06:20 968.8358765 7.208284855 1112.57587 64.04165649
06 08 2018 06:30
                 793.0571899 6.612933159 850.8790212 60.9362793
06 08 2018 06:40 824.1721191 6.79945612 928.2093089 62.09489059
06 08 2018 06:50 930.8859863 7.088301182 1056.239042 61.45526123
06 08 2018 07:00 880.8355103 6.948764801 993.0903209 58.57999039
06 08 2018 07:10 828.9658813 6.85177803 950.6369225 61.66987991
                 960.6870728 7.231742859 1123.818285 58.44718933
06 08 2018 07:20
                 743.6870117 6.757777214 910.5774358 63.45183182
06 08 2018 07:30
                 780.2855225 6.635148048 859.8782792 59.92189026
06 08 2018 07:40
06 08 2018 07:50
                 695.1981201 6.4677701 793.4413375 60.97658157
06 08 2018 08:00 816.3093262 6.89440918 969.1553195 58.3494606
06 08 2018 08:10 529.8757935 6.026497841 632.9651866 58.26076126
06 08 2018 08:20 397.2148132 5.44679594 453.8242163 56.52819824
06 08 2018 08:30 623.9550781 6.335523129 743.1419157 58.82386017
06 08 2018 08:40
                 736.6771851 6.662325859 870.9646615 64.52561188
                 855.1536865 6.921065807 980.8476557 59.17778015
06 08 2018 08:50
06 08 2018 09:00
                 610.1776123 6.154911041 677.5060868 55.22370148
06 08 2018 09:10
                 515.3483887 5.72709322 536.7621145 44.66365051
                 563.5352783 5.93120718 602.0254071 52.60660934
06 08 2018 09:20
06 08 2018 09:30
                 612.4812012 6.055584908 642.899857 39.78125
06 08 2018 09:40
                 684.4680176 6.155550957 677.7324585 31.22654915
06 08 2018 09:50
                 925.6832886 7.030508995 1029.782144 29.02639008
06 08 2018 10:00
                 931.0720215 6.884601116 964.8751985 28.50342941
06 08 2018 10:10
                 966.8485718 6.942183971 990.173023 25.95026016
06 08 2018 10:20
                 1050.229004 7.265668869 1140.212562 26.28675079
06 08 2018 10:30
                 1038.847046 7.183743954 1100.895271 23.96393967
06 08 2018 10:40
                 1441.152954 8.06669426 1568.417988 26.75704956
06 08 2018 10:50
                 1294.5
                         7.808710098 1422.430037 32.14059067
06 08 2018 11:00 1194.918945 7.511771202 1264.044029 30.47606087
06 08 2018 11:10 1322.031982 7.926167011 1488.003249 28.1565609
```

```
06 08 2018 11:20
                 1161.384033 7.487669945 1251.585598 31.36895943
                 1238.342041 7.685771942 1355.516222 30.78746986
06 08 2018 11:30
                 1173.682007 7.436113834 1225.069551 30.98876953
06 08 2018 11:40
06 08 2018 11:50
                 1235.656982 7.601370811 1310.65642 29.25468063
06 08 2018 12:00
                 951.1776123 6.944417
                                        991.1623248 24.82562065
06 08 2018 12:10
                 1195.765015 7.525444031 1271.087984 28.93606949
06 08 2018 12:20
                 1279.339966 7.66515398 1344.474547 30.00189018
                 1115.947998 7.356483936 1184.899111 29.43321037
06 08 2018 12:30
                 1263.52002 7.688165188 1356.801321 27.26213074
06 08 2018 12:40
                 1206.545044 7.591590881 1305.51723 26.77490997
06 08 2018 12:50
06 08 2018 13:00
                 1097.493042 7.500102043 1258.052314 30.32686996
06 08 2018 13:10
                 1316.899048 7.803350925 1419.475615 27.12500954
06 08 2018 13:20
                 1235.866943 7.663845062 1343.775368 29.07089043
06 08 2018 13:30
                 1398.921997 7.93097496 1490.720068 31.24234009
06 08 2018 13:40
                 1470.800049 8.155158043 1620.061552 29.74838066
06 08 2018 13:50
                 1576.140015 8.483085632 1817.573524 34.67947006
06 08 2018 14:00
                 1621.671021 8.383954048 1756.93409 34.92070007
06 08 2018 14:10
                 1560.786987 8.455839157 1800.832466 34.53458023
06 08 2018 14:20
                 1844.965942 8.900435448 2080.014238 31.67182922
06 08 2018 14:30
                 1526.404053 8.261916161 1683.361244 33.84820175
                 2248.264893 10.01871014 2803.680675 38.47951126
06 08 2018 14:40
06 08 2018 14:50
                 1748.279053 8.732652664 1973.275682 36.95378113
06 08 2018 15:00
                 1607.686035 8.476534843 1813.543518 35.39287949
06 08 2018 15:10
                 1997.805054 9.182320595 2262.126235 34.34273911
06 08 2018 15:20
                 1475.776001 7.925467014 1487.607913 38.46575165
06 08 2018 15:30 1893.490967 9.074376106 2192.044589 37.41127014
06 08 2018 15:40 2102.483887 9.564286232 2490.02668 36.62023163
06 08 2018 15:50 1794.168945 8.946816444 2109.763671 38.69823837
06 08 2018 16:00 2170.084961 9.728667259 2611.52005 39.15554047
                 1577.48999 8.379932404 1754.490078 38.11660004
06 08 2018 16:10
06 08 2018 16:20
                 1724.343994 8.829204559 2034.522204 39.19940186
06 08 2018 16:30
                 1610.630981 8.496403694 1825.776365 36.62921143
06 08 2018 16:40
                 1697.449951 8.584495544 1880.349283 39.80012131
06 08 2018 16:50
                 1217.099976 7.714570045 1371.026848 39.29172134
                 1705.192993 8.582590103 1879.163236 43.6216011
06 08 2018 17:00
                 1322.380005 7.913898945 1481.08236 45.00244904
06 08 2018 17:10
06 08 2018 17:20
                 1210.008057 7.744324207 1387.158895 46.43721008
                 1531.870972 8.442293167 1792.529994 49.11091995
06 08 2018 17:30
06 08 2018 17:40
                 1626.866943 8.666664124 1931.719444 48.6632309
06 08 2018 17:50
                 1639.01001 8.722190857 1966.670304 49.19832993
06 08 2018 18:00
                 1531.389038 8.438853264 1790.423848 49.68330002
06 08 2018 18:10
                 1273.31604 7.829114914 1433.70934 50.31092072
06 08 2018 18:20
                 1518.651978 8.194005013 1642.974952 53.94329071
06 08 2018 18:30
                 1624.550049 8.524308205 1843.004636 54.52265167
06 08 2018 18:40
                 1946.499023 9.341317177 2365.93101 55.73862076
06 08 2018 18:50
                 2068.204102 9.51688385 2453.21043 57.24037933
                 2099.48999 9.533471107 2466.18587 57.84125137
06 08 2018 19:00
                 1838.641968 8.92178154 2093.693921 60.2140007
06 08 2018 19:10
06 08 2018 19:20
                 1794.25
                             9.005874634 2147.77874 61.44963074
06 08 2018 19:30
                 1710.849976 8.813412666 2024.470801 63.85774994
06 08 2018 19:40
                 2073.51709 9.632235527 2541.396612 65.38453674
06 08 2018 19:50
                 2086.614014 9.597425461 2515.285079 63.30970001
06 08 2018 20:00
                 2102.208008 9.619861603 2532.163809 63.20800018
06 08 2018 20:10
                 2106.164063 9.673836708 2572.043674 62.48213959
06 08 2018 20:20
                 2218.206055 9.888902664 2721.067405 63.89115906
06 08 2018 20:30
                 2353.531982 10.1196804 2864.298804 66.04612732
06 08 2018 20:40 2315.175049 10.09673023 2850.794338 64.59100342
06 08 2018 20:50 2254.575928 10.02984047 2810.516832 66.37438202
06 08 2018 21:00 2273.271973 9.917417526 2739.676231 63.74515152
```

```
2238.670898 9.889190674 2721.256676 63.00241089
06 08 2018 21:10
                 2121.916016 9.780501366 2647.895237 64.33769226
06 08 2018 21:20
06 08 2018 21:30
                 1865.822998 9.077013969 2193.752622 69.24571991
06 08 2018 21:40
                 1899.885986 9.263244629 2314.886115 70.26212311
06 08 2018 21:50
                 2400.273926 10.53909016 3084.222615 70.97660065
06 08 2018 22:00
                 2159.020996 9.811128616 2668.963235 70.31160736
06 08 2018 22:10
                 1861.48999 9.162581444 2249.283794 69.37180328
                 2282.020996 10.11170006 2859.621055 70.97065735
06 08 2018 22:20
06 08 2018 22:30
                 2287.271973 10.06783009 2833.560795 69.0760498
                 2437.913086 10.59809017 3111.283501 73.01113129
06 08 2018 22:40
06 08 2018 22:50
                 2209.272949 9.937278748 2752.482977 73.6568222
06 08 2018 23:00 2114.457031 9.886220932 2719.303761 74.59483337
06 08 2018 23:10
                 1977.447021 9.429205894 2423.524756 72.77760315
06 08 2018 23:20
                 2078.501953 9.654447556 2557.835165 71.78914642
06 08 2018 23:30 1947.936035 9.486913681 2461.396205 73.64016724
06 08 2018 23:40 2112.927002 9.642254829 2548.833051 70.22544098
06 08 2018 23:50
                 2260.394043 9.9346838 2750.816905 68.63359833
07 08 2018 00:00 2141.656006 9.788113594 2653.16087 67.52612305
07 08 2018 00:10 2283.824951 10.09451008 2849.479465 65.40338135
                 2288.489014 10.14719009 2880.276793 69.50209045
07 08 2018 00:20
07 08 2018 00:30
                 2248.055908 9.97258091 2774.935396 67.52629089
07 08 2018 00:40
                 2440.447021 10.29193974 2960.664133 66.58721161
                 2505.364014 10.7137804 3161.740597 67.75637817
07 08 2018 00:50
07 08 2018 01:00
                 2531.128906 10.51755047 3074.114934 65.80246735
07 08 2018 01:10 2440.362061 10.38560009 3009.469953 66.79779816
07 08 2018 01:20 2415.289063 10.22741032 2925.583826 64.75039673
07 08 2018 01:30 2275.616943 10.04088974 2817.265146 63.32546997
07 08 2018 01:40 2023.244019 9.401754379 2405.523255 58.89888
07 08 2018 01:50 2251.569092 10.01836014 2803.465084 66.02176666
07 08 2018 02:00
                 2217.662109 9.754212379 2629.560322 61.06016159
                 1590.725952 8.378051758 1753.347625 58.89393997
07 08 2018 02:10
07 08 2018 02:20
                 1417.04895 8.059290886 1564.13081 54.1775589
07 08 2018 02:30
                 1971.436035 9.27807045 2324.569512 55.99858856
                 1995.529053 9.03325367 2165.449996 53.49488068
07 08 2018 02:40
                 1900.238037 8.888015747 2072.064734 52.68692017
07 08 2018 02:50
07 08 2018 03:00
                 2257.391113 9.681998253 2577.985434 50.57954025
07 08 2018 03:10 2455.342041 10.29815006 2963.977096 51.09283066
07 08 2018 03:20 2244.683105 9.884716034 2718.313039 54.30062103
07 08 2018 03:30 2646.310059 10.64768982 3133.333614 52.97169876
07 08 2018 03:40 2602.206055 10.57067013 3098.820373 48.64381027
07 08 2018 03:50 2346.406006 10.09842014 2851.794172 50.09817123
07 08 2018 04:00 2380.197998 10.32563019 2978.5049
                                                    49.30767059
07 08 2018 04:10 2372.224121 10.21903038 2920.939622 50.05123901
07 08 2018 04:20 2578.636963 10.68869019 3151.08619 49.63589859
07 08 2018 04:30
                 2088.292969 9.518953323 2454.834747 50.90575027
07 08 2018 04:40
                 1940.55896 8.934224129 2101.677278 44.02381134
07 08 2018 04:50
                 1622.81897 8.605254173 1893.286118 51.01694107
                 1166.855957 7.476020813 1245.558774 51.08222961
07 08 2018 05:00
07 08 2018 05:10
                 1361.353027 7.854652882 1447.893491 50.83839035
07 08 2018 05:20
                 1538.610962 8.236044884 1667.927244 42.2835083
07 08 2018 05:30
                 1466.05603 7.672493935 1348.399279 43.59770966
07 08 2018 05:40
                 1349.756958 7.862686157 1452.370616 46.06409836
07 08 2018 05:50
                 1354.479004 7.767537117 1399.8185
07 08 2018 06:00
                 1387.357056 7.713622093 1370.51466 44.7691803
07 08 2018 06:10
                 1238.375
                             7.379284859 1196.305567 47.96802139
07 08 2018 06:20
                 1581.905029 8.258353233 1681.23222 44.57936859
07 08 2018 06:30
                 1525.519043 8.185507774 1637.951023 40.97391129
07 08 2018 06:40 1443.737061 7.980631828 1518.924903 41.74324036
07 08 2018 06:50 1520.338013 7.929513931 1489.894222 37.18893051
```

```
07 08 2018 07:00 1350.60498 7.831318855 1434.9305
                                                     38.17541122
07 08 2018 07:10
                 1299.937012 7.518258095 1267.382798 32.44330978
07 08 2018 07:20
                 1458.114014 8.085656166 1579.4234
                                                     29.69065094
07 08 2018 07:30 1507.776001 8.22729969 1662.723534 27.44735909
07 08 2018 07:40 1576.968994 8.426651955 1782.960627 31.82336044
07 08 2018 07:50
                 1320.692993 7.973365784 1514.781434 32.4695282
07 08 2018 08:00
                 1384.583008 7.989716053 1524.113004 35.37245178
                             8.932966232 2100.869879 33.85269928
07 08 2018 08:10
                 1886.25
07 08 2018 08:20
                 1475.458984 8.170538902 1629.116992 33.40953064
                 1519.115967 8.376225471 1752.238463 32.95111847
07 08 2018 08:30
07 08 2018 08:40
                 1356.121948 7.796895981 1415.921559 30.86795044
07 08 2018 08:50
                 1024.053955 7.303621769 1158.744379 34.00405121
07 08 2018 09:00 907.5432739 7.046619892 1037.114128 36.97888184
07 08 2018 09:10
                 1132.102051 7.675392151 1349.950833 28.34841919
07 08 2018 09:20 813.1765747 6.946475983 992.0750697 32.0746994
07 08 2018 09:30
                 698.1790161 6.322144985 738.1596952 28.78160095
07 08 2018 09:40
                 714.0192261 6.478719234 797.6917806 27.64493942
07 08 2018 09:50
                 844.9348755 6.878211021 962.092967 30.64444923
07 08 2018 10:00
                 1129.899048 7.51816988 1267.337356 24.30771065
07 08 2018 10:10 974.8779907 7.194503784 1106.006447 31.26485062
                 1182.874023 7.688003063 1356.714243 31.6760807
07 08 2018 10:20
07 08 2018 10:30 947.067688 7.000908852 1016.397984 25.08213997
                 943.090271 6.960518837 998.3143707 32.34804916
07 08 2018 10:40
07 08 2018 10:50
                 1281.936035 7.51435709 1265.374291 31.62301064
07 08 2018 11:00
                 1589.670044 8.547016144 1857.065085 26.77913094
07 08 2018 11:10 2310.370117 10.04168034 2817.746551 28.37317085
07 08 2018 11:20 1635.868042 8.360355377 1742.611319 28.51655006
                 1726.114014 8.728257179 1970.499694 36.83671188
07 08 2018 11:30
                 1803.411011 8.991074562 2138.238612 38.12477875
07 08 2018 11:40
                 1518.526001 8.269637108 1687.978685 30.23513031
07 08 2018 11:50
07 08 2018 12:00
                 2178.248047 9.595820427 2514.070766 27.0044899
07 08 2018 12:10
                 2291.371094 9.933392525 2749.987045 27.03887939
07 08 2018 12:20
                 2254.85791 9.992609978 2787.498524 31.99099922
07 08 2018 12:30
                 1990.608032 9.183758736 2263.062338 32.21026993
                 2110.093994 9.657222748 2559.876879 31.26940918
07 08 2018 12:40
07 08 2018 12:50
                 2045.373047 9.520586014 2456.115135 33.04512024
07 08 2018 13:00
                 1905.531006 9.046713829 2174.14808 35.21302032
07 08 2018 13:10
                 2029.421997 9.118995667 2220.968104 31.95623016
07 08 2018 13:20
                 2035.511963 9.229709625 2293.002027 33.85905075
07 08 2018 13:30 2231.927002 9.599072456 2516.530186 30.58012009
07 08 2018 13:40 2475.082031 9.954749107 2763.643776 35.24214935
07 08 2018 13:50 2460.778076 10.30795956 2969.187667 37.9376297
07 08 2018 14:00 2617.706055 10.45331001 3043.233142 35.02381897
07 08 2018 14:10
                 2585.646973 10.55082035 3089.67549 36.49882889
07 08 2018 14:20
                 2817.728027 10.65207958 3135.254736 37.5389595
07 08 2018 14:30
                 2670.195068 10.64136028 3130.554912 39.25291061
07 08 2018 14:40
                 2171.471924 9.627337456 2537.748367 41.61688995
                 2669.457031 10.66156006 3139.386989 39.9958992
07 08 2018 14:50
07 08 2018 15:00
                 2306.084961 9.902968407 2730.279564 41.99348068
07 08 2018 15:10
                 2515.499023 10.51082993 3070.936036 40.850811
                 2714.928955 10.76299
07 08 2018 15:20
                                         3182.181233 41.05580902
07 08 2018 15:30
                 2435.635986 10.17380047 2895.516945 41.76158142
07 08 2018 15:40
                 2635.864014 10.52157974 3076.015066 39.04512024
07 08 2018 15:50
                 2687.110107 10.67251015 3144.131373 42.44775009
07 08 2018 16:00
                 3038.27002 11.7055397 3468.544908 42.42728043
07 08 2018 16:10
                 3055.898926 11.65939999 3458.753564 43.25157928
07 08 2018 16:20 2923.894043 10.94651031 3253.227754 41.23649979
07 08 2018 16:30 2639.504883 10.39216995 3012.801268 45.37799835
07 08 2018 16:40 2587.168945 10.36108017 2996.930928 46.39006042
```

```
07 08 2018 16:50 2311.540039 9.953829765 2763.058886 45.27505112
                 2538.501953 10.45606995 3044.582778 46.9464798
07 08 2018 17:00
07 08 2018 17:10
                 2452.489014 10.46794033 3050.363984 48.89176178
07 08 2018 17:20 2566.043945 10.77278042 3186.176576 51.57991028
07 08 2018 17:30 2485.427979 10.65851021 3138.060147 50.09392929
07 08 2018 17:40 2210.660889 9.877528191 2713.570897 48.04487991
07 08 2018 17:50
                 2101.258057 9.628675461 2538.745796 48.71358871
                 2176.717041 9.891692162 2722.899443 49.69496918
07 08 2018 18:00
07 08 2018 18:10
                 2434.235107 10.55998039 3093.908413 54.19303131
                 2654.77002 10.94073963 3251.115307 54.30268097
07 08 2018 18:20
07 08 2018 18:30
                 2877.944092 11.36711025 3387.223187 54.30430984
07 08 2018 18:40
                 2663.566895 10.97675037 3264.171387 55.39287949
07 08 2018 18:50
                 3019.63208 11.73906994 3475.412695 56.20116043
07 08 2018 19:00
                 3036.644043 11.76432991 3480.450175 60.14429855
07 08 2018 19:10 3098.522949 11.59482002 3444.377002 58.76002121
07 08 2018 19:20
                 2962.23999 11.1552
                                       3324.529527 56.71421814
07 08 2018 19:30
                 3123.86499 11.52705956 3428.435236 57.90962982
07 08 2018 19:40 3308.987061 12.48569965 3578.047369 63.65914917
07 08 2018 19:50 3461.343994 13.16516972 3600 66.75263214
07 08 2018 20:00 3487.979004 13.13704967 3600 65.69316101
07 08 2018 20:10 3337.758057 12.44577026 3574.85255 63.16870117
07 08 2018 20:20 3356.022949 12.48501968 3577.995015 62.87408829
                 3323.349121 12.7439003 3592.88305 66.0004425
07 08 2018 20:30
07 08 2018 20:40 3213.789063 12.25018978 3555.604879 65.68341827
07 08 2018 20:50 3189.779053 12.05840969 3530.74207 67.18958282
07 08 2018 21:00 3038.441895 11.46932983 3414.148132 64.42684937
07 08 2018 21:10 3105.996094 11.70184994 3467.776473 63.44784927
07 08 2018 21:20 2780.135986 11.01795006 3278.742843 63.39521027
07 08 2018 21:30 2821.565918 10.98890972 3268.512307 63.04442978
07 08 2018 21:40 2780.538086 11.0213604 3279.931653 62.05332184
07 08 2018 21:50 2707.853027 10.99827957 3271.834233 62.53501892
07 08 2018 22:00 2530.76709 10.65633965 3137.1144
                                                     60.60020065
07 08 2018 22:10 2380.345947 10.27867031 2953.548451 61.25592041
07 08 2018 22:20 2420.202881 10.39647961 3014.980029 61.71435928
07 08 2018 22:30 2601.388916 10.70666027 3158.733126 60.89397049
                 2573.826904 10.85476971 3218.718964 61.78105927
07 08 2018 22:40
                 2472.955078 10.46428967 3048.590071 60.07173157
07 08 2018 22:50
07 08 2018 23:00
                 2537.787109 10.65612984 3137.022919 60.66345978
07 08 2018 23:10 2395.978027 10.24604988 2935.840585 62.50875092
07 08 2018 23:20 2651.101074 10.73921013 3172.378577 63.70191956
07 08 2018 23:30 2573.708984 10.50321007 3067.317182 62.32791901
07 08 2018 23:40 2524.836914 10.6298399 3125.471081 61.55583954
07 08 2018 23:50 2601.730957 10.85711002 3219.624062 59.42163849
08 08 2018 00:00 2516.24292 10.71712971 3163.150924 60.52582169
08 08 2018 00:10 2510.493896 10.65904999 3138.295151 60.05978012
08 08 2018 00:20 2343.063965 10.31402969 2972.398269 60.25027847
08 08 2018 00:30 2320.084961 10.20856953 2915.113331 59.65113831
                 1981.072998 9.333455086 2360.78515 56.14247894
08 08 2018 00:40
08 08 2018 00:50 1953.582031 9.196855545 2271.589869 56.2120018
08 08 2018 01:00
                 2236.341064 9.823065758 2677.089934 58.4242897
08 08 2018 01:10
                 2047.807007 9.295556068 2335.996396 55.41400146
08 08 2018 01:20
                 1458.203979 8.04647541 1556.722566 53.8995285
08 08 2018 01:30
                 1319.072998 7.702493191 1364.509834 51.15409851
08 08 2018 01:40
                 1999.021973 9.28734684 2330.630826 58.31399155
08 08 2018 01:50
                 2038.312012 9.291950226 2333.639433 57.52405167
08 08 2018 02:00 2286.386963 9.914211273 2737.596925 56.57181931
08 08 2018 02:10 1779.69397 8.599634171 1889.780916 52.77280045
08 08 2018 02:20 1843.530029 8.875890732 2064.310867 49.60385132
08 08 2018 02:30 1947.228027 8.988098145 2136.32108 51.48371124
```

```
08 08 2018 02:40 2094.638916 9.276943207 2323.833085 50.9695015
08 08 2018 02:50
                 2248.187988 9.912014961 2736.170671 57.07463074
08 08 2018 03:00
                 2107.673096 9.524076462 2458.849158 56.3096199
08 08 2018 03:10 1723.025024 8.678621292 1939.230187 57.37625122
08 08 2018 03:20 2081.035889 9.468600273 2449.37403 58.34296036
08 08 2018 03:30
                 2458.019043 10.33714962 2984.531201 59.56653976
08 08 2018 03:40
                 2593.383057 10.83337021 3210.382017 62.37170029
                 2673.758057 10.87798023 3227.637674 64.14852905
08 08 2018 03:50
08 08 2018 04:00
                 2704.51709 10.98993015 3268.875061 65.78999329
                 2992.684082 11.85035038 3496.737423 67.42301941
08 08 2018 04:10
08 08 2018 04:20
                 3047.458984 11.89027023 3503.846505 66.13902283
08 08 2018 04:30 2926.216064 11.44332027 3407.496053 64.33184052
08 08 2018 04:40 2848.822998 11.3299799 3376.917841 64.71504211
08 08 2018 04:50 2755.374023 11.31688976 3373.217007 67.03056335
08 08 2018 05:00 2513.853027 10.68317986 3148.725059 66.48638916
08 08 2018 05:10 2410.696045 10.47436047 3053.474889 66.68540192
08 08 2018 05:20 2132.754883 9.734371185 2615.567483 64.52773285
08 08 2018 05:30 2192.860107 9.959238052 2766.495808 65.54444885
08 08 2018 05:40 2249.98291 10.05617046 2826.535582 68.54960632
08 08 2018 05:50 2434.24707 10.49635983 3064.050591 69.74046326
08 08 2018 06:00 2361.9729
                             10.34599972 2989.135658 68.26599884
08 08 2018 06:10 2396.981934 10.28619003 2957.587067 67.68370056
08 08 2018 06:20
                 2076.273926 9.569564819 2494.076273 65.81944275
08 08 2018 06:30
                 1450.526001 8.277121544 1692.459618 60.6807518
08 08 2018 06:40 1755.447998 8.843828201 2043.841357 60.42483902
08 08 2018 06:50 1361.631958 7.896856785 1471.495597 54.79888916
08 08 2018 07:00 1373.922974 7.978028774 1517.439869 54.95980072
08 08 2018 07:10 1583.811035 8.4204216 1779.154079 60.16165161
                 1853.974976 9.062277794 2184.214013 58.77761841
08 08 2018 07:20
                 1515.748047 8.369342804 1748.060801 57.26618958
08 08 2018 07:30
08 08 2018 07:40
                 1699.475952 8.769370079 1996.507314 58.82984924
08 08 2018 07:50 1625.819946 8.562749863 1866.8281
                                                     58.5134201
08 08 2018 08:00
                 1991.420044 9.28984642 2332.264405 57.17322922
08 08 2018 08:10
                 1895.420044 9.152150154 2242.501744 56.58771133
                 1668.719971 8.734074593 1974.173944 57.99205017
08 08 2018 08:20
08 08 2018 08:30
                 1482.465942 8.263669014 1684.409066 60.38861084
08 08 2018 08:40
                 789.6920776 6.426506996 777.5417537 42.25598907
08 08 2018 08:50
                 860.2960815 6.783299923 921.3501502 33.37968826
08 08 2018 09:00
                 768.149292 6.682905197 879.4158171 38.41242981
                 612.8258057 5.957858086 610.866278 53.30286026
08 08 2018 09:10
08 08 2018 09:20
                 542.7111206 5.997714996 624.2295065 38.75614166
08 08 2018 09:30 585.8297729 5.908778191 594.6433258 38.64355087
08 08 2018 09:40
                 821.284729 6.598960876 845.2475745 40.06137085
08 08 2018 09:50
                 720.0986938 6.176133156 685.0368286 46.90694046
08 08 2018 10:00
                 619.9301758 6.15536499 677.6666679 34.16561127
08 08 2018 10:10
                 870.4556274 6.712152004 891.510567 29.6527195
08 08 2018 10:20
                 880.5358887 6.713366985 892.0151588 31.68331909
08 08 2018 10:30
                 912.8383789 6.985640049 1009.537551 29.83683968
08 08 2018 10:40
                 824.8510742 6.649119854 865.5670987 31.24523926
08 08 2018 10:50
                 907.2562866 6.900491238 971.8153796 24.9818306
08 08 2018 11:00
                 1183.156982 7.519303799 1267.921548 23.9335804
08 08 2018 11:10
                 1316.319946 7.827319145 1432.714753 26.23427963
08 08 2018 11:20
                 1430.177002 8.218791962 1657.667689 20.24077988
08 08 2018 11:30
                 1085.659058 7.302059174 1157.977356 20.75285912
08 08 2018 11:40
                 848.2883911 6.696273804 884.9319835 16.77967072
08 08 2018 11:50
                 1026.083008 7.207273006 1112.092638 22.71121979
08 08 2018 12:00
                 1018.21698 7.152307034 1086.051882 19.76144028
08 08 2018 12:10 907.7675171 6.973581791 1004.140479 20.15876007
08 08 2018 12:20 1767.967041 8.720888138 1965.848234 18.33027077
```

```
08 08 2018 12:30
                 1897.472046 9.141647339 2235.676518 23.4175396
08 08 2018 12:40
                 2906.474121 11.29695034 3367.511411 24.33325958
08 08 2018 12:50
                 3052.706055 11.44495964 3407.919308 26.20326996
08 08 2018 13:00
                 3386.591064 12.17409039 3546.463678 25.43321991
08 08 2018 13:10
                 3265.558105 12.00701046 3523.035922 27.05747986
08 08 2018 13:20
                 2956.788086 11.26550961 3358.346051 26.27080917
08 08 2018 13:30
                 3011.979004 11.11633015 3311.986605 27.39435005
08 08 2018 13:40
                 3241.687988 11.85669041 3497.885353 26.42968941
                 3332.256104 12.39500999 3570.43507 28.74910927
08 08 2018 13:50
                 3324.673096 12.25467014 3556.11381 29.23387909
08 08 2018 14:00
08 08 2018 14:10
                 2985.293945 11.26249027 3357.454953 32.46109009
08 08 2018 14:20
                 3099.676025 11.42953968 3403.916907 35.86457062
08 08 2018 14:30
                 2937.499023 10.91291046 3240.818928 32.12984085
08 08 2018 14:40
                 3201.833008 11.79343033 3486.109449 34.32772064
08 08 2018 14:50 3306.378906 12.14410019 3542.601132 38.04148102
08 08 2018 15:00
                 3140.361084 11.64159966 3454.869647 33.79425812
08 08 2018 15:10
                 2587.62207 10.28761005 2958.347898 33.92161942
08 08 2018 15:20
                 3240.365967 12.2459898 3555.124859 38.41273117
                 3359.090088 12.31497955 3562.651129 36.67451096
08 08 2018 15:30
                 3076.284912 11.46689987 3413.53235 35.29077148
08 08 2018 15:40
                 3227.396973 12.0030899 3522.429663 35.9244194
08 08 2018 15:50
                 3084.537109 11.79487991 3486.387343 39.33615875
08 08 2018 16:00
08 08 2018 16:10
                 2799.788086 10.87594032 3226.858973 37.4183197
08 08 2018 16:20
                 2250.802002 9.740384102 2619.822169 36.91326141
08 08 2018 16:30 2493.62793 10.28452969 2956.696739 35.78144073
08 08 2018 16:40 2663.927002 10.5987196 3111.567296 38.02743912
08 08 2018 16:50 2784.643066 10.68167973 3148.080938 41.55931854
08 08 2018 17:00 2404.456055 10.04491043 2819.711391 36.81108093
08 08 2018 17:10 3005.629883 11.20368004 3339.712796 31.01184082
                 3213.574951 11.66983032 3461.001751 32.54859161
08 08 2018 17:20
08 08 2018 17:30
                 3375.060059 11.85593987 3497.749833 32.35243988
08 08 2018 17:40
                 2847.335938 10.80214024 3198.017185 35.81256866
08 08 2018 17:50
                 2425.816895 9.963766098 2769.366201 44.54558945
08 08 2018 18:00
                 1899.871948 8.748462677 1983.269649 44.22451019
                 1777.977051 8.83182621 2036.192098 41.27661896
08 08 2018 18:10
08 08 2018 18:20
                 2859.037109 11.16322994 3327.079563 57.79359055
08 08 2018 18:30
                 3012.695068 11.4361496 3405.638401 53.72064972
                 3257.540039 11.89381027 3504.463334 49.89271164
08 08 2018 18:40
08 08 2018 18:50
                 2659.75
                             10.46179962 3047.378053 52.05023956
08 08 2018 19:00
                 3164.196045 11.79804039 3486.991907 53.32062149
08 08 2018 19:10
                 2633.396973 10.42160988 3027.582671 55.45820999
                 2496.913086 10.33864021 2985.308259 56.41371155
08 08 2018 19:20
08 08 2018 19:30
                 2663.444092 10.4057703 3019.659513 54.6985817
08 08 2018 19:40
                 2657.293945 10.89503956 3234.111166 57.34328079
08 08 2018 19:50
                 2751.535889 11.35186958 3383.027468 56.1648407
08 08 2018 20:00
                 2951.85498 11.54129982 3431.85917 52.44121933
08 08 2018 20:10
                 2822.76709 11.03857994 3285.893949 49.25447083
                 2538.913086 10.19361019 2906.72573 48.17893982
08 08 2018 20:20
08 08 2018 20:30
                 1988.495972 9.177629471 2259.073136 46.59095001
08 08 2018 20:40
                 2538.397949 10.60678959 3115.196787 50.59228134
08 08 2018 20:50
                 1839.916016 8.839538574 2041.106605 42.23728943
08 08 2018 21:00
                 2148.868896 9.434227943 2426.819057 42.60409927
08 08 2018 21:10
                 2122.98291 9.599580765 2516.914266 47.35232162
08 08 2018 21:20
                 2132.065918 9.554019928 2482.121968 45.14384079
08 08 2018 21:30
                 2462.23999 10.35540962 2994.007229 52.06555939
08 08 2018 21:40
                 2727.584961 10.79874992 3196.660637 55.73228836
08 08 2018 21:50 2717.218994 10.81011963 3201.198915 54.13169098
08 08 2018 22:00 2605.260986 10.23946953 2932.231164 51.23136902
08 08 2018 22:10 1939.168945 8.980572701 2131.474489 52.35715866
```

```
08 08 2018 22:20 2229.445068 9.7563591
                                         2631.066274 51.07839966
08 08 2018 22:30
                 2597.731934 10.41810989 3025.837869 54.95555115
08 08 2018 22:40
                 2528.101074 10.57365036 3100.184464 51.22750854
08 08 2018 22:50
                 1882.496948 8.978952408 2130.431281 50.60549927
08 08 2018 23:00
                 2163.708008 9.60024929 2517.419267 48.99908829
08 08 2018 23:10
                 2184.00293 9.663485527 2564.474545 52.94844055
08 08 2018 23:20
                 1925.44397 9.148314476 2240.008748 55.65010071
                 2325.660889 9.822096825 2676.432056 55.26110077
08 08 2018 23:30
08 08 2018 23:40
                 2701.633057 10.69596004 3154.18956 55.37918854
                             10.74318981 3174.028845 53.23880005
08 08 2018 23:50
                 2654.8479
09 08 2018 00:00
                 2847.016113 10.85488987 3218.765467 50.44617844
09 08 2018 00:10
                 2823.774902 10.8685503 3224.029674 51.39186096
09 08 2018 00:20
                 2540.364014 10.41991997 3026.740641 51.29759979
09 08 2018 00:30
                 2292.938965 9.921804428 2742.515849 50.77626038
09 08 2018 00:40
                 2858.816895 11.07785034 3299.241499 52.86978912
09 08 2018 00:50
                 2732.705078 10.74308014 3173.98342 57.33697128
09 08 2018 01:00
                 3051.754883 11.30986023 3371.214966 55.61240005
09 08 2018 01:10
                 3063.284912 11.51375961 3425.201707 56.88576889
09 08 2018 01:20
                 2946.187988 11.33561039 3378.498796 56.55585861
                 2411.281006 9.983672142 2781.907936 54.52228928
09 08 2018 01:30
                 2779.323975 10.74884033 3176.365227 53.32083893
09 08 2018 01:40
                 2369.644043 10.07989025 2840.783458 52.92644882
09 08 2018 01:50
09 08 2018 02:00
                 2130.768066 9.229293823 2292.730859 49.30636978
09 08 2018 02:10
                 2423.782959 10.11067963 2859.021531 55.80104065
09 08 2018 02:20 2429.561035 9.86065197 2702.370678 51.20743942
09 08 2018 02:30 2536.75708 10.21621037 2919.372139 60.03046036
09 08 2018 02:40 2433.009033 10.15528011 2884.932402 53.08636856
09 08 2018 02:50 2938.13208 10.96039009 3258.276995 49.33916092
09 08 2018 03:00 2857.166992 10.85947037 3220.535579 52.01560974
                 2309.665039 9.491028786 2464.098063 47.42795181
09 08 2018 03:10
09 08 2018 03:20
                 2654.715088 10.41028023 3021.922463 51.0830307
09 08 2018 03:30
                 2581.958984 10.2734499 2950.735182 49.80643082
09 08 2018 03:40
                 2181.346924 9.30331707 2341.070312 49.01079178
09 08 2018 03:50
                 2119.531982 9.318593025 2351.060879 45.62205887
                 2965.773926 11.23894024 3350.438523 50.28330994
09 08 2018 04:00
09 08 2018 04:10
                 3305.645996 12.00829983 3523.23473 53.54352188
                 3401.822998 12.27377987 3558.248252 52.55973816
09 08 2018 04:20
                 2676.427002 10.2560997 2941.328833 50.92702103
09 08 2018 04:30
09 08 2018 04:40
                 2642.054932 10.40886974 3021.215325 50.46781921
09 08 2018 04:50
                 2215.906982 9.434528351 2427.016124 49.69400024
                 1912.932007 8.869947433 2060.512735 46.01671982
09 08 2018 05:00
09 08 2018 05:10 1838.489014 8.454385757 1799.941002 49.19512939
09 08 2018 05:20
                 2246.308105 9.404637337 2407.413289 49.21162033
09 08 2018 05:30
                 1957.270996 9.112656593 2216.854897 55.27904129
09 08 2018 05:40
                 2343.440918 9.692988396 2585.950033 51.56267166
09 08 2018 05:50
                 2281.862061 9.718903542 2604.566059 55.47962952
09 08 2018 06:00
                 2548.618896 10.38315964 3008.229448 57.97307968
                 1998.483032 9.340530396 2365.415999 57.42430115
09 08 2018 06:10
09 08 2018 06:20
                 1330.366943 7.780860901 1407.113868 58.84844971
09 08 2018 06:30
                 728.6038208 6.29984808 729.8990167 56.11510849
09 08 2018 06:40
                 1044.860962 7.138906002 1079.764826 56.24837112
09 08 2018 06:50
                 1102.110962 7.299023151 1156.488074 53.37353897
09 08 2018 07:00
                 787.1937256 6.521397114 814.3860771 48.99668884
09 08 2018 07:10
                 870.7828979 6.798841953 927.9479952 41.19384003
09 08 2018 07:20
                 973.3041992 7.200139999 1108.690085 40.38587952
09 08 2018 07:30
                 1413.777954 7.874291897 1458.851599 43.70497894
09 08 2018 07:40
                 1139.19397 7.239570141 1127.586487 46.60845184
09 08 2018 07:50 1200.239014 7.550146103 1283.877551 37.50843811
09 08 2018 08:00 1301.678955 7.751770973 1391.213104 30.00379944
```

```
09 08 2018 08:10
                 1058.583008 7.275948048 1145.211629 30.57288933
                 1217.744995 7.669868946 1346.994902 22.54488945
09 08 2018 08:20
                 820,2036133 6,689288139 882,046974 35,84334946
09 08 2018 08:30
09 08 2018 08:40
                 1157.724976 7.457240105 1235.886125 30.54619026
09 08 2018 08:50
                 1208.5
                             7.639032841 1330.562359 32.57278061
09 08 2018 09:00
                 720.43927
                             6.433049202 780.0501242 32.28339005
09 08 2018 09:10
                 1194.891968 7.695538044 1360.764776 27.07308006
                 1237.963989 7.475010872 1245.037251 31.36296082
09 08 2018 09:20
09 08 2018 09:30
                 1422.561035 8.098814964 1587.081558 30.77893066
09 08 2018 09:40
                 1204.787964 7.607851982 1314.068995 33.42354965
09 08 2018 09:50
                 1287.008057 7.84084177 1440.21336 31.6273098
09 08 2018 10:00
                 1171.258057 7.450446129 1232.400256 35.03807831
09 08 2018 10:10
                 1400.749023 7.700327873 1363.343261 31.0152607
09 08 2018 10:20
                 1361.151978 8.000881195 1530.501366 28.46421051
09 08 2018 10:30
                 1398.125
                             7.918251991 1483.536201 33.89883041
09 08 2018 10:40
                 1587.297974 8.315479279 1715.499668 27.4402504
09 08 2018 10:50
                 1766.678955 8.823470116 2030.870798 23.19832039
09 08 2018 11:00
                 1805.04895 8.792277336 2011.038662 25.03611946
09 08 2018 11:10
                 2051.395996 9.273853302 2321.814601 26.10625076
09 08 2018 11:20
                 1755 8.874230385 2063.249632 31.58143997
                 1938.253052 9.113637924 2217.491563 33.10850906
09 08 2018 11:30
                 2218.293945 9.762861252 2635.618103 32.18824005
09 08 2018 11:40
09 08 2018 11:50
                 1983.588989 9.381701469 2392.380168 33.26934052
09 08 2018 12:00
                 2410.934082 10.37092972 3001.98793 32.73928833
09 08 2018 12:10
                 2484.394043 9.916757584 2739.248518 32.24435043
09 08 2018 12:20
                 3047.881104 11.34770966 3381.873979 38.43138123
09 08 2018 12:30
                 3399.960938 12.30000973 3561.082676 37.48101044
09 08 2018 12:40 3411.769043 12.40863991 3571.660581 38.24502182
                 3294.068115 11.79477978 3486.368158 38.26554108
09 08 2018 12:50
                 3462.093018 12.32635975 3563.819652 36.29227066
09 08 2018 13:00
                 3434.947021 12.3954401 3570.474186 36.51353836
09 08 2018 13:10
09 08 2018 13:20
                 3143.2229
                            11.32454967 3375.386916 34.39403152
09 08 2018 13:30
                 3094.590088 11.4282999 3403.593043 35.24555969
                 2935.907959 11.02443027 3280.999524 37.41101074
09 08 2018 13:40
                 2728.024902 10.73149967 3169.170075 36.68655014
09 08 2018 13:50
                 2592.031006 10.39185047 3012.639549 38.97505188
09 08 2018 14:00
09 08 2018 14:10
                 2655.668945 10.5205698 3075.539201 37.75442886
09 08 2018 14:20
                 2892.705078 10.86544037 3222.835139 40.95130157
09 08 2018 14:30
                 2655.983887 10.48295975 3057.624293 40.67406082
09 08 2018 14:40 2468.389893 10.13860035 2875.312166 38.09553909
09 08 2018 14:50 2389.794922 9.775075912 2644.130395 40.1599884
09 08 2018 15:00 1943.011963 8.984685898 2134.123212 41.54589081
09 08 2018 15:10
                 2999.137939 11.24650002 3352.703654 42.65864182
09 08 2018 15:20
                 3067.778076 11.31305981 3372.127491 40.91447067
09 08 2018 15:30
                 3196.173096 11.81989002 3491.122249 39.90927887
09 08 2018 15:40
                 2880.25708 10.65262985 3135.495208 34.75616074
                 3016.834961 11.23027992 3347.828724 44.42493057
09 08 2018 15:50
                 3363.638916 11.88741016 3503.346543 42.71591949
09 08 2018 16:00
                 3277.106934 11.73402977 3474.393571 42.77719879
09 08 2018 16:10
09 08 2018 16:20
                 2872.690918 10.83306026 3210.260458 42.73265839
09 08 2018 16:30
                 3076.148926 11.24265957 3351.554458 44.3645401
09 08 2018 16:40
                 3046.716064 11.33565998 3378.512692 43.13906097
09 08 2018 16:50
                 2872.165039 10.65563011 3136.804985 45.89416885
09 08 2018 17:00
                 3197.552002 11.62345028 3450.848049 48.63663864
09 08 2018 17:10
                 3089.564941 11.42490005 3402.703326 49.76956177
09 08 2018 17:20
                 3192.542969 11.36314964 3386.137413 48.92021942
09 08 2018 17:30
                 3518.913086 12.69027042 3590.619427 48.36209106
09 08 2018 17:40 3345.614014 12.21150017 3551.075099 49.07585144
09 08 2018 17:50 3189.995117 11.72469044 3472.492811 48.07722092
```

```
09 08 2018 18:00 3253.314941 11.7364502 3474.883564 48.00099945
                 3388.647949 12.24221992 3554.691572 48.34970856
09 08 2018 18:10
                 3160.299072 11.58180046 3441.382566 48.1538887
09 08 2018 18:20
09 08 2018 18:30 3431.25708 12.75370026 3593.251045 52.34506989
09 08 2018 18:40 3490.278076 12.69423008 3590.801045 50.2312088
09 08 2018 18:50 3433.927002 12.55885983 3583.267976 50.90343857
09 08 2018 19:00
                 3503.690918 12.9135704 3597.284799 51.79722977
09 08 2018 19:10
                 3543.533936 13.44493961 3600 53.41300964
09 08 2018 19:20
                 3505.475098 12.53174973 3581.428433 53.64696884
                 3596.756104 14.48215008 3600 56.09740829
09 08 2018 19:30
09 08 2018 19:40
                 3581.243896 14.20960999 3600 58.2335701
09 08 2018 19:50
                 3599.053955 14.24687958 3600 57.32521057
09 08 2018 20:00 3583.470947 13.57392025 3600
                                               56.41109085
09 08 2018 20:10 3548.594971 13.23738003 3600
                                              55.97623825
09 08 2018 20:20 3501.520996 13.25028992 3600 58.17855072
09 08 2018 20:30 3170.898926 11.43206024 3404.574397 55.81473923
09 08 2018 20:40 3093.476074 11.46214008 3412.322768 52.09835052
09 08 2018 20:50 3296.199951 12.16664028 3545.517968 54.9864502
09 08 2018 21:00 3255.985107 11.60033989 3445.636759 55.79835892
09 08 2018 21:10 3069.647949 11.21870995 3344.317173 54.45949173
09 08 2018 21:20 2750.450928 10.20891953 2915.308785 54.78028107
09 08 2018 21:30 2962.573975 10.70547962 3158.233205 49.30529022
09 08 2018 21:40 2926.957031 11.02653027 3281.728783 54.57316971
09 08 2018 21:50 3090.774902 11.31706047 3373.265497 54.01362991
09 08 2018 22:00 3164.710938 11.60334969 3446.321212 55.8818512
09 08 2018 22:10 3462.952881 12.21360016 3551.327195 51.68640137
09 08 2018 22:20 3268.697998 11.8645401 3499.296728 51.62471008
09 08 2018 22:30 3223.990967 11.66259003 3459.443319 54.60158157
09 08 2018 22:40 3386.568115 12.34212971 3565.404997 56.59539032
09 08 2018 22:50 2664.75708 10.82995033 3209.039482 54.56999969
09 08 2018 23:00
                 2618.670898 10.43167973 3032.583932 52.21715164
09 08 2018 23:10
                 2741.62207 10.51556015 3073.174743 51.39648056
09 08 2018 23:20
                 3201.801025 12.0771904 3533.446317 55.43560028
09 08 2018 23:30 3193.227051 11.57695007 3440.258694 59.85015106
09 08 2018 23:40 3457.154053 12.72299004 3592.050784 62.69079971
09 08 2018 23:50 3432.532959 12.50734043 3579.676594 61.68852997
10 08 2018 00:00 3479.585938 12.70116997 3591.113772 65.35305023
10 08 2018 00:10 3250.281982 11.82363033 3491.820693 66.32578278
10 08 2018 00:20 3386.865967 12.25387001 3556.023159 67.48117828
10 08 2018 00:30 3339.941895 12.16287994 3545.037171 66.8616333
10 08 2018 00:40 3537.321045 13.09599972 3600 67.11786652
10 08 2018 00:50 3503.559082 12.82275963 3595.447115 65.52321625
10 08 2018 01:00 3468.676025 12.69627953 3590.894137 67.81453705
10 08 2018 01:10 3474.743896 12.98670006 3597.906588 67.45240784
10 08 2018 01:20 3555.883057 13.40779018 3600 66.99526215
10 08 2018 01:30 3530.077881 13.47072029 3600 65.55433655
                 3530.374023 13.00747967 3600 65.63996887
10 08 2018 01:40
                 3498.802979 12.91740036 3597.336284 64.75984955
10 08 2018 01:50
10 08 2018 02:00
                 3587.006104 13.45524025 3600 63.42361069
10 08 2018 02:10
                 3592.9021
                             13.46331024 3600 64.04788971
10 08 2018 02:20
                 3500.944092 12.86565018 3596.462948 65.16220856
10 08 2018 02:30
                 3511.36499 12.75640011 3593.349957 66.20231628
10 08 2018 02:40
                 3521.512939 12.74118042 3592.778423 63.3989296
10 08 2018 02:50
                 3587.697021 13.6414299 3600 62.07722092
10 08 2018 03:00
                 3521.97998 12.94960022 3597.686306 60.18624115
10 08 2018 03:10
                 3584.397949 13.42920017 3600 59.34727097
10 08 2018 03:20 3557.049072 13.24077034 3600 61.01416016
10 08 2018 03:30 3538.322021 13.31536961 3600 61.1532402
10 08 2018 03:40 3593.420898 13.55027008 3600 63.37730026
```

```
3567.98999 13.59932041 3600 63.97135925
10 08 2018 03:50
                 3601.860107 14.0385704 3600 66.39571381
10 08 2018 04:00
                 3570.62793 13.84200001 3600
10 08 2018 04:10
                                               70.33692169
10 08 2018 04:20
                 3584.941895 13.40493011 3600 69.88115692
10 08 2018 04:30
                 3545.041992 13.54166985 3600 66.60507202
10 08 2018 04:40
                 3589.206055 13.61320972 3600 63.9240799
10 08 2018 04:50
                 3589.095947 13.57159996 3600
                                               67.18379211
                 3599.870117 13.82404041 3600
10 08 2018 05:00
                                               67.49112701
10 08 2018 05:10
                 3603.416016 14.74281979 3600
                                               67.46263123
                 3603.48291 15.33148003 3600
10 08 2018 05:20
                                               68.95111847
10 08 2018 05:30
                 3603.552002 15.17022038 3600
                                               69.1398468
10 08 2018 05:40
                 3594.379883 14.29500008 3600
                                              71.44545746
10 08 2018 05:50
                 3553.238037 13.46949005 3600 70.044487
10 08 2018 06:00
                 3420.860107 12.44155979 3574.501333 67.20982361
10 08 2018 06:10 3395.618896 12.09407997 3535.827661 63.3695488
10 08 2018 06:20
                 3181.879883 11.72778988 3473.125395 65.71489716
10 08 2018 06:30 2991.618896 11.13055038 3316.613761 63.95085144
10 08 2018 06:40 2969.073975 11.11124039 3310.319614 59.38579941
10 08 2018 06:50 3180.775879 11.63996029 3454.508948 57.97578812
10 08 2018 07:00 2979.386963 11.05366039 3291.060574 57.54772186
10 08 2018 07:10 3122.094971 11.6468401 3456.01927 55.14873886
                 2463.059082 10.3176899 2974.329159 57.07606125
10 08 2018 07:20
10 08 2018 07:30
                 2756.781006 10.60667038 3115.143295 59.13253021
10 08 2018 07:40
                 3061.595947 11.44011021 3406.665716 59.33784866
10 08 2018 07:50
                 3281.322998 11.96889019 3517.029352 60.22307968
10 08 2018 08:00 2535.209961 10.22714996 2925.439846 58.84590912
10 08 2018 08:10 2381.976074 10.10715961 2856.951035 58.95325089
10 08 2018 08:20
                 2629.768066 10.53341961 3081.573586 59.64833832
                 2547.268066 10.25442982 2940.418928 57.97975922
10 08 2018 08:30
                 3181.986084 11.81900978 3490.957512 59.14271927
10 08 2018 08:40
10 08 2018 08:50
                 2672.75708 10.64126015 3130.510869 60.98834991
10 08 2018 09:00
                 1372.151001 7.419642925 1216.683215 51.26185989
10 08 2018 09:10
                 2703.854004 10.57509041 3100.84276 60.81697845
10 08 2018 09:20
                 2655.858887 10.34235001 2987.239486 55.2038002
                 2763.416992 10.66689014 3141.700175 60.6144104
10 08 2018 09:30
                 2907.541992 10.9934597 3270.127939 58.88779831
10 08 2018 09:40
10 08 2018 09:50
                 2908.670898 11.13127995 3316.849956 59.73075104
10 08 2018 10:00
                 2395.74707 9.627326012 2537.739833 53.1550293
10 08 2018 10:10
                 1776.302979 8.113062859 1595.392615 40.17060852
                 2318.881104 9.612439156 2526.599627 52.1055603
10 08 2018 10:20
10 08 2018 10:30 2378.906982 9.555798531 2483.494149 52.94163895
10 08 2018 10:40 2087.363037 8.970653534 2125.089849 33.85239029
10 08 2018 10:50
                 2524.427979 10.26099014 2943.988956 48.44163132
10 08 2018 11:00
                 2770.937012 10.82094002 3205.488812 26.27807999
10 08 2018 11:10
                 2925.330078 10.94093037 3251.185253 24.44362068
10 08 2018 11:20
                 3473.271973 12.71201038 3591.588052 26.84271049
                 3253.594971 11.86435986 3499.264443 29.29154015
10 08 2018 11:30
                 3234.815918 12.27128983 3557.973452 32.01227951
10 08 2018 11:40
10 08 2018 11:50
                 3290.649902 11.85426044 3497.446228 34.75899887
10 08 2018 12:00
                 3485.345947 12.38422966 3569.445228 31.26647949
10 08 2018 12:10
                 3229.485107 12.04312038 3528.49662 33.35919189
10 08 2018 12:20
                 3237.724121 11.53048038 3429.261342 27.57605934
10 08 2018 12:30
                 3063.331055 11.52614975 3428.215141 32.89477158
10 08 2018 12:40
                 3123.826904 11.42630005 3403.069976 32.54093933
10 08 2018 12:50
                 3169.228027 11.64482975 3455.578862 33.16621017
10 08 2018 13:00
                 3257.172119 11.60583973 3446.886164 31.59423065
10 08 2018 13:10
                 3369.887939 12.2528801 3555.910864 34.91109848
10 08 2018 13:20 3381.628906 12.54450035 3582.307501 33.30664063
10 08 2018 13:30 3491.019043 12.68013 3590.143748 32.4179306
```

```
10 08 2018 13:40 3379.854004 12.94845009 3597.67635 33.69355011
10 08 2018 13:50
                 3583.712891 13.88589954 3600 36.50521851
10 08 2018 14:00
                 3575.738037 13.13673973 3600
                                              32.32804108
10 08 2018 14:10 3541.504883 12.88389969 3596.814787 36.99954987
10 08 2018 14:20 3357.881104 12.10910034 3537.90537 33.57086182
10 08 2018 14:30 3470.568115 12.59084988 3585.295728 34.63021088
10 08 2018 14:40
                 3463.072021 13.15882969 3600 35.4553299
                 3569.115967 13.11970997 3600 32.05860901
10 08 2018 14:50
10 08 2018 15:00
                 3515.012939 12.70339012 3591.212317 38.49874878
                 3467.454102 12.66495991 3589.403702 40.17116928
10 08 2018 15:10
10 08 2018 15:20
                 3444.400879 12.90834045 3597.211107 40.17406845
10 08 2018 15:30
                 3595.055908 14.50728035 3600 42.35755157
10 08 2018 15:40
                 3586.400879 13.96426964 3600 38.63063049
10 08 2018 15:50
                 3603.318115 15.26669025 3600 39.34912872
10 08 2018 16:00
                 3602.623047 14.71642017 3600 41.12509155
10 08 2018 16:10 3586.951904 14.32592964 3600 41.02635956
10 08 2018 16:20 3600.393066 13.28919983 3600 42.34975815
10 08 2018 16:30 3511.445068 12.73925972 3592.703885 44.75875092
10 08 2018 16:40 3511.343018 12.52643013 3581.054382 46.40929031
10 08 2018 16:50 3483.952881 12.60404968 3586.087531 47.73857117
10 08 2018 17:00 3447.918945 12.33718014 3564.911656 49.51728058
10 08 2018 17:10 3410.614014 11.93739033 3511.876818 48.85992813
                             12.38945961 3569.927708 52.63048935
10 08 2018 17:20
                 3438.5
10 08 2018 17:30
                 3540.996094 13.15810013 3600 54.01597977
10 08 2018 17:40
                 3591.899902 13.64367008 3600 54.35391998
10 08 2018 17:50
                 3556.75708 13.34613991 3600 54.18320084
10 08 2018 18:00
                 3576.780029 13.36530018 3600 57.07474899
10 08 2018 18:10 3581.574951 13.60336018 3600 57.82041168
                 3603.537109 14.4086504 3600 59.39710999
10 08 2018 18:20
                 3602.931885 15.02783012 3600 59.57587051
10 08 2018 18:30
10 08 2018 18:40 3602.840088 15.07571983 3600 59.20243835
10 08 2018 18:50
                 3603.9021
                           15.49794006 3600 61.62520981
10 08 2018 19:00
                 3574.523926 14.79121971 3600
                                               61.38953018
                                               63.71281815
10 08 2018 19:10
                 3600.476074 15.7913599 3600
                 3599.550049 15.24077034 3600
10 08 2018 19:20
                                               61.25794983
10 08 2018 19:30
                 3603.631104 15.77836037 3600
                                               60.81386948
10 08 2018 19:40
                 3603.784912 16.18855095 3600
                                               60.04241943
10 08 2018 19:50
                 3603.668945 15.27159977 3600
                                               58.0469017
                 3603.843994 14.79714966 3600
10 08 2018 20:00
                                               57.03158188
10 08 2018 20:10
                 3603.687988 14.32686043 3600
                                               55.83084106
10 08 2018 20:20
                 3601.720947 14.67020035 3600
                                               56.11705017
10 08 2018 20:30 3603.842041 14.83802032 3600
                                               56.42456055
10 08 2018 20:40
                 3603.915039 14.81709003 3600
                                               57.10020828
                                              58.46884155
10 08 2018 20:50
                 3603.779053 14.85206032 3600
10 08 2018 21:00
                 3603.512939 15.47381973 3600 60.18732834
10 08 2018 21:10
                 3603.471924 16.02466965 3600
                                               61.22668839
                 3603.230957 15.36835003 3600
10 08 2018 21:20
                                               60.00566101
                 3603.304932 16.19252968 3600
10 08 2018 21:30
                                               60.51280975
                 3603.51709 16.52313042 3600
10 08 2018 21:40
                                               60.8862381
10 08 2018 21:50
                 3603.552002 16.06501007 3600
                                               61.70074844
                 3603.496094 15.83355999 3600
10 08 2018 22:00
                                               60.47895813
10 08 2018 22:10
                 3603.475098 15.99234009 3600
                                               60.80519104
10 08 2018 22:20
                 3603.62793 15.32771015 3600
                                               58.74645996
10 08 2018 22:30
                 3601.270996 15.09539032 3600
                                               59.4845314
10 08 2018 22:40
                 3600.980957 14.7644701 3600
                                               60.43022156
10 08 2018 22:50
                 3603.048096 15.04936981 3600
                                               59.26596069
10 08 2018 23:00
                 3601.98291 14.75876045 3600 58.55189133
10 08 2018 23:10 3597.381104 13.96594048 3600 58.88130951
10 08 2018 23:20 3590.331055 14.10138035 3600 60.43981934
```

```
10 08 2018 23:30 3595.991943 14.60612011 3600 57.75540161
                 3603.191895 15.2754097 3600 58.840271
10 08 2018 23:40
10 08 2018 23:50
                 3602.989014 15.3579998
                                         3600
                                              58.50996017
11 08 2018 00:00
                 3593.978027 14.6992197 3600 59.4435997
                 3602.725098 15.21971035 3600 59.90956116
11 08 2018 00:10
11 08 2018 00:20
                 3598.529053 14.59512997 3600 58.61252975
11 08 2018 00:30
                 3596.601074 13.88887024 3600 59.86457062
                 3577.020996 13.77077961 3600 60.2661705
11 08 2018 00:40
11 08 2018 00:50
                 3275.524902 11.89622974 3504.883643 59.83333969
                 3600.821045 14.6564703 3600
11 08 2018 01:00
                                              59.5125885
11 08 2018 01:10
                 3585.038086 14.49514961 3600
                                              60.72069931
11 08 2018 01:20
                 3588.010986 13.97533035 3600
                                              61.38262939
11 08 2018 01:30
                 3603.4021
                             14.48305988 3600
                                               61.08813095
11 08 2018 01:40
                 3597.360107 14.37841034 3600
                                               60.35078049
11 08 2018 01:50
                 3596.656006 14.70956039 3600
                                               60.68917084
11 08 2018 02:00
                 3603.264893 14.93879032 3600
                                              58.9549408
11 08 2018 02:10
                 3597.465088 14.45131016 3600 60.93302155
11 08 2018 02:20
                 3594.98291 14.27361965 3600 60.2857399
11 08 2018 02:30
                 3601.710938 14.2279501 3600 61.19935989
                 3599.903076 14.31476021 3600
11 08 2018 02:40
                                               61.37276077
11 08 2018 02:50
                 3602.466064 14.87510014 3600
                                               60.75828171
11 08 2018 03:00
                 3601.844971 15.06764984 3600
                                               60.42953873
11 08 2018 03:10
                 3603.104004 14.65787983 3600
                                               58.16130829
                                               57.3074913
11 08 2018 03:20
                 3601.570068 14.6498003 3600
                                              55.02970886
11 08 2018 03:30
                 3602.516113 14.19303036 3600
11 08 2018 03:40
                 3595.906982 14.01914978 3600
                                               57.13594055
11 08 2018 03:50 3595.823975 14.61785984 3600
                                              56.67657852
11 08 2018 04:00 3584.681885 14.44484997 3600
                                              54.90581131
11 08 2018 04:10
                 3593.146973 14.02622032 3600
                                              52.81755829
11 08 2018 04:20
                 3601.912109 14.39457035 3600
                                              56.46350098
11 08 2018 04:30 3600.112061 13.60171986 3600 54.9291687
11 08 2018 04:40
                 3599.718994 14.21802998 3600 52.62104034
11 08 2018 04:50
                 3587.25293 14.41707993 3600
                                              52.06967926
11 08 2018 05:00
                 3602.531006 14.98091984 3600
                                              52.19527054
                 3602.603027 14.62287998 3600
11 08 2018 05:10
                                              51.9764595
11 08 2018 05:20
                 3602.968994 14.26430035 3600
                                               54.09445953
11 08 2018 05:30
                 3597.960938 15.24604034 3600
                                               57.2873497
11 08 2018 05:40
                 3603.259033 15.60206985 3600
                                              58.67433929
                 3603.292969 15.31645966 3600
11 08 2018 05:50
                                              57.88563919
11 08 2018 06:00
                 3603.63501 15.78124046 3600
                                               60.21646118
11 08 2018 06:10
                 3602.072998 15.07942009 3600
                                              62.68935013
11 08 2018 06:20 3573.064941 13.80373001 3600
                                              61.62794113
11 08 2018 06:30
                 3599.572021 14.3733902 3600
                                               63.16162872
11 08 2018 06:40
                 3588.621094 14.0061903 3600 62.15945816
11 08 2018 06:50
                 3584.043945 13.88648033 3600 59.52135086
11 08 2018 07:00
                 3602.552979 14.85838032 3600 61.71857834
                 3402.74707 13.22350025 3600
11 08 2018 07:10
                                              55.52170944
                 1226.712036 13.19592953 3600
                                              58.20011139
11 08 2018 07:20
11 08 2018 07:30 3604.039063 15.34245014 3600
                                               59.61193848
11 08 2018 07:40
                 3599.644043 14.87782001 3600
                                               58.09934998
11 08 2018 07:50
                 3594.762939 14.19890976 3600
                                               58.39410019
11 08 2018 08:00
                 3603.780029 15.03417015 3600
                                               55.76147079
11 08 2018 08:10
                 3597.917969 14.6134901 3600
                                               55.90393066
11 08 2018 08:20
                 3603.666992 14.95993996 3600
                                              55.12622833
11 08 2018 08:30
                 3604.125977 15.70471954 3600
                                              56.85300064
11 08 2018 08:40
                 3603.900879 15.8133297 3600
                                              55.65428162
11 08 2018 08:50
                 3604.150879 15.8953104 3600 56.52264023
11 08 2018 09:00 3603.483887 15.08463955 3600 51.40805817
11 08 2018 09:10 3580.547119 14.45046997 3600 47.42087173
```

```
11 08 2018 09:20 3603.214111 14.73806953 3600 49.0696907
11 08 2018 09:30 3598.410889 14.16948032 3600 48.46651077
11 08 2018 09:40 3597.388916 13.37672997 3600 42.34527969
11 08 2018 09:50 3597.716064 14.72288036 3600 48.23003006
11 08 2018 10:00 3592.034912 13.18509007 3600 41.31169128
11 08 2018 10:10 3577.259033 13.90503979 3600 40.08708954
11 08 2018 10:20 3148.691895 11.19594955 3337.325714 36.09368896
11 08 2018 10:30 3402.664063 12.32236004 3563.411302 37.32379913
11 08 2018 10:40 2217.364014 9.121842384 2222.815666 31.39307022
11 08 2018 10:50 2401.016113 9.702335358 2592.691006 27.43479919
11 08 2018 11:00 3160.970947 11.64330006 3455.24324 25.43847084
11 08 2018 11:10 3153.052002 11.61281013 3448.46136 28.92542076
11 08 2018 11:20 3254.883057 11.61645985 3449.282448 30.87328911
11 08 2018 11:30 3416.044922 12.43113995 3573.620363 30.08901978
11 08 2018 11:40 3217.022949 11.64309025 3455.197173 28.77773094
11 08 2018 11:50 3150.708008 11.43717957 3405.905859 23.09811974
11 08 2018 12:00 3576.24707 13.22270012 3600 23.62215996
11 08 2018 12:10 3541.333984 13.34657955 3600 27.25238037
11 08 2018 12:20 3330.781006 12.52567959 3581.00126 30.09544945
11 08 2018 12:30 3066.504883 11.44157982 3407.046111 31.92100906
11 08 2018 12:40 3210.041016 11.82528019 3492.127981 32.07146072
11 08 2018 12:50 3158.768066 11.61861038 3449.765077 33.35348892
11 08 2018 13:00 3428.712891 12.50216961 3579.293823 27.6541996
11 08 2018 13:10 3458.636963 12.03901958 3527.887633 29.01017952
11 08 2018 13:20 3479.833008 12.7191
                                         3591.888869 26.93646049
11 08 2018 13:30 3531.523926 12.82164955 3595.417294 30.10280991
11 08 2018 13:40 3544.594971 13.60293007 3600 36.30603027
11 08 2018 13:50 3578.412109 13.38858032 3600 38.42869186
11 08 2018 14:00 3587.730957 13.59288025 3600 36.71070862
11 08 2018 14:10 3587.582031 13.23163033 3600 37.67879868
11 08 2018 14:20 3498.871094 12.84694958 3596.052684 38.71509933
11 08 2018 14:30 3541.385986 13.05416965 3600 32.16368103
11 08 2018 14:40 3482.553955 12.50294018 3579.351123 30.22141075
11 08 2018 14:50 3511.399902 12.95328045 3597.7169
                                                    34.79877853
11 08 2018 15:00 3508.51001 12.73569965 3592.564296 34.57962036
11 08 2018 15:10 3498.920898 12.83467007 3595.75585 33.72188187
11 08 2018 15:20 3537.822021 13.33403015 3600 37.78585052
11 08 2018 15:30 3470.141113 12.41594982 3572.305913 38.10012817
11 08 2018 15:40 3490.888916 12.85585022 3596.254237 40.50814056
11 08 2018 15:50 3577.456055 13.41162014 3600 38.74934006
11 08 2018 16:00 3520.999023 13.09537983 3600 40.1783905
11 08 2018 16:10 3441.349121 13.06892967 3600 38.95330048
11 08 2018 16:20 3562.437012 13.02937031 3600 38.73427963
11 08 2018 16:30 3544.018066 12.59673023 3585.651699 43.30897903
11 08 2018 16:40 3600.49707 13.41116047 3600 43.32907104
11 08 2018 16:50 3582.808105 13.48250961 3600 43.46324158
11 08 2018 17:00 3562.950928 13.37629032 3600 41.17124939
11 08 2018 17:10 3470.638916 12.35955048 3567.110637 43.26893997
11 08 2018 17:20 3566.215088 12.85618973 3596.261698 42.60079956
11 08 2018 17:30 3573.355957 13.30856991 3600 46.45363998
11 08 2018 17:40 3573.927002 12.72618008 3592.181903 43.35681152
11 08 2018 17:50 3587.52002 13.71389008 3600 44.6155014
11 08 2018 18:00 3593.909912 13.48853016 3600 44.07894897
11 08 2018 18:10 3442.120117 12.12672997 3540.296059 45.37646103
11 08 2018 18:20 3558.951904 12.93243027 3597.518073 46.5014801
11 08 2018 18:30 3543.179932 13.3175602 3600 47.7649498
11 08 2018 18:40 3558.909912 13.17675972 3600 49.18070984
11 08 2018 18:50 3592.726074 13.33753967 3600 47.61000824
11 08 2018 19:00 3575.806885 12.73351955 3592.477898 49.49443054
```

```
11 08 2018 19:10 3600.343994 14.08854008 3600 52.93875885
                 3568.643066 12.91057968 3597.243137 53.9213295
11 08 2018 19:20
11 08 2018 19:30
                 3540.656006 12.79012012 3594.495676 55.56459045
11 08 2018 19:40 3336.229004 12.24483013 3554.991818 54.03205109
11 08 2018 19:50 3567.579102 12.53987026 3581.991142 52.74229813
                            12.42846966 3573.391889 53.41197968
11 08 2018 20:00 3497.875
11 08 2018 20:10 3485.438965 12.65124989 3588.705504 56.3780098
11 08 2018 20:20 3588.548096 12.81035995 3595.103874 54.40509033
11 08 2018 20:30 3600.136963 13.18626976 3600 54.78337097
11 08 2018 20:40
                 3579.958008 12.94544983 3597.64949 53.78588867
11 08 2018 20:50 3602.788086 13.49423027 3600 50.39226151
11 08 2018 21:00 3593.535889 13.95077991 3600 51.58498001
11 08 2018 21:10 3604.281006 13.79028988 3600 49.67337036
11 08 2018 21:20 3604.209961 14.29191017 3600 52.22294998
11 08 2018 21:30 3604.404053 13.45872021 3600 51.87092972
11 08 2018 21:40 3604.333008 13.22101021 3600 51.71271896
11 08 2018 21:50 3604.186035 13.28423977 3600 51.56867981
11 08 2018 22:00 3604.199951 13.6552496 3600 50.48823166
11 08 2018 22:10 3604.125
                           13.48503017 3600 53.50836945
                 3604.191895 13.21278
11 08 2018 22:20
                                         3600 54.46240997
11 08 2018 22:30
                 3601.253906 13.15769958 3600 54.52890015
                 3604.208984 13.47179985 3600 53.99335098
11 08 2018 22:40
11 08 2018 22:50
                 3602.858887 13.51076031 3600 56.20840836
11 08 2018 23:00 3603.39209 13.57363033 3600 59.00244904
11 08 2018 23:10 3567.966064 13.17658997 3600 56.45475006
11 08 2018 23:20 3577.055908 12.58677959 3585.046287 51.66651154
11 08 2018 23:30 3603.239014 12.71879959 3591.876272 50.67811966
11 08 2018 23:40 3604.180908 13.17957973 3600 52.45832062
11 08 2018 23:50 3604.128906 13.12621021 3600 50.54457092
12 08 2018 00:00 3603.900879 13.12139988 3600 52.27093887
12 08 2018 00:10 3588.541992 13.07754993 3600 55.40153885
12 08 2018 00:20 3521.184082 13.00601006 3600 57.1669693
12 08 2018 00:30 3585.418945 13.2266798 3600 58.3519516
12 08 2018 00:40 3385.343994 12.56361008 3583.578842 60.72935867
12 08 2018 00:50 3556.197998 12.6743803 3589.867273 58.23353958
12 08 2018 01:00 3586.297119 12.82246017 3595.439088 56.7910614
12 08 2018 01:10 3587.843994 13.5866003 3600 58.96683884
12 08 2018 01:20 3569.314941 13.45234966 3600 60.80607986
12 08 2018 01:30 3528.553955 13.03402996 3600 58.11022949
12 08 2018 01:40 3546.339111 13.31381989 3600 59.15402985
12 08 2018 01:50 3592.594971 13.33084011 3600 59.82258987
12 08 2018 02:00 3591.230957 13.26959038 3600 57.69993973
12 08 2018 02:10 3576.616943 13.18031979 3600 59.56742096
12 08 2018 02:20 3548.780029 12.93052006 3597.496758 59.36943054
12 08 2018 02:30 3533.236084 12.5752697 3584.327423 59.87430954
12 08 2018 02:40 3602.670898 13.30965042 3600 58.44897079
12 08 2018 02:50 3577.389893 13.05755997 3600 59.55249023
12 08 2018 03:00 3591.36792 13.26513958 3600 60.62287903
12 08 2018 03:10 3569.849121 13.33893013 3600 61.99850845
12 08 2018 03:20
                 3595.576904 13.30414963 3600 60.89836884
12 08 2018 03:30
                 3595.524902 13.74314976 3600 63.85686111
12 08 2018 03:40
                 3603.330078 14.22988987 3600 65.82034302
12 08 2018 03:50
                 3585.834961 13.64424992 3600 66.17749786
12 08 2018 04:00 3521.031006 12.63416958 3587.796547 63.07788849
12 08 2018 04:10 3588.910889 13.39702988 3600 66.86940002
12 08 2018 04:20 3563.186035 13.20189953 3600 66.08106995
12 08 2018 04:30 3369.159912 12.67416
                                        3589.856582 66.07089996
12 08 2018 04:40 3306.969971 12.56297016 3583.537164 67.69613647
12 08 2018 04:50 3363.197021 12.57808971 3584.505396 68.76389313
```

```
12 08 2018 05:00 3243.481934 12.09364033 3535.766279 68.17500305
                 3144.98999 11.88158989 3502.324662 66.43961334
12 08 2018 05:10
12 08 2018 05:20
                 2649.278076 10.67451954 3144.998688 65.88028717
12 08 2018 05:30 2610.126953 10.70693016 3158.847356 66.85296631
12 08 2018 05:40
                 2762.861084 10.9521904 3255.299478 66.29219055
12 08 2018 05:50
                 2722.253906 10.90878963 3239.278863 65.35814667
                 2661.99292 10.75652027 3179.528079 62.92798996
12 08 2018 06:00
                 1991.802002 9.294160843 2335.084373 62.37736893
12 08 2018 06:10
12 08 2018 06:20
                 1851.745972 9.041376114 2170.697986 59.27827835
12 08 2018 06:30
                 2309.282959 9.799824715 2661.223949 60.36988068
12 08 2018 06:40 2168.495117 9.593038559 2511.963932 61.48675156
12 08 2018 06:50 2562.73291 10.59947968 3111.909862 62.93854141
12 08 2018 07:00 2937.724121 11.2174902 3343.945308 62.66007996
12 08 2018 07:10 2796.090088 10.53001022 3079.976776 59.40864182
12 08 2018 07:20 2075.965088 9.239625931 2299.470301 58.38724899
12 08 2018 07:30 2703.89209 10.35227966 2992.389585 54.11262894
12 08 2018 07:40 2746.333984 10.80101967 3197.569128 58.36791992
12 08 2018 07:50 2748.326904 10.5544796 3091.369102 54.19807816
12 08 2018 08:00 2603.371094 10.48933029 3060.685436 59.36093903
12 08 2018 08:10 2946.490967 11.27264977 3360.445696 56.83971024
12 08 2018 08:20
                 2583.047119 10.3800602 3006.651589 54.79777908
                 2670.586914 10.48486996 3058.543323 53.90517044
12 08 2018 08:30
12 08 2018 08:40
                 2302.000977 9.692259789 2585.423301 52.13759995
12 08 2018 08:50
                 2914.121094 11.07334995 3297.729402 58.98667908
12 08 2018 09:00 2159.593994 9.375424385 2388.267301 58.22673035
12 08 2018 09:10 1970.02002 8.940113068 2105.458107 53.57640076
12 08 2018 09:20 1673.646973 8.248664856 1675.448563 41.93275833
12 08 2018 09:30 1941.982056 8.92206955 2093.878634 52.05442047
                 1628.609985 7.932094097 1491.352817 39.62915039
12 08 2018 09:40
                 1893.13501 8.877111435 2065.091181 28.69350052
12 08 2018 09:50
12 08 2018 10:00 2034.57605 9.226031303 2290.603336 26.41116905
12 08 2018 10:10 2128.549072 9.286572456 2330.124762 28.05076027
12 08 2018 10:20 2515.35498 10.2568903 2941.759341 26.45656967
12 08 2018 10:30 2650.63208 10.6405201 3130.185295 26.8633709
12 08 2018 10:40 2933.352051 11.30303001 3369.259855 29.82551956
12 08 2018 10:50 2748.958984 10.84671021 3215.59199 30.29545021
12 08 2018 11:00 2477.083008 10.0229702 2806.301723 29.22743034
                 2684.76001 10.86151981 3221.325956 29.26454926
12 08 2018 11:10
12 08 2018 11:20 2299.092041 9.715254784 2601.95894 27.8615303
12 08 2018 11:30 2122.770996 9.565292358 2490.799325 25.10568047
12 08 2018 11:40 1811.095947 8.871474266 2061.488312 24.64578056
12 08 2018 11:50 1705.107056 8.598295212 1888.946112 24.02170944
12 08 2018 12:00
                 1878.56604 8.928545952 2098.033216 23.86362076
12 08 2018 12:10
                 1835.567017 8.828490257 2034.06728 23.33077049
12 08 2018 12:20
                 1456.241943 7.99913311 1529.500306 23.98354912
12 08 2018 12:30
                 1806.177979 8.904504776 2082.620464 23.78722
                 2040.625977 9.225290298 2290.120157 24.99220085
12 08 2018 12:40
                 2014.371948 9.264720917 2315.850119 25.41855049
12 08 2018 12:50
12 08 2018 13:00 2069.656006 9.403489113 2406.660513 26.79103088
                 1828.605957 8.98470211 2134.133654 25.05849075
12 08 2018 13:10
12 08 2018 13:20
                 1984.016968 9.308958054 2344.759002 27.8667202
12 08 2018 13:30
                 1752.317993 8.775018692 2000.087904 31.18140984
12 08 2018 13:40
                 1862.258057 9.076187134 2193.217214 26.19346046
12 08 2018 13:50
                 2369.406982 10.03411007 2813.128967 27.60784912
12 08 2018 14:00
                 2120.656006 9.276238441 2323.372678 27.03264999
12 08 2018 14:10 2506.287109 10.1071701 2856.957212 29.78331947
12 08 2018 14:20 2530.799072 10.17593002 2896.727468 31.68276024
12 08 2018 14:30 2632.069092 10.42090988 3027.233979 33.08274078
12 08 2018 14:40 2599.823975 10.29942036 2964.653392 34.8600502
```

```
12 08 2018 14:50 3196.74707 11.92411041 3509.652927 35.87060165
                 2893.638916 10.96683025 3260.604673 31.39825058
12 08 2018 15:00
12 08 2018 15:10 2647.094971 10.28361034 2956.20342 34.73073959
12 08 2018 15:20 2865.388916 10.94725037 3253.498101 36.14818954
12 08 2018 15:30 2483.773926 9.873786926 2711.09596 36.37147903
12 08 2018 15:40 2982.643066 11.00008011 3272.470283 35.07038116
12 08 2018 15:50 2760.593018 10.59675026 3110.679021 38.23733139
12 08 2018 16:00 3036.250977 11.38578987 3392.300946 37.93756866
12 08 2018 16:10 2894.304932 10.99287987 3269.922312 39.55147934
12 08 2018 16:20 2724.416016 10.71537018 3162.41037 40.37817001
12 08 2018 16:30 2808.99292 10.68422031 3149.171473 40.69675064
12 08 2018 16:40 2950.166016 10.97539043 3263.683771 40.83686066
12 08 2018 16:50 3279.878906 11.7058897 3468.617668 41.4302597
12 08 2018 17:00 3262.433105 11.93531036 3511.530531 42.99871063
12 08 2018 17:10 3042.49292 11.23622036 3349.6206 43.9335289
12 08 2018 17:20 2906.891113 11.09533978 3305.074981 44.61117935
12 08 2018 17:30 2599.707031 10.32194996 2976.571714 43.82686996
12 08 2018 17:40 2569.177002 10.25901031 2942.912874 48.12924957
12 08 2018 17:50 2891.698975 11.10367012 3307.829627 49.44528961
12 08 2018 18:00 2624.048096 10.53026962 3080.098376 49.89281845
12 08 2018 18:10 2866.881104 11.03361988 3284.183401 50.75543976
                 2999.13208 11.15985966 3326.010983 52.54341125
12 08 2018 18:20
12 08 2018 18:30
                 3112.375
                             11.72854042 3473.278312 53.99993896
12 08 2018 18:40 3060.504883 11.5314703 3429.499974 56.03395081
12 08 2018 18:50 3269.861084 11.8285799 3492.741093 57.22954941
12 08 2018 19:00 3460.88208 12.43622971 3574.052789 59.39419937
12 08 2018 19:10 3475.98999 12.55062962 3582.721295 59.87741852
12 08 2018 19:20 3540.38501 13.02560043 3600 59.36075974
12 08 2018 19:30 3554.907959 13.04975986 3600 60.55430984
12 08 2018 19:40 3491.791016 13.08815002 3600 60.43381882
12 08 2018 19:50 3416.967041 12.83708954 3595.816059 62.17895126
12 08 2018 20:00 3570.332031 13.34926033 3600 63.74938965
12 08 2018 20:10 3502.352051 12.99164009 3597.921181 63.86883926
12 08 2018 20:20 3526.042969 12.69013023 3590.612955 62.61289978
12 08 2018 20:30 3230.25
                             11.42605019 3403.004567 61.15206909
12 08 2018 20:40 3433.799072 12.3351202 3564.705193 63.85025024
12 08 2018 20:50 3532.518066 12.96154976 3597.778611 65.10767365
12 08 2018 21:00 3423.156982 12.55827999 3583.229797 64.85054016
12 08 2018 21:10 3553.811035 12.61565018 3586.76182 62.43120956
12 08 2018 21:20 3594.316895 13.30459023 3600 62.09754181
12 08 2018 21:30 3545.556885 12.64826012 3588.549536 61.74354935
12 08 2018 21:40 3502.454102 12.61975002 3586.995308 62.35181046
12 08 2018 21:50 3525.396973 12.83994961 3595.886142 61.99501038
12 08 2018 22:00 3423.413086 12.48073959 3577.663845 63.67203903
12 08 2018 22:10 3456.285889 12.51733017 3580.404526 65.73937225
12 08 2018 22:20 3565.553955 13.15552044 3600 65.70802307
12 08 2018 22:30 3562.89502 13.41053009 3600 67.38809204
12 08 2018 22:40 3541.823975 12.99806023 3597.934979 66.44818115
12 08 2018 22:50 3525.686035 12.64675045 3588.470275 64.68292236
12 08 2018 23:00 3441.686035 12.41473007 3572.198809 63.76736832
12 08 2018 23:10 3509.374023 12.41858959 3572.536914 63.11286163
12 08 2018 23:20
                 3509.326904 12.87782955 3596.703072 63.42105103
12 08 2018 23:30
                 3545.922119 12.85365963 3596.205691 62.80545044
12 08 2018 23:40 3602.50293 13.45944023 3600 63.25833893
12 08 2018 23:50
                 3577.543945 13.32409954 3600 63.2574501
13 08 2018 00:00 3556.0271 12.96185017 3597.78067 62.57632065
13 08 2018 00:10 3535.670898 12.71251011 3591.609498 63.46442032
13 08 2018 00:20 3408.812988 12.24524021 3555.038888 65.07733154
13 08 2018 00:30 3442.094971 12.30809021 3561.933732 65.04470062
```

```
13 08 2018 00:40 3315.694092 12.01578999 3524.384027 64.98047638
13 08 2018 00:50 3422.851074 12.16944981 3545.875677 63.38965988
13 08 2018 01:00 3404.714111 12.1477499 3543.079113 63.3182106
13 08 2018 01:10 3458.9729
                            12.3469696 3565.883665 61.91164017
13 08 2018 01:20 3450.389893 12.31503963 3562.657352 61.68481064
13 08 2018 01:30 3480.49292 12.8032999 3594.89848 60.47018814
13 08 2018 01:40 3517.186035 12.91561031 3597.312482 60.64720917
13 08 2018 01:50 3578.259033 13.19711971 3600 59.28503036
13 08 2018 02:00 3590.329102 13.18451977 3600
                                              58.97879028
                 3588.331055 13.29016972 3600
13 08 2018 02:10
                                              59.2714386
13 08 2018 02:20 3589.075928 13.18445015 3600 59.9109993
13 08 2018 02:30 3542.031006 12.72819996 3592.264152 58.92842102
13 08 2018 02:40 3326.02002 11.90108967 3505.724795 60.18426895
13 08 2018 02:50 3376.800049 12.25358009 3555.990287 60.99198914
13 08 2018 03:00 3327.715088 12.29916
                                      3560.992576 61.2313118
13 08 2018 03:10 3287.739014 12.26533985 3557.312787 62.87931824
13 08 2018 03:20 3252.941895 12.23015022 3553.288906 64.30605316
13 08 2018 03:30 3186.98999 11.97848034 3518.563976 63.78824997
13 08 2018 03:40 3246.455078 12.15585995 3544.133367 64.35690308
13 08 2018 03:50 3182.184082 11.68566036 3464.374942 62.86265182
13 08 2018 04:00 3116.268066 11.59626007 3444.706214 62.59788132
13 08 2018 04:10 3094.312988 11.40194035 3396.634047 63.78796005
                 2667.801025 10.62771034 3124.527602 62.97026062
13 08 2018 04:20
13 08 2018 04:30 2538.778076 10.48383999 3058.047912 61.26705933
13 08 2018 04:40 2690.285889 10.65666008 3137.254093 64.58097839
13 08 2018 04:50 2830.071045 10.9872303 3267.914771 62.09922028
13 08 2018 05:00 2541.342041 10.31630039 2973.596593 62.99095917
13 08 2018 05:10 2859.835938 11.12164974 3313.722769 63.35248947
13 08 2018 05:20 2689.37793 10.60439014 3114.119395 64.02854156
13 08 2018 05:30 2206.103027 9.581485748 2503.184962 64.14620972
13 08 2018 05:40 2538.550049 10.44528961 3039.299336 67.53022003
13 08 2018 05:50 3049.230957 11.4257803 3402.933901 66.93141174
13 08 2018 06:00 2996.514893 11.32701969 3376.084036 65.43752289
13 08 2018 06:10 2341.239014 9.848835945 2694.473262 65.86271667
13 08 2018 06:20 2631.270996 10.46660995 3049.717952 64.77837372
                             9.96310997 2768.950675 63.05451965
13 08 2018 06:30 2401.6521
13 08 2018 06:40 1727.552979 8.642127991 1916.334966 62.21023941
13 08 2018 06:50
                 1866.729004 8.705836296 1956.357056 60.34439087
13 08 2018 07:00 3016.303955 11.43842983 3406.230239 63.12797928
13 08 2018 07:10 3035.253906 11.30786991 3370.64625 60.53665924
13 08 2018 07:20 2927.012939 10.94981003 3254.432186 60.91279984
13 08 2018 07:30 2842.771973 10.76840973 3184.395866 59.44496918
13 08 2018 07:40 2890.916992 11.05646992 3292.017473 56.87495041
13 08 2018 07:50 2539.914063 10.32682991 2979.134274 61.42885971
13 08 2018 08:00 2562.933105 10.25115013 2938.629507 55.12791824
13 08 2018 08:10 2441.791016 9.97147274 2774.236607 55.21052933
                 3000.156982 11.21348953 3342.723393 57.10821915
13 08 2018 08:20
                 2930.906006 11.16460991 3327.516382 58.42399979
13 08 2018 08:30
13 08 2018 08:40 2800.028076 10.93758965 3249.958937 57.31219101
13 08 2018 08:50
                 2607.956055 10.34974003 2991.075017 58.16004944
13 08 2018 09:00
                 2774.785889 10.58839035 3106.897055 56.38143158
13 08 2018 09:10 3132.197998 11.65456009 3457.703427 57.98257065
13 08 2018 09:20
                 2957.285889 11.16436005 3327.43732 59.24710846
13 08 2018 09:30 2435.643066 9.95956707 2766.704596 60.11513901
13 08 2018 09:40 2610.418945 10.44215965 3037.759421 59.09011841
13 08 2018 09:50 3100.637939 11.51089001 3424.499504 57.30123138
13 08 2018 10:00 3002.439941 11.40719032 3398.031223 58.7254715
13 08 2018 10:10 3365.795898 12.25848961 3556.545115 57.34972
13 08 2018 10:20 3371.495117 11.9782896 3518.533608 55.28646851
```

```
13 08 2018 10:30 3308.283936 12.09875965 3536.479023 58.53496933
                 3248.794922 12.07952023 3533.777654 56.05698013
13 08 2018 10:40
                 3085,153076 11,89929962 3505,415458 59,31573105
13 08 2018 10:50
13 08 2018 11:00
                 2702.345947 10.77896976 3188.690228 58.62746048
13 08 2018 11:10
                 2768.321045 10.87148952 3225.156523 61.87350082
13 08 2018 11:20
                 2285.351074 9.841137886 2689.303469 51.41003036
13 08 2018 11:30
                 2059.715088 9.054209709 2178.994907 52.33090973
                 1490.394043 7.773937225 1403.320221 41.67416
13 08 2018 11:40
13 08 2018 11:50
                 1551.54895 8.038614273 1552.186479 43.16553116
                 1853.167969 8.537322044 1851.058234 41.38243103
13 08 2018 12:00
13 08 2018 12:10
                 1948.064941 8.930701256 2099.416249 39.95848083
13 08 2018 12:20
                 1814.447021 8.479681015 1815.478631 36.60113144
13 08 2018 12:30
                 1546.395996 8.035490036 1550.385451 41.78036118
13 08 2018 12:40
                 1736.154053 8.445392609 1794.428452 39.60527039
                 1878.637939 8.672902107 1935.636667 41.65993881
13 08 2018 12:50
13 08 2018 13:00
                 2183.480957 9.291611671 2333.41815 37.62490845
13 08 2018 13:10
                 1763.95105 8.402630806 1768.300996 51.21152878
13 08 2018 13:20
                 1404.260986 7.623497009 1322.328989 44.89125061
13 08 2018 13:30 1709.345947 8.332381248 1725.691399 37.8466301
                 1717.91394 8.557107925 1863.325242 32.38901138
13 08 2018 13:40
                 1817.432007 8.728315353 1970.536427 30.99496078
13 08 2018 13:50
                 1542.355957 8.194643021 1643.352437 30.97569084
13 08 2018 14:00
13 08 2018 14:10
                 1031.749023 7.002319813 1017.033436 44.01163101
13 08 2018 14:20
                 1611.762939 8.138259888 1610.138473 31.9316597
13 08 2018 14:30
                 1569.96106 8.242087364 1671.526716 34.12154007
13 08 2018 14:40
                 1545.968994 8.362812042 1744.100259 34.46588135
13 08 2018 14:50
                 1227.083984 7.396544933 1204.990975 44.24020004
                 1171.93103 7.189617157 1103.683228 42.01073074
13 08 2018 15:00
                 1179.284058 7.432264805 1223.106126 45.80810928
13 08 2018 15:10
                 1220.474976 7.640947819 1331.579349 49.05709839
13 08 2018 15:20
13 08 2018 15:30
                 1467.489014 8.168733597 1628.052978 48.99620056
13 08 2018 15:40
                 1370.379028 8.047437668 1557.278244 50.27811813
13 08 2018 15:50
                 1879.665039 8.988614082 2136.653443 50.10842896
13 08 2018 16:00 2369.124023 10.18997002 2904.674737 52.24283981
                 2336.063965 10.11701012 2862.735734 51.36016846
13 08 2018 16:10
13 08 2018 16:20
                 2252.603027 9.997407913 2790.48926 52.14358902
13 08 2018 16:30
                 2245.125977 9.908571243 2733.931238 52.93968964
                 2486.936035 10.37378025 3003.446415 56.71878052
13 08 2018 16:40
13 08 2018 16:50 2941.61499 11.42877007 3403.715899 61.02087021
13 08 2018 17:00 2553.979004 10.63613033 3128.251203 61.39255905
13 08 2018 17:10 2625.397949 10.82219982 3205.986439 64.56694794
13 08 2018 17:20 2745.676025 10.95709038 3257.080658 62.69195938
13 08 2018 17:30 3085.509033 11.73421001 3474.430097 62.4621582
13 08 2018 17:40 3119.292969 11.78719997 3484.910729 63.63563919
13 08 2018 17:50
                 3108.337891 12.07752991 3533.494657 66.80993652
13 08 2018 18:00
                 2892.813965 11.71350956 3470.196117 69.70353699
                 3005.541016 11.81519032 3490.241091 70.68979645
13 08 2018 18:10
                 2912.291016 11.24870968 3353.363446 69.88208008
13 08 2018 18:20
13 08 2018 18:30 2710.447021 10.90478039 3237.776666 69.38128662
13 08 2018 18:40
                 2819.625977 11.16948032 3329.054773 69.37980652
13 08 2018 18:50
                 2935.685059 11.42879009 3403.721131 71.97348022
13 08 2018 19:00
                 2941.035889 11.44793987 3408.687376 70.42970276
13 08 2018 19:10
                 2887.011963 11.34774971 3381.885102 71.0951004
13 08 2018 19:20
                 2934.811035 11.56844044 3438.276022 73.03793335
13 08 2018 19:30
                 2984.072998 12.13276958 3541.103198 76.43795776
13 08 2018 19:40
                 3124.662109 12.6417799 3588.206912 77.53959656
13 08 2018 19:50
                 3149.566895 12.73219013 3592.42487 78.48893738
13 08 2018 20:00 3061.781982 12.21627045 3551.646717 77.01920319
13 08 2018 20:10 2895.978027 11.80943012 3489.155687 77.95059204
```

```
2940.575928 12.0700798 3532.42944 79.66486359
13 08 2018 20:20
                 2631.360107 11.26099014 3357.011504 79.9989624
13 08 2018 20:30
13 08 2018 20:40
                 2568.629883 11.41977978 3401.359003 80.51396179
13 08 2018 20:50
                 2482.714111 11.18284035 3333.248344 80.24001312
13 08 2018 21:00
                 2150.249023 9.648892403 2553.740144 80.89559174
                 2279.589111 9.843363762 2690.800307 81.66377258
13 08 2018 21:10
13 08 2018 21:20
                 2196.450928 9.952162743 2761.997631 81.06323242
                 2157.501953 9.694270134 2586.876197 80.18665314
13 08 2018 21:30
13 08 2018 21:40
                 2319.733887 10.14898014 2881.308607 81.09166718
13 08 2018 21:50
                 2910.417969 12.20510006 3550.302366 82.25524902
13 08 2018 22:00
                 2882.721924 12.22297955 3552.444407 81.24228668
13 08 2018 22:10
                 2780.533936 11.95835018 3515.324421 80.86238861
13 08 2018 22:20
                 2724.586914 11.62588978 3451.392227 80.66079712
13 08 2018 22:30
                 2806.539063 11.24707985 3352.876889 76.89292145
13 08 2018 22:40
                 2905.483887 11.43889046 3406.349668 77.23439026
13 08 2018 22:50 2844.154053 11.53682995 3430.788678 75.83241272
13 08 2018 23:00
                 2921.75708 11.59148026 3443.611966 73.71214294
13 08 2018 23:10
                 3036.454102 11.94414997 3512.997016 73.27137756
13 08 2018 23:20
                 2804.697998 11.40915012 3398.551358 75.0923996
                 2714.056885 11.23048019 3347.889256 76.19999695
13 08 2018 23:30
                 2536.054932 10.74594021 3175.167068 76.81536102
13 08 2018 23:40
13 08 2018 23:50
                 2979.635986 11.87240982 3500.700733 75.93065643
14 08 2018 00:00
                 2948.845947 11.61303043 3448.510993 74.3138504
14 08 2018 00:10
                 2968.371094 11.85184956 3497.009511 70.98135376
14 08 2018 00:20 2658.208008 10.87045002 3224.75823 69.95308685
14 08 2018 00:30 2464.677979 10.51288033 3071.907176 70.86641693
14 08 2018 00:40 2705.464111 11.08827019 3302.72516 70.89396667
14 08 2018 00:50 2953.115967 11.50209045 3422.336164 67.70474243
14 08 2018 01:00 2869.816895 11.25866032 3356.321849 66.98651886
14 08 2018 01:10 2885.479004 11.32643032 3375.917811 64.6100769
14 08 2018 01:20 2601.333984 10.83675003 3211.706061 64.82494354
14 08 2018 01:30 2339.780029 10.25784969 2942.281524 64.65827179
14 08 2018 01:40 2399.188965 10.3149004 2972.857942 64.87983704
14 08 2018 01:50
                 2090.710938 9.712824821 2600.220147 65.14264679
                 2074.660889 9.742050171 2620.998889 64.93180847
14 08 2018 02:00
14 08 2018 02:10
                 1921.311035 9.317720413 2350.49006 66.78665161
14 08 2018 02:20
                 1839.905029 9.09998703 2208.638017 64.28825378
14 08 2018 02:30
                 2066.660889 9.751807213 2627.871215 60.68738937
14 08 2018 02:40
                 2272.853027 10.12609005 2868.04195 60.93566895
14 08 2018 02:50
                 2251.3479
                             10.03687
                                         2814.814481 61.36611938
14 08 2018 03:00 2215.343994 10.22638035 2925.014118 58.59189987
14 08 2018 03:10 2096.349121 9.684502602 2579.80402 56.42882919
14 08 2018 03:20
                 1935.244019 9.272229195 2320.753736 56.24892044
14 08 2018 03:30
                 2066.148926 9.603354454 2519.762812 54.72845078
14 08 2018 03:40
                 2012.948975 9.6065588
                                         2522.177624 53.70112991
14 08 2018 03:50
                 1732.328979 9.023917198 2159.420699 52.05920029
14 08 2018 04:00
                 1524.496948 8.583049774 1879.449337 51.11919022
                 1234.910034 7.839837074 1439.655513 47.51506042
14 08 2018 04:10
                 1085.432983 7.577064991 1297.907109 46.78863144
14 08 2018 04:20
14 08 2018 04:30
                 854.8876953 7.040825844 1034.473438 46.23598099
14 08 2018 04:40
                 755.5964966 6.822329044 937.9732893 44.30242157
14 08 2018 04:50
                 812.5819702 6.99023819 1011.600437 43.05384827
14 08 2018 05:00
                 742.9083252 6.774517059 917.6343582 45.31200027
14 08 2018 05:10
                 686.3798218 6.597620964 844.7086932 47.89593124
14 08 2018 05:20
                 556.7230225 6.203532219 694.8307893 48.90753937
14 08 2018 05:30
                 438.3797913 5.767252922 549.2673649 47.46969986
14 08 2018 05:40 470.1166077 5.911028862 595.3816999 49.02474976
14 08 2018 05:50 375.1618958 5.434566021 450.3721159 52.04930115
14 08 2018 06:00 252.7200928 4.881527901 307.4194351 55.03059006
```

```
201.9851074 4.692979813 264.0025863 53.05027008
14 08 2018 06:10
                 113.0699005 4.073550224 136.7769101 58.79016113
14 08 2018 06:20
14 08 2018 06:30
                 216.6056976 4.697312832 264.9731154 57.80154037
14 08 2018 06:40
                 190.1127014 4.590003967 241.2974111 66.1672821
14 08 2018 06:50
                  66.10286713 3.716778994 80.03869785 66.81813049
14 08 2018 07:00
                  47.74784088 3.456717014 47.30217895 63.41249084
14 08 2018 07:10
                  80.26513672 3.776345015 89.059967
                                                      62.0974884
14 08 2018 07:20
                  33.23680115 3.375180006 39.26656315 48.46743011
14 08 2018 07:30
                  3.420336008 3.00592804 16.1925086 37.32365036
                        3.263443947 29.98242335 49.38619995
14 08 2018 07:40
                  0
14 08 2018 07:50
                        2.558590889 0
                 0
                                          40.76565933
14 08 2018 08:00
                  0
                        2.51472497 0
                                          47.44942856
14 08 2018 08:10
                        2.441775084 0
                                          69.4566803
14 08 2018 08:20
                 0
                        2.625770092 0
                                          58.61056137
14 08 2018 08:30
                        1.886796951 0
                                          65.67616272
                 0
14 08 2018 08:40
                 0
                        3.159250021 23.12484621 61.64738083
14 08 2018 08:50
                 0
                        2.525032043 0
                                          64.03642273
14 08 2018 09:00
                 0
                        2.509135008 0
                                          69.94589233
14 08 2018 09:10
                 0
                        1.754840016 0
                                          60.11296844
14 08 2018 09:20
                 0
                        2.816214085 0
                                          67.19267273
14 08 2018 09:30
                 0
                        2.384704113 0
                                          56.67963028
14 08 2018 09:40
                        3.00989604 16.32450781 59.03263092
                 0
14 08 2018 09:50
                 1.478732944 3.205739975 25.96999418 49.95837021
14 08 2018 10:00
                  134.5662994 3.984879017 125.1150628 43.23355103
14 08 2018 10:10
                  260.6034851 4.720621109 270.215236 55.39857864
14 08 2018 10:20
                  459.1094971 5.563478947 487.4474786 60.23712921
14 08 2018 10:30
                 456.433197 5.423971176 447.392416 52.0908699
14 08 2018 10:40 600.6763916 5.925457001 600.1277843 58.06980896
14 08 2018 10:50
                 1559.635986 8.549118042 1858.368362 60.07839966
14 08 2018 11:00
                 730.3643799 6.227659225 703.5217541 55.27565002
                 604.4719849 5.808872223 562.3982671 46.81533051
14 08 2018 11:10
14 08 2018 11:20
                 548.5479736 5.918704987 597.9040023 38.00271988
14 08 2018 11:30
                 801.8648071 6.592707157 842.7342139 27.77725029
14 08 2018 11:40
                 854.2227173 6.66200304 870.8324803 34.37583923
                 1123.993042 7.309688091 1161.725425 25.84783936
14 08 2018 11:50
14 08 2018 12:00
                  1092.602051 7.237887859 1126.775887 26.39591026
14 08 2018 12:10
                 1210.031006 7.633422852 1327.585738 26.40097046
14 08 2018 12:20
                 1091.828979 7.282555103 1148.432694 30.32426071
14 08 2018 12:30
                 1042.552002 7.138690948 1079.66413 29.98930931
14 08 2018 12:40
                 1122.708984 7.502129078 1259.091801 28.18815994
14 08 2018 12:50
                 1030.438965 7.261935234 1138.400462 27.46013069
14 08 2018 13:00 972.2399292 7.153529167 1086.626441 30.26903915
14 08 2018 13:10
                 924.7178955 6.971684933 1003.293145 30.00894928
14 08 2018 13:20
                 1029.100952 7.154476166 1087.071789 31.63297081
14 08 2018 13:30
                 867.588501 6.817708015 935.9956227 32.0718689
14 08 2018 13:40
                 929.9265137 7.004993916 1018.238462 35.76268005
14 08 2018 13:50
                 820.7645264 6.652358055 866.8887667 37.37144852
                 947.2877808 6.980846882 1007.390015 40.21691132
14 08 2018 14:00
14 08 2018 14:10
                 681.2404175 6.260848999 715.5794011 41.59365845
14 08 2018 14:20
                 741.453186 6.541861057 822.4628546 43.4168396
14 08 2018 14:30
                  691.9141846 6.456628799 789.1298794 42.0802002
14 08 2018 14:40
                 727.5440063 6.517048836 812.6759021 41.84897995
14 08 2018 14:50
                  679.6213989 6.483716011 799.6359285 46.20759964
14 08 2018 15:00
                 694.065918 6.55464983 827.5341479 50.39702988
14 08 2018 15:10
                 825.0587158 6.879934788 962.8429995 51.82421875
14 08 2018 15:20
                 919.8659058 7.153294086 1086.515908 51.33538818
14 08 2018 15:30
                 1630.418945 8.562612534 1866.742812 53.67604065
14 08 2018 15:40
                 1764.01001 8.838831902 2040.656171 52.62984085
14 08 2018 15:50 2064.243896 9.570440292 2494.746947 55.42765045
```

```
14 08 2018 16:00 1676.258057 8.615692139 1899.801749 58.43215179
                 2301.569092 10.12987995 2870.249377 60.37955093
14 08 2018 16:10
14 08 2018 16:20
                 2214.861084 9.883008957 2717.188326 60.41661835
14 08 2018 16:30 2272.991943 10.17150021 2894.207873 61.64442062
14 08 2018 16:40 2490.876953 10.69843006 3155.240939 62.01253891
14 08 2018 16:50 2644.321045 11.24884987 3353.405271 64.06783295
14 08 2018 17:00
                 2291.447021 10.16942024 2893.022819 64.66957855
                 2476.74707 10.72871017 3168.005661 64.50081635
14 08 2018 17:10
14 08 2018 17:20
                 2452.045898 10.70269966 3157.054708 65.30323792
14 08 2018 17:30
                 2591.274902 11.09237957 3304.092406 65.76245117
14 08 2018 17:40
                 2721.590088 11.18432999 3333.713535 68.49948883
14 08 2018 17:50
                 2583.410889 10.92045975 3243.629961 69.15376282
14 08 2018 18:00 2355.033936 10.38792992 3010.652684 71.05230713
14 08 2018 18:10 2320.62793 10.34879971 2990.587827 74.25904083
                 2593.358887 11.22272015 3345.537524 76.65046692
14 08 2018 18:20
14 08 2018 18:30 2848.8479 11.80290985 3487.919852 77.92442322
14 08 2018 18:40
                 3018.791992 12.0233202 3525.529826 77.80563354
14 08 2018 18:50
                 3093.220947 12.34132004 3565.324559 77.69748688
14 08 2018 19:00 2841.456055 11.49250984 3419.963518 76.96674347
                 2805.72998 11.25140953 3354.168203 75.82195282
14 08 2018 19:10
14 08 2018 19:20
                 2742.811035 11.23108006 3348.070514 76.54741669
                 2681.038086 11.34603977 3381.409944 79.13391876
14 08 2018 19:30
14 08 2018 19:40
                 2424.535889 10.86902046 3224.210065 79.48132324
14 08 2018 19:50
                 2520.3479
                             10.90983963 3239.671653 77.8216629
14 08 2018 20:00
                 2613.345947 10.99876022 3272.004099 76.3394165
14 08 2018 20:10 2564.741943 11.0736599 3297.833686 78.50229645
14 08 2018 20:20 2671.802002 11.37082005 3388.237296 78.93977356
14 08 2018 20:30 2427.270996 10.7870903 3191.973957 80.20641327
14 08 2018 20:40 2036.708008 9.869123459 2708.004569 77.84130859
14 08 2018 20:50
                 1758.876953 8.573282242 1873.373023 78.52774811
14 08 2018 21:00
                 1869.546021 9.248773575 2305.439339 76.75092316
14 08 2018 21:10 2203.943115 10.46743965 3050.12091 76.94699097
14 08 2018 21:20
                 2062.602051 9.893685341 2724.206943 76.89730072
14 08 2018 21:30
                 2190.923096 10.99223042 3269.691905 77.59120178
14 08 2018 21:40 2356.353027 11.17409039 3330.506189 77.29886627
                 2191.050049 10.98089027 3265.653157 76.05416107
14 08 2018 21:50
14 08 2018 22:00
                 2180.237061 10.67893982 3146.90302 78.23383331
                 1792.656982 9.849065781 2694.627313 77.95728302
14 08 2018 22:10
14 08 2018 22:20
                 1971.801025 10.2551899 2940.833188 76.6654892
14 08 2018 22:30 2100.928955 10.35859966 2995.653101 75.52084351
14 08 2018 22:40
                 1990.160034 10.1433897 2878.083002 75.46434021
14 08 2018 22:50 1811.438965 10.04290962 2818.494696 76.15405273
14 08 2018 23:00
                 1501.958984 9.348741531 2370.791396 76.63427734
14 08 2018 23:10
                 1033.415039 7.603899956 1311.987461 77.70092773
14 08 2018 23:20
                 627.0073853 5.512597084 472.6309859 80.70755768
                 867.5095215 7.065032959 1045.534864 78.59850311
14 08 2018 23:30
14 08 2018 23:40
                 1071.765015 7.7064991
                                         1366.669553 78.26995087
                 682.3670044 6.189737797 689.8898394 78.09896851
14 08 2018 23:50
15 08 2018 00:00
                 460.2728882 5.195113182 385.4187063 75.89808655
                 732.5498047 6.623768806 855.2615261 76.98827362
15 08 2018 00:10
15 08 2018 00:20
                 925.031311 7.49627018 1256.048456 79.10585022
15 08 2018 00:30
                 848.6884766 7.282515049 1148.413148 81.3752594
15 08 2018 00:40
                 837.5012207 7.520094872 1268.329209 82.48429108
15 08 2018 00:50
                 1042.862061 7.712975025 1370.165105 79.40312958
15 08 2018 01:00
                 1385.343994 8.62460041 1905.368077 79.26416016
15 08 2018 01:10
                 1229.959961 8.161413193 1623.741584 77.4883728
15 08 2018 01:20 1425.410034 8.538732529 1851.931821 76.26275635
15 08 2018 01:30 1479.104004 8.504748344 1830.922528 76.43718719
15 08 2018 01:40 1402.717041 8.248975754 1675.634031 77.47353363
```

```
15 08 2018 01:50 1355.389038 8.274703026 1691.011121 74.98680878
                 1343.286987 8.210529327 1652.763729 70.72479248
15 08 2018 02:00
15 08 2018 02:10
                 1300.381958 7.967319965 1511.338053 71.47583008
15 08 2018 02:20
                 1025.040039 7.542810917 1280.071236 76.69418335
                 910.0360107 7.319505215 1166.560797 77.60449219
15 08 2018 02:30
15 08 2018 02:40
                 736.9633179 6.788486958 923.5489396 77.17204285
15 08 2018 02:50
                 778.6160278 7.066216946 1046.077834 76.7515564
                 865.5501709 7.226566792 1121.33109 77.80049896
15 08 2018 03:00
                 1159.010986 7.83214283 1435.387191 78.52510071
15 08 2018 03:10
                 1564.203979 8.846366882 2045.460268 74.18872833
15 08 2018 03:20
15 08 2018 03:30
                 1531.779053 8.66074276 1928.003255 67.22618866
15 08 2018 03:40
                 1572.30896 9.07821846 2194.532619 64.34252167
15 08 2018 03:50
                 1171.999023 7.942574978 1497.285173 70.26139069
15 08 2018 04:00
                 855.7614136 6.930036068 984.8019861 70.71131134
15 08 2018 04:10 890.3079834 7.357324123 1185.318077 65.38170624
15 08 2018 04:20 806.4520874 6.956273079 996.4253613 66.88317108
15 08 2018 04:30
                 764.7191162 6.908872128 975.4883092 71.32087708
15 08 2018 04:40
                 829.8178101 7.057826042 1042.233736 69.34854126
15 08 2018 04:50
                 906.5579834 7.227558136 1121.807162 67.18125916
                 733.3640747 6.822565079 938.0743739 67.09707642
15 08 2018 05:00
                 665.0552979 6.818490028 936.3301217 64.72136688
15 08 2018 05:10
15 08 2018 05:20
                 505.7958069 6.14359808 673.5113289 67.84355927
15 08 2018 05:30
                 432.4422913 5.935114861 603.316981 65.79981232
15 08 2018 05:40
                 400.3597107 5.801252842 559.9812208 70.86885834
15 08 2018 05:50 440.7778015 6.136082172 670.8649276 70.563797
15 08 2018 06:00 415.6254883 5.892188072 589.2170317 69.1729126
15 08 2018 06:10 553.4946899 6.566153049 832.1113351 67.76413727
15 08 2018 06:20 647.6298218 6.842151165 946.4856839 67.3568573
15 08 2018 06:30 583.9119873 6.570098877 833.6848242 71.26641846
                 516.9094238 6.34127903 745.2914648 75.46156311
15 08 2018 06:40
15 08 2018 06:50 477.8825073 6.2408638
                                         708.3047197 75.50467682
15 08 2018 07:00 603.3171997 6.612811089 850.8297256 73.94927979
15 08 2018 07:10
                 616.0584717 6.548411846 825.0582327 75.72432709
15 08 2018 07:20
                 513.3101196 6.24725008 710.6246797 75.64437103
                 348.4081116 5.145279884 372.508453 75.63654327
15 08 2018 07:30
15 08 2018 07:40
                 272.8922119 4.727443218 271.7564286 76.17402649
15 08 2018 07:50
                 479.8027954 6.131720066 669.3317702 75.69589996
                 450.3216858 5.821978092 566.5696014 71.28720093
15 08 2018 08:00
15 08 2018 08:10
                 306.6791992 5.251872063 400.3721805 69.59425354
                 266.8429871 5.051896095 348.8518371 72.03521729
15 08 2018 08:20
15 08 2018 08:30
                 304.0190125 5.297072887 412.4740366 70.90675354
15 08 2018 08:40 236.303299 4.819091797 292.7685636 67.65440369
15 08 2018 08:50
                 199.2160034 4.647916794 253.982337 68.9629364
15 08 2018 09:00
                 348.2911987 5.529246807 477.4527464 66.1292038
                 214.4889069 4.508522987 223.8059109 64.38443756
15 08 2018 09:10
15 08 2018 09:20
                 127.6121979 4.040297985 130.5180411 57.05234146
15 08 2018 09:30
                 376.5148926 5.331596851 421.8348408 53.88531113
                 375.4014893 5.216404915 390.996775 48.98427963
15 08 2018 09:40
                 1061.96106 7.47873497 1246.961114 59.05741119
15 08 2018 09:50
                 979.4915161 7.10816288 1065.43222 63.63455963
15 08 2018 10:00
                 505.626709 5.748425961 543.3848079 50.45138931
15 08 2018 10:10
15 08 2018 10:20
                 753.423584 6.612678051 850.776003 36.48497009
15 08 2018 10:30
                 914.6334229 6.661083221 870.4559173 35.80022049
15 08 2018 10:40
                 906.432373 6.69382
                                        883.9179434 35.10736084
15 08 2018 10:50
                 882.6759033 6.693441868 883.7617415 32.86785889
15 08 2018 11:00
                 898.5745239 6.833957195 942.9611405 31.25358963
15 08 2018 11:10 970.4586182 7.077691078 1051.349266 30.48133087
15 08 2018 11:20 1078.161987 7.17292881 1095.773675 29.46709061
15 08 2018 11:30 962.2293701 7.131657124 1076.37404 32.68680954
```

```
15 08 2018 11:40 1025.42395 7.194086075 1105.807731 30.34082985
15 08 2018 11:50
                 1159.245972 7.553359985 1285.547525 29.80200005
15 08 2018 12:00
                 1332.485962 7.912824154 1480.476813 31.10668945
15 08 2018 12:10 1255.871948 7.726984978 1377.744886 30.7860508
15 08 2018 12:20 1257.227051 7.705262184 1366.00248 30.15357971
15 08 2018 12:30 1159.051025 7.506855011 1261.517482 30.94099045
15 08 2018 12:40 1400.449951 8.183783531 1636.932387 30.37932968
                 1232.811035 7.793348789 1413.97057 30.78873062
15 08 2018 12:50
                 1228.019043 7.768167973 1400.163447 29.81168938
15 08 2018 13:00
                 1218.88501 7.71897316 1373.407336 26.70243073
15 08 2018 13:10
15 08 2018 13:20
                 1164.714966 7.626752853 1324.051904 27.80546951
15 08 2018 13:30
                 1033.290039 7.293188095 1153.629443 26.60854912
15 08 2018 13:40
                 1048.749023 7.411822796 1212.71575 29.36199951
15 08 2018 13:50
                 1141.657959 7.533959866 1275.487869 27.66614914
                 1143.185059 7.520250797 1268.409572 32.36174011
15 08 2018 14:00
15 08 2018 14:10 975.7498169 7.142386913 1081.395574 34.57756042
15 08 2018 14:20
                 1104.862061 7.474413872 1244.729039 34.36745834
15 08 2018 14:30 961.5698853 7.003938198 1017.762617 37.4041214
15 08 2018 14:40 1084.271973 7.369864941 1191.5839
                                                     34.47315979
                 1001.482971 7.227116108 1121.594871 35.29082108
15 08 2018 14:50
                 845.3792114 6.87783289 961.9284855 37.74428177
15 08 2018 15:00
                 795.1199951 6.723701954 896.3143082 38.07231903
15 08 2018 15:10
15 08 2018 15:20
                 782.0239868 6.880685806 963.1698906 46.02051926
15 08 2018 15:30
                 926.2589722 7.110298157 1066.423648 54.29618835
15 08 2018 15:40
                 1276.709961 8.058318138 1563.567915 52.62242889
15 08 2018 15:50 1527.897949 8.565071106 1868.269898 55.48046875
15 08 2018 16:00 1622.416992 8.795449257 2013.05301 56.57458878
15 08 2018 16:10 1580.86499 8.636086464 1912.552623 57.84489822
15 08 2018 16:20 1544.430054 8.518014908 1839.114309 57.84078979
                 1505.526001 8.56095314 1865.71235 57.3595314
15 08 2018 16:30
15 08 2018 16:40 1437.829956 8.389925957 1760.565674 57.92053986
15 08 2018 16:50 1448.595947 8.41326046 1774.782548 58.09056854
15 08 2018 17:00
                 1481.057983 8.511626244 1835.167898 59.55688095
15 08 2018 17:10
                 1577.099976 8.655828476 1924.920742 60.46960831
                 1599.912964 8.740093231 1977.977317 60.15636063
15 08 2018 17:20
                 1580.68103 8.734816551 1974.6427
15 08 2018 17:30
                                                     61.40203857
15 08 2018 17:40
                 1550.219971 8.705636024 1956.230861 63.54396057
15 08 2018 17:50
                 1477.823975 8.740965843 1978.52892 66.1778183
15 08 2018 18:00
                 1512.542969 8.568490982 1870.394757 69.21897888
                 1546.161011 8.545337677 1856.024574 71.34763336
15 08 2018 18:10
                 1443.286011 8.82712841 2033.200022 66.91459656
15 08 2018 18:20
15 08 2018 18:30 1438.718994 8.698407173 1951.677404 55.32749939
15 08 2018 18:40
                 1357.853027 8.46398735 1805.833199 52.95653915
                 1352.355957 8.28151226 1695.090592 55.87829971
15 08 2018 18:50
15 08 2018 19:00
                 1177.521973 7.921876907 1485.58117 61.02770996
15 08 2018 19:10
                 922.5408936 7.360212803 1186.759323 63.21492004
15 08 2018 19:20
                 636.3897705 6.608516216 849.096405 62.43952942
15 08 2018 19:30
                 581.6502075 6.33100605 741.457521 58.95742035
15 08 2018 19:40 581.6621704 6.356341839 750.9336989 62.2528801
15 08 2018 19:50
                 539.1887817 6.274829865 720.6940269 65.43383026
15 08 2018 20:00
                 569.1165161 6.387362003 762.6309378 65.09322357
15 08 2018 20:10 555.5438232 6.521734238 814.5187557 59.37057114
15 08 2018 20:20
                 496.1146851 6.146009922 674.3618348 57.44617844
15 08 2018 20:30 424.9526978 6.004533768 625.5233084 52.87689972
15 08 2018 20:40 420.5875854 5.868116856 581.3949483 53.02856064
15 08 2018 20:50 500.4353027 6.088085175 654.1072455 56.45132828
15 08 2018 21:00 567.6022949 6.452604771 787.5760247 55.1099205
15 08 2018 21:10 674.0083008 6.741846085 903.8920862 53.21989059
15 08 2018 21:20 797.7258301 7.151815891 1085.82104 53.78707123
```

```
15 08 2018 21:30 699.4567261 6.865006924 956.3597063 54.15280914
15 08 2018 21:40
                 708.7078247 6.651294231 866.4544358 55.92792892
15 08 2018 21:50
                 741.6226807 6.835447788 943.6017004 55.07236862
15 08 2018 22:00
                 710.4016113 6.739212036 902.7896025 52.45521927
15 08 2018 22:10 815.3521729 7.016841888 1023.588446 53.21524811
15 08 2018 22:20
                 910.7755737 7.322667122 1168.12112 52.59645081
15 08 2018 22:30
                 1070.83606 7.71311903 1370.242894 49.3035202
                 990.6685791 7.511947155 1264.134516 49.46232986
15 08 2018 22:40
15 08 2018 22:50
                 802.7402954 7.178349018 1098.338474 48.57209015
                 764.3051147 6.981697083 1007.770728 47.88021088
15 08 2018 23:00
15 08 2018 23:10
                 715.8469238 6.79090786 924.5762561 50.41659927
15 08 2018 23:20
                 738.7319946 6.896520138 970.0780576 46.47241974
15 08 2018 23:30
                 838.2642822 7.104961872 1063.947092 48.27553177
15 08 2018 23:40 834.9528198 7.100564957 1061.909317 53.95592117
15 08 2018 23:50 814.8903198 6.998781204 1015.440237 53.21294022
16 08 2018 00:00 838.2064209 7.159475803 1089.424982 51.13167191
16 08 2018 00:10 857.4663696 7.206758976 1111.847205 53.12022018
16 08 2018 00:20 950.4434204 7.337094784 1175.259076 56.57582855
16 08 2018 00:30 889.9891968 7.153585911 1086.653123 51.69105911
16 08 2018 00:40 834.880127 7.069768906 1047.707839 52.14741898
16 08 2018 00:50
                 871.0042725 7.116316795 1069.221399 53.77788925
                 1031.406006 7.445356846 1229.793624 52.15005112
16 08 2018 01:00
16 08 2018 01:10
                 1014.760986 7.517559052 1267.022731 52.63998032
16 08 2018 01:20
                 944.921875 7.226232052 1121.170369 56.32315826
16 08 2018 01:30 917.0844727 7.298450947 1156.207533 56.43724823
16 08 2018 01:40
                 1076.694946 7.684518814 1354.843614 51.11083984
16 08 2018 01:50
                 798.2426147 6.945970058 991.850745 52.71012115
16 08 2018 02:00 723.7581787 6.70096302 886.8717537 61.41016006
16 08 2018 02:10 809.6895752 6.948660851 993.0441974 61.51190186
                 787.1834717 6.823417187 938.4393551 65.84779358
16 08 2018 02:20
16 08 2018 02:30 853.765686 7.031929016 1030.427046 66.39993286
16 08 2018 02:40 829.2288818 6.992311001 1012.531246 68.89076233
16 08 2018 02:50
                 830.0941772 7.003379822 1017.510997 68.6131134
16 08 2018 03:00 845.9019775 6.968206882 1001.740662 66.71053314
16 08 2018 03:10 813.8032837 6.960463047 998.2895342 64.34497833
16 08 2018 03:20
                 816.7813721 6.978652
                                         1006.407585 65.9138031
16 08 2018 03:30
                 860.3093872 7.148121834 1084.085824 69.7755127
                 1073.884033 7.553581238 1285.662541 68.55368805
16 08 2018 03:40
16 08 2018 03:50 1023.619019 7.495183945 1255.484153 65.66438293
16 08 2018 04:00
                 1024.484009 7.326523781 1170.026231 66.48032379
16 08 2018 04:10 1013.679993 7.360756874 1187.030913 68.89700317
16 08 2018 04:20 962.079895 7.309963226 1161.860753 69.09255219
16 08 2018 04:30 910.9423218 6.994764805 1013.633847 69.15486145
16 08 2018 04:40 960.7651978 7.25023222 1132.733112 68.27355957
16 08 2018 04:50
                 1062.938965 7.477694988 1246.423647 70.79123688
16 08 2018 05:00 963.0134277 7.294196129 1154.122939 68.95358276
16 08 2018 05:10
                 1039.438965 7.498637199 1257.278763 70.72022247
                 1014.237976 7.552213192 1284.951479 69.60179901
16 08 2018 05:20
16 08 2018 05:30
                 1200.444946 8.023704529 1543.600417 65.86060333
16 08 2018 05:40
                 1198.86499 7.808405876 1422.262235 67.17925262
16 08 2018 05:50
                 1094.739014 7.57558918 1297.135475 66.47177124
16 08 2018 06:00
                 964.6138916 7.149431229 1084.700679 64.42796326
16 08 2018 06:10
                 925.5098267 7.17343092 1096.011102 61.26050949
16 08 2018 06:20
                 612.3939209 6.233760834 705.7295538 63.39585114
16 08 2018 06:30
                 456.2524109 5.830904007 569.4205955 63.16205978
16 08 2018 06:40
                 309.5869141 5.115495205 364.8880525 70.62036896
16 08 2018 09:10 0
                       5.021068096 341.1922489 0
16 08 2018 09:20 0
                       5.09680891 360.1433165 0
16 08 2018 09:30 0
                       4.435379982 208.4456612 32.44900131
```

```
16 08 2018 09:40 206.0328064 4.885250092 308.3016754 34.72925949
                 287.8548889 4.87881279 306.7765258 35.99374008
16 08 2018 09:50
                 530,4334106 5,767756939 549,4253359 32,0485611
16 08 2018 10:00
16 08 2018 10:10 526.6207886 5.661529064 516.689336 36.66151047
16 08 2018 10:20
                 765.923584 6.597290993 844.5760177 28.24154091
16 08 2018 10:30
                 580.2514038 5.971890926 615.5517809 30.03343964
16 08 2018 10:40 471.2226868 5.706797123 530.5031857 24.35103989
                 557.5214233 5.875024796 583.633552 25.96670914
16 08 2018 10:50
16 08 2018 11:00
                 605.9893188 6.097888947 657.5101319 27.64818001
                 642.5692139 6.121160984 665.6289709 26.3538208
16 08 2018 11:10
16 08 2018 11:20
                 541.9307861 5.888486862 588.0103715 25.23580933
16 08 2018 11:30
                 778.3104858 6.577988148 836.8361062 24.37602997
16 08 2018 11:40 810.4025879 6.697323799 885.3661096 23.2130394
16 08 2018 11:50 686.2047119 6.272656918 719.8977156 26.10714912
16 08 2018 12:00 669.90802 6.282359123 723.4571797 24.88588905
16 08 2018 12:10 800.7462158 6.707404137 889.540384 20.08539009
16 08 2018 12:20
                 799.9879761 6.666901112 872.8393301 19.96570015
16 08 2018 12:30 595.8355103 6.215138912 699.0039278 22.90195084
16 08 2018 12:40 516.2791138 5.975656986 616.8128375 19.28642082
16 08 2018 12:50 607.2930298 6.230714798 704.6268798 15.95330048
16 08 2018 13:00 585.7954712 6.205463886 695.5243105 16.49311066
16 08 2018 13:10 579.4962769 6.178625107 685.9242682 18.61105919
16 08 2018 13:20
                 668.4545288 6.477610111 797.260617 22.56374931
16 08 2018 13:30
                 868.3867188 7.030327797 1029.699872 25.36668968
16 08 2018 13:40
                 734.7244873 6.621696949 854.4225256 27.48605919
16 08 2018 13:50 691.0579224 6.473374844 795.6154387 24.17320061
16 08 2018 14:00 588.2424927 6.175426006 684.7851179 22.47540092
16 08 2018 14:10 610.3936157 6.286212921 724.8738439 25.13624954
16 08 2018 14:20 628.387085 6.369015217 755.6999884 23.53413963
16 08 2018 14:30 533.5839233 6.068653107 647.3927278 23.94845963
16 08 2018 14:40 473.7246094 5.833408833 570.2221204 24.54408073
16 08 2018 14:50 586.8198853 6.170423031 683.0058317 26.05610085
16 08 2018 15:00
                 715.859375 6.583127022 838.8925448 27.51936913
16 08 2018 15:10
                 743.5336304 6.611085892 850.1332206 28.65173912
16 08 2018 15:20 788.184021 6.579563141 837.4660594 30.75889015
16 08 2018 15:30
                 894.2000122 7.001488209 1016.658877 32.53549957
16 08 2018 15:40
                 741.928772 6.543861866 823.2550519 34.70967102
16 08 2018 15:50
                 683.8026733 6.447741032 785.7003008 32.12372971
16 08 2018 16:00
                 748.3621216 6.713605881 892.1143943 37.99946976
16 08 2018 16:10 746.5720825 6.636931896 860.6033558 39.54159927
16 08 2018 16:20 778.2269897 6.668644905 873.5544673 41.10705948
16 08 2018 16:30 641.6046143 6.341257095 745.2832665 46.19998169
16 08 2018 16:40
                 755.5153198 6.698025227 885.6561897 48.05617905
16 08 2018 16:50
                 770.2058105 6.751952171 908.1295519 47.1927681
16 08 2018 17:00
                 724.9050293 6.700014114 886.4790177 48.33340836
16 08 2018 17:10
                 781.4937134 6.927321911 983.6044614 51.8031311
16 08 2018 17:20 847.8206177 7.062636852 1044.436579 54.82633972
                 722.6489258 6.741546154 903.7665089 61.02640152
16 08 2018 17:30
16 08 2018 17:40 681.3707275 6.616253853 852.2206657 67.21813202
16 08 2018 17:50
                 521.2387695 6.117391109 664.3098591 68.47084045
16 08 2018 18:00
                 422.1169128 5.810443878 562.8975684 74.26978302
16 08 2018 18:10 421.3517151 5.86396122 580.0506493 75.25006104
16 08 2018 18:20
                 389.9631042 5.892477989 589.3116102 71.96540833
16 08 2018 18:30 349.8887024 5.596951962 497.3271148 65.33718109
16 08 2018 18:40
                 246.8173981 4.828098774 294.8650077 58.5541687
16 08 2018 18:50
                 185.0791931 4.590603828 241.4277099 66.92019653
16 08 2018 19:00 20.71916008 3.354819059 37.42593509 69.02165222
16 08 2018 19:10 0 2.558820009 0 75.52348328
16 08 2018 19:20 63.89131927 4.19715786 160.5015535 80.67617798
```

```
16 08 2018 19:30 170.3114014 4.725317955 271.275972 83.44538116
16 08 2018 19:40 204.0162048 4.959897995 326.2086366 74.96984863
                 138.0805054 4.34899807 190.7033878 72.09069061
16 08 2018 19:50
16 08 2018 20:00 84.87718964 3.921679974 113.4532771 67.13159943
16 08 2018 20:10 0.5560655
                            2.83750391 0
                                               66.79850006
16 08 2018 20:20
                 73.22104645 4.1635952
                                         153.9862133 71.08226776
                 108.2850037 4.10764122 143.2468727 54.56129074
16 08 2018 20:30
                 132.5758057 4.410305977 203.252012 68.64328766
16 08 2018 20:40
                 99.03598785 4.189455986 159.0014635 72.49783325
16 08 2018 20:50
                 215.1578064 4.92838192 318.598368 63.69503021
16 08 2018 21:00
16 08 2018 21:10
                 191.9107971 4.738359928 274.229157 65.90731812
16 08 2018 21:20
                 161.3125
                             4.481976986 218.1945509 74.5461731
16 08 2018 21:30 239.1403961 5.183971882 382.5147559 70.10349274
16 08 2018 21:40 195.164505 4.782824993 284.3845858 64.80400085
16 08 2018 21:50 106.7347031 4.156741142 152.6625307 63.54198074
16 08 2018 22:00 167.7695007 4.527329922 227.8070376 66.64086151
16 08 2018 22:10 267.8074951 5.170578003 379.0371281 63.77693176
16 08 2018 22:20 264.8862
                           5.332390785 422.0513168 60.87321091
16 08 2018 22:30 240.6952972 5.070458889 353.4995287 62.02481842
16 08 2018 22:40 294.8189087 5.300728798 413.4604499 59.59225082
16 08 2018 22:50 336.1250916 5.452339172 455.3933314 59.19195175
16 08 2018 23:00 376.4381104 5.775341034 551.8054594 67.60759735
16 08 2018 23:10 407.9277039 5.792900085 557.3383102 73.87220764
16 08 2018 23:20
                 224.2095947 4.935366154 320.2785193 66.77072906
16 08 2018 23:30 205.6802063 4.424753189 206.2400858 79.82795715
16 08 2018 23:40 393.343811 6.269419193 718.7121427 75.8190918
16 08 2018 23:50 768.4545898 7.155718803 1087.656351 72.88079834
17 08 2018 00:00 865.3690186 7.051592827 1039.384043 70.43460083
17 08 2018 00:10 705.6697998 6.833847046 942.9138161 70.67677307
17 08 2018 00:20 592.8408813 6.538943768 821.3085898 74.66396332
17 08 2018 00:30 404.2755127 5.739096165 540.482819 70.5424881
17 08 2018 00:40 399.4421997 5.842237949 573.0525106 69.77353668
17 08 2018 00:50 694.7650757 6.965435028 1000.504489 66.2509079
17 08 2018 01:00 875.0996704 7.117664814 1069.84868 65.84771729
17 08 2018 01:10 961.0872803 7.237318039 1126.501411 65.12502289
                 1028.359009 7.352629185 1182.978229 59.40555954
17 08 2018 01:20
17 08 2018 01:30
                 982.4821167 7.390727043 1202.058448 62.03665924
17 08 2018 01:40 953.4973145 7.244969845 1130.190966 61.26028824
17 08 2018 01:50 1145.182983 7.641610146 1331.931201 61.58121872
17 08 2018 02:00 1272.328003 8.044254303 1555.440293 64.58831787
17 08 2018 02:10 1265.724976 7.88820982 1466.643666 65.83857727
17 08 2018 02:20 1332.166016 8.254784584 1679.100891 69.62351227
17 08 2018 02:30 1444.917969 8.381496429 1755.440407 69.16802979
17 08 2018 02:40
                 1775.089966 9.007475853 2148.81141 66.73174286
17 08 2018 02:50
                 2190.303955 9.833008766 2683.822988 60.8263092
                 1562.656006 8.928107262 2097.751739 57.96781921
17 08 2018 03:00
17 08 2018 03:10 822.3256836 6.905366898 973.9510889 67.40302277
                 178.9855042 4.114088058 144.4765476 139.1398926
17 08 2018 03:20
17 08 2018 03:30 563.9401855 6.235063076 706.2012735 102.1572037
17 08 2018 03:40
                 1411.978027 7.572724819 1295.638648 64.7110672
17 08 2018 03:50
                 789.3499756 6.679433823 877.9868331 47.07155991
17 08 2018 04:00
                 1692.381958 9.045343399 2173.262186 61.11835861
17 08 2018 04:10
                 894.222229 6.93033886 984.9356387 81.63012695
17 08 2018 04:20
                 1511.114014 8.214905739 1655.360407 66.79488373
17 08 2018 04:30
                 1579.978027 8.192279816 1641.954406 79.38079834
17 08 2018 04:40 2099.475098 8.881427765 2067.850895 62.86352921
17 08 2018 04:50 2871.123047 11.04825974 3289.216173 59.20484924
17 08 2018 05:00 2715.72998 10.77453041 3186.888245 61.08356857
17 08 2018 05:10 2283.879883 9.910801888 2735.382251 67.19365692
```

```
17 08 2018 05:20
                 2170.418945 9.058357239 2181.677578 58.29077911
                 1897.765015 9.154001236 2243.705013 64.04560852
17 08 2018 05:30
                 2579.100098 10.69641018 3154.381277 64.08283234
17 08 2018 05:40
17 08 2018 05:50
                 3093.888916 11.97531033 3518.058461 71.54116821
17 08 2018 06:00
                 2635.937988 10.6677599 3142.076951 66.95899963
17 08 2018 06:10
                 1067.428955 7.330341816 1171.914371 67.13181305
17 08 2018 06:20
                 539.47052
                             5.908119202 594.4272331 68.63078308
17 08 2018 10:10
                 0
                        3.820270061 96.07607987 0
17 08 2018 10:20
                 0
                        3.981045008 124.3893848 0
                 17.54939079 3.028052092 16.96062052 26.94220924
17 08 2018 10:30
17 08 2018 10:40 0
                        2.648205996 0
                                         26.46678925
17 08 2018 10:50 13.06532955 3.422267914 43.77738853 35.17702103
17 08 2018 11:00
                 54.47597885 3.424588919 44.00890539 29.15821075
17 08 2018 11:10
                 109.8524017 3.949656963 118.5368907 16.6819191
17 08 2018 11:20
                 127.9394989 4.053091049 132.9200114 20.21912956
17 08 2018 11:30
                 136.6950073 4.20642519 162.3105039 20.33457947
17 08 2018 11:40
                 53.93835831 3.498838902 51.87006482 24.14938927
17 08 2018 11:50
                 110.3841019 3.951932907 118.9559538 22.71489906
17 08 2018 12:00
                 197.8578033 4.606489182 244.8865041 18.2889595
                 194.0574036 4.595304012 242.4494443 7.980302811
17 08 2018 12:10
                 240.8679962 4.821341991 293.2917793 7.79237318
17 08 2018 12:20
17 08 2018 12:30
                 257.699707 4.938683033 321.0777016 5.346826077
17 08 2018 12:40
                 257.5690002 4.949408054 323.6674127 14.19178009
17 08 2018 12:50
                 316.3912964 5.266119957 404.1681686 10.68535042
17 08 2018 13:00
                 328.3611145 5.267138004 404.440057 11.88101959
17 08 2018 13:10
                 403.973999 5.608239174 500.6825257 12.66450024
17 08 2018 13:20
                 339.2934875 5.367620945 431.7124703 14.19085026
17 08 2018 13:30 343.7839966 5.348331928 426.4094463 19.53384972
17 08 2018 13:40 416.9012146 5.693049908 526.2869005 18.1408596
                 266.6648865 5.009486198 338.3334682 23.21113014
17 08 2018 13:50
17 08 2018 14:00
                 244.3665924 4.892286777 309.9722624 30.32839012
17 08 2018 14:10
                 287.3215942 5.138120174 370.6701432 33.85095978
17 08 2018 14:20
                 345.1622009 5.273929119 406.2559937 40.97735977
17 08 2018 14:30
                 453.6593018 5.868123055 581.3969549 40.92879868
17 08 2018 14:40
                 499.3200073 6.056303978 643.1466003 41.10900116
17 08 2018 14:50
                 753.8386841 6.817828178 936.0470166 41.34288025
17 08 2018 15:00
                 623.503418 6.236002922 706.5418331 41.40428925
17 08 2018 15:10
                 390.4910889 5.443325043 452.843127 41.52537155
17 08 2018 15:20
                 507.3454895 5.952199936 608.9829934 42.96669006
17 08 2018 15:30
                 489.5871887 5.737816811 540.0855588 43.69538116
17 08 2018 15:40
                 592.0958862 6.069210052 647.5846121 43.54140091
17 08 2018 15:50
                 361.3854065 5.397037983 439.8628882 41.50988007
17 08 2018 16:00
                 408.0202026 5.629045963 506.8997818 36.93865967
17 08 2018 16:10 401.9648132 5.63209486 507.8143087 35.35274887
17 08 2018 16:20
                 589.2883911 6.254992962 713.4433352 35.9115181
17 08 2018 16:30
                 354.3558044 5.347054005 426.0592616 38.0760498
                 312.5155029 5.128899097 368.308634 40.48273849
17 08 2018 16:40
                 460.3214111 5.730714798 537.8832317 43.26296997
17 08 2018 16:50
17 08 2018 17:00
                 514.2988281 6.033246994 635.2622988 43.09986877
17 08 2018 17:10
                 700.7614746 6.642322063 862.7964937 47.9118309
17 08 2018 17:20
                 730.2969971 6.734676838 900.893295 50.28546906
17 08 2018 17:30
                 586.3729248 6.285926819 724.7686171 50.1932106
17 08 2018 17:40
                 526.1901855 6.146986008 674.706216 49.80435944
17 08 2018 17:50
                 578.8029175 6.359585762 752.152033 45.84516144
17 08 2018 18:00
                 643.6956177 6.336074829 743.3477934 46.57587051
17 08 2018 18:10
                 702.682312 6.534832001 819.6833298 45.04573822
17 08 2018 18:20 677.3408813 6.454370022 788.2574463 45.87073898
17 08 2018 18:30 832.4810791 6.905176163 973.8674854 49.56066132
17 08 2018 18:40 843.7041016 6.902962208 972.8973855 50.07534027
```

```
17 08 2018 18:50 887.3109131 7.031812191 1030.37398 52.47301102
                 1197.073975 7.692032814 1358.879617 51.89682007
17 08 2018 19:00
                 968.3701782 7.145275116 1082.749879 52.81175995
17 08 2018 19:10
17 08 2018 19:20
                 1116.947021 7.587461948 1303.351278 57.53926086
17 08 2018 19:30
                 1054.422974 7.314272881 1163.981921 59.51525116
17 08 2018 19:40
                 1199.949951 7.956013203 1504.908732 63.12646866
17 08 2018 19:50
                 1044.416992 7.697825909 1361.996038 58.55113983
                 1174.536987 8.146472931 1614.958032 51.27994919
17 08 2018 20:00
                 1263.88501 8.08722496 1580.335514 53.70103073
17 08 2018 20:10
                 1199.151001 7.931935787 1491.263302 50.71141815
17 08 2018 20:20
17 08 2018 20:30
                 1083.572998 7.581706047 1300.335564 49.13788986
17 08 2018 20:40
                 1158.047974 7.866409779 1454.448344 46.13978958
17 08 2018 20:50
                 1023.853027 7.557608128 1287.757015 45.68172836
17 08 2018 21:00 953.3640747 7.292637825 1153.360111 45.8638916
17 08 2018 21:10 852.0916138 7.097068787 1060.290815 43.23093033
17 08 2018 21:20 900.6901245 7.255415916 1135.241028 45.77624893
17 08 2018 21:30
                 1034.333008 7.587728024 1303.490789 51.34196854
17 08 2018 21:40
                 1361.685059 8.245430946 1673.519858 61.99993896
17 08 2018 21:50 1638.86499 8.845303535 2044.782135 64.46769714
                 1758.02002 9.103270531 2210.767028 67.38031769
17 08 2018 22:00
                 1980.662964 9.234974861 2296.436164 64.2615509
17 08 2018 22:10
17 08 2018 22:20
                 1988.968018 9.239386559 2299.314132 63.63784027
17 08 2018 22:30
                 2060.050049 9.408864021 2410.184467 63.4457016
17 08 2018 22:40
                 1920.624023 9.275303841 2322.762141 60.62842941
17 08 2018 22:50
                 2076.086914 9.447924614 2435.805168 57.72959137
17 08 2018 23:00
                 1982.290039 9.312859535 2347.310593 55.3506012
17 08 2018 23:10
                 1631.963013 8.515372276 1837.481549 56.08905029
                 1794.003052 8.953966141 2114.358055 56.75054169
17 08 2018 23:20
17 08 2018 23:30
                 1941.468994 9.323845863 2354.497335 49.94248962
                 1912.837036 9.24853611 2305.284362 47.4778595
17 08 2018 23:40
17 08 2018 23:50
                 2032.652954 9.350838661 2372.164469 51.20243835
18 08 2018 00:00
                 2248.690918 9.824876785 2678.318735 51.6053009
18 08 2018 00:10
                 2313.839111 9.921305656 2742.193309 53.83335114
                 2648.023926 10.55041027 3089.485473 51.78300858
18 08 2018 00:20
                 2619.275879 10.57612991 3101.317618 53.02489853
18 08 2018 00:30
                 2402.458008 10.0661602 2832.557211 51.45119858
18 08 2018 00:40
18 08 2018 00:50
                 2269.845947 9.704813957 2594.47351 48.47288895
                             9.725403786 2609.199339 49.34423828
18 08 2018 01:00
                 2286.6521
18 08 2018 01:10 2365.831055 9.942499161 2755.828196 47.82756042
18 08 2018 01:20 2392.8479
                             10.10433006 2855.283951 50.87363815
18 08 2018 01:30 2468.283936 10.33253002 2982.118993 53.39878845
18 08 2018 01:40 2704.874023 10.99475002 3270.58525 56.63418961
18 08 2018 01:50 2907.020996 11.71185017 3469.853289 58.07759094
18 08 2018 02:00 3107.989014 12.42665958 3573.236388 59.85343933
18 08 2018 02:10 3033.235107 12.21298981 3551.253998 61.3948288
18 08 2018 02:20 2729.950928 10.91637993 3242.11247 59.44865036
18 08 2018 02:30 2512.352051 10.49995041 3065.764355 57.07875061
                 2535.662109 10.56264973 3095.137785 55.82904816
18 08 2018 02:40
18 08 2018 02:50 2512.613037 10.71926975 3164.050588 56.92176056
18 08 2018 03:00
                 2221.23999 9.886143684 2719.252924 57.92213821
18 08 2018 03:10
                 2307.638916 10.2890501 2959.118871 59.13452911
18 08 2018 03:20
                 2214.352051 9.806406021 2665.735059 58.63314819
18 08 2018 03:30
                 2058.37793 9.413217545 2413.039063 55.86296082
18 08 2018 03:40
                 1612.534058 8.45057106 1797.601956 50.7164917
18 08 2018 03:50
                 1346.739014 7.946989059 1499.787163 48.70347977
18 08 2018 04:00
                 1335.717041 7.960939884 1507.708499 51.31782913
18 08 2018 04:10
                 1376.036011 8.215326309 1655.610038 49.85062027
18 08 2018 04:20 1610.396973 8.648300171 1920.201476 47.85057831
18 08 2018 04:30 1616.946045 8.755594254 1987.782329 43.28223038
```

```
18 08 2018 04:40
                 1141.45105 7.634428978 1328.119286 43.2109108
                 1038.68103 7.353325844 1183.325225 42.91395187
18 08 2018 04:50
18 08 2018 05:00
                 866,2371826 6,962796211 999,3285435 42,46873856
18 08 2018 05:10 619.3809814 6.110280037 661.8257675 38.59888077
18 08 2018 05:20 696.7924194 6.459183216 790.1171777 49.23109055
18 08 2018 05:30
                 639.0471802 6.30618906 732.2427909 40.22254944
18 08 2018 05:40
                 550.4619751 5.987273216 620.7120928 45.96865082
                 484.1759949 5.864441872 580.2060429 41.88565063
18 08 2018 05:50
                 652.6920776 6.557744026 828.763883 39.68296051
18 08 2018 06:00
                 485.7735901 5.879574776 585.1107399 41.58889008
18 08 2018 06:10
18 08 2018 06:20
                 539.3449707 5.922608852 599.1891575 38.37744141
18 08 2018 06:30 662.835022 6.40209198 768.2221111 35.67802048
18 08 2018 06:40
                 600.2214966 6.237926006 707.2389715 31.81381035
18 08 2018 06:50
                 399.0985107 5.404921055 442.0600158 32.96723175
18 08 2018 07:00 319.0826111 5.143880844 372.1489142 44.68832016
18 08 2018 07:10 489.0527039 5.805426121 561.3043509 42.7550087
18 08 2018 07:20 508.1134033 5.690227985 525.4237121 37.67819977
18 08 2018 07:30
                 721.5037231 6.435637951 781.0439828 43.77355957
18 08 2018 07:40 827.8428955 6.705088139 888.5802842 38.26681137
18 08 2018 07:50 637.9152222 6.22014904 700.8097625 36.68611908
18 08 2018 08:00
                 422.7019043 5.355147839 428.279591 31.86362076
18 08 2018 08:10 476.0546875 5.748784065 543.4963679 25.34453964
18 08 2018 08:20
                 449.4309082 5.690267086 525.4356671 27.25897026
18 08 2018 08:30
                 518.0728149 5.918615818 597.8746668 26.19329071
18 08 2018 08:40
                 596.9558716 6.12011385 665.2624172 24.9475708
18 08 2018 08:50
                 773.1074829 6.563012123 830.8600701 25.12302017
18 08 2018 09:00
                 776.9395752 6.663780212 871.5603089 23.58507919
18 08 2018 09:10
                 717.1812134 6.350255013 748.6507277 27.1239109
18 08 2018 09:20
                 830.6154785 6.748515129 906.68706
                                                     25.89102936
                 739.6887817 6.44636488 785.1700537 22.51304054
18 08 2018 09:30
18 08 2018 09:40 847.2484741 6.77387619 917.3635813 22.89143944
18 08 2018 09:50 616.3469849 6.250916958 711.9587365 23.08795929
18 08 2018 10:00
                 608.3762207 6.31819582 736.6926704 19.70573997
18 08 2018 10:10
                 786.1984253 6.805655956 930.8497161 24.35852051
                 688.6431274 6.377594948 758.9366289 25.82555008
18 08 2018 10:20
                 605.6569214 6.265481949 717.271944 23.58896065
18 08 2018 10:30
18 08 2018 10:40
                 686.8380737 6.350914001 748.8976989 22.74843979
                 755.9160767 6.616653919 852.3823872 23.49618912
18 08 2018 10:50
18 08 2018 11:00
                 672.701416 6.447707176 785.6872534 20.03190994
18 08 2018 11:10
                 843.2346191 7.00635004 1018.849917 13.88603973
                 800.4577026 6.620601177 853.9789893 15.97649002
18 08 2018 11:20
                 1139.279053 7.579323769 1299.088673 13.21399021
18 08 2018 11:30
18 08 2018 11:40
                 1176.620972 7.706428051 1366.631231 12.18739986
18 08 2018 11:50
                 1060.494019 7.440755844 1227.440454 11.63796043
18 08 2018 12:00
                 1122.676025 7.586703777 1302.953799 12.93488979
18 08 2018 12:10
                 1244.973022 7.845244884 1442.659502 16.08851051
                 1477.756958 8.303513527 1708.298887 16.08810997
18 08 2018 12:20
                 1477.432983 8.214116096 1654.891757 16.44807053
18 08 2018 12:30
                 1323.791016 7.923995972 1486.777287 17.70266914
18 08 2018 12:40
18 08 2018 12:50
                 1201.107056 7.678853035 1351.804984 16.05405045
18 08 2018 13:00
                 1014.107971 7.34001112 1176.705557 18.36926079
18 08 2018 13:10
                 1054.620972 7.412933826 1213.278864 22.90994072
18 08 2018 13:20
                 1792.28894 8.827841759 2033.654288 25.69680977
18 08 2018 13:30
                 2595.398926 10.44093037 3037.153892 29.3232708
18 08 2018 13:40
                 2536.959961 10.04718018 2821.090128 29.73575974
18 08 2018 13:50 3151.999023 11.35762978 3384.618827 30.60091019
18 08 2018 14:00 3334.10791 12.24368954 3554.860753 31.89724922
18 08 2018 14:10 3216.353027 11.44104004 3406.906445 35.17552185
18 08 2018 14:20 2919.509033 10.96010971 3258.175439 36.16720963
```

```
18 08 2018 14:30 3190.452881 11.86410046 3499.217969 34.89538956
                 3140.566895 11.43959045 3406.53108 35.15771103
18 08 2018 14:40
                 3263.404053 12.06250954 3531.337477 36.27957153
18 08 2018 14:50
18 08 2018 15:00 3259.618896 12.06861973 3532.219584 35.73205185
18 08 2018 15:10
                 2748.321045 10.84354973 3214.36152 39.10591888
18 08 2018 15:20
                 2533.136963 10.33339977 2982.573609 38.80736923
18 08 2018 15:30
                 2265.6521
                             9.810909271 2668.813464 38.11977005
                 2158.824951 9.532607079 2465.512447 38.49184036
18 08 2018 15:40
18 08 2018 15:50
                 2766.264893 10.77025986 3185.15022 36.97274017
                 1964.675049 9.106955528 2213.156796 39.22780991
18 08 2018 16:00
                 2492.555908 10.25541973 2940.958421 42.50196838
18 08 2018 16:10
18 08 2018 16:20 2294.470947 9.892294884 2723.294957 43.18661118
18 08 2018 16:30 2328.460938 9.752621651 2628.4434
                                                     42.05773926
18 08 2018 16:40 2338.504883 9.936385155 2751.909494 41.97917938
18 08 2018 16:50 1985.662964 9.383773804 2393.738136 46.27906036
18 08 2018 17:00 1886.343018 9.00981617 2150.320927 50.2890892
18 08 2018 17:10 2382.586914 10.06589985 2832.400665 52.95050049
18 08 2018 17:20 2508.531006 10.27262974 2950.292488 52.37868118
18 08 2018 17:30 2235.361084 9.649033546 2553.844323 51.73667908
18 08 2018 17:40 2386.281006 10.3158102 2973.338027 57.46683121
18 08 2018 17:50 2708.531982 10.89466953 3233.971483 58.04294968
                 2953.474121 11.42234993 3402.034452 57.84503174
18 08 2018 18:00
18 08 2018 18:10
                 3043.888916 11.96179962 3515.88451 62.09423065
18 08 2018 18:20
                 2836.562988 11.24227047 3351.437851 65.15070343
                 2520.469971 10.42940044 3031.454341 62.6703186
18 08 2018 18:30
18 08 2018 18:40 2268.14209 10.01284027 2800.059913 66.05901337
18 08 2018 18:50 2053.799072 9.556004524 2483.652998 68.3409729
18 08 2018 19:00 1852.134033 9.085986137 2199.563978 70.1219635
                 1911.08606 9.217992783 2285.362498 70.29135895
18 08 2018 19:10
                 2148.493896 9.560172081 2486.863473 70.19812012
18 08 2018 19:20
                 2521.478027 10.45757961 3045.320146 68.66938019
18 08 2018 19:30
18 08 2018 19:40
                 2517.25
                             10.35566998 2994.141663 70.48819733
18 08 2018 19:50
                 3228.217041 12.24256992 3554.731895 71.03748322
18 08 2018 20:00
                 3161.748047 11.96893024 3517.035795 69.97228241
                 3598.174072 13.18251991 3600 66.83712006
18 08 2018 20:10
18 08 2018 20:20
                 3604.288086 13.60379982 3600
                                               66.37329102
18 08 2018 20:30
                 3603.00708 13.77532959 3600
                                               67.19156647
                                         3600 68.21134949
18 08 2018 20:40
                 3604.189941 14.31917
18 08 2018 20:50
                 3604.162109 14.18640041 3600 67.08966827
18 08 2018 21:00
                 3604.360107 14.53746986 3600
                                               66.9730072
18 08 2018 21:10
                 3604.519043 14.86744022 3600
                                               66.35430145
18 08 2018 21:20
                 3604.464111 16.09025002 3600
                                               65.66957855
18 08 2018 21:30
                 3604.037109 17.51509094 3600
                                               68.43699646
18 08 2018 21:40
                 3604.280029 17.58865929 3600 67.23444366
18 08 2018 21:50
                 3604.258057 17.89030075 3600 68.11669159
18 08 2018 22:00
                 3604.363037 18.43157959 3600
                                               69.21633911
18 08 2018 22:10
                 3604.14209 17.67733002 3600
                                               70.33981323
                 3604.110107 16.18136978 3600
                                               70.1188736
18 08 2018 22:20
18 08 2018 22:30
                 3603.759033 15.65509987 3600
                                               69.12973785
18 08 2018 22:40
                 3603.856934 16.00111961 3600
                                               69.0117569
                 3603.758057 14.07583046 3600
18 08 2018 22:50
                                               66.958992
18 08 2018 23:00
                 3597.628906 13.96175957 3600
                                               68.15310669
18 08 2018 23:10
                 3604.099121 14.97774982 3600
                                               70.73449707
18 08 2018 23:20
                 3604.004883 14.94948959 3600
                                               71.57982635
18 08 2018 23:30
                 3603.910889 14.58337021 3600
                                               69.43389893
18 08 2018 23:40
                 3603.613037 15.59661007 3600
                                               69.26616669
18 08 2018 23:50
                 3603.646973 15.26309013 3600 67.59549713
19 08 2018 00:00 3603.660889 15.44970989 3600 67.62689972
19 08 2018 00:10 3603.821045 15.89400959 3600 68.46257782
```

```
19 08 2018 00:20 3603.61792 15.57229042 3600
                                              69.41928101
                 3603.393066 15.47504997 3600
19 08 2018 00:30
                                              70.71527863
19 08 2018 00:40
                 3603.512939 15.19239998 3600
                                              70.72987366
19 08 2018 00:50 3603.118896 15.10124016 3600 70.19180298
19 08 2018 01:00 3603.251953 15.85287952 3600 70.58647156
19 08 2018 01:10
                 3603.577881 15.9701004 3600
                                              73.06934357
19 08 2018 01:20
                 3603.322998 14.90816975 3600
                                              71.70182037
                 3603.340088 16.06497002 3600
                                              71.61698914
19 08 2018 01:30
                 3603.454102 16.10007095 3600
                                               73.40209961
19 08 2018 01:40
                 3603.446045 16.39009094 3600
                                               71.57649231
19 08 2018 01:50
19 08 2018 02:00
                 3603.518066 15.00516033 3600
                                               68.97720337
19 08 2018 02:10
                 3603.343018 15.6702404 3600
                                              69.45194244
19 08 2018 02:20
                 3603.541992 15.87623978 3600
                                               68.8877182
19 08 2018 02:30
                 3603.395996 15.68904972 3600
                                               69.36386108
19 08 2018 02:40 3603.621094 15.46984959 3600
                                              69.78122711
19 08 2018 02:50 3603.330078 15.82888985 3600
                                              71.96753693
19 08 2018 03:00 3603.087891 16.61042976 3600 67.55378723
19 08 2018 03:10 3603.106934 16.50248909 3600 65.46563721
19 08 2018 03:20 3602.939941 15.40902996 3600 63.49657059
19 08 2018 03:30
                 3603.5271
                             15.92154026 3600
                                              67.67075348
                 3603.12207 15.27299023 3600
19 08 2018 03:40
                                              67.9045105
19 08 2018 03:50
                 3603.262939 14.65200996 3600
                                               68.63744354
19 08 2018 04:00
                 3599.60791 14.10391998 3600
                                               69.3006134
19 08 2018 04:10 3497.38208 13.33738041 3600 72.01719666
19 08 2018 04:20 3285.751953 12.02937984 3526.444854 71.01467133
19 08 2018 04:30 3603.1521
                             15.3698597 3600 73.17523193
19 08 2018 04:40 3603.321045 15.50067997 3600 68.34243774
19 08 2018 04:50 3603.413086 16.28351021 3600 68.32634735
19 08 2018 05:00 3603.145996 16.19718933 3600 68.74738312
19 08 2018 05:10 3603.303955 16.08941078 3600 70.31347656
19 08 2018 05:20 3603.444092 15.77075005 3600 68.11543274
19 08 2018 05:30 3601.917969 14.74359989 3600 68.11686707
19 08 2018 05:40 3603.516113 14.44622993 3600 67.782547
19 08 2018 05:50
                 3603.327881 15.2618103 3600 67.3901062
                 3560.050049 13.7723999 3600 65.88822937
19 08 2018 06:00
19 08 2018 06:10
                 3576.624023 13.74030018 3600
                                               65.88023376
19 08 2018 06:20
                 3600.531982 14.29411983 3600
                                               65.30299377
19 08 2018 06:30 3594.26001 13.97021961 3600 65.09129333
19 08 2018 06:40 3444.704102 12.80430984 3594.928306 67.17635345
19 08 2018 06:50 2892.924072 10.83294964 3210.217066 63.75408936
19 08 2018 07:00 3470.083008 12.40515995 3571.35044 62.82608032
19 08 2018 07:10 3490.839111 13.05325985 3600 62.56045914
19 08 2018 07:20 3176.77002 11.66119003 3459.140845 61.91184998
19 08 2018 07:30 3526.498047 13.12127018 3600 61.41601944
19 08 2018 07:40 3078.218018 11.39439011 3394.61493 60.43299103
19 08 2018 07:50 2836.337891 10.79109001 3193.585409 56.0932312
19 08 2018 08:00 3369.180908 12.16320038 3545.078232 57.31832886
19 08 2018 08:10 3276.149902 11.97198009 3517.525532 58.73477173
19 08 2018 08:20 3358.448975 12.50360012 3579.400125 56.95824814
19 08 2018 08:30
                 2867.520996 10.82433033 3206.827123 55.83689117
19 08 2018 08:40
                 3275.681885 11.99530983 3521.218795 55.25439072
19 08 2018 08:50
                 3499.478027 12.98904991 3597.913961 59.88882065
19 08 2018 09:00
                 3401.319092 12.80856991 3595.052482 57.63368988
19 08 2018 09:10
                 3560.243896 13.08524036 3600 55.21789932
19 08 2018 09:20
                 3475.543945 12.69124985 3590.664566 52.79375076
19 08 2018 09:30
                 3571.989014 13.92710018 3600 54.93162155
19 08 2018 09:40 3599.822021 14.92092991 3600 53.4215889
19 08 2018 09:50 3551.24292 13.62693977 3600 56.06642914
19 08 2018 10:00 3514.145996 13.63344955 3600 57.43151093
```

```
19 08 2018 10:10 3244.761963 11.77904034 3483.330181 53.66566849
                 2686,49292 10,3305397 2981,077855 52,26163864
19 08 2018 10:20
                 2358,474121 9,31956768 2351,698467 49,05773926
19 08 2018 10:30
19 08 2018 10:40 2542.330078 9.591089249 2510.485989 35.94536972
19 08 2018 10:50 2982.811035 11.25763035 3356.016602 30.00048065
19 08 2018 11:00 3144.135986 11.38031006 3390.81871 27.65674019
19 08 2018 11:10 3292.061035 11.78081036 3483.674065 27.64027023
19 08 2018 11:20 3359.412109 11.86896992 3500.088383 27.48059082
19 08 2018 11:30
                 3086.826904 11.1560297 3324.79366 27.25918961
                 3245.345947 11.86546993 3499.463187 27.33496094
19 08 2018 11:40
19 08 2018 11:50
                 3216.654053 12.0170002 3524.568825 31.65125084
19 08 2018 12:00 3438.118896 12.59105968 3585.308518 30.91230965
19 08 2018 12:10 3514.480957 12.57765007 3584.477729 30.17662048
19 08 2018 12:20 3475.969971 12.51159
                                         3579.988112 30.09617996
19 08 2018 12:30 3474.778076 12.29967976 3561.047701 31.96282005
19 08 2018 12:40 3501.218994 13.72099018 3600 34.13138962
19 08 2018 12:50 3418.996094 12.12421036 3539.957548 33.21474075
19 08 2018 13:00 3489.73291 13.31219959 3600 33.66556168
19 08 2018 13:10 3293.562012 12.43107986 3573.615235 35.48904037
19 08 2018 13:20 3437.846924 13.23215008 3600 36.09107971
19 08 2018 13:30 3487.349121 12.48145962 3577.719754 34.82505035
19 08 2018 13:40 3302.524902 12.17998981 3547.206085 38.30887985
                 2931.39209 11.04675961 3288.702693 34.83745956
19 08 2018 13:50
19 08 2018 14:00 3322.789063 12.14536953 3542.767619 37.37591171
19 08 2018 14:10 3157.735107 11.75224972 3478.055634 37.14060974
19 08 2018 14:20 3135.467041 11.54368973 3432.429939 35.00299835
19 08 2018 14:30 3115.924072 11.55976009 3436.239211 38.36883163
19 08 2018 14:40 2979.003906 11.13698006 3318.691345 36.29003906
19 08 2018 14:50 2813.166992 10.48684025 3059.490231 34.51636887
19 08 2018 15:00 3011.5
                             11.12506962 3314.835629 37.99139023
19 08 2018 15:10 3034.089111 11.37761021 3390.086181 40.58164978
19 08 2018 15:20 2934.349121 10.93636036 3249.507035 35.69720078
19 08 2018 15:30 3176.888916 11.44172001 3407.082375 40.09907913
19 08 2018 15:40 2967.064941 10.85836983 3220.110738 38.66246033
19 08 2018 15:50 3007.425049 11.4193697 3401.25111 41.50062943
                 3363.871094 11.88191032 3502.381077 42.52531815
19 08 2018 16:00
                 3503.10791 12.66874027 3589.591312 42.85914993
19 08 2018 16:10
19 08 2018 16:20 3322.316895 12.01515961 3524.28767 42.99517059
19 08 2018 16:30 3165.25
                             11.43929958 3406.45571 42.79502106
                             11.04117966 3286.788279 44.51272964
19 08 2018 16:40 2951.0271
19 08 2018 16:50 2654.268066 10.27476978 2951.447205 45.87858963
19 08 2018 17:00 2603.697998 10.21090984 2916.419582 48.21834946
19 08 2018 17:10 3095.24707 11.49602032 3420.834985 47.59543991
19 08 2018 17:20 2862.248047 10.83403015 3210.640765 48.02584076
19 08 2018 17:30 2993.308105 11.08823013 3302.711815 48.38185883
19 08 2018 17:40 3152.321045 11.75949955 3479.495895 49.74549103
                 3423.802002 12.40219975 3571.085135 52.79838943
19 08 2018 17:50
19 08 2018 18:00 3545.175049 12.71520042 3591.724323 54.78049088
19 08 2018 18:10 3579.364014 13.01599979 3600 53.56570053
19 08 2018 18:20
                 3524.610107 13.55735016 3600 57.73701096
                 3600.866943 13.4327898 3600 57.57817841
19 08 2018 18:30
19 08 2018 18:40
                 3573.202881 12.91106987 3597.250054 57.55118942
19 08 2018 18:50
                 3415.305908 12.20413971 3550.18584 57.36244965
19 08 2018 19:00
                 3306.743896 11.98120022 3518.996329 58.50080109
19 08 2018 19:10
                 3520.506104 12.9732399 3597.849267 59.33301926
19 08 2018 19:20
                 3581.218994 13.55986023 3600 56.10354996
19 08 2018 19:30
                 3582.590088 13.41679955 3600 55.10206985
19 08 2018 19:40 3554.706055 13.06396961 3600 59.45827103
19 08 2018 19:50 3401.034912 12.47146988 3576.936962 61.05025101
```

```
19 08 2018 20:00 3531.665039 13.06120014 3600 62.9426384
19 08 2018 20:10
                 3500.085938 12.55737019 3583.169788 55.86378098
19 08 2018 20:20
                 3349.045898 11.8906002 3503.904093 56.97406006
19 08 2018 20:30 3014.816895 11.30628014 3370.191394 56.19977188
19 08 2018 20:40 2986.726074 11.48497009 3418.083592 58.74816895
19 08 2018 20:50 3055.547119 11.56424046 3437.292326 54.9936409
19 08 2018 21:00 3004.27002 11.51729965 3426.065748 59.22616959
19 08 2018 21:10 3431.977051 12.52968979 3581.284098 58.51927185
19 08 2018 21:20 3528.531982 12.80389977 3594.916213 58.30733871
19 08 2018 21:30
                 3387.74707 12.11264992 3538.390872 57.0938797
19 08 2018 21:40 3251.955078 12.04625034 3528.959517 55.88151932
19 08 2018 21:50 3293.493896 12.01585007 3524.393207 57.58689117
19 08 2018 22:00 3437.378906 12.34167957 3565.360291 56.74095917
19 08 2018 22:10 3435.738037 12.25405979 3556.044669 55.17834091
19 08 2018 22:20 3320.590088 12.08646011 3534.759218 56.93515015
19 08 2018 22:30 3583.571045 13.35344982 3600 59.52125931
19 08 2018 22:40 3506.475098 12.99685001 3597.932825 59.2447319
19 08 2018 22:50 3560.925049 13.20926952 3600 57.35346985
19 08 2018 23:00 3386.644043 12.47947979 3577.565833 59.58293915
19 08 2018 23:10 3596.462891 14.23672009 3600 60.46987915
19 08 2018 23:20 3591.538086 13.9033699 3600 60.83330154
19 08 2018 23:30 3578.082031 13.67875004 3600 58.51253891
19 08 2018 23:40 3581.00293 13.13449001 3600 60.41246033
19 08 2018 23:50 3581.23291 12.88514042 3596.83697 57.58005905
20 08 2018 00:00 3499.160889 12.74293995 3592.846231 57.32250977
20 08 2018 00:10 3567.195068 13.53320026 3600 57.48733139
20 08 2018 00:20 3592.111084 13.44425011 3600 56.9875412
20 08 2018 00:30 3530.871094 12.96164036 3597.779234 58.37055969
20 08 2018 00:40 3489.712891 12.48779964 3578.208608 59.46871948
20 08 2018 00:50 3601.633057 13.70394993 3600 56.33535004
20 08 2018 01:00 3474.638916 12.39416027 3570.357709 55.29058075
20 08 2018 01:10 3337.97998 12.02923965 3526.423755 52.81489944
20 08 2018 01:20 3376.547119 12.56013966 3583.352067 55.70912933
20 08 2018 01:30 3246.199951 11.89630985 3504.897542 55.83309174
20 08 2018 01:40 3132.874023 11.47906017 3416.6022
                                                     56.83924103
20 08 2018 01:50
                 3243.166016 11.69740009 3466.846385 56.41786957
                 3038.86499 11.2700901 3359.694231 58.22486115
20 08 2018 02:00
20 08 2018 02:10 2742.60498 10.66413021 3140.503301 57.96669006
20 08 2018 02:20 2934.190918 11.28761959 3364.812991 60.15945053
20 08 2018 02:30 2967.795898 11.31472969 3372.6029
                                                     59.81361008
20 08 2018 02:40 2578.108887 10.20958996 2915.683084 60.30693817
20 08 2018 02:50 2996.104004 11.28964043 3365.398953 63.20843887
20 08 2018 03:00 3262.573975 11.80607033 3488.519837 62.88684082
20 08 2018 03:10 3452.131104 12.46813011 3576.671837 61.51021957
20 08 2018 03:20 3537.563965 12.86380959 3596.424803 63.41915131
20 08 2018 03:30 3551.319092 13.07063961 3600 64.51396179
20 08 2018 03:40 3472.927002 12.56449986 3583.636692 63.36545181
20 08 2018 03:50 3521.179932 13.05665016 3600 64.02670288
20 08 2018 04:00 3550.575928 13.05877972 3600 61.62311172
20 08 2018 04:10 3190.214111 11.70320988 3468.059989 63.11672974
20 08 2018 04:20 3220.375
                             11.74085045 3475.7716
                                                     61.09569168
20 08 2018 04:30 3222.570068 11.67858028 3462.872044 60.17121124
20 08 2018 04:40 3297.534912 11.93342972 3511.21678 62.00049973
20 08 2018 04:50 3403.725098 12.29273033 3560.30708 61.60179901
20 08 2018 05:00 3512.75
                             13.08708954 3600 59.23300934
20 08 2018 05:10 3207.458008 11.84611034 3495.965727 58.98149872
20 08 2018 05:20 3383.893066 12.5613699 3583.432665 60.81584167
20 08 2018 05:30 2960.666016 11.13825989 3319.103808 60.8612709
20 08 2018 05:40 3011.874023 11.29277039 3366.304832 63.8771019
```

```
20 08 2018 05:50 3389.231934 12.53623009 3581.740137 68.89261627
                 2975.395996 11.29300976 3366.374027 66.96568298
20 08 2018 06:00
                 3311.150879 12.0510397 3529.664615 64.7596283
20 08 2018 06:10
20 08 2018 06:20 2979.418945 11.10455036 3308.119804 62.76108932
20 08 2018 06:30 2853.656982 10.71000957 3160.149419 62.27391052
20 08 2018 06:40 3360.795898 12.36268997 3567.412936 63.62841034
20 08 2018 06:50
                 3382.61792 12.54397964 3582.272085 63.55308151
                 3591.101074 13.2621603 3600 63.42166901
20 08 2018 07:00
20 08 2018 07:10
                 3241.446045 11.68881989 3465.042605 62.00262833
                 3360.977051 11.89673042 3504.970492 59.74021912
20 08 2018 07:20
20 08 2018 07:30 3418.452881 12.48046017 3577.642127 60.41794968
20 08 2018 07:40 3038.815918 11.31647968 3373.100496 56.42010117
20 08 2018 07:50 3013.580078 11.3659296 3386.899856 56.32701111
20 08 2018 08:00 3270.684082 12.11861992 3539.202703 59.09231186
20 08 2018 08:10 3347.393066 12.27600002 3558.492429 59.84426117
20 08 2018 08:20 3372.641113 12.07979012 3533.815978 57.24356079
20 08 2018 08:30
                 3513.801025 12.84053993 3595.90046 59.04238892
20 08 2018 08:40 3156.2229
                            11.60721016 3447.196589 60.40491104
20 08 2018 08:50 2680.356934 10.69756031 3154.870898 59.65021896
                 1858.505981 8.445441246 1794.458249 55.27112961
20 08 2018 09:00
                 2073.36499 8.815410614 2025.741767 44.84357071
20 08 2018 09:10
20 08 2018 09:20
                 2139.769043 9.378342628 2390.179313 51.54782104
20 08 2018 09:30
                 2038.245972 8.772309303 1998.370237 55.20967865
20 08 2018 09:40
                 1643.712036 7.886534214 1465.70442 44.52750015
20 08 2018 09:50
                 2153.125977 9.266494751 2317.008485 46.6178894
20 08 2018 10:00
                 2137.647949 9.201926231 2274.89274 41.31515884
20 08 2018 10:10 2326.074951 9.296949387 2336.907214 33.02215958
20 08 2018 10:20 2964.451904 11.0145998 3277.572403 26.74110985
20 08 2018 10:30 3074.524902 11.0679903 3295.922696 26.63382912
20 08 2018 10:40 2762.376953 10.62981033 3125.457991 28.27946091
20 08 2018 10:50
                 2675.583008 10.30340958 2966.774233 24.17938995
20 08 2018 11:00
                 3098.197998 11.65077972 3456.880121 24.36594963
20 08 2018 11:10
                 3048.256104 11.09146023 3303.786854 26.68061066
20 08 2018 11:20
                 3263.635986 12.09333038 3535.722986 28.69144058
                 3039.644043 11.14379978 3320.885069 27.32263947
20 08 2018 11:30
                 2983.126953 10.96426964 3259.680334 29.2005291
20 08 2018 11:40
20 08 2018 11:50
                 2955.080078 10.92096996 3243.819462 28.91494942
20 08 2018 12:00
                 3088.250977 11.4324398 3404.673296 31.60276031
20 08 2018 12:10 3188.581055 11.51895046 3426.467835 32.33115005
20 08 2018 12:20 3129.697021 11.23738003 3349.969528 33.22372055
20 08 2018 12:30 3255.11792 12.12413025 3539.946768 36.29590988
20 08 2018 12:40 3341.826904 12.11198044 3538.299463 33.02547836
20 08 2018 12:50
                 3083.291992 11.23618031 3349.608544 34.08744049
20 08 2018 13:00
                 3420.623047 12.82390976 3595.477823 35.14289856
20 08 2018 13:10 3364.248047 11.64702988 3456.060806 32.58216858
20 08 2018 13:20
                 3302.790039 11.96537018 3516.462097 34.41275024
                 3255.87793 11.66366959 3459.676311 34.0526619
20 08 2018 13:30
20 08 2018 13:40 3060.38208 11.07040977 3296.739081 32.53619003
20 08 2018 13:50
                 3130.054932 11.46879959 3414.013862 35.0843811
20 08 2018 14:00
                 2921.302979 10.78507996 3191.162528 33.68637085
20 08 2018 14:10
                 2992.021973 10.89710999 3234.892146 33.35736084
20 08 2018 14:20
                 2813.062988 10.35173988 2992.110335 33.66648102
20 08 2018 14:30
                 3027.021973 11.0718298 3297.217618 35.40346909
20 08 2018 14:40
                 3112.643066 11.18922997 3335.240341 40.33221817
20 08 2018 14:50
                 2776.676025 10.25298023 2939.628408 39.17705917
20 08 2018 15:00
                 2867.207031 10.75076008 3177.157207 38.11381912
20 08 2018 15:10 2842.736084 10.70555019 3158.263097 41.72552872
20 08 2018 15:20 2572.764893 9.935194969 2751.145269 40.72597122
20 08 2018 15:30 2438.408936 9.781479836 2648.573166 48.1064682
```

```
20 08 2018 15:40 2793.092041 10.40217972 3017.853853 47.4382019
                 2583.524902 10.13370991 2872.475743 51.6430397
20 08 2018 15:50
                 2637.427979 10.41053963 3022.052452 49.40525055
20 08 2018 16:00
20 08 2018 16:10 2823.751953 10.81443024 3202.911315 49.64319992
20 08 2018 16:20
                 2671.924072 10.60956955 3116.443176 48.54689026
20 08 2018 16:30
                 2434.64502 10.02503967 2807.572949 49.66017151
20 08 2018 16:40 2498.501953 10.12473965 2867.254363 49.0501709
                 2670.962891 10.57024956 3098.627685 49.86185837
20 08 2018 16:50
                 2741.965088 10.78985977 3193.090171 47.65095901
20 08 2018 17:00
20 08 2018 17:10
                 2740.821045 10.57260036 3099.704132 48.82664108
20 08 2018 17:20
                 2930.178955 11.22187042 3345.27923 50.32976913
20 08 2018 17:30
                 2931.478027 11.15314007 3323.873098 51.27333069
20 08 2018 17:40
                 2946.985107 10.95672989 3256.949807 50.07632828
20 08 2018 17:50
                 2636.24292 10.54104996 3085.13617 52.12329102
20 08 2018 18:00 2597.919922 10.51282978 3071.883249 54.34756088
20 08 2018 18:10 2727.303955 10.91938972 3243.232343 53.93362045
20 08 2018 18:20 3037.956055 11.5951004 3444.441131 58.64163971
20 08 2018 18:30 3066.825928 11.4457798 3408.130857 59.56241989
20 08 2018 18:40 3244.958984 12.10830975 3537.796949 60.73765182
                 3282.245117 12.32011986 3563.181482 61.5605011
20 08 2018 18:50
                 3178.049072 12.05163002 3529.751256 62.94824982
20 08 2018 19:00
                 3089.589111 11.9758997 3518.152578 64.65440369
20 08 2018 19:10
20 08 2018 19:20
                 2851.749023 11.44989014 3409.189041 65.00393677
20 08 2018 19:30
                 2934.811035 11.69120026 3465.544392 66.10662842
20 08 2018 19:40
                 2966.852051 11.63671017 3453.792345 68.16433716
20 08 2018 19:50
                 3153.147949 11.76723003 3481.021077 68.54345703
20 08 2018 20:00 3133.685059 11.68603992 3464.455249 65.32807922
20 08 2018 20:10 3184.708984 11.67990971 3463.154955 64.34287262
20 08 2018 20:20 3441.824951 12.50004005 3579.134994 65.94558716
20 08 2018 20:30 3317.302979 11.95600033 3514.941695 65.14827728
20 08 2018 20:40 3354.711914 12.1114397 3538.225578 65.1770401
20 08 2018 20:50 3109.219971 11.71422958 3470.344714 65.53753662
20 08 2018 21:00 3353.240967 12.27219963 3558.073973 65.02300262
20 08 2018 21:10 3341.471924 12.00807953 3523.200782 63.31523132
20 08 2018 21:20 3035.574951 11.44441032 3407.777544 65.27232361
                 2937.24292 11.14768028 3322.128783 65.18998718
20 08 2018 21:30
20 08 2018 21:40
                 3024.470947 11.4921999 3419.886459 66.63436127
20 08 2018 21:50
                 2815.887939 11.04312992 3287.458189 66.81182861
20 08 2018 22:00
                 2553.206055 10.67245007 3144.105424 65.89443207
20 08 2018 22:10
                 2844.008057 11.10997009 3309.902677 68.02535248
20 08 2018 22:20
                 2668.075928 10.70691967 3158.842917 65.4135437
20 08 2018 22:30 2771.648926 11.0736599 3297.833686 67.26299286
20 08 2018 22:40 2754.325928 10.94419956 3252.382797 65.12618256
20 08 2018 22:50
                 2810.946045 11.05677986 3292.122929 64.82086945
20 08 2018 23:00
                 2797.157959 11.03324032 3284.052274 65.26187897
20 08 2018 23:10
                 2685.068115 10.84887028 3216.431593 64.80835724
                 2550.304932 10.67063046 3143.319114 64.23082733
20 08 2018 23:20
                 2748.551025 11.14962959 3322.752304 64.53695679
20 08 2018 23:30
20 08 2018 23:40 2600.513916 10.65608978 3137.005454 64.78881836
20 08 2018 23:50
                 2523.287109 10.47432995 3053.460127 65.48091125
21 08 2018 00:00
                 2494.993896 10.43579006 3034.617386 63.89474869
21 08 2018 00:10
                 2384.52002 10.20952988 2915.649546 63.14678955
21 08 2018 00:20
                 2389.883057 10.24300003 2934.16926 66.21071625
21 08 2018 00:30
                 2656.934082 10.9655304 3260.135635 67.9104538
21 08 2018 00:40
                 2556.052002 10.68245983 3148.415968 68.56861115
21 08 2018 00:50 2688.245117 10.92403984 3244.958367 67.61591339
21 08 2018 01:00 2875.113037 11.40931988 3398.596375 66.29416656
21 08 2018 01:10 2908.678955 11.36225033 3385.890425 65.0629425
21 08 2018 01:20 2844.049072 11.22492981 3346.208484 65.08265686
```

```
21 08 2018 01:30 2638.379883 10.80856037 3200.578387 64.68534088
                 2535.405029 10.58479977 3105.267121 65.41589355
21 08 2018 01:40
21 08 2018 01:50
                 2877.312012 11.30910015 3370.997877 66.09380341
21 08 2018 02:00 2755.906006 11.20827007 3341.124074 68.44275665
21 08 2018 02:10 2762.561035 11.14680004 3321.846951 67.47653961
21 08 2018 02:20
                 2723.327881 10.92494965 3245.295475 64.19814301
21 08 2018 02:30
                 2878.549072 11.35342979 3383.459177 63.61931992
                 2944.261963 11.50304031 3422.570415 62.10565948
21 08 2018 02:40
21 08 2018 02:50
                 2867.621094 11.36118984 3385.598961 61.8367691
21 08 2018 03:00
                 2891.490967 11.33615017 3378.650015 62.51831055
21 08 2018 03:10
                 3047.39502 11.74526024 3476.657998 62.78071976
21 08 2018 03:20 2863.10498 11.28658009 3364.511243 65.69080353
21 08 2018 03:30
                 2868.835938 11.29281044 3366.316411 65.36499786
21 08 2018 03:40 2828.035889 11.27223015 3360.322599 62.78899002
21 08 2018 03:50 2766.603027 11.20670986 3340.64487 61.17573929
21 08 2018 04:00 2697.86499 10.9140501 3241.244139 59.84347916
21 08 2018 04:10 2619.664063 10.69268036 3152.791169 59.55718994
21 08 2018 04:20 2884.099121 11.24584007 3352.506398 57.67990875
21 08 2018 04:30 2711.344971 10.87909031 3228.061011 56.16411972
21 08 2018 04:40 2677.413086 10.84280968 3214.073049 56.74621964
21 08 2018 04:50
                 2372.587891 10.05576038 2826.287737 55.47428894
                 2589.721924 10.49466991 3063.242812 55.63378143
21 08 2018 05:00
21 08 2018 05:10
                 2194.970947 9.690763474 2584.340993 54.54549026
21 08 2018 05:20
                 2256.407959 9.857700348 2700.402209 55.10483932
21 08 2018 05:30 2372.724121 10.12504005 2867.429615 54.12554169
21 08 2018 05:40 2098.321045 9.429924965 2423.996423 52.86128998
21 08 2018 05:50 2394.633057 10.21527958 2918.854257 54.87779999
21 08 2018 06:00 1870.614014 9.05489254 2179.436527 55.32907104
21 08 2018 06:10 2116.669922 9.673844337 2572.049239 53.61579895
21 08 2018 06:20 2155.573975 9.656394005 2559.267453 56.53927994
21 08 2018 06:30 2368.288086 10.10266018 2854.298967 56.16862869
21 08 2018 06:40 1931.177002 9.012893677 2152.306263 56.76161957
21 08 2018 06:50
                 1970.218994 9.321019173 2352.648021 58.01034927
21 08 2018 07:00 1307.130981 7.800780773 1418.059921 60.22874069
21 08 2018 07:10 1215.81604 7.503261089 1259.672553 57.38177109
21 08 2018 07:20
                 1021.846008 6.94291687 990.4976517 48.75054169
21 08 2018 07:30
                 1410.48999 7.923339844 1486.40688 56.45426941
21 08 2018 07:40
                 1148.619995 7.170770168 1094.75333
                                                    45.18175125
                 1084.264038 7.16553688 1092.28228 51.46931076
21 08 2018 07:50
21 08 2018 08:00
                 1130.270996 7.265896797 1140.32325 48.07278061
21 08 2018 08:10
                 1020.919006 7.096721172 1060.12998 35.5430603
21 08 2018 08:20 888.6625977 6.900742054 971.9251746 33.35165024
21 08 2018 08:30 961.7947998 7.101950169 1062.551027 31.41896057
21 08 2018 08:40 930.4011841 7.032721996 1030.787291 30.23390007
21 08 2018 08:50 996.7866821 7.118872166 1070.410708 33.85445023
21 08 2018 09:00
                 1102.876953 7.060407162 1043.415243 28.8156395
                 1015.61499 7.136750221 1078.75569 27.63478088
21 08 2018 09:10
                 1063.421997 7.116576195 1069.342088 27.07612991
21 08 2018 09:20
21 08 2018 09:30 1280.884033 7.760621071 1396.039966 29.45606995
21 08 2018 09:40
                 1483.432983 8.187403679 1639.071387 33.58042908
21 08 2018 09:50
                 1526.416992 8.227355003 1662.756426 31.41039085
21 08 2018 10:00
                 1389.130981 7.872001171 1457.571192 32.17551041
21 08 2018 10:10
                 1405.840942 7.968310833 1511.902134 29.47644043
21 08 2018 10:20
                 1439.526978 8.218437195 1657.457004 28.45274925
21 08 2018 10:30
                 1355.182983 8.052801132 1560.377212 25.83394051
21 08 2018 10:40 1380.869995 8.020643234 1541.840324 24.10320091
21 08 2018 10:50 1603.139038 8.565058708 1868.262196 23.36778069
21 08 2018 11:00 1427.894043 8.134815216 1608.118988 19.52853966
21 08 2018 11:10 979.5853882 7.149119854 1084.554445 20.60162926
```

```
21 08 2018 11:20 931.8010254 6.961094856 998.5708254 24.58048058
21 08 2018 11:30 1041.713989 7.296671867 1155.335583 20.3946209
21 08 2018 11:40 831.059021 6.747755051 906.3682501 19.46126938
21 08 2018 11:50 871.0258789 6.975061893 1004.801961 18.5054493
21 08 2018 12:00 901.682373 6.999240875 1015.647107 12.08981991
21 08 2018 12:10 959.4727783 7.138048172 1079.363196 12.7582798
21 08 2018 12:20 816.9061279 6.8828969 964.1326994 10.66207981
21 08 2018 12:30 863.1751099 6.994623184 1013.57019 10.71811008
21 08 2018 12:40 974.2437744 7.310836792 1162.290498 10.12660027
21 08 2018 12:50
                 1090.699951 7.562182903 1290.139059 9.572807312
21 08 2018 13:00
                 1068.750977 7.469789028 1242.343235 10.71916008
21 08 2018 13:10 1043.848022 7.450578213 1232.467959 10.04740047
21 08 2018 13:20
                 1093.380005 7.551387787 1284.522583 10.97928047
21 08 2018 13:30 1036.952026 7.514411926 1265.40251 12.32748985
21 08 2018 13:40 1144.436035 7.759739876 1395.558941 14.62915039
21 08 2018 13:50 1030.261963 7.301082134 1157.497938 15.43089008
21 08 2018 14:00 1114.203003 7.468632221 1241.746989 15.61034966
21 08 2018 14:10 1130.723022 7.591928959 1305.694677 21.54167938
21 08 2018 14:20 1238.811035 7.874101162 1458.744965 24.11034966
21 08 2018 14:30
                 1564.531982 8.343104362 1732.169611 24.3932209
21 08 2018 14:40
                 1633.151978 8.58062458 1877.940045 26.30064011
21 08 2018 14:50 1707.607056 8.922143936 2093.926342 32.26647186
21 08 2018 15:00
                 1385.817993 7.972735882 1514.422494 32.0714798
21 08 2018 15:10
                 1386.246948 8.030350685 1547.424932 37.51750183
21 08 2018 15:20 1643.957031 8.545347214 1856.030485 36.63483047
21 08 2018 15:30 1710.005005 8.7984972 2014.989128 36.58969116
21 08 2018 15:40 1866.172974 9.022456169 2158.4775
                                                     37.14139938
21 08 2018 15:50 2285.465088 10.03396988 2813.043288 38.32542038
21 08 2018 16:00 1913.235962 9.333607674 2360.88501 39.67893982
21 08 2018 16:10 1868.734985 8.951818466 2112.977731 38.34580994
21 08 2018 16:20 1715.69397 8.712864876 1960.787393 38.36565018
21 08 2018 16:30 1075.737061 7.430158138 1222.03244 39.85356903
21 08 2018 16:40 874.9028931 6.927111149 983.5115084 42.4054718
21 08 2018 16:50 1176.333984 7.566197872 1292.231894 42.62994003
21 08 2018 17:00 1114.359009 7.494268894 1255.008923 43.42361069
21 08 2018 17:10 1243.079956 7.863993168 1453.099731 46.57062912
21 08 2018 17:20
                 1491.942993 8.401397705 1767.54967 49.3981781
21 08 2018 17:30
                 1419.886963 8.198166847 1645.438021 52.01166916
21 08 2018 17:40 1192.015015 7.727291107 1377.910777 54.444561
21 08 2018 17:50 1210.756958 7.768876076 1400.550689 55.65647888
21 08 2018 18:00 1326.092041 7.959317207 1506.786067 58.36367035
21 08 2018 18:10 1693.640015 8.816468239 2026.414643 61.32962036
21 08 2018 18:20 1762.996948 9.006519318 2148.194502 65.94664764
21 08 2018 18:30
                 1947.560059 9.474714279 2453.387329 69.3691864
                 1987.088989 9.42216301 2418.905387 69.12731934
21 08 2018 18:40
21 08 2018 18:50
                 2017.886963 9.584248543 2505.288739 71.17835236
                 1779.253052 9.215966225 2284.041517 73.35086823
21 08 2018 19:00
21 08 2018 19:10
                 1701.14502 9.238850594 2298.96447 76.07247925
                 1564.61499 8.71619606 1962.888154 76.03648376
21 08 2018 19:20
21 08 2018 19:30
                 1556.187012 8.697365761 1951.021672 74.68335724
21 08 2018 19:40
                 1568.30896 8.822875023 2030.491969 72.84713745
21 08 2018 19:50
                 1692.345947 8.95380497 2114.254462 70.15615845
21 08 2018 20:00
                 1657.281006 8.891839027 2074.511139 71.10961914
21 08 2018 20:10
                 1557.848022 8.670291901 1933.997264 72.83891296
21 08 2018 20:20 1681.526978 8.817420959 2027.020828 74.42711639
21 08 2018 20:30 1749.141968 9.190676689 2267.566128 74.84770966
21 08 2018 20:40 1471.880005 8.436193466 1788.795952 76.86226654
21 08 2018 20:50 1442.109985 8.468697548 1808.726207 76.16845703
21 08 2018 21:00 1498.651978 8.668206215 1932.687599 77.46826935
```

```
21 08 2018 21:10 1321.837036 8.067355156 1568.800969 79.06329346
21 08 2018 21:20
                 1374.505981 8.325007439 1721.242136 76.95207977
21 08 2018 21:30
                 1708.97998 9.237752914 2298.248369 75.61901855
21 08 2018 21:40
                 1681.817993 9.272242546 2320.762457 74.24839783
21 08 2018 21:50
                 1553.868042 8.964456558 2121.103148 74.3379364
21 08 2018 22:00
                 1271.389038 8.218848228 1657.701105 75.49981689
21 08 2018 22:10
                 1137.115967 8.14387989 1613.435699 74.13191986
                 1240.239014 8.245895386 1673.796794 74.09786224
21 08 2018 22:20
21 08 2018 22:30
                 1211.305054 8.044496536 1555.580113 75.41578674
21 08 2018 22:40
                 1056.857056 7.795151234 1414.961747 75.57848358
21 08 2018 22:50
                 1091.197021 7.876784801 1460.245682 76.82430267
21 08 2018 23:00 975.5689087 7.635725975 1328.807274 75.75681305
21 08 2018 23:10 892.6638794 7.370580196 1191.94196 75.94793701
21 08 2018 23:20 970.2753296 7.65322113 1338.108393 75.74099731
21 08 2018 23:30 1137.052979 7.832859993 1435.784745 73.24324799
21 08 2018 23:40 1057.881958 7.710308075 1368.724926 73.83397675
21 08 2018 23:50
                 1086.689941 7.918232918 1483.525445 71.82407379
22 08 2018 00:00 1099.889038 7.686072826 1355.677748 73.88535309
22 08 2018 00:10 1153.567993 7.675662041 1350.095372 71.52754974
22 08 2018 00:20 1168.680054 7.741889954 1385.835071 67.68692017
22 08 2018 00:30 1252.39502 7.858848095 1450.230668 63.70063019
                 1362.535034 8.168265343 1627.777048 61.58338928
22 08 2018 00:40
22 08 2018 00:50
                 1585.410034 8.538905144 1852.03874 60.59495163
22 08 2018 01:00
                 1787.459961 9.060854912 2183.293404 58.42488098
22 08 2018 01:10 1874.119995 9.249835968 2306.132705 51.58073044
22 08 2018 01:20 1850.261963 8.985645294 2134.741122 52.07749939
22 08 2018 01:30 1649.463013 8.671117783 1934.515934 50.98175049
22 08 2018 01:40 1660.427002 8.726649284 1969.484498 53.73836136
22 08 2018 01:50 2017.774048 9.342899323 2366.966686 54.54465866
22 08 2018 02:00 2134.285889 9.682315826 2578.216167 54.71033859
22 08 2018 02:10 2167.959961 9.798397064 2660.243469 53.76166916
22 08 2018 02:20 2068.51709 9.681376457 2577.533567 55.84862137
22 08 2018 02:30
                 1940.473022 9.344524384 2368.030501 58.18107986
22 08 2018 02:40
                 1690.421021 8.707543373 1957.432815 58.86162949
22 08 2018 02:50 2033.17395 9.436472893 2428.29177 60.24517059
                 2150.631104 9.896490097 2726.044647 63.73086166
22 08 2018 03:00
22 08 2018 03:10 2161.466064 9.839372635 2688.115227 61.34363937
22 08 2018 03:20 2324.175049 10.30160999 2965.818058 60.08415985
22 08 2018 03:30 2318.176025 10.14280987 2877.74791 60.51100159
22 08 2018 03:40 2424.506104 10.3138504 2972.303589 61.93915176
22 08 2018 03:50 2405.806885 10.27770042 2953.026374 62.55883026
22 08 2018 04:00 2747.960938 10.95224953 3255.321005 64.67730713
22 08 2018 04:10 3137.968018 11.85305023 3497.227135 66.46201324
22 08 2018 04:20 3147.638916 11.88537025 3502.989071 66.68929291
22 08 2018 04:30 3093.529053 11.9326601 3511.088206 68.37645721
22 08 2018 04:40 3162.218018 12.11063957 3538.11616 68.21634674
22 08 2018 04:50
                 3267.926025 12.35492992 3566.662907 67.18099976
22 08 2018 05:00 2975.842041 11.56917
                                         3438.44655 66.23686981
22 08 2018 05:10 2827.001953 11.26860046 3359.256269 66.79802704
22 08 2018 05:20
                 2673.476074 10.82870007 3208.547963 64.37229156
22 08 2018 05:30
                 2740.070068 10.9511404 3254.917073 64.49317932
22 08 2018 05:40 2357.620117 10.01049995 2798.613316 63.86812973
22 08 2018 05:50
                 2416.794922 10.16757011 2891.967634 62.07435989
22 08 2018 06:00 2644.314941 10.69664955 3154.483207 65.06597137
22 08 2018 06:10 2554.491943 10.34148026 2986.787062 63.19895935
22 08 2018 06:20 2603.673096 10.52311039 3076.73576 63.52453995
22 08 2018 06:30 2742.322998 10.93712997 3249.789997 65.71452332
22 08 2018 06:40 2388.461914 10.03557968 2814.026765 61.56402969
22 08 2018 06:50 2468.5
                         10.27342033 2950.719228 61.89440155
```

```
22 08 2018 07:00 2631.105957 10.58228016 3104.121348 62.49518967
22 08 2018 07:10 2326.792969 9.910355568 2735.092053 61.87353897
22 08 2018 07:20 2849.885986 11.01939964 3279.248477 61.81779861
22 08 2018 07:30 2450.106934 10.15260983 2883.397878 61.72016907
22 08 2018 07:40 2968.955078 11.29911995 3368.13625 61.96628952
22 08 2018 07:50
                 2961.971924 11.22097015 3345.005403 59.99008942
22 08 2018 08:00
                 2574.362061 10.36841965 3000.701769 57.34254074
                 2882.340088 10.89708996 3234.884596 58.36040878
22 08 2018 08:10
22 08 2018 08:20
                 2564.092041 10.22912025 2926.528965 54.86555099
22 08 2018 08:30
                 2532.512939 10.43023968 3031.870423 57.80102158
22 08 2018 08:40
                 2339.778076 9.9560709 2764.484236 58.75848007
22 08 2018 08:50 2349.510986 9.866624832 2706.345319 55.73194885
22 08 2018 09:00
                 1887.277954 9.024001122 2159.47488 55.22269058
22 08 2018 09:10 2140.697998 9.488786697 2462.625955 58.19026947
                 2322.628906 9.772171021 2642.110557 57.67478943
22 08 2018 09:20
22 08 2018 09:30 2339.802979 9.876999855 2713.221667 57.81998062
22 08 2018 09:40 2681.295898 10.53872967 3084.054463 56.94207001
22 08 2018 09:50 2417.554932 10.13329983 2872.237573 56.72251892
22 08 2018 10:00 2494.605957 10.34469032 2988.455805 59.75305939
                 1883.064941 8.876029015 2064.399258 60.10063171
22 08 2018 10:10
22 08 2018 10:20
                 2181.364014 9.607702255 2523.038457 63.15652084
22 08 2018 10:30 1877.300049 8.863759995 2056.560395 55.07543945
22 08 2018 10:40
                 1454 7.845849991 1442.995841 35.13940048
22 08 2018 10:50
                 1579.972046 8.005577087 1533.192092 31.47370911
22 08 2018 11:00
                 1617.909058 8.400783539 1767.175504 33.54343033
22 08 2018 11:10 1206.619019 7.57353878 1296.06389 33.89212036
22 08 2018 11:20 1515.550049 8.023163795 1543.289453 32.63420105
22 08 2018 11:30 1445.198975 7.979910851 1518.513516 32.14852142
22 08 2018 11:40 1597.05603 8.305771828 1709.65697 31.29077911
22 08 2018 11:50
                 1716.069946 8.544368744 1855.424004 25.65814018
22 08 2018 12:00 1996.792969 9.140692711 2235.056324 24.93594933
22 08 2018 12:10 1969.215942 8.987553596 2135.970298 29.37215996
22 08 2018 12:20 1919.089966 8.913619995 2088.461124 29.45713043
22 08 2018 12:30 2209.856934 9.574187279 2497.614297 31.5780201
22 08 2018 12:40 2041.55603 9.076993942 2193.739653 31.74609947
22 08 2018 12:50 2148.14209 9.323431969 2354.226542 34.00090027
22 08 2018 13:00 2184.875
                             9.195560455 2270.746405 38.42628098
                 2335.935059 9.44109726 2431.325601 43.04967117
22 08 2018 13:10
22 08 2018 13:20 2783.198975 10.23729038 2931.033098 41.0471611
22 08 2018 13:30 2411.794922 9.606080055 2521.817071 39.48094177
22 08 2018 13:40 2581.499023 10.1612196 2888.337991 42.08094025
22 08 2018 13:50 2411.059082 9.657069206 2559.763988 43.37620926
22 08 2018 14:00 2779.464111 10.57616043 3101.331554 43.18434906
22 08 2018 14:10 2366.342041 9.576820374 2499.626243 45.0494194
22 08 2018 14:20 2708.990967 10.6768198 3145.990297 51.15127945
22 08 2018 14:30 2525.623047 10.0370903 2814.948918 44.34302902
22 08 2018 14:40 2236.906982 9.383694649 2393.686266 46.55992889
22 08 2018 14:50 2707.479004 10.34584999 2989.057942 49.86679077
22 08 2018 15:00 2895.662109 10.7824297 3190.091304 48.77627945
22 08 2018 15:10
                 2673.701904 10.46992016 3051.324505 51.99010086
22 08 2018 15:20
                 2714.389893 10.77912998 3188.755171 50.22338104
22 08 2018 15:30
                 2916.733887 11.0337801 3284.238741 52.71187973
22 08 2018 15:40
                 3137.287109 11.5882597 3442.872215 51.59880066
22 08 2018 15:50 3121.319092 11.69563961 3466.477402 55.19311142
22 08 2018 16:00 3312.335938 12.1856699 3547.915501 54.14849854
22 08 2018 16:10 3132.922119 11.80270958 3487.881771 55.29758835
22 08 2018 16:20 2919.322998 11.34689045 3381.646406 54.86122131
22 08 2018 16:30 3242.958008 12.0112896 3523.694632 57.41728973
22 08 2018 16:40 3269.120117 11.89548016 3504.753535 57.94924164
```

```
22 08 2018 16:50 3477.019043 12.70783997 3591.407642 60.24248123
                 3566.656982 13.47451973 3600 62.27302933
22 08 2018 17:00
22 08 2018 17:10
                 3597.935059 13.61328983 3600 63.54465103
22 08 2018 17:20 3603.810059 13.11830997 3600 62.23815155
22 08 2018 17:30 3591.148926 13.28549957 3600 64.71872711
22 08 2018 17:40 3587.886963 13.50485992 3600 67.78016663
22 08 2018 17:50
                 3589.069092 14.0390501 3600 68.51017761
                 3519.981934 13.1409502 3600 68.13497162
22 08 2018 18:00
22 08 2018 18:10
                 3584.312012 13.51428032 3600
                                              69.84546661
                 3591.447021 13.60459995 3600
                                              69.38273621
22 08 2018 18:20
22 08 2018 18:30
                 3602.261963 13.85772991 3600
                                              70.78447723
22 08 2018 18:40
                 3604.246094 14.71068001 3600 73.27355194
22 08 2018 18:50
                 3602.548096 14.87629986 3600
                                              71.41565704
22 08 2018 19:00
                 3602.961914 15.04459953 3600
                                              73.17830658
                 3604.35498 15.43315983 3600 73.28608704
22 08 2018 19:10
22 08 2018 19:20
                 3595.118896 14.27696037 3600
                                              72.700737
22 08 2018 19:30 3602.951904 15.38187981 3600 71.71027374
22 08 2018 19:40 3603.628906 15.78579044 3600 73.37555695
22 08 2018 19:50 3604.082031 15.14768028 3600 72.11164093
                 3603.840088 14.89247036 3600 72.09780884
22 08 2018 20:00
                 3603.427979 14.32936954 3600 71.82540131
22 08 2018 20:10
                                              70.26847076
22 08 2018 20:20
                 3604.156982 14.35898972 3600
22 08 2018 20:30
                 3596.438965 14.46648026 3600
                                              70.43154144
22 08 2018 20:40
                 3604.219971 15.1740799 3600
                                              71.53663635
22 08 2018 20:50
                 3604.136963 15.53557014 3600 71.89671326
22 08 2018 21:00
                 3604.24707 15.13309956 3600 70.76970673
22 08 2018 21:10
                 3603.878906 14.48616028 3600 71.00469971
22 08 2018 21:20 3604.334961 14.69604015 3600
                                              71.09236908
22 08 2018 21:30 3588.344971 14.60886002 3600
                                              71.18292236
22 08 2018 21:40 3560.945068 13.7225399 3600 71.14391327
22 08 2018 21:50 3602.248047 14.08619976 3600 70.2561264
22 08 2018 22:00
                 3592.12207 13.37392998 3600 71.02313232
22 08 2018 22:10
                 3574.13501 13.29767036 3600 69.74751282
22 08 2018 22:20
                 3560.693115 13.14041996 3600
                                              70.42883301
                 3578.530029 13.83607006 3600
                                              73.14893341
22 08 2018 22:30
22 08 2018 22:40
                 3571.583008 13.79419994 3600
                                              73.5490799
22 08 2018 22:50
                 3590.4729
                            14.18377972 3600
                                              73.49932861
22 08 2018 23:00
                 3565.262939 13.69824028 3600 73.66854858
22 08 2018 23:10
                 3517.739014 12.98377037 3597.8963
                                                    73,2651062
22 08 2018 23:20
                 3598.52002 13.96098995 3600 73.61876678
22 08 2018 23:30 3551.583008 13.24435043 3600 74.65325928
22 08 2018 23:40 3551.302002 13.55333996 3600 75.14563751
22 08 2018 23:50
                 3539.779053 13.52616024 3600
                                              75.67539215
23 08 2018 00:00
                 3531.819092 13.48841953 3600 74.1294632
23 08 2018 00:10 3504.229004 13.34267998 3600 71.86431885
23 08 2018 00:20
                 3582.631104 13.47062016 3600 70.27574921
                 3586.298096 13.64344025 3600 72.88625336
23 08 2018 00:30
                 3600.791016 14.13261032 3600
23 08 2018 00:40
                                              72.4348526
                                              71.36937714
23 08 2018 00:50
                 3596.398926 13.96603012 3600
                                              71.40041351
23 08 2018 01:00
                 3580.605957 13.51144028 3600
                                              68.87705994
23 08 2018 01:10
                 3591.01709 13.1501503 3600
23 08 2018 01:20
                 3591.560059 13.47325039 3600
                                              69.68081665
23 08 2018 01:30
                 3593.745117 13.48875046 3600
                                              70.41137695
23 08 2018 01:40
                 3595.344971 14.00273991 3600
                                              71.16644287
23 08 2018 01:50
                 3597.293945 14.19501019 3600
                                              68.86714172
23 08 2018 02:00
                 3566.13501 13.41586971 3600
                                              68.56208038
23 08 2018 02:10
                 3584.726074 13.73167038 3600 70.5254364
23 08 2018 02:20 3599.455078 14.23709011 3600 72.01693726
23 08 2018 02:30 3602.211914 14.45489025 3600 73.34864807
```

```
23 08 2018 02:40 3603.616943 14.33642006 3600
                                              72.78629303
23 08 2018 02:50
                 3571.614014 13.59620953 3600
                                               72.7938385
23 08 2018 03:00
                 3599.136963 14.26891041 3600
                                               72.07820892
23 08 2018 03:10 3597.111084 13.97805977 3600
                                              72.72205353
23 08 2018 03:20
                 3587.263916 14.10867977 3600
                                              72.23885345
23 08 2018 03:30
                 3599.881104 14.17107964 3600
                                              71.27947235
23 08 2018 03:40
                 3589.4021
                            13.95207024 3600
                                              71.96736908
23 08 2018 03:50
                 3597.202881 13.79693985 3600
                                               72.24671936
23 08 2018 04:00
                 3587.510986 13.96872997 3600
                                               72.22621918
                 3600.737061 13.91555023 3600
                                               71.80615997
23 08 2018 04:10
23 08 2018 04:20
                 3602.361084 14.04566956 3600
                                               71.91536713
23 08 2018 04:30
                 3601.490967 14.13591957 3600 70.69862366
23 08 2018 04:40
                 3556.446045 13.64151955 3600 71.60923767
23 08 2018 04:50
                 3558.840088 14.15958977 3600 70.99632263
23 08 2018 05:00 3600.302002 14.41117001 3600 70.55927277
23 08 2018 05:10 3600.311035 14.28479004 3600
                                              70.97221375
23 08 2018 05:20 3604 14.30323982 3600 70.52079773
23 08 2018 05:30 3602.887939 14.07730961 3600 72.39938354
23 08 2018 05:40 3576.64209 13.47126961 3600 71.68775177
23 08 2018 05:50 3593.810059 13.74382019 3600 72.59261322
23 08 2018 06:00 3595.584961 13.93702984 3600
                                              74.36715698
                             13.65377045 3600 73.03907013
23 08 2018 06:10 3581.3479
23 08 2018 06:20
                 3467.2771
                             12.96008015 3597.768355 72.32684326
23 08 2018 06:30 3435.952881 12.78614998 3594.369389 73.2224884
23 08 2018 06:40 3547.893066 13.15071964 3600 72.45217133
23 08 2018 06:50 3502.855957 12.91110039 3597.250483 71.46645355
23 08 2018 07:00 3548.053955 12.89426994 3596.993405 68.8562088
23 08 2018 07:10 3307.013916 11.97198963 3517.527061 67.09249115
23 08 2018 07:20 3031.529053 11.46877956 3414.008789 65.8881073
23 08 2018 07:30 2609.60498 10.55661011 3092.353544 65.50492096
23 08 2018 07:40 2841.488037 11.18994999 3335.46426 66.57089233
23 08 2018 07:50 2685.2771 10.84070015 3213.250037 65.14407349
23 08 2018 08:00 2167.948975 9.543861389 2474.262855 64.76851654
23 08 2018 08:10 2579.389893 10.40151978 3017.521589 63.52547073
23 08 2018 08:20 2735.552979 10.83261013 3210.083877 63.31549072
                 3096.927002 11.66479969 3459.919977 62.94895172
23 08 2018 08:30
                 3147.531982 11.77077961 3481.717742 59.58942032
23 08 2018 08:40
23 08 2018 08:50
                 2554.647949 10.39811039 3015.803137 58.45872116
23 08 2018 09:00 2773.601074 10.97896004 3264.962769 57.48490906
23 08 2018 09:10 2696.714111 10.83621025 3211.494787 59.58507156
23 08 2018 09:20 3137.297119 11.67068005 3461.184006 57.16225052
23 08 2018 09:30 3397.961914 12.44464016 3574.758551 56.68003082
23 08 2018 09:40 3379.685059 12.38718033 3569.717963 57.62950134
23 08 2018 09:50 3118.50293 11.68772984 3464.812468 59.63402176
23 08 2018 10:00 3031.396973 11.41217995 3399.353955 58.66320038
23 08 2018 10:10 3270.291992 11.89634991 3504.904491 57.66519928
23 08 2018 10:20 3396.927002 12.87755966 3596.697982 60.38605118
23 08 2018 10:30 3384.137939 12.43350983 3573.822208 58.19152069
23 08 2018 10:40 2982.610107 11.34317017 3380.611185 57.42401886
23 08 2018 10:50 2409.121094 9.991570473 2786.849608 58.11713028
23 08 2018 11:00
                 2444.24707 10.12780952 2869.043994 60.97929001
23 08 2018 11:10 2913.547119 11.35498047 3383.887752 62.24855042
23 08 2018 11:20
                 3454.386963 12.5313797 3581.402554 56.21358871
23 08 2018 11:30
                 3488.165039 12.64801025 3588.536441 57.86220932
23 08 2018 11:40
                 2845.550049 11.04634953 3288.562239 52.5175705
23 08 2018 11:50 2196.396973 9.642383575 2548.928378 51.02553177
23 08 2018 12:00 2762.852051 10.72924995 3168.231131 53.78403854
23 08 2018 12:10 2679.960938 10.48139954 3056.872924 52.97848129
23 08 2018 12:20 2538.030029 10.1614399 2888.464104 53.3833313
```

```
23 08 2018 12:30 2984.719971 11.37337017 3388.932768 54.69580078
23 08 2018 12:40 2954.801025 11.4264698 3403.114406 55.50230026
23 08 2018 12:50 2872.428955 11.00321007 3273.574195 55.65673065
23 08 2018 13:00 2341.89502 9.804791451 2664.6297
                                                    52.87171173
23 08 2018 13:10 2371.196045 9.630360603 2540.001104 50.87918091
23 08 2018 13:20 3027.448975 11.61857033 3449.756096 60.4463501
23 08 2018 13:30 2117.13208 8.987955093 2136.228929 50.07434845
23 08 2018 13:40 2382.440918 9.791262627 2655.333481 55.88343048
23 08 2018 13:50 2971.850098 11.5927
                                         3443.891619 61.63243866
                 3572.108887 13.14931011 3600 58.10807037
23 08 2018 14:00
23 08 2018 14:10 3336.297119 12.21899986 3551.972118 56.39458084
23 08 2018 14:20 2507.543945 10.3843298 3008.824457 54.7518692
23 08 2018 14:30 2575.613037 10.49981976 3065.702055 53.4754982
23 08 2018 14:40 2298.88208 9.834654808 2684.934475 49.85448074
23 08 2018 14:50 2268.329102 9.857219696 2700.081387 52.57761002
23 08 2018 15:00 2479.195068 10.2321701 2928.212599 53.07450867
23 08 2018 15:10 2565.013916 10.51280022 3071.869254 54.50114059
23 08 2018 15:20 2561.572021 10.46251011 3047.72405 54.14368057
23 08 2018 15:30 2971.841064 11.25018024 3353.801975 55.59815979
23 08 2018 15:40 2626.830078 10.7010603 3156.35883 56.41286087
23 08 2018 15:50 2702.395996 10.71607971 3162.709093 56.62535095
23 08 2018 16:00 2753.758057 10.91561985 3241.829327 58.20072174
23 08 2018 16:10 2719.736084 10.99680042 3271.311161 57.30807877
23 08 2018 16:20 2715.656982 11.04442978 3287.904211 58.54973984
23 08 2018 16:30 3021.750977 11.75609016 3478.819778 59.28715134
23 08 2018 16:40 3354.375
                             12.79706001 3594.710922 61.42424011
23 08 2018 16:50 3415.450928 12.95489979 3597.72975 61.68664932
23 08 2018 17:00 3425.888916 12.69102001 3590.653986 62.69435883
23 08 2018 17:10 3528.028076 12.8956604 3597.016182 63.72740936
23 08 2018 17:20 3561.157959 13.10317039 3600 64.21365356
23 08 2018 17:30 3503.559082 13.19369984 3600 67.75862885
23 08 2018 17:40 3505.52002 13.05932999 3600 67.75906372
23 08 2018 17:50 3355.548096 12.62106991 3587.069941 66.64082336
23 08 2018 18:00 3362.754883 12.6856699 3590.405505 66.51831055
23 08 2018 18:10 3285.170898 12.55416965 3582.957694 69.12828064
                            12.63008022 3587.572472 70.17693329
23 08 2018 18:20 3438.9021
23 08 2018 18:30 3441.638916 12.55683994 3583.134757 68.60048676
23 08 2018 18:40 3486.853027 12.62423038 3587.247591 69.3249588
23 08 2018 18:50 3374.974121 12.28448963 3559.418849 69.30393219
23 08 2018 19:00 3502.01001 12.71030998 3591.514803 70.97575378
23 08 2018 19:10 3576.658936 13.20057011 3600 73.25392151
23 08 2018 19:20 3504.164063 13.2264204 3600 75.33184052
23 08 2018 19:30 3578.613037 13.71232033 3600 75.34985352
23 08 2018 19:40 3510.753906 13.04444027 3600 73.81784058
23 08 2018 19:50 3397.225098 12.5250597 3580.957322 72.85468292
23 08 2018 20:00 3466.231934 12.88906002 3596.905598 72.69525146
23 08 2018 20:10 3392.471924 12.73929977 3592.705445 75.47015381
23 08 2018 20:20 3583.987061 13.39373016 3600 75.30560303
23 08 2018 20:30 3584.521973 12.96949959 3597.828772 72.64022064
23 08 2018 20:40 3489.686035 12.87782001 3596.702892 74.61099243
23 08 2018 20:50 3380.114014 12.4917202 3578.507824 74.56072998
23 08 2018 21:00 3380.769043 12.63669968 3587.933934 75.18502045
23 08 2018 21:10
                 3289.587891 12.36660004 3567.787265 73.32343292
23 08 2018 21:20 3228.763916 12.22459984 3552.63596 74.70223236
23 08 2018 21:30 3129.048096 12.00292015 3522.403354 75.56446075
23 08 2018 21:40 2969.657959 11.63829041 3454.141013 73.60767365
23 08 2018 21:50 2978.843994 11.83259964 3493.485356 73.76998138
23 08 2018 22:00 2999.00293 11.84761047 3496.23912 75.55370331
23 08 2018 22:10 2918.459961 11.56505966 3437.484463 73.44455719
```

```
2693.658936 11.12308979 3314.191688 72.38749695
23 08 2018 22:20
23 08 2018 22:30
                 2614.623047 10.93467045 3248.885226 71.88687134
23 08 2018 22:40
                 2874.528076 11.5774498 3440.374693 71.93364716
23 08 2018 22:50
                 2795.979004 11.29870987 3368.018223 71.45025635
23 08 2018 23:00
                 2704.783936 11.29209042 3366.108208 74.34155273
23 08 2018 23:10
                  2736.361084 11.14548969 3321.427096 74.94277954
                  2795.01709 11.27095985 3359.949727 73.6603775
23 08 2018 23:20
                  2764.709961 11.1449604 3321.257397 71.87690735
23 08 2018 23:30
                  2971.625977 11.72091007 3471.718857 73.36759949
23 08 2018 23:40
                  2793.128906 11.19379997 3336.659665 72.12277222
23 08 2018 23:50
24 08 2018 00:00
                 2680.983887 10.85715008 3219.639541 72.02789307
24 08 2018 00:10
                 2820.092041 11.35888958 3384.965964 71.12979889
24 08 2018 00:20
                 2726.061035 10.96135998 3258.628156 72.23332977
24 08 2018 00:30
                 2857.312012 11.37368011 3389.017206 73.11630249
24 08 2018 00:40
                 2830.021973 11.23488998 3349.219957 72.72073364
24 08 2018 00:50
                 2813.458008 11.29671955 3367.444887 73.42965698
24 08 2018 01:00
                 2699.201904 11.16370964 3327.231455 74.92331696
24 08 2018 01:10
                 2888.769043 11.63619041 3453.677562 74.28141785
                  3178.177979 12.33285046 3564.476924 74.94555664
24 08 2018 01:20
                  3046.575928 12.08985996 3535.23714 75.91029358
24 08 2018 01:30
                  3086.230957 12.2332201 3553.647903 76.21161652
24 08 2018 01:40
24 08 2018 01:50
                  3098.987061 12.38298988 3569.330227 76.47016144
24 08 2018 02:00
                  3201.768066 12.4874897 3578.184853 73.65351868
24 08 2018 02:10
                 3182.726074 12.42306042 3572.925676 73.54836273
24 08 2018 02:20
                 3152.210938 12.34844971 3566.02931 73.65979004
24 08 2018 02:30 3134.481934 12.35087967 3566.267673 72.47431946
24 08 2018 02:40 3093.450928 12.12664032 3540.284033 70.87792206
24 08 2018 02:50 2974.812012 11.69894981 3467.170718 70.82407379
                 2960.774902 11.42043972 3401.532566 70.40405273
24 08 2018 03:00
                 2906.996094 11.36305046 3386.110182 70.30538177
24 08 2018 03:10
24 08 2018 03:20
                 2839.832031 11.30136967 3368.783123 71.27651215
24 08 2018 03:30
                 2748.508057 11.24894047 3353.432298 70.53045654
24 08 2018 03:40
                 2922.071045 11.61590004 3449.156671 70.30166626
24 08 2018 03:50
                 2900.427979 11.46525002 3413.113589 70.60437775
                 2747.629883 11.0943203 3304.736807 69.24362183
24 08 2018 04:00
                  2699.314941 11.18953991 3335.336744 68.41372681
24 08 2018 04:10
24 08 2018 04:20
                  2689.018066 11.09436035 3304.750098 67.89167023
24 08 2018 04:30
                 2519.425049 10.67416
                                         3144.843577 64.7010498
24 08 2018 04:40
                 2721.425049 11.01988029 3279.416029 65.5812912
                 2829.354004 11.53658009 3430.728724 67.04527283
24 08 2018 04:50
24 08 2018 05:00
                 2591.599121 10.64332008 3131.41637 65.21716309
                 2467.363037 10.33283997 2982.281024 67.04316711
24 08 2018 05:10
24 08 2018 05:20
                 2540.677002 10.69066048 3151.928586 65.92951202
24 08 2018 05:30
                 2710.875
                             11.05924988 3292.962558 65.03382111
24 08 2018 05:40
                 2503.733887 10.68210983 3148.265674 65.15622711
24 08 2018 05:50
                 2293.180908 10.03199959 2811.838484 62.24219131
24 08 2018 06:00
                 2287.275879 10.10811043 2857.510681 61.61367035
                 1751.267944 8.737675667 1976.449332 60.21107864
24 08 2018 06:10
24 08 2018 06:20
                 1678.628052 8.719106674 1964.724216 62.13747025
24 08 2018 06:30
                 1700.987061 8.814665794 2025.267936 59.64756012
24 08 2018 06:40
                 1484.475952 8.271650314 1689.183515 57.48181915
24 08 2018 06:50
                 1460.734009 8.038751602 1552.265668 57.9104805
24 08 2018 07:00
                 1739.954956 8.734045982 1974.155869 60.70750046
24 08 2018 07:10
                 1786.082031 8.873810768 2062.981449 60.17098999
24 08 2018 07:20
                 2139.6521
                              9.710178375 2598.324142 59.45806885
24 08 2018 07:30
                 2206.602051 9.859446526 2701.567099 60.53414154
24 08 2018 07:40
                 1749.338013 8.969463348 2124.324042 62.11800003
24 08 2018 07:50 1497.687012 8.514304161 1836.82175 61.16188812
24 08 2018 08:00 1454.616943 8.306071281 1709.837086 62.07332993
```

```
24 08 2018 08:10 1659.17395 8.776508331 2001.032459 60.86899185
24 08 2018 08:20 462.4617004 8.065040588 1567.459898 63.88175964
24 08 2018 08:30
                 1549.563965 8.461435318 1804.266426 62.39654922
24 08 2018 08:40
                 1584.128052 8.620897293 1903.053567 61.32202148
24 08 2018 08:50
                 1391.623047 8.15220356 1618.324649 58.66028976
24 08 2018 09:00
                 1582.233032 8.512918472 1835.965901 60.02328873
24 08 2018 09:10
                 1392.144043 8.112314224 1594.955432 57.23019028
                 946.4647827 7.221467018 1118.884177 60.21210861
24 08 2018 09:20
24 08 2018 09:30
                 792.4475098 6.698805809 885.9790718 59.60792923
                 676.2338867 6.221449852 701.2790633 50.62614059
24 08 2018 09:40
24 08 2018 09:50
                 882.6430054 6.732071877 899.805168 42.71121979
24 08 2018 10:00 832.8082886 6.590983868 842.0424038 44.40287018
24 08 2018 10:10
                 1034.965942 7.134772778 1077.830581 56.2263298
24 08 2018 10:20 801.0452881 6.574433804 835.4154951 66.35829163
24 08 2018 10:30 473.15271 5.672510147 520.0218807 57.8797493
24 08 2018 10:40 524.020813 5.736180782 539.5777831 38.06137848
24 08 2018 10:50
                 585.4215698 5.945892811 606.8877183 28.58448029
24 08 2018 11:00 518.1644897 5.785583973 555.0292172 34.69419098
24 08 2018 11:10 613.5264282 6.035223961 635.9360927 28.94363976
                686.9511108 6.374885082 757.9134862 27.83186913
24 08 2018 11:20
                 699.7518921 6.27670002 721.3797826 30.93498993
24 08 2018 11:30
                 687.4976807 6.273955822 720.3736588 26.67296982
24 08 2018 11:40
24 08 2018 11:50
                 635.8806763 6.161717892 679.9162723 26.09324074
24 08 2018 12:00
                 399.859314 5.380685806 435.3228565 22.20030022
24 08 2018 12:10
                 371.730011 5.358839989 429.2943346 21.10083961
24 08 2018 12:20
                 367.8020935 5.374137878 433.5115038 26.17365074
24 08 2018 12:30 358.1801147 5.360047817 429.6265508 27.86179924
24 08 2018 12:40 331.6859131 5.194030762 385.1361292 27.29879951
24 08 2018 12:50 310.3251038 5.065574169 352.2739026 27.84285927
24 08 2018 13:00
                 299.249115 5.117714882 365.4535075 23.53054047
                 329.9594116 5.231440067 394.9583552 26.90739059
24 08 2018 13:10
24 08 2018 13:20
                 239.3480988 4.852680206 300.6157006 25.21079063
24 08 2018 13:30
                 143.2138062 4.211143017 163.233075 26.9517498
24 08 2018 13:40
                 179.3822021 4.45339489 212.1995955 29.07723045
                 294.2875061 5.057819843 350.3320886 29.36771965
24 08 2018 13:50
24 08 2018 14:00
                 270.5046082 4.923544884 317.4368619 28.0197506
24 08 2018 14:10
                 276.6340027 4.908113956 313.7429544 32.97314072
                 309.3275146 5.139761925 371.0913103 36.68019867
24 08 2018 14:20
24 08 2018 14:30 456.0054016 5.688382149 524.8595178 42.74897003
                498.2341003 5.844882965 573.9019966 41.29339981
24 08 2018 14:40
24 08 2018 14:50 795.1165771 6.778554916 919.3415316 38.31985855
24 08 2018 15:00 806.1408081 6.784725189 921.9540039 37.52531815
24 08 2018 15:10
                 747.9052734 6.665287018 872.177695 40.34183121
24 08 2018 15:20
                 704.3328247 6.490245819 802.1807146 43.06604004
24 08 2018 15:30 530.4655762 5.958035946 610.9255331 44.469841
24 08 2018 15:40 620.5952148 6.218831062 700.3344537 48.15356064
24 08 2018 15:50
                 682.3911133 6.678639889 877.6602073 52.5916481
                             7.332158089 1172.813313 52.36698914
24 08 2018 16:00
                 1001.138
                 1045.698975 7.363604069 1188.452879 52.97410965
24 08 2018 16:10
24 08 2018 16:20
                 1368.255005 8.090315819 1582.133281 53.9859314
24 08 2018 16:30
                 1620.083984 8.583254814 1879.57696 54.41038895
24 08 2018 16:40
                 1789.042969 8.991997719 2138.833421 57.20827103
24 08 2018 16:50
                 1931.338989 9.258470535 2311.769017 55.87517929
24 08 2018 17:00
                 2277.004883 10.04411983 2819.230776 59.01739883
24 08 2018 17:10
                 2131.834961 9.807483673 2666.472353 60.22713852
24 08 2018 17:20 1973.775024 9.459780693 2443.585428 62.10380173
24 08 2018 17:30
                 1828.015991 9.11343956 2217.362866 63.03182983
24 08 2018 17:40 1818.564941 9.103568077 2210.959973 65.51348877
24 08 2018 17:50 1802.843018 9.078261375 2194.560411 70.95477295
```

```
24 08 2018 18:00 1559.487061 8.519956589 1840.314299 70.12255859
                 1836.307983 9.063076973 2184.731117 70.81905365
24 08 2018 18:10
24 08 2018 18:20
                 1715.011963 8.970471382 2124.972643 74.85230255
24 08 2018 18:30
                 1379.365967 8.165769577 1626.306698 77.55957031
24 08 2018 18:40
                 1553.571045 8.91277504 2087.919552 77.21334076
24 08 2018 18:50
                 1381.264038 8.926215172 2096.537815 76.65753937
24 08 2018 19:00
                 1644.569946 9.302915573 2340.807794 74.85668182
                 1718.249023 9.454707146 2440.255849 75.08587646
24 08 2018 19:10
                 1963.239014 9.680937767 2577.214685 76.10935211
24 08 2018 19:20
                 1911.276978 9.458228111 2442.566498 72.94833374
24 08 2018 19:30
24 08 2018 19:40
                 1612.425049 8.800243378 2016.098558 73.37640381
24 08 2018 19:50
                 1526.464966 8.53917408 1852.205325 75.31629944
24 08 2018 20:00
                 1630.467041 8.653199196 1923.272125 75.97498322
24 08 2018 20:10
                 1687.062988 8.678553581 1939.187631 76.34398651
24 08 2018 20:20
                 1702.209961 8.640441895 1915.279142 76.3049469
24 08 2018 20:30 1249.805054 7.532164097 1274.559239 77.82673645
24 08 2018 20:40 977.9747925 6.680741787 878.5250906 79.67668152
24 08 2018 20:50 668.0681152 5.683108807 523.2495194 84.21347809
24 08 2018 21:00 464.0177917 4.656538963 255.8893099 88.85578918
                 559.1588135 5.344668865 425.4060509 87.5581131
24 08 2018 21:10
24 08 2018 21:20
                 1339.537964 8.218296051 1657.373187 78.12586975
                 1522.246948 8.910715103 2086.599375 76.04958344
24 08 2018 21:30
24 08 2018 21:40
                 1532.744995 8.53679657 1850.732815 74.92154694
24 08 2018 21:50
                 1417.509033 8.478793144 1814.932456 75.23249054
24 08 2018 22:00 1191.917969 7.672351837 1348.323234 76.92534637
24 08 2018 22:10 1392.974976 7.923239231 1486.350085 77.53469086
24 08 2018 22:20 1271.416016 7.800619125 1417.970908 76.32230377
24 08 2018 22:30 1228.837036 7.798095226 1416.581489 74.82884216
24 08 2018 22:40 1246.186035 7.896100044 1471.070649 73.55853271
24 08 2018 22:50 675.4857178 6.233445168 705.6152355 75.89763641
24 08 2018 23:00 518.1484985 5.630966187 507.475655 79.56981659
24 08 2018 23:10 685.9761963 6.346167088 747.1197372 78.67030334
24 08 2018 23:20
                 540.7988281 5.092017174 358.931079 82.35334015
24 08 2018 23:30
                 786.4420776 6.15363121 677.0534748 79.78592682
                 1000.341003 6.953956127 995.3954618 76.5078125
24 08 2018 23:40
24 08 2018 23:50
                 991.9022217 6.819242001 936.6518401 76.57713318
25 08 2018 00:00
                 1094.505981 7.169001102 1093.9176
                                                     75.8392868
25 08 2018 00:10
                 1246.256958 7.901294231 1473.988723 74.20353699
25 08 2018 00:20
                 1095.791016 7.361348152 1187.326116 75.51763153
25 08 2018 00:30 917.5875854 7.01198101 1021.391338 76.35861206
25 08 2018 00:40 918.2072754 7.217510223 1116.988147 75.2702713
25 08 2018 00:50 672.102417 5.797797203 558.8869569 78.52716064
25 08 2018 01:00 782.3776245 6.206254959 695.8084426 78.27694702
25 08 2018 01:10
                 1424.333984 8.644962311 1918.110205 77.01024628
25 08 2018 01:20
                 1346.032959 8.619919777 1902.44275 74.5880127
25 08 2018 01:30
                 765.8983765 6.80445385 930.3374007 81.60851288
25 08 2018 01:40
                 437.5228882 5.433139801 449.9704181 81.27919006
                 672.8391113 6.655035019 867.9822737 75.96782684
25 08 2018 01:50
25 08 2018 02:00
                 984.0181885 7.536955833 1277.038109 77.58174133
25 08 2018 02:10
                 773.7797241 6.793292999 925.5890777 77.06429291
25 08 2018 02:20
                 263.3670044 4.537552834 229.9909551 75.93934631
25 08 2018 02:30
                 38.33776093 3.280508995 31.27111155 80.45168304
25 08 2018 02:40
                 36.00712967 3.188047886 24.84649294 83.60282135
25 08 2018 02:50
                 79.33999634 3.763060093 86.99877941 75.02250671
25 08 2018 03:00
                 195.9963074 4.675983906 260.2077367 70.45916748
25 08 2018 03:10 535.9122925 6.18421793 687.9184181 72.87978363
25 08 2018 03:20 652.6134033 6.60766983 848.7550683 71.70485687
25 08 2018 03:30 684.6674194 6.554675102 827.5441876 74.14885712
25 08 2018 03:40 738.7827759 6.653913975 867.5242409 74.68881989
```

```
25 08 2018 03:50 692.1895752 6.662825108 871.1691072 75.90257263
                 764.8378296 6.856399059 952.6335561 75.58989716
25 08 2018 04:00
                 670.7478027 6.467566967 793.3626067 77.12811279
25 08 2018 04:10
25 08 2018 04:20 840.869873 7.039702892 1033.962144 76.51476288
25 08 2018 04:30 870.9556885 7.303417206 1158.643946 75.4431076
25 08 2018 04:40
                 724.3375244 6.719090939 894.3946762 73.28083801
                 762.0272827 6.839232922 945.2295068 71.80914307
25 08 2018 04:50
                 918.1658936 7.227043152 1121.559835 73.50791931
25 08 2018 05:00
25 08 2018 05:10
                 842.0443726 6.956262112 996.4204847 73.82745361
                 920.0692139 7.32525301 1169.39826 73.47402191
25 08 2018 05:20
25 08 2018 05:30
                 692.3453979 6.568309784 832.9711653 70.83986664
25 08 2018 05:40
                 562.9298706 6.15349102 677.0039072 70.29528046
25 08 2018 05:50
                 655.1038818 6.38359499 761.2048641 69.35381317
25 08 2018 06:00
                 725.5203857 6.671264172 874.6292972 67.18422699
25 08 2018 06:10 801.4074707 6.92677021 983.3611549 64.51795959
25 08 2018 06:20 642.9790039 6.494256973 803.7462773 67.25141907
25 08 2018 06:30 682.2305908 6.549914837 825.6543852 65.61844635
25 08 2018 06:40 480.9856873 5.743477821 541.8446307 61.63095093
25 08 2018 06:50 725.727417 6.583725929 839.1324052 62.38830185
25 08 2018 07:00 562.7205811 6.167863846 682.0967045 61.24250031
                 584.9133301 6.281146049 723.0115826 63.16717911
25 08 2018 07:10
25 08 2018 07:20
                 481.0255127 6.018026829 630.0889223 66.15294647
25 08 2018 07:30
                 536.737793 6.201786995 694.2045503 62.46567154
25 08 2018 07:40
                 421.7268982 5.653767109 514.3408047 65.32568359
25 08 2018 07:50
                 319.0393066 5.297855854 412.6851952 67.14582062
25 08 2018 08:00
                 337.0309143 5.386648178 436.9755155 64.18805695
25 08 2018 08:10
                 196.7915955 4.618422031 247.495218 70.21730804
                 129.5520935 4.111045837 143.8960258 70.60054779
25 08 2018 08:20
                                         319.7955674 64.86247253
25 08 2018 08:30
                 271.3951111 4.9333601
                 296.3742065 5.214019775 390.3700452 68.76683044
25 08 2018 08:40
25 08 2018 08:50
                 320.5542908 5.235064983 395.9162935 71.40711212
25 08 2018 09:00
                 354.5604858 5.497747898 468.3522761 72.17471313
25 08 2018 09:10
                 254.600296 4.870151997 304.7292923 72.50639343
25 08 2018 09:20
                 124.4207993 3.899271965 109.4719082 65.36074066
                 232.5901947 4.867507935 304.1053651 70.29950714
25 08 2018 09:30
25 08 2018 09:40
                 209.2335968 4.714546204 268.8454726 67.67681122
25 08 2018 09:50
                 156.5702057 4.334359169 187.7380128 64.47499847
25 08 2018 10:00
                 241.8495026 4.808359146 290.2778911 64.62850189
25 08 2018 10:10
                 112.3566971 3.931617022 115.2445667 41.04904938
                 94.26909637 3.88201499 106.4605151 37.45222092
25 08 2018 10:20
25 08 2018 10:30
                 36.28419876 3.084027052 19.2537093 37.2725296
                 32.28953934 3.144233942 22.27976055 46.23923874
25 08 2018 10:40
25 08 2018 10:50
                 73.63629913 3.725739956 81.35955728 46.42499924
25 08 2018 11:00
                 200.6186981 4.469898224 215.6552098 54.79470062
25 08 2018 11:10
                 255.0814972 4.735694885 273.62476
                                                     31.58172035
25 08 2018 11:20
                 156.5148926 4.202526093 161.5488856 36.27804947
                 296.1734009 5.000770092 336.1888086 28.09427071
25 08 2018 11:30
                 296.0892944 5.015036106 339.7020816 27.78160095
25 08 2018 11:40
25 08 2018 11:50
                 435.5914001 5.595807076 496.9874459 29.11075974
25 08 2018 12:00
                 341.1582031 5.119481087 365.9037228 28.66363907
25 08 2018 12:10
                 313.8818054 5.171758175 379.3429633 29.20697975
25 08 2018 12:20
                 425.5639954 5.519855022 474.7297271 35.82764053
25 08 2018 12:30
                 386.9926147 5.274366856 406.373178 29.20741081
25 08 2018 12:40
                 463.7850037 5.716518879 533.4961041 29.77243042
25 08 2018 12:50
                 394.263092 5.437046051 451.0710572 24.5286808
25 08 2018 13:00
                 479.9479065 5.74219799 541.4466634 24.1151104
25 08 2018 13:10
                 415.2304077 5.495995998 467.8488148 26.30651093
25 08 2018 13:20 462.2493896 5.689197063 525.1085616 24.96924973
25 08 2018 13:30 504.6611938 5.929072857 601.3206489 23.6232605
```

```
25 08 2018 13:40 561.4906006 6.016894817 629.7051381 26.06431961
                  497.0704041 5.883869171 586.5069281 27.49928093
25 08 2018 13:50
                  543.4337158 6.101744175 658.8510936 22.71828079
25 08 2018 14:00
25 08 2018 14:10
                  720.7858887 6.623504162 855.1543308 23.38113022
25 08 2018 14:20
                  695.5092773 6.522103786 814.66421
                                                       27.71759987
25 08 2018 14:30
                  760.9625244 6.745793819 905.545938 27.47200966
25 08 2018 14:40
                  702.6781006 6.452824116 787.6606776 28.52071953
25 08 2018 14:50
                  792.435791 6.725226879 896.9497022 34.91278076
25 08 2018 15:00
                  897.4534912 7.045522213 1036.613518 34.87491989
                  804.8045044 6.855916977 952.4251393 37.01174164
25 08 2018 15:10
25 08 2018 15:20
                  813.8442993 6.771841049 916.5040255 36.23912811
25 08 2018 15:30
                  703.2692261 6.444508076 784.4549362 38.94105148
25 08 2018 15:40
                  785.1071777 6.780739784 920.2660811 39.41270065
25 08 2018 15:50
                  605.9970093 6.179503918 686.237391 43.17089844
25 08 2018 16:00
                  598.9799194 6.353137016 749.7311724 53.32395935
25 08 2018 16:10
                  785.2094727 6.913887978 977.6906457 55.39619827
25 08 2018 16:20
                  898.8051758 7.122673988 1072.181736 56.66336823
25 08 2018 16:30
                  867.3079834 6.987809181 1010.510366 57.85300827
25 08 2018 16:40
                  999.0836792 7.262238979 1138.54781 59.82532883
25 08 2018 16:50
                  1093.120972 7.535782814 1276.430997 60.96633148
                  1170.427979 7.762773037 1397.215067 62.59748077
25 08 2018 17:00
25 08 2018 17:10
                  1224.979004 7.872306824 1457.742004 62.88113022
25 08 2018 17:20
                  1111.609985 7.728655815 1378.650451 67.67011261
25 08 2018 17:30
                  1042.522949 7.55689621 1287.386574 70.94535828
25 08 2018 17:40
                  652.6685791 6.597144127 844.5169695 74.80735016
25 08 2018 17:50
                  755.6627197 7.077619076 1051.316133 75.131073
25 08 2018 18:00
                  551.0048218 6.289988995 726.2634897 75.42611694
25 08 2018 18:10
                  167.0157013 3.93109107 115.1493607 81.07718658
                  34.73559952 3.337318897 35.89692779 94.08393097
25 08 2018 18:20
                  31.12883949 3.279252052 31.17460237 85.73253632
25 08 2018 18:30
                  5.201665878 2.306488037 0
25 08 2018 18:40
                                                 86.50511169
25 08 2018 18:50
                  0
                        1.810263991 0
                                           78.05715942
25 08 2018 19:00
                                           87.51911163
                  0
                        0.648657799 0
25 08 2018 19:10
                                           57.55447006
                  0
                        1.406067014 0
25 08 2018 19:20
                  0
                        1.217489958 0
                                           88.64949799
25 08 2018 19:30
                  0
                        1.055714965 0
                                           79.0867691
25 08 2018 19:40
                  0
                        0.849365413 0
                                           177.9463959
                                           237.8683929
25 08 2018 19:50
                  0
                        0.815380991 0
25 08 2018 20:00
                        1.25624299 0
                                           244.5142975
25 08 2018 20:10
                        1.155125022 0
                                           274.0140991
25 08 2018 20:20
                        1.366448998 0
                                           10.53652954
                  0
25 08 2018 20:30
                                           295.2250061
                  0
                        1.184790015 0
25 08 2018 20:40
                                           300.9887085
                  0
                        1.346222997 0
25 08 2018 20:50
                  0
                                           259.0018921
                        1.182487011 0
25 08 2018 21:00
                                           287.0004883
                  0
                        0.551498175 0
25 08 2018 21:10
                        0.995936811 0
                                           276.6451111
25 08 2018 21:20
                  0
                        0.952429414 0
                                           260.1404114
                                           270.5733948
25 08 2018 21:30
                  0
                        1.082290053 0
25 08 2018 21:40
                  0
                        1.418480039 0
                                           260.324585
25 08 2018 21:50
                  0
                        1.768785954 0
                                           282.5562134
25 08 2018 22:00
                  0
                        2.154103994 0
                                           303.6686096
25 08 2018 22:10
                                           324.1300964
                        1.942621946 0
25 08 2018 22:20
                        1.776890039 0
                                           348.5857849
25 08 2018 22:30
                        2.257564068 0
                                           23.54521942
                  0
25 08 2018 22:40
                                           32.95709991
                  0
                        2.192105055 0
25 08 2018 22:50
                  0
                        2.45482111 0
                                           32.65959167
25 08 2018 23:00
                  0
                        2.629473925 0
                                           28.97319031
25 08 2018 23:10
                  0
                        2.453414917 0
                                           30.6803894
25 08 2018 23:20
                  0
                        2.41245389
                                           33.81060028
```

```
25 08 2018 23:30
                        2.50493598 0
                                           38.39987946
                  0
25 08 2018 23:40
                  0
                        3.037633896 17.31758948 38.77927017
25 08 2018 23:50
                                           44.08200836
                  0
                        2.467457056 0
26 08 2018 00:00
                  0
                        1.971552968 0
                                           50.26800919
26 08 2018 00:10
                  0
                        2.271258116 0
                                           43.93001175
26 08 2018 00:20
                        2.608515978 0
                                           52.27899933
26 08 2018 00:30
                  0
                        2.613240004 0
                                           62.74121094
26 08 2018 00:40
                  0
                        2.825316906 0
                                           64.47506714
26 08 2018 00:50
                  0
                        3.208483934 26.14872997 71.87345123
26 08 2018 01:00
                  0
                        2.454494953 0
                                           68.30225372
26 08 2018 01:10
                        1.397024035 0
                  0
                                           75.88123322
26 08 2018 01:20
                        1.660521984 0
                                           74.53894806
26 08 2018 01:30
                        1.624369025 0
                                           67.94106293
26 08 2018 01:40
                        1.231323004 0
                                           62.08633041
26 08 2018 01:50
                        1.958250999 0
                                           61.88716888
                  0
26 08 2018 02:00
                  0
                        1.200747967 0
                                           66.07623291
26 08 2018 02:10
                  0
                        1.139585018 0
                                           63.11854935
26 08 2018 02:20
                  0
                        0.924527824 0
                                           51.21559906
26 08 2018 02:30
                  0
                        1.058107972 0
                                           345.1906128
26 08 2018 02:40
                  0
                        1.178205013 0
                                           6.08361721
26 08 2018 02:50
                        1.287346005 0
                                           2.136035919
                  0
26 08 2018 03:00
                  0
                        0.987285078 0
                                           5.272119999
26 08 2018 03:10
                  0
                        1.610093951 0
                                           8.089048386
26 08 2018 03:20
                  0
                        1.881585002 0
                                           14.37973022
26 08 2018 03:30
                        1.762613058 0
                                           5.916829109
26 08 2018 03:40
                        1.616718054 0
                                           355.3424072
26 08 2018 03:50
                        1.882518053 0
                                           359.2282104
26 08 2018 04:00
                        2.133346081 0
                                           0.895485103
                  0
26 08 2018 04:10
                  0
                        1.920431972 0
                                           43.65916824
26 08 2018 04:20
                  0
                        2.444811106 0
                                           78.4140625
26 08 2018 04:30
                  0
                        2.189929008 0
                                           76.8738327
                  0
                        3.059258938 18.17721575 82.81095886
26 08 2018 04:40
26 08 2018 04:50
                        3.038746119 17.35997673 91.61475372
                  0
26 08 2018 05:00
                                           71.96076202
                  0
                        2.918312073 0
26 08 2018 05:10
                        3.018845081 16.63145357 58.73426056
                  0
26 08 2018 05:20
                  0
                        2.967288971 0
                                           70.31944275
26 08 2018 05:30
                  0
                        3.264439106 30.05629465 67.17053986
26 08 2018 05:40
                        3.403548956 41.94170738 73.4852829
26 08 2018 05:50
                  79.34697723 4.290000916 178.8236041 70.20332336
26 08 2018 06:00
                  70.70995331 3.895440102 108.7991213 69.6856308
26 08 2018 06:10
                  15.75216961 2.935131073 0
                                                 65.35373688
26 08 2018 06:20
                                           78.43874359
                  0
                        2.15459609 0
26 08 2018 06:30
                        3.042861938 17.51855369 81.64826202
                  0
26 08 2018 06:40
                  9.137936592 3.199580908 25.57319215 74.78652191
26 08 2018 06:50
                  0
                        2.366611004 0
                                           87.03587341
26 08 2018 07:00
                  0
                        1.901190996 0
                                           77.98509979
26 08 2018 07:10
                  0
                        1.329445958 0
                                           54.93992996
26 08 2018 07:20
                                           49.30010986
                  0
                        1.761540055 0
26 08 2018 07:30
                  0
                        2.117727995 0
                                           78.10540009
26 08 2018 07:40
                  0
                        1.743991017 0
                                           65.69036102
26 08 2018 07:50
                  0
                        2.346246004 0
                                           75.80844879
26 08 2018 08:00
                        2.174460888 0
                                           62.46183014
26 08 2018 08:10
                        2.392451048 0
                                           49.36180115
26 08 2018 08:20
                        2.743415117 0
                                           34.5050087
                  0
26 08 2018 08:30
                                           30.76585007
                  0
                        2.581064939 0
26 08 2018 08:40
                  0
                        2.462739944 0
                                           41.38262939
26 08 2018 08:50
                  0
                        2.591636896 0
                                           39.68793869
26 08 2018 09:00
                  0
                        2.855134964 0
                                           41.32432175
26 08 2018 09:10
                  0
                        3.017458916 16.5830704 38.09490967
```

```
2.94639802 0
26 08 2018 09:20 0
                                         42.41178894
26 08 2018 09:30 0
                       2.858163118 0
                                         59.0175705
26 08 2018 09:40
                       3.452436924 46.85391518 43.38024902
                 0
                       3.104588985 20.221956
26 08 2018 09:50 0
                                              41.50904846
                 10.54273987 3.398570061 41.46288941 37.58060837
26 08 2018 10:00
26 08 2018 10:10
                       3.241709948 28.40861422 31.12273026
26 08 2018 10:20
                       3.282876015 31.45353965 43.82112885
26 08 2018 10:30
                 28.62129974 3.485678911 50.41244554 35.24238968
26 08 2018 10:40 62.67491913 3.692163944 76.47652027 32.46337891
26 08 2018 10:50
                 28.8046093 3.410062075 42.5740588 37.05595016
26 08 2018 11:00
                 28.78787994 3.266782999 30.23090946 29.02850914
26 08 2018 11:10 52.77671051 3.464963913 48.17416044 33.3536911
26 08 2018 11:20 97.11251068 3.789252996 91.08971928 32.7638092
26 08 2018 11:30 86.99452209 3.82454896 96.77604567 31.99901009
26 08 2018 11:40 249.7657928 4.768404007 281.0761369 26.84003067
26 08 2018 11:50 255.5980072 4.809893131 290.6333815 25.96606064
26 08 2018 12:00 223.9192047 4.588801861 241.0363637 24.34202003
26 08 2018 12:10 238.3117065 4.64517498 253.3769371 26.34485054
26 08 2018 12:20 342.5856018 5.283051968 408.7015887 24.02848053
26 08 2018 12:30 343.9053955 5.348462105 426.4451261 26.49909973
26 08 2018 12:40 356.4194946 5.369991779 432.3665196 25.06365967
26 08 2018 12:50
                 388.1554871 5.529792786 477.6112973 25.77858925
26 08 2018 13:00
                 237.9676971 4.838156223 297.2127173 22.06117058
26 08 2018 13:10
                 293.9590149 5.095078945 359.705452 23.99897957
26 08 2018 13:20 249.8011017 4.847381115 299.3723811 25.2635498
26 08 2018 13:30 236.0466003 4.673000813 259.5436313 24.62529945
26 08 2018 13:40 228.9709015 4.755842209 278.205849 25.88179016
26 08 2018 13:50 184.9324951 4.515396118 225.2656686 26.60877991
26 08 2018 14:00 208.1174927 4.632994175 250.6932486 26.29899979
26 08 2018 14:10 148.4394073 4.200784206 161.2088877 25.47397995
26 08 2018 14:20 151.3916931 4.290700912 178.9634567 28.39406013
26 08 2018 14:30 173.2467957 4.391744137 199.4304108 29.54091072
26 08 2018 14:40 189.7774963 4.547812939 232.1892493 36.71252823
26 08 2018 14:50 146.7272949 4.181692123 157.4923055 39.09357071
26 08 2018 15:00 195.1746063 4.542852879 231.1257175 42.90782166
26 08 2018 15:10 215.8105011 4.677508831 260.5474457 53.15293884
26 08 2018 15:20
                 170.8484955 4.562427044 235.3316084 55.09598923
                 203.0668945 4.701933861 266.0095263 46.58172989
26 08 2018 15:30
26 08 2018 15:40 209.7628021 4.719151974 269.8837503 43.62055969
26 08 2018 15:50 261.0071106 4.918312073 316.1822572 48.32291031
26 08 2018 16:00 335.1897888 5.405301094 442.1660779 46.80176926
26 08 2018 16:10 463.8817139 5.984097958 619.6448043 47.07019043
26 08 2018 16:20 544.7098999 6.209512234 696.9790751 49.02397919
26 08 2018 16:30 715.3220825 6.73567915 901.3121854 47.35625839
26 08 2018 16:40 670.3870239 6.555475235 827.8620859 47.67518997
                 779.2462158 6.861893177 955.0107976 52.86154938
26 08 2018 16:50
26 08 2018 17:00 854.5864868 7.101026058 1062.122898 53.86091995
26 08 2018 17:10 940.8024292 7.393260956 1203.335059 59.88938904
26 08 2018 17:20 888.5272217 7.182294846 1100.208114 59.29193878
26 08 2018 17:30
                 768.4246216 6.889625072 967.0661212 62.30604172
26 08 2018 17:40
                 677.0524292 6.720682144 895.0568378 64.05014038
26 08 2018 17:50 549.826416 6.274733067 720.6585429 69.01165771
26 08 2018 18:00
                 428.6575012 5.929842949 601.5748794 67.70622253
26 08 2018 18:10
                 319.6514893 5.378485203 434.7136823 70.14421082
26 08 2018 18:20
                 241.0182953 4.998643875 335.666515 74.38291168
26 08 2018 18:30 47.36034012 3.237612009 28.12034164 85.58135986
26 08 2018 18:40 34.86503983 3.451944113 46.80249009 78.45935822
26 08 2018 18:50 0 2.730361938 0
                                         102.2494965
26 08 2018 19:00 7.555727959 3.23132205 27.68309687 91.25061035
```

```
3.467330933 48.42644589 78.52761078
26 08 2018 19:10 0
26 08 2018 19:20 10.98326969 3.379076958 39.62640984 81.86797333
26 08 2018 19:30 0.036399961 2.462867022 0
                                               89.05822754
26 08 2018 19:40 0
                       1.427832007 0
                                       90.88401794
26 08 2018 19:50
                 0
                       1.129397988 0
                                         118.8914032
26 08 2018 20:00
                       1.024737
                                         152.7516022
26 08 2018 20:10
                 0
                       0.910358071 0
                                         142.0171051
26 08 2018 20:20
                 0
                       1.127904058 0
                                         166.531601
26 08 2018 20:30
                 0
                       1.254732013 0
                                         97.0369873
26 08 2018 20:40
                 0
                       1.225986958 0
                                         83.60385895
26 08 2018 20:50
                 0
                       0.93917048 0
                                         128.8141022
26 08 2018 21:00
                       0.761343122 0
                                         84.17848969
26 08 2018 21:10
                       0.352438509 0
                                         68.1863327
26 08 2018 21:20
                       1.480666995 0
                                         349.1283875
26 08 2018 21:30 0
                       1.792166948 0
                                         0.547637522
26 08 2018 21:40 0
                       1.548918962 0
                                         32.74900818
26 08 2018 21:50 0
                       1.822759986 0
                                         25.24354935
26 08 2018 22:00 0
                       2.140064001 0
                                         44.14514923
                       1.973453045 0
26 08 2018 22:10 0
                                         30.46386909
26 08 2018 22:20 0
                       1.83770597 0
                                         8.031740189
26 08 2018 22:30 0
                                         9.745306015
                       1.741330028 0
26 08 2018 22:40
                        2.093641043 0
                 0
                                         31.92893982
26 08 2018 22:50
                 0
                        3.237797022 28.13329859 41.01596069
26 08 2018 23:00
                 0
                       3.566391945 59.78852905 58.378479
26 08 2018 23:10
                 30.77651024 3.580557108 61.5415519 63.01268005
26 08 2018 23:20
                 0.223133907 3.172672033 23.91075555 58.37157822
26 08 2018 23:30
                 3.793463945 3.230551004 27.62993339 58.84019089
26 08 2018 23:40 0
                                         77.82465363
                        2.656873941 0
26 08 2018 23:50 0
                        1.977257967 0
                                         62.66886902
27 08 2018 00:00 0
                       2.040644884 0
                                         53.54080963
27 08 2018 00:10 0
                       2.580950022 0
                                         47.53717041
27 08 2018 00:20 0
                       3.235893011 28.00021737 43.30857849
27 08 2018 00:30 0
                       3,285279989 31,63973344 46,68669128
                       3.1596241
27 08 2018 00:40 0
                                   23.14635945 58.70061874
27 08 2018 00:50 0
                       3.077974081 18.98156718 59.1828804
27 08 2018 01:00 0
                       3.151894093 22.70635619 56.59235001
27 08 2018 01:10 0
                       3.287945986 31.8473028 57.73661041
                       3.327914953 35.09553583 54.67573929
27 08 2018 01:20 0
27 08 2018 01:30 23.78146935 3.667923927 73.06335549 54.17922974
27 08 2018 01:40 0
                       3,128118038 21,41291576 68,60661316
27 08 2018 01:50 0
                       3.227823019 27.44260285 73.97683716
27 08 2018 02:00 30.15654945 3.731826067 82.26398553 57.06766891
27 08 2018 02:10 162.4452972 4.623717785 248.6558621 60.091259
                 254.1531982 5.012231827 339.0102491 58.84312057
27 08 2018 02:20
27 08 2018 02:30 222.7796936 4.821493149 293.3269392 59.8916893
27 08 2018 02:40 326.9403076 5.36042881 429.7313703 61.06848145
27 08 2018 02:50
                 382.3421936 5.573174
                                         490.2981037 61.13877106
27 08 2018 03:00 395.9710083 5.567952156 488.7616311 58.09877014
27 08 2018 03:10 425.2774048 5.766416073 549.0051328 61.98537064
27 08 2018 03:20 524.1734009 6.144571781 673.8546177 60.25437164
27 08 2018 03:30
                 510.4093018 6.20265913 694.5174579 61.07640839
27 08 2018 03:40 569.2971191 6.342957973 745.9191452 69.85746002
27 08 2018 03:50 638.78302
                             6.606402874 848.2442727 75.33457184
27 08 2018 04:00 664.1414795 6.65738678 868.9436174 74.33585358
27 08 2018 04:10 589.2053223 6.498867035 805.5477986 68.40576935
27 08 2018 04:20 654.3726196 6.524122238 815.4589407 67.26698303
27 08 2018 04:30 723.4733276 6.725804806 897.1905792 67.96655273
27 08 2018 04:40 790.0355225 6.888599873 966.6187858 64.63292694
27 08 2018 04:50 908.8206177 7.324501991 1169.027241 63.34072876
```

```
27 08 2018 05:00 858.112915 7.150015831 1084.975266 60.79935837
27 08 2018 05:10 845.479187 7.15464592 1087.151632 63.80995941
27 08 2018 05:20
                 748.1187744 6.907885075 975.0552836 62.02637863
27 08 2018 05:30 527.0465088 6.020415783 630.8992957 60.48503876
27 08 2018 05:40 461.1223145 5.884403229 586.6806946 62.55918884
27 08 2018 05:50 363.5900879 5.367005825 431.5428559 64.13835907
27 08 2018 06:00
                 399.4926147 5.494358063 467.3783596 66.9838562
27 08 2018 06:10 519.3762817 5.937787056 604.2011312 62.33879089
27 08 2018 06:20 433.1863098 5.662725925 517.0519903 61.56809998
27 08 2018 06:30
                 324.0361023 5.206419945 388.3762218 65.05509186
27 08 2018 06:40
                 223.2966003 4.799293041 288.1802378 65.46398926
27 08 2018 06:50
                 157.1584015 4.296232224 180.0694789 64.03382874
27 08 2018 07:00
                 121.4935989 4.241612911 169.2188206 67.70187378
27 08 2018 07:10
                       3.431436062 44.69692002 65.60334015
27 08 2018 07:20
                       3.761224985 86.71627776 65.64248657
                 0
27 08 2018 07:30
                 0
                       2.625705957 0
                                         64.00563049
27 08 2018 07:40 0
                       3.433408022 44.89645778 37.33871841
27 08 2018 07:50 0
                       3.345786095 36.63059689 62.09186935
                                         64.54789734
27 08 2018 08:00 0
                       2.900336981 0
                       3.373682022 39.128885
27 08 2018 08:10 0
                                               66.20245361
                       3.34651804 36.69455742 36.99473953
27 08 2018 08:20 0
27 08 2018 08:30
                       3.194323063 25.23925423 39.44868851
                 0
27 08 2018 08:40
                 0
                       4.1289258
                                   147.3142484 69.43483734
27 08 2018 08:50
                 0
                       3.307440996 33.39970917 40.05828094
27 08 2018 09:00
                 0
                       3.546060085 57.32845207 58.91247177
27 08 2018 09:10
                 74.0947876 3.627228022 67.54449598 54.90415955
27 08 2018 09:20 7.649337769 3.19512105 25.28965152 33.01887131
27 08 2018 09:30 164.6560059 4.264228821 173.6926717 37.81322861
27 08 2018 09:40 158.2619934 4.151549816 151.6614944 40.05443954
27 08 2018 09:50 248.8233032 4.64839077 254.0870416 44.37358093
27 08 2018 10:00 242.5153046 4.68920517 263.1581375 41.81583023
27 08 2018 10:10 275.0444946 4.943888187 322.3334951 26.3689003
27 08 2018 10:20
                 192.2062988 4.380622864 197.1500542 30.75720978
27 08 2018 10:30
                 320.0751953 5.096553802 360.0787323 31.70771027
                 386.9075928 5.340829849 424.3557113 31.33065987
27 08 2018 10:40
27 08 2018 10:50
                 599.9909058 6.150265217 675.8639279 22.96434021
27 08 2018 11:00
                 661.6369019 6.40879488 770.7742301 21.80171967
                 459.9580994 5.636828899 509.236073 30.01338959
27 08 2018 11:10
27 08 2018 11:20 630.1168213 6.319565773 737.2013856 33.10689163
27 08 2018 11:30 639.5477905 6.284431934 724.2189505 25.7376194
27 08 2018 11:40 643.5106201 6.306907177 732.5084973 24.02736092
27 08 2018 11:50 506.0458069 5.893929005 589.7851017 24.37542915
27 08 2018 12:00 524.973877 5.963931084 612.8914419 25.6246891
27 08 2018 12:10 552.3339844 6.046103001 639.6513835 28.53017044
27 08 2018 12:20 944.9879761 7.030211926 1029.647263 25.2161293
27 08 2018 12:30
                 789.6013794 6.728228092 898.2010173 25.36856079
27 08 2018 12:40 645.1939087 6.407363892 770.228971 22.3398304
                 655.8977051 6.480282784 798.29983
27 08 2018 12:50
                                                     29.29430962
27 08 2018 13:00 638.6873779 6.47412014 795.9048034 25.77536964
27 08 2018 13:10
                 540.2086182 6.12411499 666.6636646 23.72160912
27 08 2018 13:20
                 561.8458252 6.103680134 659.5250759 23.86515045
27 08 2018 13:30 848.7935791 7.031016827 1030.012746 25.8488102
27 08 2018 13:40
                 869.1998291 6.964755058 1000.201388 26.37877083
27 08 2018 13:50
                 1162.557007 7.656710148 1339.967924 29.60873032
27 08 2018 14:00 990.1246948 7.128637791 1074.963762 27.44841003
27 08 2018 14:10 1389.866943 8.147681236 1615.667627 33.46102905
27 08 2018 14:20 1396.661011 8.085463524 1579.311412 36.9729805
27 08 2018 14:30 1410.954956 8.21930027 1657.969576 40.85306931
27 08 2018 14:40 1130.581055 7.517323017 1266.901168 35.32028961
```

```
27 08 2018 14:50 960.6016846 7.072948933 1049.168555 34.91046906
                 1230.727051 7.803096771 1419.335587 38.57946014
27 08 2018 15:00
                 1410.384033 8.119698524 1599.270036 37.03514862
27 08 2018 15:10
27 08 2018 15:20
                 1526.082031 8.381326675 1755.337252 40.00080872
                 1392.880005 8.119327545 1599.053149 38.62273026
27 08 2018 15:30
27 08 2018 15:40
                 1534.828003 8.367900848 1747.18604 39.82197952
27 08 2018 15:50
                 861.9094238 6.928864002 984.284742 55.16376877
27 08 2018 16:00
                 521.3012085 6.028879166 633.7751279 54.00788879
27 08 2018 16:10
                 537.2664795 6.167002201 681.7907707 51.94543076
                 627.2719727 6.296075821 728.5067614 50.3568306
27 08 2018 16:20
27 08 2018 16:30 495.4689026 5.973432064 616.0676436 46.8572197
27 08 2018 16:40 811.6810303 6.786512852 922.7117377 41.93183899
27 08 2018 16:50
                 766.7272949 6.832307816 942.2526562 41.33098984
27 08 2018 17:00 932.0806274 7.28202486 1148.173963 41.19284058
27 08 2018 17:10 847.4151001 7.036198139 1032.367428 46.0111618
27 08 2018 17:20 788.5549927 6.843852043 947.2183121 43.40707016
27 08 2018 17:30 953.8068237 7.311754227 1162.741942 40.51567078
27 08 2018 17:40
                 1019.575012 7.43217802 1223.061882 43.66640854
27 08 2018 17:50
                 1014.817017 7.32476902 1169.15915 46.79827881
                 829.7149048 6.872653961 959.6774868 46.93613815
27 08 2018 18:00
                 993.6049805 7.345098972 1179.232043 52.78810883
27 08 2018 18:10
                 953.0844727 7.114402771 1068.331149 56.60274887
27 08 2018 18:20
27 08 2018 18:30
                 1106.801025 7.529491901 1273.178189 65.53231049
27 08 2018 18:40
                 1002.809021 7.32505703 1169.301434 69.86598969
27 08 2018 18:50
                 600.390686 6.169999123 682.8551938 78.47115326
27 08 2018 19:00
                 380.5244141 5.026401997 342.5122812 82.77294922
27 08 2018 19:10 434.5870972 5.102275848 361.5285881 88.21849823
27 08 2018 19:20 587.0991821 5.81349802 563.8685631 81.4553833
27 08 2018 19:30 256.8479004 4.501377106 222.2912436 86.34934998
                 191.5142975 3.976326942 123.499606 95.91536713
27 08 2018 19:40
27 08 2018 19:50
                 228.6694031 4.323458195 185.5374427 83.40895081
27 08 2018 20:00 588.7822876 6.491481781 802.6629232 78.83236694
27 08 2018 20:10
                 176.5570984 4.098556995 141.5174857 99.10479736
27 08 2018 20:20 274.9336853 4.668118
                                         258.4578627 95.39433289
27 08 2018 20:30 249.9073944 4.713150978 268.5312274 79.68660736
27 08 2018 20:40
                 393.8405151 5.704246044 529.7193613 71.02281952
27 08 2018 20:50
                 510.4436035 6.254422188 713.2353351 66.08444214
27 08 2018 21:00
                 440.2464905 5.92903614 601.3085293 64.52275848
27 08 2018 21:10 328.3857117 5.402563095 441.4022391 65.09525299
27 08 2018 21:20
                 203.6846008 4.755730152 278.1802933 62.52642822
                 120.9682007 4.211890221 163.3792943 64.76289368
27 08 2018 21:30
27 08 2018 21:40 32.84135818 3.408489943 42.42080081 82.97551727
27 08 2018 21:50
                       1.957018971 0
                                         52.84412003
                 0
27 08 2018 22:00
                 0
                       2.896739006 0
                                         16.0367794
27 08 2018 22:10
                 37.46836853 3.707505941 78.68536269 48.67039108
27 08 2018 22:20
                 186.258606 4.71327877 268.5600045 47.24790955
                 253.0473022 5.082203865 356.4541127 46.65843964
27 08 2018 22:30
27 08 2018 22:40
                 283.3251953 5.336654186 423.2147207 44.59788895
27 08 2018 22:50
                 227.6506042 4.885420799 308.3421608 48.59537125
27 08 2018 23:00
                 149.4945068 4.510377884 224.1995843 52.31906891
27 08 2018 23:10
                 66.29103851 3.873424053 104.9791358 50.59516907
27 08 2018 23:20
                 173.572403 4.534221172 229.2785124 60.97285843
27 08 2018 23:30
                 184.6661987 4.581230164 239.3941916 62.33760071
27 08 2018 23:40
                 54.99504089 3.835995913 98.66300247 69.83085632
27 08 2018 23:50
                 73.56767273 3.942457914 117.2168069 65.43110657
28 08 2018 00:00 49.59782028 3.59484005 63.34165637 55.60533905
28 08 2018 00:10
                 179.0323029 4.50650692 223.3782667 51.95922089
28 08 2018 00:20 395.5663147 5.573873997 490.5042658 56.9183197
28 08 2018 00:30 562.9281006 6.396142006 765.960781 72.25720978
```

```
28 08 2018 00:40 321.0463867 5.409068108 443.2180783 64.8707428
28 08 2018 00:50 409.5617065 5.739070892 540.4749699 56.77397919
28 08 2018 01:00 446.5490112 5.921518803 598.8301506 59.23426056
28 08 2018 01:10 702.3328247 6.674448013 875.9368672 60.15444946
28 08 2018 01:20 959.3153076 7.459752083 1237.176754 59.65995026
28 08 2018 01:30
                 1200.91394 7.878299236 1461.092925 67.54482269
28 08 2018 01:40
                 1447.828979 8.45825386 1802.313908 67.02964783
                 1288.480957 8.106230736 1591.40485 69.82261658
28 08 2018 01:50
28 08 2018 02:00
                 950.2058716 7.257029057 1136.022244 71.11979675
                 965.0299072 7.315378189 1164.526371 71.30664825
28 08 2018 02:10
28 08 2018 02:20
                 828.1547852 6.987946033 1010.571762 66.79859924
28 08 2018 02:30
                 1171.114014 7.811112881 1423.755735 58.58161926
28 08 2018 02:40
                 1018.179016 7.488038063 1251.776389 62.38796997
28 08 2018 02:50 880.6306152 7.135939121 1078.37617 55.26794052
28 08 2018 03:00 920.3352051 7.306089878 1159.956596 57.44702911
28 08 2018 03:10 851.8394775 7.135407925 1078.127666 64.47817993
28 08 2018 03:20
                 1087.619995 7.688484192 1356.97267 61.77621078
28 08 2018 03:30
                 1268.727051 7.917946815 1483.364104 67.03677368
28 08 2018 03:40 1766.708008 8.859306335 2053.716693 64.82984924
28 08 2018 03:50
                 2096.448975 9.75488472 2630.032145 65.49501801
28 08 2018 04:00
                 2654.303955 11.02853966 3282.425645 61.1765213
28 08 2018 04:10
                 2748.593018 11.14620972 3321.657849 60.72296906
                 2953.600098 11.85694027 3497.930447 59.14794922
28 08 2018 04:20
28 08 2018 04:30
                 2803.89502 11.12172985 3313.748866 52.64192963
28 08 2018 04:40 2526.179932 10.66679955 3141.660916 55.24217987
28 08 2018 04:50 2503.131104 10.83802986 3212.206717 59.43315125
28 08 2018 05:00 2487.028076 10.77923965 3188.799623 63.34355164
28 08 2018 05:10 2773.631104 11.48171997 3417.269764 58.25593948
28 08 2018 05:20 2665.386963 11.06284046 3294.18066 55.58324051
28 08 2018 05:30 2409.383057 10.55797005 3092.981306 58.3416481
28 08 2018 05:40 2498.665039 10.85286999 3217.9833
                                                     60.10078049
28 08 2018 05:50 2517.708008 10.75055981 3177.074629 60.77630997
28 08 2018 06:00 1942.626953 9.344695091 2368.142254 58.75400925
28 08 2018 06:10 1356.276978 7.89673996 1471.42999 60.40193176
                 1986.168945 9.422226906 2418.947293 61.62134933
28 08 2018 06:20
28 08 2018 06:30
                 1756.527954 8.816878319 2026.675558 62.61680984
                 1673.505981 8.75548172 1987.711099 65.03450012
28 08 2018 06:40
28 08 2018 06:50
                 1768.676025 8.941329002 2106.238953 63.21696091
28 08 2018 07:00 1417.092041 8.048469543 1557.874228 61.82680893
28 08 2018 07:10
                 1373.129028 8.047959328 1557.579528 64.91945648
                 1404.967041 8.034912109 1550.052403 66.78784943
28 08 2018 07:20
28 08 2018 07:30 1296.022949 7.788468838 1411.288961 64.22675323
28 08 2018 07:40
                 1170.77002 7.55849123 1288.216623 56.49367142
28 08 2018 07:50
                 1325.380005 7.864954948 1453.636383 56.07934952
28 08 2018 08:00 574.4619141 5.869764805 581.9285365 43.06851959
28 08 2018 08:10 822.2128296 6.622220039 854.6343054 39.72763824
                 1799.244995 8.808097839 2021.090861 55.83712006
28 08 2018 08:20
                 2388.353027 10.20343971 2912.244493 57.58974075
28 08 2018 08:30
28 08 2018 08:40
                 1679.897949 8.569645882 1871.112505 48.56164932
28 08 2018 08:50
                 1322.819946 7.666019917 1344.937219 36.01280975
28 08 2018 09:00
                 1213.751953 7.55907917 1288.522672 31.88430977
28 08 2018 09:10
                 1610.39502 8.334733009 1727.111369 28.36578941
28 08 2018 09:20
                 1391.30896 7.972205162 1514.120105 32.28964996
28 08 2018 09:30
                 1197.593994 7.398357868 1205.905816 34.11896133
28 08 2018 09:40
                 1421.088989 7.936425209 1493.802861 31.84114075
28 08 2018 09:50 1498.786987 7.915623188 1482.05408 32.4167099
28 08 2018 10:00 2033.553955 9.146977425 2239.139838 26.57049942
28 08 2018 10:10 2400.736084 9.852380753 2696.847298 32.03469086
28 08 2018 10:20 2212.444092 9.563884735 2489.718253 32.53234863
```

```
28 08 2018 10:30 2147.208984 9.355665207 2375.324889 29.87800026
                 1817.081055 8.741319656 1978.752587 32.39575958
28 08 2018 10:40
28 08 2018 10:50
                 1893.300049 9.046421051 2173.958812 28.51291084
28 08 2018 11:00 1695.729004 8.677745819 1938.679975 29.50148964
28 08 2018 11:10 2162.945068 9.490750313 2463.915222 28.07777977
28 08 2018 11:20 2030.932007 9.398841858 2403.61396 31.83403969
28 08 2018 11:30 1725.274048 8.591480255 1884.698999 33.64315033
28 08 2018 11:40 1798.10498 8.732130051 1972.945566 38.00246048
28 08 2018 11:50 1953.292969 8.973489761 2126.915017 37.11552048
28 08 2018 12:00 2591.523926 10.43029976 3031.900203 33.26522064
28 08 2018 12:10 2262.552002 9.836765289 2686.358266 34.72021103
28 08 2018 12:20 2810.262939 10.85039997 3217.025498 35.56922913
28 08 2018 12:30 3248.881104 11.84762001 3496.240857 34.71311951
28 08 2018 12:40 3270.409912 12.35883045 3567.041088 36.93542862
28 08 2018 12:50 3553.879883 13.06672001 3600 35.14442825
28 08 2018 13:00 3493.363037 12.82781029 3595.580541 37.83195877
28 08 2018 13:10 3601.092041 14.11765957 3600 36.4553299
28 08 2018 13:20 3512.371094 13.72992992 3600 37.53730011
28 08 2018 13:30 3579.957031 14.03627014 3600 38.67485046
28 08 2018 13:40 3441.176025 13.10052013 3600 38.72092056
28 08 2018 13:50 3578.291992 13.72842026 3600 38.2056694
28 08 2018 14:00 3566.429932 13.67609024 3600
                                              36.63581085
28 08 2018 14:10
                 3554.99707 13.56696033 3600 38.73141098
28 08 2018 14:20 3410.329102 12.58528996 3584.954373 34.87413025
28 08 2018 14:30 3467.751953 13.27155018 3600 37.33906937
28 08 2018 14:40 3395.314941 12.99779987 3597.934533 40.26847076
28 08 2018 14:50 3444.98999 12.81247997 3595.164139 37.59909058
28 08 2018 15:00 3432.106934 12.74394035 3592.884582 41.3449707
28 08 2018 15:10 3233.326904 11.73068047 3473.713759 42.38985062
28 08 2018 15:20 3509.041016 12.43237019 3573.725252 41.69364929
28 08 2018 15:30 3531.986084 13.52223015 3600 39.62327957
28 08 2018 15:40 3471.961914 13.06000996 3600 42.51696014
28 08 2018 15:50 3442.13501 12.85618019 3596.261489 42.13726044
28 08 2018 16:00 3513.570068 13.11340046 3600 43.57962036
28 08 2018 16:10 3369.371094 12.3821497 3569.252155 41.33856964
28 08 2018 16:20 3384.422119 12.6542902 3588.862746 43.91125107
28 08 2018 16:30 3262.25
                             12.06346989 3531.476536 44.59859085
28 08 2018 16:40 3030.753906 11.34292984 3380.544213 45.51095963
28 08 2018 16:50 3265.995117 12.21899033 3551.970983 51.80932999
28 08 2018 17:00 3339.400879 12.51877022 3580.508204 54.40930939
28 08 2018 17:10 3218.149902 12.38193989 3569.232641 55.67295837
28 08 2018 17:20 2970.083008 11.18056011 3332.535335 51.57646942
28 08 2018 17:30 3118.961914 12.27387047 3558.258232 57.76457977
28 08 2018 17:40 3413.696045 12.26086998 3556.812727 59.1586113
28 08 2018 17:50 3356.928955 12.06385994 3531.532972 57.41210938
28 08 2018 18:00 3149.063965 11.81165028 3489.574742 54.85704041
28 08 2018 18:10 2624.155029 10.91135025 3240.236304 53.85039902
28 08 2018 18:20 1744.277954 9.036271095 2167.399294 57.29727173
28 08 2018 18:30 1245.515991 7.850762844 1445.728112 54.97713089
28 08 2018 18:40
                 1101.02002 7.682538986 1353.781353 57.44498062
28 08 2018 18:50
                 1303.485962 8.176792145 1632.804882 57.74341965
28 08 2018 19:00
                 1332.286011 8.063209534 1566.399355 51.55921173
28 08 2018 19:10
                 1146.022949 7.628479004 1324.965891 50.15307999
28 08 2018 19:20
                 1151.821045 7.719505787 1373.695454 57.55978012
28 08 2018 19:30
                 1349.54895 8.223854065 1660.675137 55.94475174
28 08 2018 19:40 1918.859009 9.190469742 2267.43138 49.93743896
28 08 2018 19:50 2023.364014 9.363142014 2380.221489 49.8708992
28 08 2018 20:00 1788.36499 9.274171829 2322.022669 58.53881836
28 08 2018 20:10 1778.484009 9.008199692 2149.278267 60.46669006
```

```
28 08 2018 20:20 2141.643066 10.03363037 2812.83577 63.88463974
                 2624.925049 11.52229023 3427.279672 66.14217377
28 08 2018 20:30
28 08 2018 20:40
                             10.89875984 3235.513759 68.1267395
                 2546.1521
28 08 2018 20:50
                 2292.012939 10.40392017 3018.729551 70.56458282
28 08 2018 21:00
                 2590.458984 11.21529007 3343.273751 65.05285645
28 08 2018 21:10
                 2230.922119 10.64113045 3130.45382 54.42803955
28 08 2018 21:20
                 1181.823975 7.914974213 1481.688303 51.52019119
                 959.6403198 7.14276886 1081.574609 58.75072861
28 08 2018 21:30
28 08 2018 21:40
                 1106.546021 7.515238762 1265.828057 63.02851105
                 972.7836914 7.090040207 1057.041895 60.18241882
28 08 2018 21:50
28 08 2018 22:00
                 450.5663147 5.781505108 553.7442074 61.03551102
28 08 2018 22:10
                 668.3529053 6.475317001 796.3696186 68.93612671
28 08 2018 22:20
                 634.4182739 6.43247509 779.8298139 72.65579987
28 08 2018 22:30 473.4594116 6.060966969 644.7480094 63.35470963
28 08 2018 22:40 441.3128967 5.979953766 618.2534618 54.76842117
28 08 2018 22:50 510.0632935 6.287971973 725.5210075 42.01052856
28 08 2018 23:00 408.2374878 5.707341194 530.6704358 39.2284317
28 08 2018 23:10
                 586.6566772 6.308767796 733.1971938 35.01855087
28 08 2018 23:20
                 735.8244019 6.615598202 851.9556668 39.46205139
28 08 2018 23:30
                 642.9287109 6.45861578 789.8977979 37.85525131
                 571.5966187 6.156328201 678.0074696 37.55210114
28 08 2018 23:40
28 08 2018 23:50 467.4245911 5.870760918 582.2512038 38.21989059
29 08 2018 00:00
                 192.3408966 4.528022766 227.9548484 34.34024811
29 08 2018 00:10
                 184.9338074 4.680193901 261.1459727 21.65517044
29 08 2018 00:20 444.2195129 5.980958939 618.5907621 9.372423172
29 08 2018 00:30 607.2808838 6.482515812 799.1687024 10.67306995
29 08 2018 00:40 551.9824219 6.252520084 712.5424284 26.36037064
29 08 2018 00:50 737.1102905 6.697476864 885.4294057 32.42308044
29 08 2018 01:00 923.2141113 7.200623989 1108.920735 37.44284058
29 08 2018 01:10 817.3892212 6.873898983 960.2183317 47.04423904
29 08 2018 01:20 654.5355835 6.336870193 743.644657 52.97998047
29 08 2018 01:30
                 1219.897949 7.872724056 1457.975187 48.71804047
29 08 2018 01:40
                 1617.590942 8.375331879 1751.695853 43.40906906
29 08 2018 01:50
                 1433.390991 8.24007225 1670.325964 50.70246887
                 1693.145996 8.635960579 1912.473837 47.10366058
29 08 2018 02:00
29 08 2018 02:10
                 1642.13501 8.693069458 1948.317161 44.44202042
29 08 2018 02:20
                 1969.979004 9.342294693 2366.570889 48.45858002
29 08 2018 02:30
                 1930.338989 9.32925415 2358.036044 50.3420105
29 08 2018 02:40 1863.975952 9.102861404 2210.501732 45.70238113
29 08 2018 02:50 2089.428955 9.573670387 2497.219049 44.97618866
29 08 2018 03:00 1563.015015 8.410899162 1773.34196 41.02325821
29 08 2018 03:10 1882.942993 9.176713943 2258.477361 44.30984116
29 08 2018 03:20 1846.020996 8.968140602 2123.47301 42.44979095
29 08 2018 03:30 2317.224121 10.07427979 2837.42897 41.82176971
29 08 2018 03:40 2175.271973 9.740878105 2620.171175 43.32196045
29 08 2018 03:50
                 1673.55603 8.557442665 1863.533008 40.94403839
                 1443.881958 8.205940247 1650.042729 41.07875824
29 08 2018 04:00
                 1604.901001 8.54983902 1858.815473 38.56129837
29 08 2018 04:10
                 1457.531006 8.31406498 1714.64794 39.18603897
29 08 2018 04:20
29 08 2018 04:30
                 1912.988037 9.283338547 2328.011524 43.92934036
29 08 2018 04:40
                 1868.887939 9.095173836 2205.517813 42.04605103
29 08 2018 04:50
                 1847.470947 8.860069275 2054.203768 39.76306915
29 08 2018 05:00
                 2458.129883 10.20106983 2910.91653 40.32432938
29 08 2018 05:10
                 2596.427002 10.76642036 3183.583803 47.7220192
29 08 2018 05:20
                 2462.811035 10.35289955 2992.710177 45.71805954
29 08 2018 05:30 2673.219971 10.74588966 3175.146168 47.85626984
29 08 2018 05:40 2369.861084 9.919719696 2741.167185 35.72541046
29 08 2018 05:50 2428.444092 10.25273991 2939.497289 33.73796082
29 08 2018 06:00 2058.14209 9.510091782 2447.868404 36.12360001
```

```
29 08 2018 06:10 2465.397949 10.38556957 3009.454451 37.23709869
                 2461.10791 10.29852009 2964.174143 34.36275864
29 08 2018 06:20
29 08 2018 06:30
                 2214.811035 9.705133438 2594.703114 34.6033287
29 08 2018 06:40
                 2374.954102 10.14964008 2881.688767 38.47642899
29 08 2018 06:50
                 1919.342041 9.115933418 2218.980953 35.05511856
29 08 2018 07:00
                 1698.381958 8.59980011 1889.884383 31.92626953
                 1366.150024 8.047963142 1557.581731 34.38985062
29 08 2018 07:10
                 1257.814941 7.779008865 1406.098538 31.98053932
29 08 2018 07:20
29 08 2018 07:30
                 1246.27002 7.744243145 1387.114799 34.84706116
                 1091.839966 7.23814106 1126.897866 34.84140015
29 08 2018 07:40
29 08 2018 07:50
                 594.6282959 6.097033978 657.2129637 36.7362709
29 08 2018 08:00
                 716.5393066 6.525252819 815.904286 26.56952095
29 08 2018 08:10
                 754.0612793 6.692903996 883.5395812 33.54415894
29 08 2018 08:20
                 921.4838257 7.118564129 1070.267297 26.06484985
29 08 2018 08:30
                 1063.753052 7.442294121 1228.226845 21.24091911
29 08 2018 08:40
                 965.0698242 7.131998062 1076.533363 24.10412979
29 08 2018 08:50
                 563.8151855 6.073596954 649.0971887 19.81237984
29 08 2018 09:00
                 809.1859131 6.610883236 850.0514256 20.2800808
                 825.4061279 6.969876766 1002.485852 42.17613983
29 08 2018 09:10
                 944.0186157 7.202242851 1109.692453 36.07052994
29 08 2018 09:20
29 08 2018 09:30
                 1064.590942 7.284784794 1149.521102 45.90451813
                 1134.194946 7.342395782 1177.889247 46.33306885
29 08 2018 09:40
29 08 2018 09:50
                  1367.807983 8.064557076 1567.179816 43.02175903
29 08 2018 10:00
                 1314.286011 7.815474033 1426.163646 30.88170052
29 08 2018 10:10
                 924.2965088 6.934648037 986.8389484 29.59734917
29 08 2018 10:20
                 1151.982056 7.59617281 1307.923411 31.48212051
29 08 2018 10:30
                 1055.119019 7.266043186 1140.394343 31.51549911
29 08 2018 10:40
                 1654.906006 8.566666603 1869.261124 29.82864952
                 1548.505981 8.337041855 1728.505872 34.59645081
29 08 2018 10:50
29 08 2018 11:00
                 1409.276978 7.923985004 1486.771095 32.45544815
                 1591.980957 8.378815651 1753.81164 27.90081024
29 08 2018 11:10
29 08 2018 11:20
                 1228.91394 7.603098869 1311.565775 20.10062981
29 08 2018 11:30
                 1396.873047 8.165523529 1626.161774 24.34921074
29 08 2018 11:40
                 1172.714966 7.753883839 1392.364614 22.46721077
                 909.270874 6.990258217 1011.609427 21.2343998
29 08 2018 11:50
                 829.239624 6.823031902 938.2743165 18.39258957
29 08 2018 12:00
                 678.2528076 6.526875973 816.5439091 18.77671051
29 08 2018 12:10
29 08 2018 12:20
                 593.6425171 6.259850025 715.2147514 16.97220039
29 08 2018 12:30
                 642.3026123 6.383400917 761.1314361 13.16516972
29 08 2018 12:40
                 435.2889099 5.829603195 569.0045996 13.85212994
29 08 2018 12:50
                 363.6496887 5.502552032 469.7343373 10.98359013
29 08 2018 13:00 542.7750244 6.14336586 673.4294724 16.69104958
29 08 2018 13:10
                 377.7626953 5.540894032 480.8410896 16.42213058
29 08 2018 13:20
                 528.6218872 5.947737217 607.5000064 13.42833996
29 08 2018 13:30
                 712.2470093 6.523944855 815.3890809 15.78028011
29 08 2018 13:40
                 839.4260254 6.905468941 973.9958186 13.12718964
29 08 2018 13:50
                 915.4395752 7.135090828 1077.97934 11.18043041
29 08 2018 14:00
                 1357.779053 8.178198814 1633.634974 14.32318974
29 08 2018 14:10
                 1603.838013 8.619044304 1901.895748 13.09875011
29 08 2018 14:20
                 1449.391968 8.362614632 1743.980594 14.9323101
29 08 2018 14:30
                 1526.057983 8.418439865 1777.943928 16.82666016
29 08 2018 14:40
                 1469.230957 8.159629822 1622.692016 19.77898979
29 08 2018 14:50
                 1365.91394 7.936916828 1494.081091 20.30209923
29 08 2018 15:00
                 1534.449951 8.399134636 1766.171095 23.54352951
29 08 2018 15:10
                 1350.152954 7.875861168 1459.729086 23.13722038
29 08 2018 15:20
                 1518.437012 8.247424126 1674.708482 20.14458084
29 08 2018 15:30
                 1115.04895 7.413600922 1213.617062 24.14937019
29 08 2018 15:40
                 1532.453003 8.301864624 1707.307553 20.2296505
29 08 2018 15:50 1518.359985 8.2973423 1704.589877 19.14904976
```

```
1257.784058 7.854291916 1447.692488 21.31467056
29 08 2018 16:00
                  1321.772949 7.971745014 1513.857949 20.99964905
29 08 2018 16:10
                  1209.196045 7.682783127 1353.912319 21.3668499
29 08 2018 16:20
29 08 2018 16:30
                 1559.25
                              8.481811523 1816.789453 22.62804031
29 08 2018 16:40
                  1435.699951 8.289624214 1699.955735 23.84425926
29 08 2018 16:50
                  1561.198975 8.573327065 1873.400892 25.76140976
29 08 2018 17:00
                  1651.214966 8.745729446 1981.540885 28.72491074
                  1543.362061 8.497844696 1826.664676 33.9059906
29 08 2018 17:10
                 1712.592041 8.75785923 1989.216142 37.4521904 1779.915039 8.98489666 2134.258953 40.9740715
29 08 2018 17:20
29 08 2018 17:30
29 08 2018 17:40
                  1715.369995 8.713532448 1961.208336 44.09202957
29 08 2018 17:50
                 2371.064941 10.31486034 2972.836801 42.192379
29 08 2018 18:00
                  2221.636963 9.784863472 2650.915029 49.26063919
29 08 2018 18:10
                 2422.835938 10.14601994 2879.601775 46.73178864
29 08 2018 18:20
                  2867.073975 10.92434978 3245.073231 47.60911179
29 08 2018 18:30
                 2779.88501 10.99485016 3270.620724 47.67163086
29 08 2018 18:40
                 2566.146973 10.38269997 3007.995608 48.7195015
29 08 2018 18:50
                 2370.708008 9.963571548 2769.243007 51.45009995
29 08 2018 19:00 2445.837891 10.32476997 2978.053382 52.36595917
                  1982.088989 9.311478615 2346.407428 52.46831894
29 08 2018 19:10
29 08 2018 19:20
                  2569.968994 11.05515957 3291.571401 55.67737961
                  2954.058105 11.74005985 3475.612308 55.08320999
29 08 2018 19:30
29 08 2018 19:40
                  2888.881104 11.68023014 3463.223097 56.73965836
29 08 2018 19:50
                  2825.218994 11.49308014 3420.105258 53.73443985
29 08 2018 20:00
                  2566.322998 11.23676014 3349.783048 55.56980896
29 08 2018 20:10 2343.839111 10.47957039 3055.991206 51.85602188
29 08 2018 20:20 2274.196045 10.07579994 2838.338821 48.15737915
                 2120.819092 9.989848137 2785.773684 54.2213707
29 08 2018 20:30
29 08 2018 20:40 2164.134033 9.900062561 2728.381671 48.73088837
29 08 2018 20:50
                 2016.078979 9.600184441 2517.370287 46.57017899
29 08 2018 21:00
                 1636.009033 8.726354599 1969.298455 49.74655914
29 08 2018 21:10
                 1749.589966 8.937033653 2103.480864 45.3882103
29 08 2018 21:20
                  1685.286011 8.924445152 2095.402354 39.58687973
29 08 2018 21:30
                 1450.86499 8.275658607 1691.583377 44.96897888
                 1277.139038 7.833679199 1436.238938 38.90974045
29 08 2018 21:40
29 08 2018 21:50
                  1302.770996 8.030617714 1547.578688 37.62902069
29 08 2018 22:00
                  1540.442017 8.41350174 1774.929773 33.19543839
29 08 2018 22:10
                  1467.917969 8.3241539 1720.727413 32.84949875
29 08 2018 22:20
                 1279.428955 7.974151134 1515.229013 34.08552933
                 1179.904053 7.744293213 1387.142035 34.39265823
29 08 2018 22:30
29 08 2018 22:40
                 1247.218994 7.926015854 1487.917876 35.46926117
                 1252.057007 7.924060822 1486.8139
29 08 2018 22:50
                                                      33.69451141
29 08 2018 23:00
                  1306.980957 8.002012253 1531.149248 35.80303955
29 08 2018 23:10
                 1463.067993 8.40827179 1771.739554 38.67887878
29 08 2018 23:20
                  1162.279053 7.820169926 1428.758838 39.07210922
29 08 2018 23:30
                 995.0578003 7.320669174 1167.135015 38.74290085
29 08 2018 23:40
                 837.7380981 6.967625141 1001.481141 38.69858932
                  805.1470947 6.97005415 1002.56503 35.79236984
29 08 2018 23:50
30 08 2018 00:00
                 1056.004028 7.476112843 1245.606305 34.44295883
30 08 2018 00:10
                  1099.656982 7.479876041 1247.551015 34.77729034
30 08 2018 00:20
                  1181.465942 7.62306118 1322.098462 35.97473907
30 08 2018 00:30
                  1211.671021 7.711184978 1369.198366 35.48191071
30 08 2018 00:40
                  1346.001953 8.119192123 1598.973981 39.53496933
30 08 2018 00:50
                 1335.850952 7.94890213 1500.872179 36.03364944
30 08 2018 01:00
                 1384.300049 8.154648781 1619.762105 41.36812973
30 08 2018 01:10
                 1190.624023 7.745567799 1387.835474 41.62924957
30 08 2018 01:20 1325.857056 8.048210144 1557.724396 35.77853012
30 08 2018 01:30 1263.524048 7.937026978 1494.143433 32.41276932
30 08 2018 01:40 1107.813965 7.569344997 1293.873843 32.89704132
```

```
1356.435059 8.158694267 1622.141534 27.96405029
30 08 2018 01:50
                 1292.485962 8.061883926 1565.631776 26.76509094
30 08 2018 02:00
30 08 2018 02:10
                 1628.727051 8.717080116 1963.445778 25.37071991
30 08 2018 02:20
                 2040.166992 9.714158058 2601.174414 33.09138107
                 2100.180908 9.644821167 2550.732149 32.18727875
30 08 2018 02:30
30 08 2018 02:40
                 2236.00708 10.28487015 2956.879369 34.42613983
30 08 2018 02:50
                 1904.269043 9.127502441 2226.489901 31.37681961
                 1757.359985 8.88239193 2068.467471 30.66953087
30 08 2018 03:00
30 08 2018 03:10
                 1518.640991 8.366342545 1746.240884 31.69964027
                 1455.944946 8.260018349 1682.22707 30.43998909
30 08 2018 03:20
30 08 2018 03:30
                 1254.035034 7.810247898 1423.278417 31.09888077
30 08 2018 03:40
                 1205.456055 7.880899906 1462.548453 26.27412987
30 08 2018 03:50
                 1125.030029 7.574443817 1296.536815 29.3071804
30 08 2018 04:00
                 1047.954956 7.436782837 1225.411043 31.47839928
30 08 2018 04:10 917.4581299 7.137954235 1079.319221 29.54768944
30 08 2018 04:20
                 940.8195801 7.246519089 1130.938973 26.59626961
30 08 2018 04:30
                 774.8175049 6.734673977 900.8920994 28.76461983
30 08 2018 04:40 684.7070923 6.584730148 839.5346823 26.35832024
30 08 2018 04:50 550.5073853 6.20223999 694.3670673 24.11182976
                 544.4699707 6.154059887 677.2050567 19.28816032
30 08 2018 05:00
                 588.5214233 6.487602234 801.149892 16.33971977
30 08 2018 05:10
                 624.6160889 6.480133057 798.2415909 19.21339989
30 08 2018 05:20
30 08 2018 05:30
                 576.378418 6.366215229 754.6454472 16.30788994
30 08 2018 05:40
                 639.5178833 6.499889851 805.9478144 13.43766022
30 08 2018 05:50
                 504.0766907 6.002479076 624.8297762 14.80856991
30 08 2018 06:00
                 372.4863892 5.505515099 470.5878164 16.39697075
30 08 2018 06:10
                 371.030304 5.522589207 475.521622 20.5434494
                 310.4126892 5.309784889 415.9088357 17.8865509
30 08 2018 06:20
30 08 2018 06:30
                 293.8106079 5.210440159 389.4303339 19.98022079
                 185.1278992 4.555120945 233.758985 27.75358009
30 08 2018 06:40
30 08 2018 06:50
                 81.5832901 3.879030943 105.9446221 26.10660934
                 100.6576996 3.973329067 122.936088 26.05291939
30 08 2018 07:00
30 08 2018 07:10
                 104.8554993 4.076796055 137.3905799 25.2744503
30 08 2018 07:20
                 197.3390045 4.546412945 231.8889106 27.98418999
                 162.8795929 4.401268005 201.3887847 18.5363903
30 08 2018 07:30
                 173.386795 4.460371971 213.6585658 18.66584969
30 08 2018 07:40
30 08 2018 07:50
                 110.4667969 4.029176235 128.4358949 15.13465977
                 8.263075829 3.039191008 17.37698705 21.69141006
30 08 2018 08:00
30 08 2018 08:10
                 41.270401
                             3.238054991 28.15137399 30.01540947
30 08 2018 08:20
                 137.789093 4.154713154 152.2713195 28.71344948
30 08 2018 08:30 43.49610138 3.362299919 38.09449592 24.67054939
30 08 2018 08:40 64.24733734 3.674518108 73.98255375 15.87798977
30 08 2018 08:50
                 125.2505035 4.034712791 129.4717177 13.74022961
30 08 2018 09:00
                 167.385498 4.472365856 216.1732829 21.39146042
30 08 2018 09:10
                 299.5291138 5.214344025 390.4552187 12.23190975
30 08 2018 09:20
                 257.7221069 4.962362766 326.8069273 14.00543022
30 08 2018 09:30
                 365.2427063 5.280258179 407.9518967 9.746146202
                 345.3240967 5.344027042 425.2303615 14.35820007
30 08 2018 09:40
30 08 2018 09:50
                 327.9276123 5.329853058 421.3595654 15.4358902
30 08 2018 10:00
                 311.2809143 5.087470055 357.7824024 16.33758926
30 08 2018 10:10
                 253.6672058 4.945588112 322.7440536 11.82989025
30 08 2018 10:20
                 375.8424072 5.484817982 464.6431065 12.5085001
30 08 2018 10:30
                 283.9649048 5.050014019 348.3821065 14.67486
30 08 2018 10:40
                 474.4241943 5.741793156 541.3208128 8.984845161
30 08 2018 10:50
                 525.9486084 6.019526005 630.5973967 17.15969086
30 08 2018 11:00
                 546.762085 6.01457119 628.9177913 14.69999981
30 08 2018 11:10 633.4025879 6.248752117 711.1709651 12.15104008
30 08 2018 11:20 573.8167725 6.133728981 670.0375945 10.08049965
30 08 2018 11:30 562.7778931 5.874754906 583.5459977 10.11497021
```

```
30 08 2018 11:40 546.5252075 6.036457062 636.3565722 16.86343956
30 08 2018 11:50
                 669.083313 6.552463055 826.6656994 12.2634697
                 386.5183105 5.292562008 411.2585162 7.892614841
30 08 2018 12:00
30 08 2018 12:10
                 467.1534119 5.651361942 513.6142603 8.747881889
30 08 2018 12:20
                 391.3841858 5.38775301 437.2820992 2.13163209
30 08 2018 12:30
                 563.3505249 5.892888069 589.4454041 0.575926423
30 08 2018 12:40
                 678.3161011 6.265769005 717.3768894 357.8262939
30 08 2018 12:50
                 574.6967163 6.132534981 669.6180353 7.542034149
30 08 2018 13:00
                 471.3779907 5.623134136 505.1290546 2.653748035
                 762.1068726 6.349864006 748.5042114 8.164404869
30 08 2018 13:10
                 833.7091064 6.750904083 907.6895328 2.827955961
30 08 2018 13:20
30 08 2018 13:30
                 476.9226074 5.716102123 533.367611 16.8322506
30 08 2018 13:40
                 705.0430908 6.600395203 845.8246521 23.55843925
30 08 2018 13:50
                 505.3460999 5.878114223 584.636325 17.40908051
30 08 2018 14:00 561.5958252 6.085122108 653.0807868 18.36623001
30 08 2018 14:10 441.5671082 5.7210989 534.9093375 11.39033031
30 08 2018 14:20
                 668.6422729 6.348907948 748.1460309 20.11561966
30 08 2018 14:30
                 779.1339722 6.71112299 891.0833429 15.37623978
30 08 2018 14:40
                 664.7894287 6.456718922 789.1647
                                                     16.51291084
30 08 2018 14:50
                 606.5037231 6.341569901 745.4001862 21.92855072
                 676.8278809 6.547721863 824.7846395 21.86982918
30 08 2018 15:00
                 614.895874 6.3546772
                                         750.3089473 25.48875046
30 08 2018 15:10
30 08 2018 15:20
                 467.8770142 5.712410927 532.2303
                                                     27.30441093
30 08 2018 15:30
                 721.5789795 6.506028175 808.3509095 28.91259956
30 08 2018 15:40
                 729.7575073 6.626315117 856.2933261 28.09052086
30 08 2018 15:50
                 621.9337769 6.232576847 705.3008288 30.6120491
30 08 2018 16:00 827.7026978 6.870738983 958.8459774 33.55723953
30 08 2018 16:10 938.7595825 7.233749866 1124.783686 37.25704956
30 08 2018 16:20 880.2946167 7.093551159 1058.664001 38.46417999
                 831.921814 6.863657951 955.7751723 43.8041687
30 08 2018 16:30
30 08 2018 16:40
                 791.0706177 6.863342762 955.638627 45.40032959
30 08 2018 16:50 889.2836304 7.115653038 1068.912618 47.99766922
30 08 2018 17:00
                 964.2852783 7.375669956 1194.492082 49.32416916
30 08 2018 17:10
                 880.916626 7.127011776 1074.204781 49.04124069
                 836.7180176 6.958133221 997.2526919 48.4360199
30 08 2018 17:20
30 08 2018 17:30
                 889.7285156 7.171452999 1095.076022 52.38510895
                 1528.411011 8.474762917 1812.453981 52.79307175
30 08 2018 17:40
                 1619.162964 8.719881058 1965.212792 49.89115906
30 08 2018 17:50
30 08 2018 18:00
                 1231.94397 8.013505936 1537.740471 58.24119949
30 08 2018 18:10
                 1098.390991 7.460618973 1237.622376 58.81261826
30 08 2018 18:20
                 1054.744019 7.404317856 1208.916774 60.7521286
30 08 2018 18:30 939.5391846 7.173901081 1096.233453 64.39306641
30 08 2018 18:40
                 951.5064697 7.210969925 1113.858869 68.70995331
30 08 2018 18:50
                 951.6320801 7.165530205 1092.27913 69.67175293
30 08 2018 19:00
                 1128.80896 7.66663599 1345.266446 68.20443726
30 08 2018 19:10
                 1187.10498 7.877810001 1460.819197 70.49977112
30 08 2018 19:20
                 1739.300049 9.101193428 2209.420199 63.0128212
                 1987.437988 9.929624557 2747.562447 57.14978027
30 08 2018 19:30
30 08 2018 19:40
                 2257.414063 10.42922974 3031.369683 54.55850983
30 08 2018 19:50
                 2640.827881 11.28864002 3365.108982 59.70592117
30 08 2018 20:00
                 2994.38501 11.56307983 3437.019892 59.7120018
30 08 2018 20:10
                 2789.659912 10.90653992 3238.436397 56.14570999
30 08 2018 20:20
                 2845.781982 11.17290974 3330.134917 56.41952896
30 08 2018 20:30
                 2863.425049 11.30249023 3369.104932 58.64638901
30 08 2018 20:40
                 2662.309082 11.31013012 3371.292021 63.3815918
30 08 2018 20:50
                 2438.478027 11.00446987 3274.017887 65.11917114
30 08 2018 21:00 2473.858887 11.10583019 3308.541403 66.45176697
30 08 2018 21:10 2661.499023 11.0583601 3292.660255 67.49965668
30 08 2018 21:20 2702.670898 10.93729019 3249.848886 64.41782379
```

```
30 08 2018 21:30 2861.993896 11.42035961 3401.511503 62.72879028
30 08 2018 21:40
                 2882.535889 11.56398964 3437.233473 62.23664093
30 08 2018 21:50
                 2981.88208 11.6420002 3454.957699 62.24517059
30 08 2018 22:00 3307.631104 12.03621006 3527.46876 63.17142105
30 08 2018 22:10 3548.790039 12.52857971 3581.206049 65.11789703
30 08 2018 22:20 3603.461914 12.70505047 3591.285539 64.65289307
                 3604.563965 12.80128956 3594.838671 62.7369194
30 08 2018 22:30
                 3604.75708 12.80035019 3594.810523 64.33824158
30 08 2018 22:40
30 08 2018 22:50
                 3604.591064 13.09654045 3600 63.18109131
                 3604.259033 13.85758972 3600
30 08 2018 23:00
                                              64.37851715
30 08 2018 23:10
                 3604.596924 13.76315975 3600 62.03934097
30 08 2018 23:20
                 3604.562988 13.66446972 3600 59.29275131
30 08 2018 23:30
                 3557.256104 13.8635397 3600 64.70056915
30 08 2018 23:40 3240.604004 12.47292995 3577.052329 66.66944122
30 08 2018 23:50 2842.750977 11.33506012 3378.344577 66.55078888
31 08 2018 00:00 2516.387939 10.58761978 3106.54754 65.85413361
31 08 2018 00:10 2771.899902 11.15367031 3324.042156 64.89517212
31 08 2018 00:20 2642.353027 10.79905033 3196.78095 63.73709869
31 08 2018 00:30 2456.905029 10.4048996 3019.221973 63.17982101
31 08 2018 00:40 2599.490967 10.80331039 3198.484746 64.62238312
31 08 2018 00:50
                 2866.720947 11.27116013 3360.008536 66.00723267
                 2410.572021 10.52933979 3079.662411 69.03649139
31 08 2018 01:00
31 08 2018 01:10
                 2264.931885 10.41213036 3022.849184 71.52178192
31 08 2018 01:20
                 2694.707031 11.56389999 3437.212436 70.93621826
31 08 2018 01:30 2772.009033 11.41889
                                         3401.124856 66.92421722
31 08 2018 01:40 2598.193115 11.17737007 3331.535952 69.30249786
31 08 2018 01:50 1869.115967 9.285106659 2329.16689 66.58560181
31 08 2018 02:00 1435.23999 8.56467247 1868.022266 60.83694077
31 08 2018 02:10 1360.802979 8.397639275 1765.260399 58.42486954
31 08 2018 02:20
                 1298.079956 7.904911995 1476.022928 62.91339111
31 08 2018 02:30 1534.582031 8.497190475 1826.261361 62.02621078
31 08 2018 02:40 1804.770996 9.297971725 2337.575547 58.37427902
31 08 2018 02:50 1793.656006 9.20179081 2274.804522 60.87194061
31 08 2018 03:00 2068.903076 9.752133369 2628.100384 61.63685989
31 08 2018 03:10 2184.876953 10.14188957 2877.215855 58.64939117
                 2297.198975 10.34259987 2987.369419 54.62490082
31 08 2018 03:20
31 08 2018 03:30
                 2230.131104 10.15375042 2884.0536
                                                     55.87223816
                 2351.061035 10.3330698 2982.401159 54.94688034
31 08 2018 03:40
31 08 2018 03:50 2348.031982 10.29673004 2963.220542 55.12321091
31 08 2018 04:00 2644.889893 11.08211994 3300.671877 58.81666946
31 08 2018 04:10 2790.193115 11.33561993 3378.501469 56.94802856
31 08 2018 04:20 2894.783936 11.65886974 3458.638729 58.58763885
31 08 2018 04:30 3083.236084 11.81567001 3490.331213 58.60803986
31 08 2018 04:40 3285.974121 12.10678959 3537.588183 60.46408081
31 08 2018 04:50 3384.865967 12.41676998 3572.3778
                                                     59.82376099
31 08 2018 05:00 3112.042969 12.1584301 3544.465208 59.97605896
31 08 2018 05:10 2904.02002 11.55023003 3433.986263 59.78409958
                 2767.839111 11.33059978 3377.092217 60.30023956
31 08 2018 05:20
31 08 2018 05:30 2764.518066 11.19929028 3338.358865 59.29782104
31 08 2018 05:40
                 2516.579102 10.64688969 3132.982916 62.59381104
31 08 2018 05:50
                 2435.934082 10.48641014 3059.283613 62.84220886
31 08 2018 06:00 2523.301025 10.60900974 3116.192348 65.14807129
31 08 2018 06:10
                 2364.350098 10.05344009 2824.884421 66.11829376
31 08 2018 06:20
                 1893.151978 9.373261452 2386.85025 66.10752869
31 08 2018 06:30
                 1044.187988 8.896413803 2077.439306 65.86652374
31 08 2018 06:40 2220.129883 9.670129776 2569.337323 64.23670959
31 08 2018 06:50 2198.258057 9.737282753 2617.629219 67.03935242
31 08 2018 07:00 2032.323975 9.365818024 2381.974251 65.1238327
31 08 2018 07:10 1510.822021 8.190329552 1640.801049 65.82480621
```

```
31 08 2018 07:20 1204.67395 7.620228767 1320.60088 64.74894714
                 1454.564941 8.149232864 1616.579045 65.1831131
31 08 2018 07:30
31 08 2018 07:40
                 1470.207031 8.146570206 1615.015153 66.5297699
31 08 2018 07:50
                 1765.036987 8.702876091 1954.492013 69.91132355
31 08 2018 08:00 2070.915039 9.51691246 2453.232897 72.13388824
31 08 2018 08:10 1919.338013 9.120622635 2222.023999 69.27887726
                 1469.745972 8.165600777 1626.207273 69.53868866
31 08 2018 08:20
                 1523.410034 8.113580704 1595.695055 65.16383362
31 08 2018 08:30
31 08 2018 08:40
                 1822.689941 8.855176926 2051.080895 63.36283112
31 08 2018 08:50
                 1212.062012 7.747208118 1388.728179 60.42470932
31 08 2018 09:00
                 1599.064941 8.351364136 1737.166067 58.30712128
31 08 2018 09:10
                 1896.901001 9.081295967 2196.525762 57.70209885
31 08 2018 09:20
                 1902.444946 9.071746826 2190.342357 62.59804916
31 08 2018 09:30
                 1665.150024 8.597457886 1888.424121 62.4499588
31 08 2018 09:40
                 2002.727051 9.383963585 2393.862501 58.44849014
31 08 2018 09:50
                 1863.775024 9.005595207 2147.598541 59.83776093
31 08 2018 10:00
                 1875.406006 9.241375923 2300.612051 60.55701828
31 08 2018 10:10
                 1368.301025 7.682943821 1353.998525 47.57970047
31 08 2018 10:20 1343.062988 7.614513874 1317.582378 31.80244064
                 1341.331055 7.97574091 1516.135239 30.60280037
31 08 2018 10:30
                 1685.171997 8.688493729 1945.437963 31.23111916
31 08 2018 10:40
                 1443.744019 7.992858887 1525.909924 27.38765907
31 08 2018 10:50
                 1648.665039 8.277092934 1692.44248 27.47681046
31 08 2018 11:00
31 08 2018 11:10
                 1624.364014 8.413480759 1774.91697 27.89670944
31 08 2018 11:20
                 1516.916016 8.116526604 1597.416056 31.53768921
31 08 2018 11:30
                 1682.166992 8.510398865 1834.410053 32.17971039
31 08 2018 11:40
                 1387.357056 7.925899029 1487.851895 28.9371109
31 08 2018 11:50
                 1332.917969 7.730998993 1379.920984 27.22159004
31 08 2018 12:00 1514.739014 8.231370926 1665.14522 28.40851974
                 1539.410034 8.23486805 1667.226588 28.58480072
31 08 2018 12:10
31 08 2018 12:20
                 1812.371948 8.795989037 2013.395853 29.46269989
31 08 2018 12:30
                 2027.629028 9.229111671 2292.612069 30.4715004
31 08 2018 12:40
                 1991.281982 9.162416458 2249.176501 33.02019882
31 08 2018 12:50
                 1951.130981 9.171504021 2255.087491 33.81557083
                 1996.964966 9.036302567 2167.419627 30.88540077
31 08 2018 13:00
                 2274.736084 9.749002457 2625.899006 32.15370941
31 08 2018 13:10
                 2262.878906 9.74118042 2620.384714 33.0140686
31 08 2018 13:20
                 2012.963989 9.274611473 2322.309857 37.42958069
31 08 2018 13:30
31 08 2018 13:40
                 2149.919922 9.618952751 2531.483541 36.03913879
31 08 2018 13:50 2665.667969 10.77365971 3186.53425 36.20188141
31 08 2018 14:00 2487.61499 10.08185959 2841.958639 35.4677887
31 08 2018 14:10 2504.846924 10.29127979 2960.311432 35.05105972
31 08 2018 14:20 2372.945068 9.794026375 2657.237538 37.10609055
31 08 2018 14:30
                 2525.830078 10.34368038 2987.931103 38.9713707
                 1880.572998 8.859874725 2054.079561 39.73067856
31 08 2018 14:40
                 2100.156006 9.401247978 2405.191277 39.52349091
31 08 2018 14:50
                 1813.046997 8.658302307 1926.47228 45.13840103
31 08 2018 15:00
                 2063.552002 9.287996292 2331.055257 44.00337982
31 08 2018 15:10
31 08 2018 15:20
                 2029.162964 9.002906799 2145.864971 43.74779129
31 08 2018 15:30
                 1994.834961 9.1998806 2273.560202 49.7262001
31 08 2018 15:40
                 2676.1521
                             10.62324047 3122.543477 51.63362122
31 08 2018 15:50
                 3122.968018 11.77982998 3483.483665 51.96667862
31 08 2018 16:00
                 2648.467041 10.64216042 3130.90674 54.59500885
31 08 2018 16:10
                 2776.967041 10.86800957 3223.822142 52.62028885
31 08 2018 16:20
                 2605.468018 10.67068958 3143.344678 54.96416092
31 08 2018 16:30 2698.875977 11.05179024 3290.422632 57.03351974
31 08 2018 16:40 3053.591064 11.76078987 3479.751226 58.81938171
31 08 2018 16:50 3231.365967 12.19392967 3548.93769 60.61362839
31 08 2018 17:00 3518.798096 13.34537983 3600 62.67578888
```

```
31 08 2018 17:10 3590.920898 12.90867043 3597.215872 61.35240173
31 08 2018 17:20
                 3535.396973 12.86911011 3596.533332 62.78596115
31 08 2018 17:30
                 3590.106934 13.54331017 3600 66.12330627
31 08 2018 17:40
                 3569.510986 13.54362965 3600 68.42558289
31 08 2018 17:50
                 3601.321045 14.29170036 3600 69.40693665
31 08 2018 18:00
                 3571.762939 13.9343996 3600
                                              70.38366699
31 08 2018 18:10
                 3597.456055 13.85811043 3600 70.70448303
                 3581.174072 13.50273991 3600
31 08 2018 18:20
                                               69.22000885
31 08 2018 18:30
                 3594.813965 13.68904972 3600
                                               70.29631042
                 3581.313965 13.56161976 3600
                                               71.15833282
31 08 2018 18:40
31 08 2018 18:50
                 3595.218018 14.29825974 3600
                                               70.75012207
31 08 2018 19:00
                 3576.332031 13.24059963 3600
                                               68.74594116
31 08 2018 19:10
                 3596.396973 14.09047031 3600
                                               68.30362701
31 08 2018 19:20
                 3603.689941 13.98991013 3600
                                               67.66155243
31 08 2018 19:30
                 3594.820068 13.71638012 3600
                                               67.41117096
31 08 2018 19:40
                 3520.343994 13.00174046 3600
                                               67.200737
31 08 2018 19:50
                 3583.160889 13.87656975 3600
                                               66.15693665
31 08 2018 20:00
                 3604.112061 14.73243999 3600 69.09438324
                 3603.358887 14.77587032 3600 68.78341675
31 08 2018 20:10
31 08 2018 20:20
                 3604.079102 14.89361
                                         3600
                                               66.66861725
31 08 2018 20:30
                 3604.243896 14.96189022 3600
                                               65.80039215
31 08 2018 20:40
                 3604.416016 14.86468983 3600
                                               66.26011658
31 08 2018 20:50
                 3604.268066 15.21420956 3600
                                               70.75003052
                                               72.20823669
31 08 2018 21:00
                 3604.271973 15.0573597 3600
31 08 2018 21:10
                 3601.310059 14.58339977 3600 72.60597992
31 08 2018 21:20
                 3595.275879 14.61622047 3600 73.04463196
31 08 2018 21:30
                 3561.862061 13.8337698 3600 73.52435303
31 08 2018 21:40
                 3590.521973 14.10647964 3600 72.31231689
31 08 2018 21:50
                 3578.615967 13.93873978 3600
                                               71.24124908
31 08 2018 22:00
                            13.5272398 3600 71.82584381
                 3560.8479
                 3568.991943 14.20436954 3600 73.74226379
31 08 2018 22:10
31 08 2018 22:20
                 3563.01001 14.17574024 3600 73.07167816
31 08 2018 22:30
                 3502.616943 13.28876972 3600
                                              73.48465729
31 08 2018 22:40
                 3518.708008 13.57835007 3600
                                              74.28501129
                 3556.446045 13.68540001 3600 72.68546295
31 08 2018 22:50
31 08 2018 23:00
                 3407.812988 12.76210976 3593.555626 72.92059326
31 08 2018 23:10
                 3375.918945 12.7025404 3591.174686 71.05037689
                 3397.344971 12.99680996 3597.93275 71.66680145
31 08 2018 23:20
31 08 2018 23:30
                 3367.871094 12.64902973 3588.589812 72.32460022
31 08 2018 23:40
                 3371.726074 12.69507027 3590.839284 72.6222229
31 08 2018 23:50 3467.968994 13.02155972 3600 73.0878067
01 09 2018 00:00 3404.010986 12.64519024 3588.388004 72.33270264
01 09 2018 00:10 3174.741943 12.10418987 3537.230267 71.85140991
01 09 2018 00:20 3309.168945 12.43177986 3573.674951 71.11962891
01 09 2018 00:30 3330.246094 12.31614971 3562.772229 70.81207275
01 09 2018 00:40 3025.022949 11.57812023 3440.530242 70.90078735
                 2988.789063 11.41874981 3401.08795 70.6053772
01 09 2018 00:50
                 3102.228027 11.75261974 3478.129377 70.61102295
01 09 2018 01:00
01 09 2018 01:10 3269.898926 12.3178997 3562.952932 71.52919769
01 09 2018 01:20
                 3125.398926 11.91444969 3508.015775 72.02192688
01 09 2018 01:30
                 2999.683105 11.70958042 3469.383539 73.99487305
01 09 2018 01:40
                 3367.2229
                             12.80764008 3595.025603 75.59571838
01 09 2018 01:50
                 3185.056885 12.30572987 3561.68621 74.74736023
01 09 2018 02:00
                 3222.724121 12.41300011 3572.046508 74.15677643
01 09 2018 02:10
                 3048.98291 11.90155029 3505.804304 73.16824341
01 09 2018 02:20
                 2920.457031 11.80072021 3487.503115 74.72051239
01 09 2018 02:30
                 3023.001953 11.87718964 3501.548128 73.66944122
01 09 2018 02:40 2857.745117 11.21352005 3342.732727 68.39571381
01 09 2018 02:50 2906.366943 11.36940002 3387.849451 68.73544312
```

```
01 09 2018 03:00 2624.446045 10.72439003 3166.198489 71.75637817
                 3219.878906 12.21599007 3551.613222 71.11107635
01 09 2018 03:10
01 09 2018 03:20
                 3185.552979 12.11297035 3538.434597 72.8915863
01 09 2018 03:30 3542.893066 13.60208035 3600 74.993927
01 09 2018 03:40 3523.051025 13.38195038 3600 75.14375305
01 09 2018 03:50 3486.230957 13.2402401 3600 72.93816376
                 3577.135986 13.28509045 3600 69.90659332
01 09 2018 04:00
                 3437.38501 12.61868
01 09 2018 04:10
                                         3586.934612 69.43692017
                 3417.190918 12.55053997 3582.715283 67.80299377
01 09 2018 04:20
01 09 2018 04:30
                 3590.299072 13.35890961 3600 65.25702667
01 09 2018 04:40
                 3604.571045 14.10993958 3600 65.36244202
01 09 2018 04:50
                 3603.072021 13.82042027 3600 67.49961853
01 09 2018 05:00
                 3312.197998 12.70436954 3591.255559 65.26959991
01 09 2018 05:10
                 2953.049072 11.92156029 3509.222355 64.4030838
01 09 2018 05:20 3120.565918 12.19886017 3549.542553 66.71320343
01 09 2018 05:30 2865.458008 11.25131989 3354.141506 68.75540924
01 09 2018 05:40 2864.741943 11.11946011 3313.008889 69.48670197
01 09 2018 05:50 2751.571045 11.00683975 3274.851556 65.45542145
01 09 2018 06:00 3405.243896 12.80492973 3594.946538 65.9495697
01 09 2018 06:10 3152.413086 12.0780201 3533.564417 67.43157196
01 09 2018 06:20 3332.194092 12.62720966 3587.413689 69.01296997
01 09 2018 06:30 3356.399902 12.8822298 3596.784582 72.33075714
                 3226.49292 12.49234962 3578.555642 72.36981201
01 09 2018 06:40
01 09 2018 06:50
                 3343.283936 12.79294014 3594.583986 73.92986298
01 09 2018 07:00 3352.186035 12.96430969 3597.797044 74.15136719
01 09 2018 07:10 3426.938965 12.94960022 3597.686306 73.62561035
01 09 2018 07:20 3136.024902 12.34214973 3565.406985 74.44557953
01 09 2018 07:30 3076.680908 11.81025028 3489.310595 73.43829346
01 09 2018 07:40 2318.508057 9.712258339 2599.814502 72.77433014
01 09 2018 07:50 2096.278076 9.539376259 2470.781089 71.9941864
01 09 2018 08:00 1797.802979 8.732143402 1972.953999 72.0593338
01 09 2018 08:10 1814.56897 8.837961197 2040.101218 73.16887665
01 09 2018 08:20
                 1364.228027 7.894465923 1470.153223 70.44345856
01 09 2018 08:30
                 1072.472046 7.28148222 1147.909224 70.16494751
01 09 2018 08:40 883.7844849 6.859621048 954.0272296 65.62664032
                 1152.052979 7.43143177 1222.681481 66.96497345
01 09 2018 08:50
                 1327.077026 7.959774017 1507.045718 64.306633
01 09 2018 09:00
                 1237.256958 7.64047718 1331.329363 69.58846283
01 09 2018 09:10
01 09 2018 09:20 1119.751953 7.300501823 1157.213254 67.64763641
01 09 2018 09:30
                 1398.418945 8.142086983 1612.383484 63.78754044
01 09 2018 09:40 1389.896973 7.973101139 1514.630625 61.8832016
01 09 2018 09:50 1754.177002 8.700358391 1952.906172 59.77627945
01 09 2018 10:00
                 1261.662964 7.791810036 1413.124699 60.34225845
01 09 2018 10:10
                 1307.473999 7.759054184 1395.184701 57.32384109
01 09 2018 10:20
                 1483.552002 8.114031792 1595.958527 53.96903992
01 09 2018 10:30
                 1576.753052 8.364822388 1745.319055 60.76942062
01 09 2018 10:40
                 1057.095947 7.330204964 1171.846657 57.09751892
                 980.0739746 7.18888998 1103.337789 62.39968109
01 09 2018 10:50
01 09 2018 11:00 1147.421997 7.365824223 1189.562507 54.22700882
01 09 2018 11:10
                 946.0305176 6.873106003 959.8738345 52.4720192
01 09 2018 11:20
                 1079.303955 7.145802021 1082.99707 38.48667908
01 09 2018 11:30
                 1038.557983 6.998470783 1015.300551 35.16720963
01 09 2018 11:40
                 1113.072998 7.171278
                                         1094.993315 33.47557831
01 09 2018 11:50
                 1077.536011 6.999502182 1015.764716 28.61193085
01 09 2018 12:00
                 1134.562012 7.31683588 1165.244664 35.21257019
01 09 2018 12:10 1077.387939 7.175433159 1096.958218 32.96648026
01 09 2018 12:20 1399.727051 7.985963821 1521.969013 29.12896919
01 09 2018 12:30 1503.677979 8.146453857 1614.946832 27.4943409
01 09 2018 12:40 1755.050049 8.715575218 1962.49658 29.21713066
```

```
01 09 2018 12:50 1745.478027 8.588596344 1882.902656 33.06462097
                 1772.849976 8.765991211 1994.366324 32.49848175
01 09 2018 13:00
                 1986.072998 9.332839966 2360.382593 34.71231842
01 09 2018 13:10
01 09 2018 13:20
                 1945.81897 9.145158768 2237.958034 38.32444
01 09 2018 13:30
                 1738.863037 8.702645302 1954.346629 38.2147789
01 09 2018 13:40
                 1644.733032 8.449327469 1796.839664 36.17292023
01 09 2018 13:50
                 1677.212036 8.476151466 1813.307764 38.127491
                 1793.244019 8.766346931 1994.591693 40.49645996
01 09 2018 14:00
01 09 2018 14:10
                 1427.814941 7.96567297 1510.400682 38.91321182
                 1374.521973 7.848759174 1444.613445 39.66804123
01 09 2018 14:20
01 09 2018 14:30
                 1228.401978 7.547358036 1282.429947 42.2804985
01 09 2018 14:40
                 1439.609009 8.073335648 1572.268564 49.87538147
01 09 2018 14:50
                 1504.687988 8.329018593 1723.661856 51.69879913
01 09 2018 15:00
                 1851.462036 8.887218475 2071.554669 52.89469147
01 09 2018 15:10 2229.803955 9.894640923 2724.833336 56.56713867
01 09 2018 15:20 2324.700928 10.10025024 2852.875972 59.17160034
01 09 2018 15:30 2376.895996 10.34910965 2990.748439 60.06042099
01 09 2018 15:40 2438.226074 10.56842995 3097.793484 62.01301956
01 09 2018 15:50 2436.629883 10.47836018 3055.407343 60.37442017
01 09 2018 16:00 2109.793945 9.611923218 2526.212134 58.13623047
01 09 2018 16:10 2198.922119 9.770139694 2640.696441 60.3814888
01 09 2018 16:20 2433.524902 10.40447998 3019.011036 63.69390106
01 09 2018 16:30 2346.324951 10.38197994 3007.629205 66.0220871
01 09 2018 16:40
                 2148.394043 9.884101868 2717.908503 65.93092346
01 09 2018 16:50 1963.984009 9.396379471 2401.999845 63.98823166
01 09 2018 17:00 2150.589111 9.936427116 2751.936429 66.01009369
01 09 2018 17:10 2177.797119 9.908837318 2734.104402 69.19229889
01 09 2018 17:20 2819.239014 11.63064957 3452.450744 72.00283051
01 09 2018 17:30 3345.903076 12.75893974 3593.442026 73.50301361
01 09 2018 17:40 3548.116943 13.39595985 3600 75.78418732
01 09 2018 17:50 3604.583008 14.14404011 3600 74.63762665
01 09 2018 18:00
                 3604.429932 15.49542046 3600 73.89935303
01 09 2018 18:10
                 3604.334961 15.73062038 3600 71.68166351
01 09 2018 18:20
                 3604.184082 16.38661957 3600 73.99865723
                 3604.214111 16.54134941 3600 73.21927643
01 09 2018 18:30
                 3604.23291 16.59209061 3600
01 09 2018 18:40
                                               73.6317215
01 09 2018 18:50
                 3603.999023 16.47493935 3600
                                               75.96071625
01 09 2018 19:00
                 3604.128906 15.77460003 3600 74.59353638
01 09 2018 19:10
                 3603.814941 15.7192297 3600 76.21601105
01 09 2018 19:20
                 3603.909912 15.27095985 3600 74.94846344
01 09 2018 19:30 3601.195068 14.79137039 3600 75.07309723
01 09 2018 19:40 3603.990967 15.84428024 3600 75.58511353
01 09 2018 19:50
                 3595.187988 15.16246986 3600
                                              76.28645325
01 09 2018 20:00
                 3603.677979 14.76212978 3600 74.82298279
01 09 2018 20:10
                 3555.099121 13.71973991 3600 75.74107361
01 09 2018 20:20
                 3522.954102 13.63288975 3600 76.51405334
01 09 2018 20:30
                 3582.084961 14.28369045 3600 77.66526031
                                              78.32898712
                 3584.906006 14.53442955 3600
01 09 2018 20:40
01 09 2018 20:50
                 3598.924072 14.51360989 3600
                                               77.53106689
01 09 2018 21:00
                 3556.100098 14.43970013 3600
                                               79.83281708
01 09 2018 21:10
                 3460.875977 14.30959988 3600 82.24978638
01 09 2018 21:20
                 3567.480957 14.45971966 3600 79.7947998
01 09 2018 21:30
                 3573.240967 14.50839996 3600 81.04345703
01 09 2018 21:40
                 3536.243896 14.3738203 3600
                                              80.77266693
01 09 2018 21:50
                 3334.707031 13.875
                                         3600 83.37664032
01 09 2018 22:00
                 3170.336914 12.59216976 3585.37608 83.16625977
01 09 2018 22:10 3213.760986 12.58889961 3585.17652 81.76805115
01 09 2018 22:20 3409.736084 13.68074036 3600 81.08312988
01 09 2018 22:30 3361.513916 13.62219048 3600 79.29147339
```

```
01 09 2018 22:40 3260.043945 12.87345028 3596.619188 79.62683105
01 09 2018 22:50 3009.920898 11.98686981 3519.89348 80.05304718
01 09 2018 23:00
                 3420.664063 13.6738596 3600 79.00240326
01 09 2018 23:10 3221.938965 12.74905014 3593.078183 77.87727356
01 09 2018 23:20 3247.62793 12.6115799 3586.527527 78.49146271
01 09 2018 23:30 3319.5979
                             13.01430988 3600 79.92073059
01 09 2018 23:40 3460.555908 13.27818012 3600 78.01703644
01 09 2018 23:50 3565.683105 13.66452026 3600 76.17725372
02 09 2018 00:00 3572.64502 13.51463032 3600 75.94761658
                 3400.813965 12.91559029 3597.312213 75.59285736
02 09 2018 00:10
02 09 2018 00:20 3578.172119 13.35925007 3600 72.39881134
02 09 2018 00:30 3451.686035 12.82435989 3595.48979 72.42601776
02 09 2018 00:40 3220.75293 12.15126991 3543.538024 73.19525146
02 09 2018 00:50 3289.173096 12.54148006 3582.101504 71.59726715
02 09 2018 01:00 3478.2771 13.19781971 3600 72.19905853
02 09 2018 01:10 3199.272949 12.40412045 3571.257431 72.45963287
02 09 2018 01:20 3276.480957 12.66843987 3589.576481 73.46534729
02 09 2018 01:30 3209.634033 12.4015398 3571.025803 72.16030121
02 09 2018 01:40 2976.996094 11.72383022 3472.316931 70.67357635
02 09 2018 01:50 3375.938965 12.56280041 3583.526097 70.16639709
02 09 2018 02:00 3279.383057 12.35011005 3566.19228 68.75875854
02 09 2018 02:10 3239.065918 12.34058952 3565.251896 68.2203598
02 09 2018 02:20 3198.436035 12.20285034 3550.029156 67.17030334
02 09 2018 02:30 3132.926025 12.17335033 3546.370144 66.96214294
02 09 2018 02:40 3167.428955 12.31441975 3562.593117 66.2338028
02 09 2018 02:50 3052.808105 12.17125988 3546.105449 68.08615875
02 09 2018 03:00 3133.954102 12.1967001 3549.278048 68.78909302
02 09 2018 03:10 3074.868896 12.12957954 3540.677632 69.47144318
02 09 2018 03:20 3077.763916 12.14513016 3542.736243 70.36937714
02 09 2018 03:30 2990.678955 12.05245972 3529.872929 68.44152069
02 09 2018 03:40 2999.227051 11.83162975 3493.306044 66.68904114
02 09 2018 03:50 3243.724121 12.22813034 3553.051865 65.77586365
02 09 2018 04:00 3468.344971 12.49627972 3578.852843 64.96351624
02 09 2018 04:10 3378.576904 12.34799957 3565.985052 64.89956665
02 09 2018 04:20 3479.297119 12.41950035 3572.616361 66.73602295
02 09 2018 04:30 3558.019043 12.51799011 3580.452078 65.11934662
02 09 2018 04:40 3557.499023 12.66989994 3589.648438 64.37313843
02 09 2018 04:50 3587.268066 12.75922966 3593.452477 64.3609314
02 09 2018 05:00 3557.965088 12.77048969 3593.848858 64.69248962
02 09 2018 05:10 3377.583008 12.44003963 3574.373855 66.14662933
02 09 2018 05:20 3261.924072 12.27038956 3557.873855 67.82475281
02 09 2018 05:30 3336.531982 12.53835011 3581.886565 66.84510803
02 09 2018 05:40 3515.785889 13.09611988 3600 67.53591156
02 09 2018 05:50 3343.937988 12.66664028 3589.487356 67.68769836
02 09 2018 06:00 3507.084961 13.09193993 3600 67.00469208
02 09 2018 06:10 2801.335938 11.26920033 3359.432688 67.05729675
02 09 2018 06:20 2959.241943 11.84943008 3496.570199 65.80490875
02 09 2018 06:30 3381.948975 13.10673046 3600 64.54537964
02 09 2018 06:40 3576.447998 13.6145401 3600 64.19284058
02 09 2018 06:50
                 3471.749023 13.39033985 3600 64.61057281
02 09 2018 07:00 3018.564941 12.10276985 3537.034289 67.4271698
02 09 2018 07:10 3228.937012 12.43572044 3574.009703 66.19970703
02 09 2018 07:20 2950.653076 11.72187996 3471.917673 67.14385986
02 09 2018 07:30 2257.657959 9.931157112 2748.549159 68.92085266
02 09 2018 07:40 2293.824951 9.977906227 2778.288021 70.083992
02 09 2018 07:50 1788.948975 8.734070778 1974.171534 68.05756378
02 09 2018 08:00 2110.85498 9.480966568 2457.491769 68.31890869
02 09 2018 08:10 1944.465942 9.254627228 2309.260036 67.12251282
02 09 2018 08:20 1889.766968 9.043371201 2171.987409 65.90975952
```

```
02 09 2018 08:30 2089.792969 9.461039543 2444.411607 64.12197113
                 1410.297974 7.863804817 1452.994648 62.0573616
02 09 2018 08:40
02 09 2018 08:50
                 1446.954956 8.048213005 1557.726048 60.70357132
02 09 2018 09:00
                 1776.979004 8.831261635 2035.832455 58.54299164
02 09 2018 09:10
                 1863.292969 9.0772686
                                       2193.91751 57.96768951
02 09 2018 09:20
                 1973.390015 9.156866074 2245.567462 60.90005875
02 09 2018 09:30
                 1968.239014 9.329884529 2358.448545 62.03113937
                 1831.244019 9.056352615 2180.380886 59.72848129
02 09 2018 09:40
02 09 2018 09:50
                 2245.186035 9.835063934 2685.210599 60.75492859
                 2490.826904 10.38724995 3010.307655 58.74980927
02 09 2018 10:00
02 09 2018 10:10
                 1836.310059 9.028613091 2162.452792 59.39712143
02 09 2018 10:20
                 1265.868042 7.471376896 1243.161995 61.39738846
02 09 2018 10:30
                 1003.732971 6.848978996 949.4287851 45.33272934
02 09 2018 10:40
                 1398.380981 7.801782131 1418.611399 30.90302086
02 09 2018 10:50 1541.546021 8.140641212 1611.535218 28.18819046
02 09 2018 11:00 1714.776978 8.356227875 1740.110817 28.95903015
02 09 2018 11:10
                 1854.05896 8.752469063 1985.804438 30.43588066
02 09 2018 11:20
                 1735.125
                             8.591198921 1884.523736 31.34306908
                 1293.639038 7.746469021 1388.325903 33.2335701
02 09 2018 11:30
                 1367.732056 7.795822144 1415.330783 32.83718109
02 09 2018 11:40
                 1567.708984 8.222540855 1659.894724 30.65180969
02 09 2018 11:50
                 1534.213013 8.15390873 1619.326997 32.93090057
02 09 2018 12:00
02 09 2018 12:10
                 1362.343018 7.876185894 1459.910697 32.57009888
02 09 2018 12:20
                 1444.218994 7.976410866 1516.517217 32.07260895
02 09 2018 12:30
                 1564.312012 8.249778748 1676.113102 32.0876503
02 09 2018 12:40 1597.670044 8.30355072 1708.321251 31.18786049
02 09 2018 12:50 1676.36499 8.56061554 1865.502727 29.43491936
02 09 2018 13:00 1515.897949 8.186581612 1638.585555 30.57395935
02 09 2018 13:10 1652.186035 8.419612885 1778.660198 30.10857964
02 09 2018 13:20 2062.194092 9.433328629 2426.229112 34.05170059
02 09 2018 13:30
                 1936.25
                             8.92961216 2098.717363 35.1266098
02 09 2018 13:40 2063.937988 9.344409943 2367.955583 38.60519028
02 09 2018 13:50
                 2323.63501 9.940487862 2754.540395 37.76596069
02 09 2018 14:00 2013.38501 9.32320118 2354.075548 37.78155899
02 09 2018 14:10 1838.521973 8.702346802 1954.158595 35.26519012
                 1869.626953 8.962515831 2119.854953 40.15359116
02 09 2018 14:20
02 09 2018 14:30
                 1938.930054 9.221085548 2287.378677 39.56552124
02 09 2018 14:40
                 1768.338989 8.645648956 1918.540353 39.38134003
02 09 2018 14:50
                 1658.659058 8.495583534 1825.270842 41.70326996
02 09 2018 15:00
                 1443.677979 8.00566864 1533.244574 44.16286087
02 09 2018 15:10 1288.390991 7.649569988 1336.1641
                                                    47.89812088
02 09 2018 15:20 1427.416992 8.180548668 1635.022059 49.9394989
02 09 2018 15:30
                 1426.411987 8.176398277 1632.572489 52.23891068
02 09 2018 15:40
                 1560.359009 8.419685364 1778.704459 54.00205994
02 09 2018 15:50
                 1769.213989 8.918763161 2091.758328 55.61051178
                 1665.281982 8.648692131 1920.447097 58.51832962
02 09 2018 16:00
02 09 2018 16:10
                 1704.036011 8.625213623 1905.75143 58.81143951
                 1774.500977 8.894079208 2075.944885 60.53091049
02 09 2018 16:20
02 09 2018 16:30 1986.418945 9.478649139 2455.970404 62.88695145
02 09 2018 16:40
                 2175.625
                             9.888760567 2720.974013 64.38751221
02 09 2018 16:50
                 1936.621948 9.45170784 2438.287649 66.80101013
02 09 2018 17:00
                 2385.4021
                            10.73534966 3170.773989 68.84985352
02 09 2018 17:10
                 2354.977051 10.46792984 3050.358892 68.23780823
02 09 2018 17:20 2417.717041 10.71382046 3161.75748 69.68077087
02 09 2018 17:30
                 2505.704102 10.52359962 3076.965981 69.94973755
02 09 2018 17:40 2433.194092 10.44727039 3040.272486 71.62645721
02 09 2018 17:50 2533.822021 10.89500046 3234.096407 72.39009094
02 09 2018 18:00 2894.593994 11.88451958 3502.839782 72.59857941
02 09 2018 18:10 3208.398926 12.79333973 3594.596406 73.96089935
```

```
02 09 2018 18:20 3196.104004 12.83728027 3595.82077 74.11683655
                 3333.775879 12.90322018 3597.135167 73.64878082
02 09 2018 18:30
02 09 2018 18:40
                 3456.733887 12.72325039 3592.061541 69.92478943
02 09 2018 18:50 3393.906006 12.86905003 3596.532125 70.70050812
02 09 2018 19:00 3417.76001 12.94369984 3597.633232 70.58483887
02 09 2018 19:10 3536.166992 13.46074009 3600 67.60215759
02 09 2018 19:20
                 3588.674072 13.6561203 3600 68.33255768
                 3518.658936 13.54461002 3600 69.81374359
02 09 2018 19:30
02 09 2018 19:40 3519.514893 13.48735046 3600
                                              73.45713806
                 3437.865967 13.13512993 3600
02 09 2018 19:50
                                              72,43369293
02 09 2018 20:00 3495.407959 13.27099991 3600 71.16783905
02 09 2018 20:10 3360.155029 13.13263035 3600 72.0072937
02 09 2018 20:20 3434.852051 13.34531975 3600 69.76914978
02 09 2018 20:30 3430.378906 13.32682991 3600 70.46173859
02 09 2018 20:40 3405.133057 13.1746397 3600 71.37902832
02 09 2018 20:50 3553.314941 13.68054008 3600 71.41361237
02 09 2018 21:00 3546.323975 13.68980026 3600 68.74233246
02 09 2018 21:10 3519.202881 13.48379993 3600 68.26963806
02 09 2018 21:20 3570.397949 13.58625031 3600 67.18173981
02 09 2018 21:30 3512.825928 13.43811035 3600 70.41400909
02 09 2018 21:40 3514.615967 13.58889961 3600 72.11475372
02 09 2018 21:50 3409.239014 13.26751995 3600 73.25266266
02 09 2018 22:00
                 3260.905029 12.6280098 3587.458072 74.63456726
02 09 2018 22:10
                 3579.698975 13.96138954 3600 71.28147125
02 09 2018 22:20 3543.976074 13.83613014 3600 71.93807983
02 09 2018 22:30 3481.562012 13.62545013 3600 74.41381836
02 09 2018 22:40 3501.320068 13.92039013 3600 76.427742
02 09 2018 22:50 3563.927979 13.22626019 3600 73.18086243
02 09 2018 23:00 3584.946045 13.08845997 3600 73.19026947
02 09 2018 23:10 3452.284912 12.78705025 3594.398227 73.33081818
02 09 2018 23:20 3574.678955 13.19209957 3600 74.72724915
02 09 2018 23:30 3583.551025 13.19054031 3600 74.86089325
02 09 2018 23:40 3601.931885 13.72537994 3600 74.73304749
02 09 2018 23:50 3596.207031 13.48865986 3600 73.72901154
03 09 2018 00:00 3603.249023 13.59401035 3600 73.93044281
03 09 2018 00:10
                 3590.522949 13.55056
                                        3600
                                              72.68347168
03 09 2018 00:20
                 3602.768066 13.72922993 3600
                                              71.62634277
                 3577.334961 13.32443047 3600 73.68382263
03 09 2018 00:30
03 09 2018 00:40 3550.184082 13.2471199 3600 72.35884857
03 09 2018 00:50 3584.905029 13.61791992 3600 71.74462128
03 09 2018 01:00 3564.739014 14.03063965 3600 71.88426208
03 09 2018 01:10 3528.888916 13.82489014 3600 73.64434052
03 09 2018 01:20 3491.958008 13.26951981 3600 73.66507721
03 09 2018 01:30 3553.01709 13.41244984 3600 71.81336975
03 09 2018 01:40 3554.600098 13.3023901 3600 71.09903717
03 09 2018 01:50 3522.112061 13.06326962 3600 70.53637695
03 09 2018 02:00 3544.455078 12.89175987 3596.951587 69.38316345
03 09 2018 02:10 3537.333008 12.89789963 3597.052279 68.43817902
03 09 2018 02:20 3534.552979 12.93356037 3597.530438 68.15384674
03 09 2018 02:30
                 3603.335938 13.38486004 3600 67.11566162
03 09 2018 02:40
                 3598.447998 13.34206009 3600 64.79762268
03 09 2018 02:50
                 3588.493896 13.16337967 3600 65.37055969
03 09 2018 03:00
                 3512.987061 13.07137012 3600 67.47189331
03 09 2018 03:10
                 3555.084961 13.13160038 3600
                                              68.54736328
03 09 2018 03:20
                 3587.76001 13.2325201 3600
                                              67.34999084
03 09 2018 03:30 3567.879883 13.19052029 3600 67.97612
03 09 2018 03:40 3344.779053 12.62055969 3587.041121 70.01940155
03 09 2018 03:50 3072.165039 12.0262804 3525.977608 74.07597351
03 09 2018 04:00 2831.02002 11.32192039 3374.64346 74.19364166
```

```
03 09 2018 04:10 2618.89209 10.92901039 3246.797734 75.28762817
                 2440.806885 10.44604969 3039.672886 75.14940643
03 09 2018 04:20
03 09 2018 04:30
                 2407.23291 10.23503017 2929.789006 71.50367737
03 09 2018 04:40 2512.653076 10.54267025 3085.890699 70.65545654
03 09 2018 04:50
                 2649.687012 10.85064983 3217.122454 68.98108673
03 09 2018 05:00
                 2720.218994 10.90845013 3239.151801 68.00279236
                 2580.583008 10.64426041 3131.829353 67.67408752
03 09 2018 05:10
                 3010.899902 11.49378014 3420.279146 66.74633026
03 09 2018 05:20
                 2950.61792 11.50842953 3423.896132 68.70171356
03 09 2018 05:30
                 2610.368896 10.69863033 3155.326119 69.10504913
03 09 2018 05:40
03 09 2018 05:50
                 2604.593018 10.8599596 3220.724346 67.48577118
03 09 2018 06:00
                 2427.055908 10.42741013 3030.466795 68.4597702
03 09 2018 06:10
                 2600.60498 10.75763988 3179.987957 66.19592285
03 09 2018 06:20
                 2233.969971 9.872612
                                         2710.317775 64.57189941
03 09 2018 06:30
                 2112.866943 9.739802361 2619.411072 65.29102325
03 09 2018 06:40 2319.822998 10.15470028 2884.599372 65.3822937
03 09 2018 06:50 2140.200928 9.768667221 2639.670504 66.89217377
03 09 2018 07:00 1859.26001 9.047572136 2174.702955 63.31618881
03 09 2018 07:10 2265.258057 9.878258705 2714.053618 63.34960938
                 1821.265015 8.868872643 2059.826059 68.29979706
03 09 2018 07:20
03 09 2018 07:30
                 1633.546997 8.448674202 1796.439273 69.7427063
                 1366.844971 7.907925129 1477.71826 67.87866974
03 09 2018 07:40
03 09 2018 07:50
                 1628.917969 8.492040634 1823.087657 69.67320251
03 09 2018 08:00
                 1881.796997 9.222746849 2288.461784 68.94010162
03 09 2018 08:10
                 1582.686035 8.511599541 1835.151409 66.86830902
03 09 2018 08:20 1344.45105 7.986187935 1522.097028 66.47083282
03 09 2018 08:30
                 1308.383057 7.725673199 1377.034162 62.55006027
03 09 2018 08:40
                 1436.631958 8.21163559 1653.41995 60.55152893
                 1490.057007 8.262119293 1683.482659 62.67541885
03 09 2018 08:50
                 1896.787964 9.229656219 2292.967198 62.59238815
03 09 2018 09:00
                 1412.328979 8.016813278 1539.639644 62.47480011
03 09 2018 09:10
03 09 2018 09:20
                 1471.005005 8.303149223 1708.079845 61.93965912
03 09 2018 09:30
                 1626.047974 8.444776535 1794.051039 58.49584961
03 09 2018 09:40
                 1276.333984 7.685279846 1355.25207 57.7284317
                 1622.208984 8.470219612 1809.661412 59.14789963
03 09 2018 09:50
03 09 2018 10:00
                 1223.215942 7.511229992 1263.765728 61.31631088
                 912.5037231 6.761855125 912.2934921 50.30490112
03 09 2018 10:10
03 09 2018 10:20
                 1483.036011 8.418309212 1777.864155 64.44503784
03 09 2018 10:30
                 788.6588745 6.260495186 715.4502384 41.53628159
03 09 2018 10:40
                 1111.720947 7.307015896 1160.411636 28.59893036
03 09 2018 10:50
                 786.0588989 6.440378189 782.8657373 24.54945946
03 09 2018 11:00 957.6995239 6.915548801 978.4205566 27.39002991
03 09 2018 11:10
                 920.6917725 6.737549782 902.0942826 26.90601921
03 09 2018 11:20
                 769.2927246 6.543505192 823.113798 24.91650009
03 09 2018 11:30
                 966.6306152 7.10014677 1061.715639 26.73913956
03 09 2018 11:40
                 759.0076294 6.564713001 831.5375189 24.02248001
                 917.2297974 6.960631847 998.3646818 24.21834946
03 09 2018 11:50
                 921.9611206 7.091157913 1057.558115 22.16337967
03 09 2018 12:00
                 982.213501 7.100263119 1061.769522 22.39962959
03 09 2018 12:10
03 09 2018 12:20
                 1051.170044 7.414038181 1213.838777 24.23069954
03 09 2018 12:30
                 897.4653931 6.982644081 1008.194894 26.58625984
03 09 2018 12:40
                 919.3726196 7.043662071 1035.765533 24.33539009
03 09 2018 12:50
                 652.4309082 6.276049137 721.1410717 30.29840088
03 09 2018 13:00
                 802.0084229 6.705108166 888.5885838 31.29792976
03 09 2018 13:10
                 1186.234009 7.590082169 1304.725534 32.57133102
03 09 2018 13:20
                 1234.404053 7.687554836 1356.473513 37.22455978
03 09 2018 13:30
                 1108.400024 7.280969143 1147.658946 35.78511047
03 09 2018 13:40 1194.520996 7.502833843 1259.453344 41.19794083
03 09 2018 13:50 1208.552002 7.56752491 1292.92409 37.88417053
```

```
03 09 2018 14:00 1175.634033 7.519686222 1268.11861 41.36790848
                  873.4431152 6.763765812 913.0982166 45.01002884
03 09 2018 14:10
                  993.9486084 7.015986919 1023.201783 50.41463089
03 09 2018 14:20
03 09 2018 14:30
                 822.1826172 6.605144978 847.7373098 49.28813934
03 09 2018 14:40
                  928.3300781 6.854270935 951.7137244 45.58806992
03 09 2018 14:50
                  895.1647949 6.947528839 992.5420041 50.31687164
03 09 2018 15:00
                  719.0313721 6.443037033 783.8886574 50.24596024
                  743.0671997 6.467358112 793.2816629 54.65465164
03 09 2018 15:10
03 09 2018 15:20
                  1077.916016 7.524993896 1270.855684 52.50918961
                  1125.095947 7.418423176 1216.063786 52.14268112
03 09 2018 15:30
03 09 2018 15:40
                  1234.630981 7.869548798 1456.201085 52.48226166
03 09 2018 15:50
                  1117.124023 7.484417915 1249.90102 53.58433914
03 09 2018 16:00
                  1087.369995 7.472445011 1243.712969 50.67158127
03 09 2018 16:10
                  1170.744019 7.786114216 1409.99606 51.88787079
03 09 2018 16:20
                  1150.67395 7.508793831 1262.513497 51.64268112
03 09 2018 16:30
                  1411.21106 8.154314995 1619.565851 52.55944061
03 09 2018 16:40
                  1440.342041 8.168848991 1628.120981 53.4167099
03 09 2018 16:50
                  1288.241943 7.856606007 1448.98134 54.1496582
03 09 2018 17:00
                  1404.607056 8.153324127 1618.98332 53.81253815
03 09 2018 17:10
                  1411.401001 8.120815277 1599.923006 56.05308151
                  1522.317993 8.413215637 1774.755198 58.91067886
03 09 2018 17:20
                  1822.985962 9.119854927 2221.52575 60.23226166
03 09 2018 17:30
03 09 2018 17:40
                  1964.92395 9.433059692 2426.052694 61.04552078
03 09 2018 17:50
                  1923.098999 9.42914772 2423.486597 64.23867798
03 09 2018 18:00
                  1802.215942 9.06020546 2182.873231 65.28813934
03 09 2018 18:10
                  1780.597046 8.934004784 2101.536484 66.4590683
03 09 2018 18:20
                  1689.292969 8.771613121 1997.928944 67.41721344
                  1571.019043 8.479270935 1815.226363 68.21884918
03 09 2018 18:30
                  1414.875977 8.190722466 1641.033384 66.59953308
03 09 2018 18:40
03 09 2018 18:50
                  1340.280029 8.044953346 1555.843806 67.9943924
                  1118.254028 7.503866196 1259.98306 69.07080078
03 09 2018 19:00
03 09 2018 19:10
                  941.2470703 7.097033978 1060.274709 70.27549744
03 09 2018 19:20
                  789.5501709 6.722939968 895.9969115 70.87010956
03 09 2018 19:30
                  973.7852783 7.504258156 1260.184218 72.69004059
                  975.8687744 7.553620815 1285.683116 72.06253815
03 09 2018 19:40
03 09 2018 19:50
                  921.2692871 7.490468979 1253.036827 67.19042206
03 09 2018 20:00
                  1050.827026 7.720662117 1374.321077 63.93328857
03 09 2018 20:10
                  1067.161011 7.681573868 1353.263703 67.29707336
03 09 2018 20:20
                  960.0391846 7.471423149 1243.18585 70.0724411
03 09 2018 20:30
                  949.2384033 7.561938763 1290.011867 74.36171722
03 09 2018 20:40
                  774.2786865 7.212994099 1114.826729 75.493927
03 09 2018 20:50
                  415.3662109 5.767580986 549.3701851 79.89096069
03 09 2018 21:00
                  48.43423843 3.063239098 18.3435858 86.87526703
                              1.626152992 0
03 09 2018 21:10
                  0.0002
                                                84.85273743
03 09 2018 21:20
                  0
                        2.909775972 0
                                          90.65647125
03 09 2018 21:30
                        2.04264307
                                          80.4001236
03 09 2018 21:40
                  0
                        2.492156982 0
                                          91.99310303
03 09 2018 21:50
                  0
                        1.586580992 0
                                          72.12779236
03 09 2018 22:00
                  0
                        2.138254881 0
                                          66.71279144
03 09 2018 22:10
                  0
                        2.07515192 0
                                          66.83930969
03 09 2018 22:20
                  0
                        2.628091097 0
                                          79.84131622
03 09 2018 22:30
                        2.129549026 0
                                          72.87415314
03 09 2018 22:40
                        1.962556005 0
                                          68.22345734
03 09 2018 22:50
                                          73.29218292
                  0
                        2.38616395 0
03 09 2018 23:00
                                          59.25495911
                  0
                        1.735260963 0
03 09 2018 23:10
                  0
                        2.208801985 0
                                          48.78031921
03 09 2018 23:20
                  0
                        1.618456006 0
                                          45.60580826
03 09 2018 23:30
                  0
                        0.603307903 0
                                          86.54701996
03 09 2018 23:40
                  0
                        0.776248276 0
                                          145.8054047
```

```
03 09 2018 23:50
                        0.9193151
                                           227,9875031
                  0
                                     0
04 09 2018 00:00
                  0
                        0.894672573 0
                                           244.3343964
04 09 2018 00:10
                                           272,665802
                  0
                        1.084228992 0
04 09 2018 00:20
                        1.931767941 0
                                           294.0664063
                  0
04 09 2018 00:30
                  0
                        2.298609018 0
                                           283.8432007
04 09 2018 00:40
                        2.426466942 0
                                           281.6364136
04 09 2018 00:50
                  0
                        2.747214079 0
                                           291.7210083
04 09 2018 01:00
                        2.722436905 0
                  0
                                           287.5656128
04 09 2018 01:10
                  0
                        2.797066927 0
                                           292.9950867
04 09 2018 01:20
                  0
                        2.935633898 0
                                           295,5350952
04 09 2018 01:30
                        2.601340055 0
                  0
                                           294.4247131
04 09 2018 01:40
                        1.984611988 0
                                           302.0133972
04 09 2018 01:50
                        1.241099954 0
                                           333.6144104
04 09 2018 02:00
                        2.14577508 0
                                           13.16814995
04 09 2018 02:10
                        2.168725967 0
                                           34.71271896
                  0
04 09 2018 02:20
                  0
                        2.324747086 0
                                           33.69371033
04 09 2018 02:30
                  0
                        2.390803099 0
                                           28.38962936
04 09 2018 02:40
                  0
                        2.578388929 0
                                           32.0125618
04 09 2018 02:50
                        3.041498899 17.46573748 52.52672958
                        3.196316957 25.36537046 56.02727127
04 09 2018 03:00
                  0
04 09 2018 03:10
                        3.488253117 50.6953882 52.86251068
                  0
                        3.018462896 16.61808297 49.62398911
04 09 2018 03:20
                  0
04 09 2018 03:30
                  0
                        2.797456026 0
                                           31.89512062
                                           40.95640182
04 09 2018 03:40
                  0
                        2.571084023 0
04 09 2018 03:50
                  0
                        2.581075907 0
                                           50.98815155
04 09 2018 04:00
                        2.854854107 0
                                           60.82112122
04 09 2018 04:10
                        3.540843964 56.70798227 62.77025986
                  0
04 09 2018 04:20
                  8.525700569 3.523011923 54.61969925 61.7314682
04 09 2018 04:30
                  1.604665041 3.414086103 42.96813939 68.04187775
                        3.265650988 30.14646738 68.64185333
04 09 2018 04:40
04 09 2018 04:50
                  0
                        2.53591609 0
                                           70.17027283
04 09 2018 05:00
                  0
                        3.534347057 55.94124805 61.35411835
04 09 2018 05:10
                  47.4666214 3.725038052 81.25563175 62.20595932
04 09 2018 05:20
                  47.62789154 3.779709101 89.58639376 60.52772141
                  0.925335586 2.802990913 0
04 09 2018 05:30
                                                 60.17910004
04 09 2018 05:40
                  0
                        3.407603979 42.33460763 53.5529213
04 09 2018 05:50
                  7.343804836 3.15257597 22.74478515 54.88938904
04 09 2018 06:00
                  0
                        2.655296087 0
                                           48.51578903
04 09 2018 06:10
                        3.394356012 41.06072555 42.48141098
04 09 2018 06:20
                        2.528198957 0
                                           73.01139069
04 09 2018 06:30
                        2.738008022 0
                                           84.05973816
                  0
04 09 2018 06:40
                  0
                        2.185540915 0
                                           81.81759644
04 09 2018 06:50
                        2.144453049 0
                  0
                                           78.82292175
04 09 2018 07:00
                  0
                        2.562968969 0
                                           80.17511749
04 09 2018 07:10
                        3.144053936 22.26984887 54.07178116
                  0
04 09 2018 07:20
                  0
                        2.465363979 0
                                           69.51452637
04 09 2018 07:30
                  0
                        1.899106979 0
                                           79.69055939
                                           69.40395355
04 09 2018 07:40
                  0
                        2.158160925 0
04 09 2018 07:50
                  0
                        2.470820904 0
                                           57.98852921
04 09 2018 08:00
                  0
                        2.367722988 0
                                           51.45605087
04 09 2018 08:10
                        2.782444954 0
                                           50.29957962
04 09 2018 08:20
                        2.123780966 0
                                           60.75814056
04 09 2018 08:30
                        2.330554008 0
                                           42.76538086
04 09 2018 08:40
                        2.344985008 0
                                           38.90378189
                  0
04 09 2018 08:50
                  0
                        1.721940994 0
                                           62.84088135
04 09 2018 09:00
                  0
                        2.429435015 0
                                           45.63742065
04 09 2018 09:10
                  0
                        3.080077887 19.0754898 27.62943077
                        3.300332069 32.82657437 25.32081032
04 09 2018 09:20
                  0
                  10.50139046 2.921591997 0
04 09 2018 09:30
                                                 18.53104019
```

```
18.54044914 3.386445999 40.31351279 32.68547058
04 09 2018 09:40
                  21.86783981 3.263428926 29.98130959 30.92841911
04 09 2018 09:50
04 09 2018 10:00
                  39.92811966 3.50760603 52.85650344 32.38142014
04 09 2018 10:10
                  27.54733086 3.272073984 30.62830772 27.9930706
04 09 2018 10:20
                  15.73153973 2.907617092 0
                                                22.56278038
04 09 2018 10:30
                        2.669456959 0
                                          25.35371017
04 09 2018 10:40
                  0
                        2.687741995 0
                                          27.90739059
04 09 2018 10:50
                  0
                        2.844706059 0
                                          25.56443977
04 09 2018 11:00
                  0
                        2.639262915 0
                                          24.1735096
04 09 2018 11:10
                  0
                        2.754393101 0
                                          20.28289032
04 09 2018 11:20
                  0
                        2.854326963 0
                                          29.14480019
04 09 2018 11:30
                  0
                        2.447967052 0
                                          28.33869934
04 09 2018 11:40
                        2.643471003 0
                                          19.32019997
04 09 2018 11:50
                  0
                        2.813832045 0
                                          25.91238976
04 09 2018 12:00
                        2.726974964 0
                                          24.29677963
                  0
04 09 2018 12:10
                  0
                        2.662633896 0
                                          24.08795929
04 09 2018 12:20
                  0
                        3.398363113 41.44307324 16.1139698
04 09 2018 12:30
                  59.74745941 3.573538065 60.66889103 11.34002018
04 09 2018 12:40
                  107.6953964 4.119214058 145.4556976 19.71380997
04 09 2018 12:50
                  58.32091141 3.71041894 79.10901165 22.80220032
                  74.6280899 3.822566986 96.45145928 22.21653938
04 09 2018 13:00
                  96.11192322 3.817069054 95.55435679 22.47261047
04 09 2018 13:10
04 09 2018 13:20
                  143.8016968 4.266831875 174.2093193 22.0145607
04 09 2018 13:30
                  105.9164963 3.99673295 127.3735803 16.58621025
04 09 2018 13:40
                  105.3460999 4.002655029 123.4931039 17.93996048
04 09 2018 13:50
                  133.6239014 4.256659985 172.1924452 19.18755913
04 09 2018 14:00
                  146.3146057 4.343181133 189.5236518 22.69058037
04 09 2018 14:10
                  115.9889984 4.105090141 142.760823 23.87413979
04 09 2018 14:20
                  130.0587006 4.238289833 168.5636918 26.05884933
                  206.9324951 4.618443966 247.5000215 23.09499931
04 09 2018 14:30
                  208.1295013 4.653666019 255.2533625 21.42707062
04 09 2018 14:40
04 09 2018 14:50
                  171.865799 4.476963997 217.1396115 24.34892082
04 09 2018 15:00
                  170.4369965 4.421102047 205.4837997 23.26660919
04 09 2018 15:10
                  217.2346039 4.755249977 278.0707941 25.00223923
                  330.7460938 5.311048985 416.2511537 27.57560921
04 09 2018 15:20
                  291.7054138 5.142222881 371.7230392 32.50933075
04 09 2018 15:30
04 09 2018 15:40
                  412.2423096 5.748998165 543.5630724 33.36791992
04 09 2018 15:50
                  406.5490112 5.762055874 547.6399748 27.99287987
04 09 2018 16:00
                  436.0213013 5.838517189 571.8587524 31.49021912
04 09 2018 16:10
                  518.949585 6.277501106 721.6736433 36.84761047
04 09 2018 16:20
                  687.6671753 7.20243597 1109.784538 38.17766953
                 582.5136719 6.473688126 795.7370644 46.55598068
04 09 2018 16:30
04 09 2018 16:40
                  590.298584 6.592224121 842.5402665 50.53744888
04 09 2018 16:50
                  623.0115967 6.574531078 835.4543552 52.63280106
04 09 2018 17:00
                  726.0750732 6.851181984 950.3795736 56.57184982
04 09 2018 17:10
                  623.7211304 6.663338184 871.3792454 57.15444183
04 09 2018 17:20
                  549.5612183 6.41234684 772.1286251 63.9317894
                  618.5430298 6.572960854 834.827199 71.05687714
04 09 2018 17:30
04 09 2018 17:40
                  731.2703857 6.934268951 986.6714186 70.1211319
04 09 2018 17:50
                  668.3787231 6.816915989 935.6569151 74.27902985
04 09 2018 18:00
                  613.8383179 6.957470894 996.9580608 68.62290192
04 09 2018 18:10
                  595.1082764 6.824184895 938.7682601 63.29447937
04 09 2018 18:20
                  761.1229858 7.232621193 1124.240708 66.28394318
04 09 2018 18:30
                  575.68573
                              6.71351099 892.0749766 66.07792664
04 09 2018 18:40
                  482.7969971 6.40584898 769.6519781 62.79132843
04 09 2018 18:50
                 405.0405884 6.036034107 636.2123291 67.52896118
04 09 2018 19:00
                  237.6777039 5.065958023 352.3701479 66.09407043
04 09 2018 19:10
                 214.1300964 4.860261917 302.3980704 58.7846489
04 09 2018 19:20 111.7643967 4.250847816 171.0424407 54.11484146
```

```
04 09 2018 19:30 88.9241333 4.153623104 152.0611256 40.05400085
04 09 2018 19:40 8.788456917 2.848412991 0 43.05012894
04 09 2018 19:50
                        2.59681201 0
                                          43.74396133
                 0
04 09 2018 20:00
                 0
                        2.758857012 0
                                          57.65343094
04 09 2018 20:10
                  0
                        2.935316086 0
                                          67.88150787
04 09 2018 20:20
                  1.26493299 3.649574041 70.54208414 61.96239853
04 09 2018 20:30
                  42.83298111 3.57978797 61.4455422 46.59719849
                  1.20253098 3.042041063 17.48671011 60.24647903
04 09 2018 20:40
04 09 2018 20:50
                  0
                        3.192055941 25.09662885 43.79328156
04 09 2018 21:00
                  44.46176147 3.943269014 117.3651231 47.05860901
04 09 2018 21:10
                  64.93895721 3.892592907 108.3007408 55.52164078
                  52.16838074 3.788011074 90.8932706 59.18951035
04 09 2018 21:20
04 09 2018 21:30
                  64.76016998 3.876931906 105.5825864 55.7321701
04 09 2018 21:40
                  40.18616867 3.679343939 74.65966102 57.54972839
                  15.41222954 3.409868956 42.55521144 71.96482086
04 09 2018 21:50
                  0.96713239 3.017656088 16.58993381 83.05805206
04 09 2018 22:00
04 09 2018 22:10
                  0
                        3.289046049 31.93328305 53.76807022
04 09 2018 22:20
                  0
                        2.816766024 0
                                       50.9993515
04 09 2018 22:30
                  0
                        2.750494957 0
                                          41.16641998
04 09 2018 22:40
                  0
                        2.200351954 0
                                          56.25894928
04 09 2018 22:50
                  0
                        2.033178091 0
                                          62.48218918
04 09 2018 23:00
                                          54.41461182
                  0
                        1.826509953 0
04 09 2018 23:10
                  0
                        2.20391798 0
                                          44.72406006
04 09 2018 23:20
                  0
                        2.017927885 0
                                          51.67853165
04 09 2018 23:30
                  0
                        1.691369057 0
                                          45.94446945
04 09 2018 23:40
                        2.01950407 0
                                          44.12937164
04 09 2018 23:50
                        2.224101067 0
                                          42.71670914
05 09 2018 00:00
                        2.612171888 0
                                          41.08681107
                 0
05 09 2018 00:10
                  0
                        2.536746979 0
                                          40.95462036
05 09 2018 00:20
                 0
                        2.871798038 0
                                          35.46472931
05 09 2018 00:30
                 0
                        2.592045069 0
                                          40.51499176
05 09 2018 00:40
                 0
                        2.501538992 0
                                          37.81563187
05 09 2018 00:50
                        2.905697107 0
                                          34.01250076
05 09 2018 01:00
                        3.089713097 19.51469427 39.20349884
                  0
                  2.709600925 3.425954103 44.14548317 32.66215897
05 09 2018 01:10
05 09 2018 01:20
                  -0.126733303
                                    2.937608004 0
                                                      34.97956085
                        3.112421989 20.60859996 42.03712845
05 09 2018 01:30
                  0
                  34.30144119 3.810837984 94.54347441 34.3891983
05 09 2018 01:40
05 09 2018 01:50
                  16.70936966 3.403949022 41.98035372 46.12517929
05 09 2018 02:00
                        2.694071054 0
                                          49.40206146
05 09 2018 02:10
                  23.81605911 3.833750963 98.29128432 38.72784042
                  53.80799866 3.882886887 106.6115207 40.10577011
05 09 2018 02:20
05 09 2018 02:30
                  9.682731628 2.979182005 0
                                                32.13045883
05 09 2018 02:40
                  0
                        2.150008917 0
                                          13.94567013
05 09 2018 02:50
                  0
                        1.99068296 0
                                          7.837140083
05 09 2018 03:00
                  0
                        2.092406988 0
                                          4.359872818
05 09 2018 03:10
                  0
                        2.126854897 0
                                          11.49868011
05 09 2018 03:20
                  0
                        1.856206059 0
                                          20.55101967
05 09 2018 03:30
                  0
                        1.912101984 0
                                          10.0210104
                                          31.7283802
05 09 2018 03:40
                  0
                        1.434573054 0
05 09 2018 03:50
                  0
                        1.384667039 0
                                          16.69285011
05 09 2018 04:00
                        1.123656988 0
                                          16.08840942
05 09 2018 04:10
                        1.517935038 0
                                          9.91868782
05 09 2018 04:20
                        1.692003012 0
                                          0.136449903
                  0
05 09 2018 04:30
                        1.878252983 0
                                          0.604881287
                  0
05 09 2018 04:40
                  0
                        1.752482057 0
                                          9.527549744
05 09 2018 04:50
                  0
                       2.181126118 0
                                          16.97443962
05 09 2018 05:00
                        2.456157923 0
                                          13.62609005
                 0
05 09 2018 05:10 0
                      2.347940922 0
                                         20.70815086
```

```
05 09 2018 05:20
                        2.059009075 0
                                          29.08127975
                  0
05 09 2018 05:30
                  0
                        2.713962078 0
                                          6.090089798
05 09 2018 05:40
                        2.641747952 0
                                          9.274800301
                  0
05 09 2018 05:50
                  0
                        2.335709095 0
                                          15.54030991
05 09 2018 06:00
                  0
                        2.648682117 0
                                          35.04285812
05 09 2018 06:10
                        2.714324951 0
                                          47.5907402
05 09 2018 06:20
                  0
                        2.647469044 0
                                          58.70903015
                                          63.81692886
05 09 2018 06:30
                  0
                        2.384591103 0
05 09 2018 06:40
                  0
                        1.632959962 0
                                          58.54132843
05 09 2018 06:50
                  0
                        2.160881996 0
                                          53.29140091
05 09 2018 07:00
                  0
                        1.466503024 0
                                          46.90505981
05 09 2018 07:10
                  0
                        1.548377037 0
                                          50.59830856
05 09 2018 07:20
                        1.611204028 0
                                          40.95241165
05 09 2018 07:30
                  0
                        1.809569955 0
                                          43.30012894
05 09 2018 07:40
                                          43.79352188
                  0
                        1.570868015 0
05 09 2018 07:50
                  0
                        1.830124021 0
                                          46.88497162
05 09 2018 08:00
                  0
                        1.834810972 0
                                          51.59947968
05 09 2018 08:10
                  0
                                          59,69367981
                        2.577477932 0
05 09 2018 08:20
                  0
                        2.625526905 0
                                          52.32621002
05 09 2018 08:30
                  0
                        2.367074013 0
                                          45.71086884
05 09 2018 08:40
                  0
                        2.696206093 0
                                          41.28295135
                        3.472270012 48.95575751 47.16403961
05 09 2018 08:50
                  0
05 09 2018 09:00
                  10.14253998 3.132205009 21.62881346 42.01330948
05 09 2018 09:10
                  63.91220093 3.633121014 68.32724987 33.42853165
05 09 2018 09:20
                  60.84511185 3.453016043 46.91439616 26.39694023
05 09 2018 09:30
                  61.92631912 3.533948898 55.89447883 30.49902916
05 09 2018 09:40
                  95.19819641 3.891143084 108.0474583 24.51699066
05 09 2018 09:50
                  133.1981049 4.196766853 160.4253256 25.38418007
                  134.9237976 4.103937149 142.5412479 25.70986938
05 09 2018 10:00
                  153.6992035 4.332386971 187.3394064 19.34325981
05 09 2018 10:10
                  232.3491974 4.716217995 269.2221799 23.34962082
05 09 2018 10:20
05 09 2018 10:30
                  280.7211914 4.97973299 331.0362331 21.30430984
05 09 2018 10:40
                  379.7680054 5.330901146 421.6451929 26.65658951
05 09 2018 10:50
                  408.9634094 5.557789803 485.7788232 25.40809059
                  360.6856079 5.175739765 380.3756089 24.84119034
05 09 2018 11:00
05 09 2018 11:10
                  393.5104065 5.442089081 452.4940305 24.20754051
05 09 2018 11:20
                  413.0570984 5.512667179 472.6512316 23.18305969
05 09 2018 11:30
                  305.4378052 5.037005901 345.1430313 25.43807983
05 09 2018 11:40
                  301.8500977 5.025896072 342.3869814 24.64834023
05 09 2018 11:50
                  297.8747864 4.950088024 323.8318892 26.60327911
                  430.5943909 5.613863945 502.3591697 25.85840034
05 09 2018 12:00
05 09 2018 12:10
                  294.6368103 4.977011204 330.372034 24.73550987
05 09 2018 12:20
                  292.6736145 5.046320915 347.4611767 23.76720047
05 09 2018 12:30
                  311.6115112 4.972768784 329.3378656 27.5651207
05 09 2018 12:40
                  223.7872009 4.526181221 227.5620392 28.94709969
05 09 2018 12:50
                  323.8416138 5.229909897 394.5543139 24.10659981
05 09 2018 13:00
                  350.6488037 5.261096001 402.82771
                                                       25.97997093
05 09 2018 13:10
                  401.1347046 5.542246819 481.2354542 23.89352989
05 09 2018 13:20
                  285.7835083 5.084616184 357.0623004 20.89804077
05 09 2018 13:30
                  342.5750122 5.345070839 425.5161035 11.00306034
05 09 2018 13:40
                  310.3463135 5.131775856 369.0446368 13.26980019
05 09 2018 13:50
                  298.8312988 5.143311977 372.0027664 20.80031967
05 09 2018 14:00
                  381.5690918 5.469021797 460.132455 22.0055809
05 09 2018 14:10
                  571.09552
                              6.158353806 678.7244894 21.87224007
05 09 2018 14:20
                  581.4633179 6.279825211 722.5265805 21.45561028
05 09 2018 14:30
                  779.0214844 6.858527184 953.5539366 19.53323936
05 09 2018 14:40
                  660.3452148 6.505020142 807.9559868 22.98529053
05 09 2018 14:50
                  853.479126 6.969232082 1002.198119 28.72916985
05 09 2018 15:00 1073.703979 7.437284946 1225.667389 33.29563904
```

```
05 09 2018 15:10 1201.639038 7.726678848 1377.579006 29.65195084
                 1335.807983 7.980141163 1518.644925 30.74383926
05 09 2018 15:20
05 09 2018 15:30
                 1042.785034 7.362983227 1188.142713 34.65888977
05 09 2018 15:40 1170.704956 7.586835861 1303.02304 30.92840958
05 09 2018 15:50 1347.259033 8.085330963 1579.234353 28.7779808
05 09 2018 16:00 1278.920044 7.715405941 1371.478582 47.78926849
05 09 2018 16:10
                 1749.536987 8.411399841 1773.64738 52.51274109
                 1781.707031 12.21753025 3551.797061 312.859314
05 09 2018 16:20
05 09 2018 16:30
                 1758.307983 9.057170868 2180.910156 323.6134033
                 3445.540039 13.00942993 3600 38.24324036
05 09 2018 16:40
05 09 2018 16:50
                 2391.955078 10.37366009 3003.384979 45.94227982
05 09 2018 17:00 723.3220215 6.693527222 883.7969987 43.48839951
05 09 2018 17:10
                 1102.812012 7.484389782 1249.886454 48.30978012
05 09 2018 17:20
                 1280.121948 8.074248314 1572.798057 44.75141907
05 09 2018 17:30 1652.464966 8.74034214 1978.134655 45.09682083
05 09 2018 17:40 1299.854004 8.078648567 1575.352069 33.45801926
05 09 2018 17:50
                 1296.972046 8.097248077 1586.168771 36.70700836
05 09 2018 18:00 1354.703979 8.135332108 1608.42195 42.62779999
05 09 2018 18:10 1639.296021 8.835074425 2038.261573 48.59457016
05 09 2018 18:20
                 1478.188965 8.364827156 1745.321946 60.89904022
                 1886.526978 9.449106216 2436.580496 68.8939209
05 09 2018 18:30
                 1853.223999 9.246165276 2303.737159 73.00324249
05 09 2018 18:40
05 09 2018 18:50
                 1351.938965 8.249282837 1675.817232 76.63987732
05 09 2018 19:00
                 1310.015991 8.118526459 1598.584853 65.36228943
05 09 2018 19:10 1340.463989 8.094992638 1584.855291 58.22566986
05 09 2018 19:20 1463.276001 8.305672646 1709.597315 54.30104828
05 09 2018 19:30 1380.959961 8.180862427 1635.207305 56.15615082
05 09 2018 19:40 1307.792969 7.984634876 1521.21002 47.55369186
05 09 2018 19:50 1071.987061 7.402015209 1207.752862 47.99761963
05 09 2018 20:00
                 1246.639038 7.932659149 1491.672343 52.69248962
05 09 2018 20:10
                 1070.108032 7.484882832 1250.14175 53.30054855
05 09 2018 20:20
                 1356.214966 8.262286186 1683.582416 51.6809082
05 09 2018 20:30
                 1160.714966 7.78175211 1407.602594 52.98696136
05 09 2018 20:40 832.2811279 6.941401958 989.8267135 45.99784088
05 09 2018 20:50 632.5100098 6.393039227 764.7830812 46.93375015
                 706.0390015 6.61450386 851.5134683 40.13731003
05 09 2018 21:00
05 09 2018 21:10
                 637.9692993 6.338841915 744.3808826 35.43577957
                 356.605011 5.486618996 465.1588397 43.46430969
05 09 2018 21:20
05 09 2018 21:30 171.4152985 4.362960815 193.5428099 23.79589081
05 09 2018 21:40
                 168,2026062 4,467817783 215,218706 344,7019958
05 09 2018 21:50
                 11.09815979 2.135001898 0
                                               325.3049011
05 09 2018 22:00 7.312464237 3.289278984 31.95151394 24.76082993
05 09 2018 22:10
                 100.9160995 4.105564117 142.851105 32.80186081
05 09 2018 22:20
                 372.8288879 5.507232189 471.082776 41.14950943
05 09 2018 22:30
                 707.2999268 6.547780037 824.8077048 39.45996857
05 09 2018 22:40
                 1300.630005 7.743918896 1386.938424 24.82794952
                 1249.282959 7.695808887 1360.910502 17.99189949
05 09 2018 22:50
                 565.6229248 5.91155386 595.5540117 11.27383041
05 09 2018 23:00
05 09 2018 23:10
                 556.5996094 6.085474968 653.2029744 10.47741032
05 09 2018 23:20
                 216.9517975 4.56529808 235.9504984 22.53244972
05 09 2018 23:30
                 286.9238892 5.272856236 405.9688461 34.0286293
05 09 2018 23:40
                 103.3460999 4.122149944 146.0170657 34.27542877
05 09 2018 23:50
                 17.82061005 3.334400892 35.64674509 49.55530167
06 09 2018 00:00
                       2.071449041 0
                                         36.95429993
                 0
                       1.834192038 0
                                         359.8559875
06 09 2018 00:10
                 0
06 09 2018 00:20
                 0
                       3.077697992 18.969294 333.8977051
06 09 2018 00:30 0
                       2.838685989 0
                                         350.9476929
06 09 2018 00:40 0
                       2.135910988 0
                                         8.596423149
06 09 2018 00:50 86.9853363 4.48358202 218.5326315 3.188285112
```

```
06 09 2018 01:00 191.6069031 4.451011181 211.7017938 344.3540955
                 190.3869934 4.370758057 195.1331459 350.7583008
06 09 2018 01:10
06 09 2018 01:20
                 186.9375
                             4.503055096 222.6466407 2.052936077
06 09 2018 01:30 179.4658051 4.482439041 218.2918614 31.92012024
06 09 2018 01:40 165.0590973 4.328155994 186.4849891 17.52069092
06 09 2018 01:50 0
                       4.683088779 261.7917991 344.2481995
06 09 2018 02:10 0
                       5.515658855 473.5157485 0
06 09 2018 02:20 0
                       5.252029896 400.4141374 7.878842831
06 09 2018 02:30 0
                       12.61338043 3586.631476 284.0372009
06 09 2018 02:40 0
                       7.178630829 1098.471934 305.5910034
06 09 2018 02:50 44.26287842 4.514737129 225.1255848 13.92113018
06 09 2018 03:00 216.165802 4.600032806 243.4788037 344.6133118
06 09 2018 03:10 349.447113 5.357408047 428.9006409 4.117733002
06 09 2018 03:20 388.8465881 5.548437119 483.0422314 345.0689087
06 09 2018 03:30 429.568512 5.936266899 603.6980636 346.1859131
06 09 2018 03:40 488.6700134 5.908389091 594.5157287 347.9578857
06 09 2018 03:50 640.0380249 6.589221954 841.3354352 353.96521
06 09 2018 04:00 443.5545959 5.7252841 536.2025602 348.8919067
06 09 2018 04:10 236.411499 4.767008781 280.756804 344.0682983
                 112.9961014 4.060095787 134.2383551 340.4825134
06 09 2018 04:20
                 18.97687912 3.154576063 22.85793477 346.5787048
06 09 2018 04:30
06 09 2018 04:40 0
                       2.504718065 0
                                         341.6813049
06 09 2018 04:50 0
                       2.834440947 0
                                         330.7237854
06 09 2018 05:00 0
                       3.400882959 41.68482647 332.1849976
06 09 2018 05:10 12.55951977 3.164431095 23.42480185 317.7843018
06 09 2018 05:20 11.58699989 3.006685972 16.21752729 280.4805908
06 09 2018 05:30 0
                       1.716246963 0
                                         287.0747986
06 09 2018 05:40 6.102200985 4.382669926 197.5692701 245.6614075
06 09 2018 05:50 309.8435059 5.286345005 409.5861027 317.8785095
06 09 2018 06:00 275.5407104 4.951360226 324.1397119 252.9342957
06 09 2018 06:10 60.64038849 3.843307018 99.87916275 304.6612854
06 09 2018 06:20 200.1945953 4.567037106 236.3256172 288.7001953
06 09 2018 06:30 556.3530273 5.989170074 621.3501946 308.0040894
06 09 2018 06:40 313.5072937 5.114332199 364.5919376 328.9046021
06 09 2018 06:50 292.5367126 5.167840958 378.328274 357.515686
06 09 2018 07:00
                 115.8386993 4.085190773 138.979992 339.8659973
                 178.1860046 4.49362278 220.6510767 319.3768921
06 09 2018 07:10
06 09 2018 07:20 399.3049927 5.334873199 422.7285304 300.9009094
06 09 2018 07:30 376.3406067 5.54594183 482.3134948 307.0322876
06 09 2018 07:40 485.5589905 5.906693935 593.9600223 304.1304016
                             7.323348999 1168.457798 300.8605957
06 09 2018 07:50 1225.75
06 09 2018 08:00 629.074707 6.262221813 716.0806867 346.9099121
06 09 2018 08:10 862.7097778 6.871035099 958.9745258 10.12413025
06 09 2018 08:20
                 778.0579224 6.552651882 826.7406685 14.34224987
06 09 2018 08:30 811.3131714 6.731509209 899.5702384 359.4772949
06 09 2018 08:40 431.8930969 5.51940012 474.5980419 355.2590942
06 09 2018 08:50 479.1864929 5.755311012 545.5319486 6.178088188
06 09 2018 09:00
                 203.8806
                             4.744634151 275.6539669 22.18250084
06 09 2018 09:10
                 301.0509033 5.2072649
                                         388.5976607 19.51073074
06 09 2018 09:20
                 281.9460144 4.887887955 308.927513 355.0303955
                 73.85719299 3.865060091 103.5482398 18.66893959
06 09 2018 09:30
06 09 2018 09:40
                 2.840856075 2.073332071 0
                                               18.34524918
06 09 2018 09:50
                       1.570917964 0
                                         27.08041
06 09 2018 10:00
                       2.292134047 0
                 0
                                         350.9890137
                       2.29854393 0
06 09 2018 10:10
                 0
                                         4.097178936
06 09 2018 10:20
                 0
                       3.686378002 75.65327702 32.25671005
06 09 2018 10:30 5.101203918 2.946008921 0
                                               18.79556084
06 09 2018 10:40 0 1.997977018 0
                                         351.6919861
06 09 2018 10:50 0
                       3.36559701 38.39199819 291.6647034
```

```
06 09 2018 11:00 0
                       2.017447948 0
                                         298.0510864
06 09 2018 11:10 0
                       1.895369053 0
                                         305.5414124
06 09 2018 11:20 0
                       2.145123005 0
                                         322,2969055
06 09 2018 11:30 0
                       2.886219978 0
                                         289.3815002
06 09 2018 11:40 11.32168961 3.548340082 57.60103029 235.0514069
06 09 2018 11:50 5.194262028 3.282665014 31.43724128 283.4074097
06 09 2018 12:00 0
                       2.92294693 0
                                         264.3854065
06 09 2018 12:10 0
                       2.81983304 0
                                         247.9954987
06 09 2018 12:20 0
                       2.019021988 0
                                         272.1843872
06 09 2018 12:30 0
                       1.167472959 0
                                         263,2882996
06 09 2018 12:40 0
                       2.611866951 0
                                         270.2084045
06 09 2018 12:50 0
                       2.780661106 0
                                         271.9909973
06 09 2018 13:00 0
                       2.676522017 0
                                         251.1546936
06 09 2018 13:10 0
                       3.382163048 39.91310514 255.9676056
06 09 2018 13:20 12.86765957 2.866533995 0
                                               260.1192932
06 09 2018 13:30 99.25119781 4.025979042 127.8383664 251.4725952
06 09 2018 13:40 90.95513153 3.89337492 108.4374972 249.2563019
06 09 2018 13:50 16.83054924 2.900801897 0
                                               255.0198975
06 09 2018 14:00 0
                                         260.3597107
                       2.479640007 0
06 09 2018 14:10 57.75484085 3.980391026 124.2658379 261.1643982
06 09 2018 14:20 46.34196091 3.617777109 66.30075202 287.9631042
06 09 2018 14:30 30.44765091 3.169562101 23.72609174 310.4672852
                 20.45749092 3.20946908 26.2131942 320.1234131
06 09 2018 14:40
06 09 2018 14:50
                 305.8019104 5.404964924 442.0722582 20.1114006
06 09 2018 15:00 22.59396935 3.196187973 25.3571928 25.1421299
06 09 2018 15:10 0
                       1.347355008 0
                                         359.1928101
06 09 2018 15:20 0
                       1.658555984 0
                                         307.7670898
                       3.243319988 28.52260896 302.7540894
06 09 2018 15:30 0
06 09 2018 15:40 30.37002945 3.782088995 89.95990352 289.2372131
                               3.017740965 16.59289022 289.8552856
06 09 2018 15:50 -0.221400395
                       3.073216915 18.77179862 313.4299011
06 09 2018 16:00 0
06 09 2018 16:10 0
                       2.961045027 0
                                       297.8223877
06 09 2018 16:20 0
                       2.534224987 0
                                         290.6658936
06 09 2018 16:30 0
                       2.276710033 0
                                         287.313385
06 09 2018 16:40 0
                       2.959897041 0
                                         267.8534851
06 09 2018 16:50 9.886709213 3.609853029 65.26895432 270.1557922
06\ 09\ 2018\ 17:00\ 0.825000525\ 3.377249002\ 39.45731287\ 300.8776855
06 09 2018 17:10 21.5320797 3.517776012 54.01619232 283.1737976
06 09 2018 17:20 67.05153656 3.788990021 91.04810089 293.2224121
06 09 2018 17:30 4.944605827 3.480730057 49.87147281 304.2366028
06 09 2018 17:40 2.703665018 2.992480993 0
                                               295.0718994
06 09 2018 17:50 0 2.527522087 0
                                         267.4016113
06 09 2018 18:00 0
                       1.799700022 0
                                         279.3526001
06 09 2018 18:10 0
                       2.004616022 0
                                         279.0421143
06 09 2018 18:20 0
                       3.279829979 31.2189447 312.8371887
06 09 2018 18:30 4.564599991 3.403227091 41.91063385 309.6423035
06 09 2018 18:40 5.993196011 3.110753059 20.52539711 312.4128113
06 09 2018 18:50
                 13.50599957 3.599354982 63.91747103 319.2258911
06 09 2018 19:00 4.623599052 2.645422935 0
                                               305.1282959
06 09 2018 19:10 8.421624184 3.03074789 17.05956712 290.7492065
                                         285.210907
06 09 2018 19:20 0
                       2.627866983 0
06 09 2018 19:30 13.64933968 3.531328917 55.58735873 293.0151062
06 09 2018 19:40 61.57365036 3.792716026 91.63880871 282.091095
06 09 2018 19:50 119.5653992 4.25130415 171.1326678 280.5282898
06 09 2018 20:00 226.4259949 4.861278057 302.6372649 282.9874878
06 09 2018 20:10 209.3538971 4.727006912 271.6577685 281.8370972
06 09 2018 20:20 173.2595978 4.550939083 232.8603319 278.8713074
06 09 2018 20:30 260.6247864 4.921402931 316.9230699 265.8814087
06 09 2018 20:40 420.5187073 5.699905872 528.3873075 262.8009949
```

```
06 09 2018 20:50 452.2116089 5.913619041 596.2321152 254.9833984
06 09 2018 21:00 547.0319824 6.236853123 706.8499908 254.3040924
                 588, 204895 6, 279565811 722, 431353 257, 520813
06 09 2018 21:10
06 09 2018 21:20 467.0589905 5.966191769 613.6463191 258.9227905
06 09 2018 21:30 585.3375854 6.281826019 723.2613356 260.2851868
06 09 2018 21:40
                 708.3751221 6.658049107 869.2144753 260.4111938
06 09 2018 21:50
                 760.9868164 6.863683224 955.7861213 258.4177856
                 690.164917 6.619832993 853.6681322 251.3518982
06 09 2018 22:00
06 09 2018 22:10
                 717.2946777 6.639694214 861.7268661 249.1546021
                 777.3884277 6.718770027 894.2611684 250.2415009
06 09 2018 22:20
06 09 2018 22:30
                 874.8934937 7.018381119 1024.284804 247.4517059
06 09 2018 22:40 985.3134766 7.352829933 1183.078212 243.1674957
06 09 2018 22:50
                 1347.780029 8.128126144 1604.200663 243.5175018
06 09 2018 23:00
                 1633.209961 8.675455093 1937.240532 239.4266052
06 09 2018 23:10
                 1590.526001 8.619428635 1902.135874 240.7205963
06 09 2018 23:20 1582.21106 8.769427299 1996.543577 245.9570007
06 09 2018 23:30
                 1584.639038 8.668429375 1932.827715 245.8267059
06 09 2018 23:40 1504.25
                            8.302395821 1707.626888 246.2521057
06 09 2018 23:50 1385.040039 8.112168312 1594.87023 244.6454926
07 09 2018 00:00 1297.103027 7.87086916 1456.938669 244.7908936
07 09 2018 00:10 1495.250977 8.379400253 1754.166779 245.5393066
07 09 2018 00:20 1461.32605 8.168914795 1628.15976 244.7420044
07 09 2018 00:30
                 1229.831055 7.675829887 1350.185266 246.7720032
07 09 2018 00:40
                 1409.745972 7.988759995 1523.566581 255.826004
07 09 2018 00:50 1321.125
                             8.001778603 1531.015399 261.3745117
07 09 2018 01:00 1254.334961 7.777696133 1405.379113 259.0054016
07 09 2018 01:10 1301.264038 7.920835018 1484.993249 263.3214111
07 09 2018 01:20
                 1206.151001 7.600679874 1310.292937 262.2236938
07 09 2018 01:30
                 1022.320984 7.272778988 1143.668837 260.4270935
                 1152.954956 7.663556099 1343.621042 264.380188
07 09 2018 01:40
07 09 2018 01:50
                            7.891273022 1468.361522 265.3247986
                 1256.375
07 09 2018 02:00
                 1151.604004 7.649015903 1335.869188 261.8575134
07 09 2018 02:10
                 998.0308228 7.199726105 1108.492865 263.5119934
07 09 2018 02:20 859.8405151 6.972925186 1003.84712 263.5740051
07 09 2018 02:30 1033.31604 7.31383419 1163.76588 264.1368103
07 09 2018 02:40
                 1074.271973 7.459978104 1237.292928 263.5647888
07 09 2018 02:50
                 990.2938232 7.235494137 1125.623161 264.8564148
07 09 2018 03:00
                 569.0081177 6.036540985 636.3851954 265.6785889
07 09 2018 03:10 692.2161255 6.479134083 797.8530848 261.7810059
07 09 2018 03:20
                 772.2692261 6.691198826 882.8355073 258.4386902
07 09 2018 03:30 673.9802856 6.539121151 821.3787467 253.8639984
07 09 2018 03:40 601.9890137 6.351638794 749.169386 251.0547028
07 09 2018 03:50 519.3483276 6.141400814 672.7370323 253.6042938
07 09 2018 04:00 593.0476074 6.350055218 748.5758594 258.9089966
07 09 2018 04:10 593.7246704 6.41661787 773.7590367 254.8784027
07 09 2018 04:20
                445.9838867 5.813495159 563.8676531 251.6475983
07 09 2018 04:30
                 452.0339966 5.884152889 586.5992378 249.2758026
07 09 2018 04:40 612.4414063 6.337172031 743.7573337 254.9598999
07 09 2018 04:50 507.2623901 6.031393051 634.6308139 256.2120056
07 09 2018 05:00
                 403.2623901 5.524946213 476.2048321 251.6499023
07 09 2018 05:10 416.7414856 5.621373177 504.6022555 246.2989044
07 09 2018 05:20 402.2591858 5.455296993 456.2317348 249.6838989
07 09 2018 05:30
                 439.4588013 5.687948227 524.7269348 252.7471008
07 09 2018 05:40 469.4189148 5.868544102 581.5332589 253.4967957
07 09 2018 05:50
                 345.9389038 5.326096058 420.3364796 255.1535034
07 09 2018 06:00 348.0292969 5.32563591 420.2112585 256.6647034
07 09 2018 06:10 290.6489868 5.151199818 374.0315626 259.1528931
07 09 2018 06:20 369.0945129 5.463519096 458.5664807 262.8443909
07 09 2018 06:30 623.3236084 6.322919846 738.4477362 261.2271118
```

```
07 09 2018 06:40 491.1542053 5.754974842 545.427002 256.4885864
07 09 2018 06:50
                 391.9924011 5.507130146 471.053354 257.743988
07 09 2018 07:00
                 331,4295959 5,210810184 389,5274228 267,0404053
07 09 2018 07:10 221.7929993 4.735956192 273.6839997 261.1245117
07 09 2018 07:20
                 179.2566071 4.358446121 192.6235333 270.8362122
07 09 2018 07:30
                 288.2225952 5.003218174 336.7905922 280.5123901
                 184.1118011 4.414497852 204.1177729 269.9005127
07 09 2018 07:40
                 300.0830994 5.015069962 339.7104376 282.2130127
07 09 2018 07:50
07 09 2018 08:00
                 333.3674927 5.0952878
                                         359.7583018 288.3973999
                 226.9550934 4.818767071 292.6930876 286.3106995
07 09 2018 08:10
07 09 2018 08:20
                 238.5493927 4.632718086 250.6325311 286.7005005
07 09 2018 08:30
                 199.8869934 4.606308937 244.8471691 283.7752991
07 09 2018 08:40 69.5135498 3.599188089 63.89612818 276.707489
07 09 2018 08:50 87.25589752 3.874972105 105.2452021 264.1789856
07 09 2018 09:00 44.73152924 3.53935504 56.53166997 291.0993958
07 09 2018 09:10 46.94947052 3.39409399 41.03581355 281.703186
07 09 2018 09:20 49.53461075 3.643347025 69.69873635 287.2366943
07 09 2018 09:30
                 214.5502014 4.697018147 264.9070711 293.9743958
07 09 2018 09:40
                 105.6059036 3.956106901 119.7266534 295.1582947
07 09 2018 09:50
                 70.94705963 3.725317001 81.29692424 284.1299133
07 09 2018 10:00
                 174.665802 4.465342045 214.699596 281.2850952
07 09 2018 10:10
                 45.81124115 3.408535957 42.42528091 288.2781982
07 09 2018 10:20
                 221.1864929 4.504635811 222.9815897 276.5927124
07 09 2018 10:30
                 170.4774933 4.155252934 152.3754266 266.7817078
                 233.3946991 4.600416183 243.5623188 266.8765869
07 09 2018 10:40
07 09 2018 10:50
                 296.0993042 5.072587967 354.0343202 265.7225952
07 09 2018 11:00
                 283.3465881 4.909023762 313.9602629 260.7461853
07 09 2018 11:10
                 326.3190918 5.230410099 394.6863708 253.0260925
07 09 2018 11:20
                 383.8796082 5.42575407 447.8931335 258.6289063
                 178.0666046 4.389970779 199.066326 259.8102112
07 09 2018 11:30
                 176.8311005 4.377030849 196.4150179 256.8353882
07 09 2018 11:40
07 09 2018 11:50
                 143.591095 4.246222019 170.1284298 269.1184082
07 09 2018 12:00
                 54.1251297 3.389347076 40.58639812 260.1148987
07 09 2018 12:10
                 15.16932964 2.698019028 0
                                               261.1913147
07 09 2018 12:20
                 101.3024979 3.526932001 55.07441074 272.4118958
07 09 2018 12:30
                 201.4297028 4.675680161 260.1400893 264.6953125
07 09 2018 12:40
                 171.6784058 4.41573
                                         204.3724432 273.8045959
07 09 2018 12:50
                 198.0834961 4.637368202 251.655839 276.4009094
07 09 2018 13:00
                 235.9542999 4.972951889 329.382473 281.8611145
07 09 2018 13:10
                 243.399704 4.779891014 283.7103146 267.9468079
07 09 2018 13:20
                 190.6795959 4.576134205 238.2909864 253.3153992
07 09 2018 13:30
                 180.0529022 4.502782822 222.5889617 253.9902039
07 09 2018 13:40
                 124.3761978 4.227962971 166.5314344 257.3540039
07 09 2018 13:50
                 86.46369171 3.953591108 119.2617956 248.1815033
07 09 2018 14:00
                 18.79924011 2.882663965 0
                                               246.1309967
07 09 2018 14:10
                 0
                       2.508335114 0
                                         243.1504974
07 09 2018 14:20
                       3.462088108 47.86885303 234.9044037
07 09 2018 14:30
                 56.13679886 3.732748032 82.40151124 232.8041992
07 09 2018 14:40
                 46.87919998 3.368233919 38.63118295 234.0372009
07 09 2018 14:50
                 7.997872829 2.729684114 0
                                               247.3498993
                 67.9312973 3.388096094 40.46856127 245.6898956
07 09 2018 15:00
07 09 2018 15:10
                 128.4131012 4.233705997 167.6609462 248.5993042
07 09 2018 15:20
                 75.60357666 3.830272913 97.71698202 252.1616058
07 09 2018 15:30
                 46.11978912 3.567416906 59.91429665 237.1183929
07 09 2018 15:40
                 69.83704376 3.802350998 93.17660184 227.1526031
07 09 2018 15:50
                 0.451132506 2.818103075 0
                                               253.3665924
07 09 2018 16:00
                 0
                       3.299491882 32.75937124 257.0473022
07 09 2018 16:10 0
                       2.763761044 0
                                         264.1192932
07 09 2018 16:20 0
                       2.597784996 0
                                         267.6859131
```

```
07 09 2018 16:30
                        2.903426886 0
                                          284.4512939
                  0
07 09 2018 16:40
                  0
                        2.73425889 0
                                          288.7763977
07 09 2018 16:50
                                          289,9613953
                  0
                        2.691751003 0
07 09 2018 17:00
                  0
                        2.569994926 0
                                          293,6164856
07 09 2018 17:10
                  0
                        2.079679012 0
                                          297.6144104
07 09 2018 17:20
                        2.374311924 0
                                          298.0441895
07 09 2018 17:30
                  0
                        2.393079996 0
                                          307.2056885
                        2.439445972 0
                                          306.7196045
07 09 2018 17:40
                  0
07 09 2018 17:50
                  0
                        1.92019105 0
                                          302.8919067
07 09 2018 18:00
                  0
                        2,219966888 0
                                          294.5737
07 09 2018 18:10
                  0
                        2.208800077 0
                                          285.6283875
07 09 2018 18:20
                        2.428746939 0
                                          283.7294922
07 09 2018 18:30
                        2.228713036 0
                                          287.6083984
07 09 2018 18:40
                        1.993613005 0
                                          271.4276123
07 09 2018 18:50
                        2.038425922 0
                                          253.7393951
                  0
07 09 2018 19:00
                  0
                        1.886386037 0
                                          260.1724854
07 09 2018 19:10
                  0
                        2.114775896 0
                                          272.656311
07 09 2018 19:20
                  0
                                          254.8148041
                        1.970160007 0
07 09 2018 19:30
                  0
                        2.315871954 0
                                          236,2268982
07 09 2018 19:40
                  0
                        2.002568007 0
                                          244.9757996
07 09 2018 19:50
                        1.940232038 0
                                          258.1146851
                  0
07 09 2018 20:00
                  0
                        1.529327035 0
                                          263.6376953
07 09 2018 20:10
                  0
                        1.652886987 0
                                          276.3561096
07 09 2018 20:20
                  0
                        1.76147604 0
                                          278.7426147
07 09 2018 20:30
                  0
                        1.822427988 0
                                          289.2473145
07 09 2018 20:40
                        2.26561594 0
                                          284.6672974
07 09 2018 20:50
                        2.130172968 0
                                          290.8590088
                  0
07 09 2018 21:00
                        1.894052029 0
                                          271.6653137
                  0
07 09 2018 21:10
                  0
                        2.65720892 0
                                          256.567688
                  5.69213295 3.438355923 45.39986272 272.5545959
07 09 2018 21:20
07 09 2018 21:30
                  36.21366119 3.689996004 76.16743099 266.9924011
                  82.50759888 4.047926903 131.9495172 262.3009033
07 09 2018 21:40
07 09 2018 21:50
                  106.6941986 4.152480125 151.8407878 258.2345886
07 09 2018 22:00
                  111.7216034 4.197859764 160.6384112 256.4078979
07 09 2018 22:10
                  132.4667053 4.365032196 193.9649611 249.0041046
                  123.2409973 4.212508202 163.5002475 251.0612946
07 09 2018 22:20
07 09 2018 22:30
                  142.5536041 4.352161884 191.3458261 252.707901
07 09 2018 22:40
                  91.72398376 4.085774899 139.0907095 252.4084015
07 09 2018 22:50
                  133.3289948 4.309829235 182.795257 253.014801
07 09 2018 23:00
                  168.8460999 4.52199316 226.6694766 255.3233948
                  103.9598007 4.176712036 156.525846 251.1154022
07 09 2018 23:10
                  103.6067963 4.231373787 167.2020535 247.9934998
07 09 2018 23:20
07 09 2018 23:30
                  82.10806274 4.025537014 127.7557911 243.2158966
07 09 2018 23:40
                  74.31549835 3.988641977 125.82958
                                                       240.3748932
07 09 2018 23:50
                  99.38400269 4.119225979 145.4579762 236.1809998
08 09 2018 00:00
                  104.7099991 4.168937206 155.0194861 235.1773987
08 09 2018 00:10
                  55.81830978 3.754831076 85.73619064 226.3076019
                  40.75112152 3.510324955 53.16492333 214.1452942
08 09 2018 00:20
08 09 2018 00:30
                  63.14773941 3.642255068 69.55148794 212.8134003
08 09 2018 00:40
                  29.45063972 3.261394978 29.83082603 220.2259979
                                          228.7454987
08 09 2018 00:50
                  0
                        2.039921045 0
08 09 2018 01:00
                  0
                        1.705996037 0
                                          220.2718048
08 09 2018 01:10
                        1.842389941 0
                                          225.5364075
08 09 2018 01:20
                        2.452980995 0
                                          224.0263977
                  0
08 09 2018 01:30
                  17.30529022 3.612085104 65.55857729 212.1143951
08 09 2018 01:40
                  21.70552063 2.937449932 0
                                                219.5128937
08 09 2018 01:50
                  1.307803035 2.506061077 0
                                                216.9315948
08 09 2018 02:00 0
                     2.412282944 0
                                          213.3442993
08 09 2018 02:10 0
                        3.081289053 19.12988251 202.0742035
```

```
3.21468401 26.55702622 196.8159027
08 09 2018 02:20 0
                        3.455962896 47.22298571 192.6165009
08 09 2018 02:30 0
08 09 2018 02:40
                 15.3961401 3.738725901 83.29650532 196.4544067
08 09 2018 02:50
                 176.1853943 4.616707802 247.1199022 197.3917999
08 09 2018 03:00
                 195.7268982 4.760000229 279.1547347 198.9906006
                  95.49462128 4.193305016 159.7507649 196.8950958
08 09 2018 03:10
08 09 2018 03:20
                  69.22559357 4.016200066 126.0135978 196.1842957
08 09 2018 03:30
                  32.39598846 3.629079103 67.78977278 200.3547974
08 09 2018 03:40
                  25.80371094 3.311696053 33.74662802 209.2086029
                  25.86833954 3.236573935 28.04774403 217.7348938
08 09 2018 03:50
08 09 2018 04:00
                  83.77697754 3.698801994 77.427602
                                                      222.9082947
08 09 2018 04:10
                 312.8862915 5.324765205 419.9743618 219.973999
08 09 2018 04:20
                  133.436203 4.149094105 151.1884219 224.9409027
08 09 2018 04:30
                 46.53652954 3.517765999 54.01504233 214.9472046
08 09 2018 04:40
                  131.0964966 4.218478203 164.6697157 211.8822937
08 09 2018 04:50
                  193.2528992 4.463650227 214.3450651 213.9066925
08 09 2018 05:00
                  220.7044067 4.733377934 273.0996953 212.792099
08 09 2018 05:10
                  34.0387001 3.22279501 27.10044961 216.3345032
08 09 2018 05:20
                  0
                        1.888640046 0
                                          246.4974976
08 09 2018 05:30
                  0
                        0.822934628 0
                                          278.7644043
08 09 2018 05:40
                        1.250231981 0
                                          352.7538147
                  0
08 09 2018 05:50
                  0
                        0.712423325 0
                                          261.9942017
08 09 2018 06:00
                  0
                        1.028190017 0
                                          238.0944061
                                          253.3833008
08 09 2018 06:10
                  0
                        0.525946617 0
08 09 2018 06:20
                  0
                        2.217694998 0
                                          192.9423065
08 09 2018 06:30
                        2.212291002 0
                                          201.2127991
08 09 2018 06:40
                        1.554291964 0
                                          285.6046143
08 09 2018 06:50
                        3.219449997 26.875064 260.8095093
                  0
08 09 2018 07:00
                  0
                        3.152028084 22.71390174 259.8109131
08 09 2018 07:10
                  0
                        2.885834932 0
                                          258.6517944
08 09 2018 07:20
                 0
                        2.194926977 0
                                          238.7164001
08 09 2018 07:30
                 0
                        2.357700109 0
                                          268.9068909
08 09 2018 07:40
                        1.727144957 0
                                          286.5791931
                                          301.7922974
08 09 2018 07:50
                        1.852795005 0
                 0
08 09 2018 08:00
                                          325.3559875
                  0
                        1.562373996 0
08 09 2018 08:10
                  0
                        1.339501023 0
                                          332.6361084
08 09 2018 08:20
                  0
                        1.292485952 0
                                          331.6673889
08 09 2018 08:30
                  0
                        2.230057001 0
                                          349.8385925
08 09 2018 08:40
                        2.841485977 0
                                          350.5163879
08 09 2018 08:50
                        1.330629945 0
                                          311.0613098
08 09 2018 09:00
                  3.596199989 3.301281929 32.90268579 272.6442871
08 09 2018 09:10
                  258.6199951 4.668439865 258.5293863 277.6531067
08 09 2018 09:20
                  860.9765015 6.986320019 1009.842441 294.1677856
08 09 2018 09:30
                  271.5889893 4.638123035 251.8220795 262.7791138
08 09 2018 09:40
                        2.202558041 0
                                          203.6186066
                  0
08 09 2018 09:50
                        1.709717989 0
                                          219.1315002
08 09 2018 10:00
                  0
                        1.801115036 0
                                          220.7100983
08 09 2018 10:10
                                          217.0639038
                  0
                        0.672082186 0
08 09 2018 10:20
                  0
                        1.696439981 0
                                          1.222578049
08 09 2018 10:30
                  0
                        2.773313999 0
                                          7.512570858
08 09 2018 10:40
                  0
                        2.91919589 0
                                          5.961247921
08 09 2018 10:50
                        3.253206968 29.23172449 12.53668976
08 09 2018 11:00
                        2.803812027 0
                                          357.3775024
08 09 2018 11:10
                        3.343374968 36.42050843 355.8364868
                  0
08 09 2018 11:20
                        3.146802902 22.42178024 23.48011971
                  0
08 09 2018 11:30
                  0
                        3.917723894 112.7445363 26.09962082
08 09 2018 11:40
                  154.6381989 4.397112846 200.5337354 18.80636024
08 09 2018 11:50
                  105.2361984 4.12530899 146.6215652 46.88734818
08 09 2018 12:00 186.4210052 4.65787077 256.184297 46.83111954
```

```
08 09 2018 12:10 273.8161926 5.06125021 351.190532 37.43011856
                 178.8484955 4.51450491 225.0762272 46.4416008
08 09 2018 12:20
08 09 2018 12:30
                 416.8970032 5.757956982 546.3583711 49.86146164
08 09 2018 12:40 377.5151978 5.584862232 493.7465734 52.42924881
08 09 2018 12:50 619.5311279 6.357689857 751.4398412 63.91170883
08 09 2018 13:00
                 526.9020996 6.097091198 657.2328498 65.73724365
08 09 2018 13:10
                 588.0635986 6.362720013 753.3302631 66.46523285
                 651.364624 6.53760004 820.7772462 63.92835999
08 09 2018 13:20
08 09 2018 13:30
                 542.9359741 6.141862869 672.8998135 60.73876953
                 582.8978882 6.160346985 679.4304598 63.12535095
08 09 2018 13:40
08 09 2018 13:50
                 619.0922241 6.323576927 738.6920458 65.0463562
08 09 2018 14:00 578.7949829 6.308310986 733.0280738 62.37710953
08 09 2018 14:10 617.135376 6.329870224 741.0343251 56.6333313
08 09 2018 14:20
                 719.2186279 6.657092094 868.8231223 48.74676132
08 09 2018 14:30 642.3956909 6.411763191 771.9059797 50.87591934
08 09 2018 14:40 662.1243286 6.364304066 753.9261478 51.97269058
08 09 2018 14:50
                 766.4699707 6.739548206 902.9302616 54.01924133
08 09 2018 15:00 538.9752197 5.986341
                                       620.3986377 54.12245178
08 09 2018 15:10 918.5485229 7.26967001 1142.156668 62.4656601
                 1107.11499 7.642664909 1332.491643 69.33072662
08 09 2018 15:20
                 1180.194946 7.852941036 1446.940386 70.37734985
08 09 2018 15:30
                 1169.037964 7.777609825 1405.33182 72.18895721
08 09 2018 15:40
                 1298.30603 7.985651016 1521.790346 72.67379761
08 09 2018 15:50
08 09 2018 16:00
                 1078.176025 7.732370853 1380.665151 76.66671753
08 09 2018 16:10
                 979.6522827 7.592444897 1305.965506 77.83650208
08 09 2018 16:20
                 887.1707764 7.068966866 1047.339637 77.90357971
08 09 2018 16:30 573.2404175 5.344318867 425.3102396 76.46439362
08 09 2018 16:40 389.5151062 4.848361015 299.6021433 84.42788696
08 09 2018 16:50 695.5955811 6.783120155 921.2740037 76.92616272
08 09 2018 17:00 872.7258301 7.150380135 1085.146402 76.19138336
08 09 2018 17:10 969.5302124 7.485539913 1250.48204 70.20944214
08 09 2018 17:20
                 1136.812988 7.773735046 1403.209528 74.27612305
08 09 2018 17:30
                 1065.115967 7.714516163 1370.997732 75.99272919
08 09 2018 17:40 942.03302
                             7.255926132 1135.488077 72.55409241
08 09 2018 17:50 991.0703735 7.378553867 1195.938696 71.48610687
08 09 2018 18:00
                 890.7822876 7.189982891 1103.856994 69.50652313
08 09 2018 18:10
                 963.1735229 7.518661022 1267.59037 76.53412628
08 09 2018 18:20
                 862.9672241 7.409574032 1211.576553 78.68921661
08 09 2018 18:30
                 852.1569214 7.172715187 1095.672672 76.72760773
08 09 2018 18:40 699.6533203 6.77774477 918.9988535 75.56667328
08 09 2018 18:50 633.8084717 6.675069809 876.1923684 68.5383606
08 09 2018 19:00 826.8745728 7.081140995 1052.93758 65.74577332
08 09 2018 19:10
                 745.6865845 6.789440155 923.9533485 68.22454071
08 09 2018 19:20
                 730.2213745 6.946391106 992.0374333 71.52380371
08 09 2018 19:30
                 787.4467773 6.981586933 1007.721399 68.91957092
08 09 2018 19:40
                 739.7927856 6.923254013 981.8113563 62.88602829
08 09 2018 19:50
                 743.442627 6.755064964 909.4371582 66.67829895
                 895.3444214 7.323225021 1168.396579 69.7603302
08 09 2018 20:00
08 09 2018 20:10
                 859.0446777 7.059052944 1042.795243 73.85469055
08 09 2018 20:20
                 888.7390137 7.000821114 1016.358478 71.84661102
                 896.9370728 7.075141907 1050.176646 71.69377136
08 09 2018 20:30
08 09 2018 20:40
                 770.0101929 6.880544186 963.108243 65.69116974
08 09 2018 20:50
                 828.7808838 6.954942226 995.833707 63.77362823
08 09 2018 21:00
                 864.5117188 7.098155022 1060.7935
                                                     67.18463135
08 09 2018 21:10
                 903.9094849 7.235321045 1125.539837 65.44193268
08 09 2018 21:20
                 986.5695801 7.306042194 1159.933168 57.76165009
08 09 2018 21:30 817.8234253 7.005712032 1018.56222 59.75714874
08 09 2018 21:40 804.4915771 6.945919991 991.8285469 60.56060028
08 09 2018 21:50 819.3822021 6.984921932 1009.215621 64.48943329
```

```
08 09 2018 22:00 912.7202148 7.259961128 1137.44313 67.91932678
                 1045.687988 7.578147888 1298.473488 68.71346283
08 09 2018 22:10
                 1056.036987 7.573001862 1295.783375 64.87727356
08 09 2018 22:20
08 09 2018 22:30
                 1051.088013 7.593484879 1306.511524 63.16444016
08 09 2018 22:40
                 1137.119995 7.751252174 1390.930441 66.36087799
08 09 2018 22:50
                 1184.623047 7.837483883 1438.349379 67.83512115
08 09 2018 23:00
                 1192 7.851327896 1446.04254 66.2820816
                 1227.744019 7.928300858 1489.208708 67.42941284
08 09 2018 23:10
                 1180.618042 8.013648987 1537.822592 69.9506073
08 09 2018 23:20
                 1228.07605 8.103689194 1589.922563 70.52588654
08 09 2018 23:30
08 09 2018 23:40
                 1281.360962 8.112177849 1594.875799 69.3719635
08 09 2018 23:50
                 1266.102051 8.041415215 1553.801979 69.60243225
09 09 2018 00:00
                 1290.375
                             8.16508007 1625.900587 70.05622864
09 09 2018 00:10
                 1225.786987 7.940529823 1496.12665 70.67495728
09 09 2018 00:20
                 1105.251953 7.540332794 1278.786928 67.50164032
09 09 2018 00:30
                 1073.814941 7.558356762 1288.146633 69.42682648
09 09 2018 00:40
                 1011.53302 7.364499092 1188.900123 69.93386841
09 09 2018 00:50 964.9727783 7.266016006 1140.381143 68.42134857
09 09 2018 01:00 900.3875122 7.185628891 1101.789523 67.83482361
09 09 2018 01:10
                 940.6508789 7.299426079 1156.685649 65.08441162
                 856.7509766 7.120681763 1071.253445 67.63458252
09 09 2018 01:20
                 771.2382813 6.907332897 974.8130927 68.78119659
09 09 2018 01:30
09 09 2018 01:40
                 748.4860229 6.840021133 945.5686965 70.37631226
09 09 2018 01:50
                 806.7642212 6.935834885 987.3635692 64.30709076
09 09 2018 02:00
                 814.6552124 6.957655907 997.0403569 57.10361099
09 09 2018 02:10
                 805.9846802 7.088490009 1056.326198 68.41104126
09 09 2018 02:20
                 775.1721191 6.942362785 990.2522203 76.44525909
09 09 2018 02:30 656.9276733 6.286640167 725.0309991 75.53620148
09 09 2018 02:40 690.2310791 6.513055801 811.1072986 75.4347229
                 594.397583 5.611424923 501.6317695 74.49868774
09 09 2018 02:50
09 09 2018 03:00
                 565.6071777 5.578447819 491.8524805 72.96228027
09 09 2018 03:10
                 483.9695129 5.427220821 448.3052773 72.87082672
09 09 2018 03:20
                 757.0761719 7.099373817 1061.357716 76.78858185
09 09 2018 03:30
                 853.0974121 7.442297935 1228.228795 77.45258331
09 09 2018 03:40 829.0761719 7.467814922 1241.325856 77.10954285
                 830.362793 7.359591961 1186.449464 78.41220856
09 09 2018 03:50
09 09 2018 04:00
                 746.06427
                             6.880199909 962.9583894 75.82495117
                 550.6298828 6.264132977 716.7788893 68.58322144
09 09 2018 04:10
09 09 2018 04:20
                 556.1713867 6.26154089 715.8320209 72.55000305
09 09 2018 04:30
                 461.2506104 5.912219048 595.7723775 76.40268707
09 09 2018 04:40 442.9177856 5.466535091 459.4244402 77.20070648
09 09 2018 04:50 469.2316895 5.842320919 573.0791466 75.29888916
09 09 2018 05:00
                 358.9006042 5.498747826 468.6397619 74.75478363
09 09 2018 05:10 432.7019958 6.154094219 677.2171976 76.60135651
09 09 2018 05:20
                 522.6306763 6.675652981 876.4320392 78.5430069
09 09 2018 05:30
                 428.2940063 6.021151066 631.1488389 77.22527313
09 09 2018 05:40
                 367.1250916 5.465735912 459.1970174 74.1724472
                 221.8072052 4.789223194 285.8570482 76.23121643
09 09 2018 05:50
09 09 2018 06:00 221.6600037 4.225168228 165.9823897 76.02625275
09 09 2018 06:10 87.13417816 3.527705908 55.16447106 77.42603302
09 09 2018 06:20
                 120.8408966 3.972018003 122.690096 70.97902679
09 09 2018 06:30
                 128.2198944 4.246149063 170.1140233 77.71546173
09 09 2018 06:40
                 33.69514847 3.263396025 29.97887006 88.76342773
09 09 2018 06:50
                 11.32448006 2.917606115 0
                                               85.02770233
09 09 2018 07:00
                 44.94807053 3.791924
                                         91.51305771 72.07833862
09 09 2018 07:10
                 114.6772003 4.17747879 156.6745657 49.72050095
09 09 2018 07:20
                 16.69597054 2.97794795 0
                                               58.49662018
09 09 2018 07:30 0.988267481 2.627883911 0
                                               58.90876007
09 09 2018 07:40 9.895821571 2.756803989 0
                                               35.77193069
```

```
09 09 2018 07:50 147.8721008 3.801876068 93.10045247 37.97890091
                 495.417511 5.654909134 514.6859799 28.77718925
09 09 2018 08:00
                 691,2139893 6,262285233 716,1038493 53,25619125
09 09 2018 08:10
09 09 2018 08:20
                 1190.859009 7.631116867 1326.363361 61.77130127
09 09 2018 08:30
                 436.4446106 5.409046173 443.211949 53.67205048
09 09 2018 08:40
                 176.6573944 4.365808964 194.1233294 71.41716766
09 09 2018 08:50
                 184.9770966 4.130982876 147.7084956 85.46511841
09 09 2018 09:00
                 635.2556763 6.197152138 692.5430081 71.06482697
                  724.1132202 6.580107212 837.6837377 73.36353302
09 09 2018 09:10
                  706.0759277 6.573594093 835.080085 74.24742126
09 09 2018 09:20
09 09 2018 09:30
                  653.2791748 6.213768005 698.5102716 74.27295685
09 09 2018 09:40
                 728.8712769 6.529170036 817.4484136 75.87432861
09 09 2018 09:50
                 720.5944824 6.196453094 692.2926091 76.74619293
09 09 2018 10:00
                 775.0236816 6.769536018 915.5310712 73.32644653
09 09 2018 10:10
                 745.1220703 6.646492004 864.4954276 66.64582062
09 09 2018 10:20
                 554.6456299 5.973453999 616.0749876 64.62267303
09 09 2018 10:30
                 553,1373291 6,068931103 647,4885015 61,50811005
09 09 2018 10:40
                 588.159729 6.161858082 679.9659633 63.55820084
09 09 2018 10:50
                 640.7661133 6.296844959 728.7905083 58.57217026
                 287.8859863 4.745730877 275.9032957 55.51586914
09 09 2018 11:00
                 337.9920044 5.133004189 369.3591011 59.26987839
09 09 2018 11:10
                 579.6815186 5.871238232 582.405855 29.19346046
09 09 2018 11:20
09 09 2018 11:30
                  636.0551147 6.03023386 634.23616
                                                      26.7133007
09 09 2018 11:40
                 644.2092896 6.191799164 690.6268938 28.65605927
09 09 2018 11:50
                 620.8920288 6.097741127 657.4587475 36.63798904
09 09 2018 12:00
                 551.1842041 5.966113091 613.6200381 37.85274887
09 09 2018 12:10
                 737.4423218 6.501643181 806.6337994 27.44219017
                 752.1276245 6.598935127 845.2372169 38.07207108
09 09 2018 12:20
09 09 2018 12:30
                 717.1572266 6.526546001 816.4138562 39.44884872
                 689.5255127 6.44285202 783.8174534 45.22518158
09 09 2018 12:40
09 09 2018 12:50
                 995.555603 7.383099079 1198.221129 49.74431992
09 09 2018 13:00
                 929.2515259 7.132798195 1076.907331 51.22045898
09 09 2018 13:10
                 640.02771
                             6.272373199 719.79378
                                                      43.21403885
09 09 2018 13:20
                 818.3937988 6.756138802 909.8885148 38.21619034
                 1074.98999 7.527304173 1272.048235 40.16202164
09 09 2018 13:30
09 09 2018 13:40
                 897.2896729 6.991742134 1012.275739 41.36845016
09 09 2018 13:50
                 789.5524902 6.725503922 897.0651672 40.48553085
09 09 2018 14:00
                 511.9306946 5.806197166 561.5490034 30.11685944
09 09 2018 14:10
                 522.583374 5.934616089 603.152036 30.54813957
                              5.275845051 406.7690184 34.46453857
09 09 2018 14:20
                 337.51651
09 09 2018 14:30
                 464.6480103 5.892859936 589.4362246 43.66365051
09 09 2018 14:40
                 523.550415 5.936138153 603.6554687 40.24686813
                 964.0368042 7.279846191 1147.111303 44.18302155
09 09 2018 14:50
09 09 2018 15:00
                 1149.300049 7.545810223 1281.626747 39.809021
09 09 2018 15:10
                 1171.468018 7.698925972 1362.58829 41.1210289
09 09 2018 15:20
                 854.2532959 7.038125038 1033.244001 47.99592972
09 09 2018 15:30
                 980.3933716 7.418322086 1216.012459 51.08533859
09 09 2018 15:40
                 1285.935059 7.861105919 1451.489337 46.44062042
09 09 2018 15:50
                 1342.199951 7.976193905 1516.393511 45.99990845
                 948.369873 7.162526131 1090.862341 44.04867172
09 09 2018 16:00
09 09 2018 16:10
                 815.4556274 6.844916821 947.677127 42.44702911
09 09 2018 16:20
                 699.0913086 6.636044979 860.2428072 48.40851974
09 09 2018 16:30
                 811.367981 6.789619923 924.0296298 47.83409882
09 09 2018 16:40
                 1010.408997 7.380718231 1197.025178 51.17625046
09 09 2018 16:50
                 1163.360962 7.75056982 1390.558715 50.31771088
09 09 2018 17:00
                 1054.032959 7.365426064 1189.363455 45.73881912
09 09 2018 17:10
                 1082.71106 7.568655014 1293.513747 48.11394882
09 09 2018 17:20
                 1014.630005 7.533723831 1275.365786 57.88787079
09 09 2018 17:30 973.2362061 7.366947174 1190.12403 64.09401703
```

```
09 09 2018 17:40 1008.580017 7.536242008 1276.668637 57.80760956
                 1069.291992 7.640892982 1331.550221 59.76351166
09 09 2018 17:50
09 09 2018 18:00
                 1039.525024 7.530752182 1273.829411 55.09999847
09 09 2018 18:10 978.9006958 7.421611786 1217.683539 62.42316055
09 09 2018 18:20
                 966.0211182 7.409901142 1211.742216 57.96710968
09 09 2018 18:30
                 783.6461792 7.012111187 1021.450138 57.73376083
09 09 2018 18:40
                 555.5311279 6.171020985 683.2183504 52.24103928
09 09 2018 18:50
                 316.5918884 5.293879986 411.6134842 49.83409119
09 09 2018 19:00
                 181.2256927 4.601034164 243.6969596 58.94396973
                 134.5227966 4.303453922 181.5159687 46.51063156
09 09 2018 19:10
09 09 2018 19:20
                 102.4477997 4.118060112 145.2351656 44.32252121
09 09 2018 19:30
                 153.6125031 4.541162014 230.7635091 49.34455872
09 09 2018 19:40
                 121.0884018 4.186066151 158.342169 53.64139175
09 09 2018 19:50 395.7135925 5.627867222 506.5464538 55.55744171
09 09 2018 20:00 497.0032959 5.917459011 597.4941646 56.24356079
09 09 2018 20:10 417.9263916 5.692677021 526.1727947 58.1405983
09 09 2018 20:20
                 314.7464905 5.404866219 442.0447131 66.13236237
09 09 2018 20:30 194.1804047 4.728553772 272.0076115 61.53722
09 09 2018 20:40 126.5582962 4.210048199 163.0188828 40.96649933
09 09 2018 20:50
                 136.6016998 4.276172161 176.0660905 40.16775894
                 174.603302 4.566493988 236.2084431 43.12319183
09 09 2018 21:00
                             4.663488865 257.4299427 41.02518082
09 09 2018 21:10
                 206.4375
                 167.9665985 4.498672009 221.718662 42.0290184
09 09 2018 21:20
09 09 2018 21:30
                 159.4024963 4.586419106 240.5191968 39.60057068
09 09 2018 21:40
                 228.7420044 5.060091019 350.9003438 31.2168293
09 09 2018 21:50 191.1280975 4.678009987 260.6591221 33.41064072
09 09 2018 22:00 159.797699 4.55860281 234.5080376 31.15530968
09 09 2018 22:10 165.7098999 4.55309391 233.3232545 25.86141968
09 09 2018 22:20
                 159.1329956 4.518799782 225.9896169 29.14994049
                 172.613205 4.545670986 231.7297882 32.19528961
09 09 2018 22:30
09 09 2018 22:40
                 151.3274994 4.42006588 205.2693109 27.15649033
09 09 2018 22:50
                 170.5480042 4.61709404 247.2044494 19.62903976
09 09 2018 23:00
                 179,7068939 4,633008003 250,6962898 15,88327026
09 09 2018 23:10
                 238.9790039 4.96553421 327.5774221 10.60239029
09 09 2018 23:20 2417.649902 10.33216953 2981.930503 2.690937996
                 2999.64209 10.89340973 3233.495671 10.89595032
09 09 2018 23:30
09 09 2018 23:40
                 3284.478027 11.76943016 3481.45316 21.85580063
09 09 2018 23:50
                 1593.973022 8.438191414 1790.01872 26.3235302
10 09 2018 00:00 2075.705078 9.26418972 2315.503246 33.29605103
10 09 2018 00:10
                 1826.907959 8.793290138 2011.68179 32.37007141
                 1648.930054 8.33729744 1728.660268 38.33395004
10 09 2018 00:20
10 09 2018 00:30 713.2996826 6.463274002 791.699791 44.26100922
10 09 2018 00:40
                 775.109375 6.709042072 890.2197684 40.31692886
10 09 2018 00:50
                 772.8325806 6.723182201 896.0978038 47.63803101
10 09 2018 01:00
                 448.9881897 5.935204983 603.3467874 64.86795044
10 09 2018 01:10
                 277.0078125 5.203866959 387.7075145 59.89006042
                 211.2667999 4.826085091 294.3958116 59.67124939
10 09 2018 01:20
                 75.36100769 3.922918081 113.6756014 70.25888824
10 09 2018 01:30
10 09 2018 01:40
                 2.109930992 2.403568029 0
                                               81.01026917
10 09 2018 01:50
                 0
                       1.972237945 0
                                         18.4629097
10 09 2018 02:00
                 0
                       2.746046066 0
                                         34.79740906
10 09 2018 02:10
                 0
                       3.366843939 38.50496408 53.5223999
10 09 2018 02:20
                       1.812458992 0
                                         85.01804352
10 09 2018 02:30
                       2.542423964 0
                 0
                                         343.6617126
10 09 2018 02:40
                       3.263696909 30.00118587 351.2142944
                 0
10 09 2018 02:50
                 0
                       2.591665983 0
                                         6.888875008
10 09 2018 03:00
                 0
                       2.419151068 0
                                         46.94675827
                       2.805361032 0
10 09 2018 03:10 0
                                         26.06565094
10 09 2018 03:20 33.07915878 3.870207071 104.427454 358.4780884
```

```
10 09 2018 03:30 72.41676331 4.013397217 125.4913692 358.7550964
                 128.0113983 4.33031702 186.9212718 0.098740347
10 09 2018 03:40
                 306,9448853 5,106232166 362,53256
10 09 2018 03:50
                                                      344.4529114
10 09 2018 04:00
                 277.0466003 5.089857101 358.3852061 341.7869873
10 09 2018 04:10
                 235.8769073 4.831421852 295.6399231 343.3322144
10 09 2018 04:20
                 150.0868073 4.313255787 183.4837435 345.4266052
10 09 2018 04:30
                 214.7622986 4.742920876 275.2646354 341.6431885
                 301.305603 5.25198698 400.402729 344.8635864
10 09 2018 04:40
10 09 2018 04:50
                  308.9415894 5.198411942 386.280476 340.4789124
10 09 2018 05:00
                  453.0495911 5.800365925 559.7002535 337.2430115
10 09 2018 05:10
                 589.8123169 6.3148489
                                       735.4506866 339.6391907
10 09 2018 05:20
                 595.9692993 6.329960823 741.0680762 347.9223022
10 09 2018 05:30
                 423.4393005 5.772202015 550.8196356 355.5349121
10 09 2018 05:40
                 192.9429016 4.411163807 203.4291005 1.303977013
10 09 2018 05:50
                 81.14653015 3.850815058 101.1369828 12.65240955
10 09 2018 06:00
                 37.74460983 3.401740074 41.76728935 17.21434975
10 09 2018 06:10
                 101.2768021 3.818346024 95.7622899 1.136831045
10 09 2018 06:20
                 236.9060974 4.766279221 280.5898785 354.7998962
                 176.1560059 4.429423809 207.2086628 353.3482971
10 09 2018 06:30
                 156.758606 4.212489128 163.4965141 351.8750916
10 09 2018 06:40
10 09 2018 06:50
                 200.5527039 4.604118824 244.3693822 356.5158997
                 317.767395 5.116454124 365.1322857 3.084191084
10 09 2018 07:00
10 09 2018 07:10
                  344.5560913 5.320313931 418.7643052 11.1947403
10 09 2018 07:20
                 205.4355011 4.696990967 264.9009799 7.630582809
10 09 2018 07:30
                 231.1358948 4.767837048 280.9463577 5.306840897
10 09 2018 07:40
                 843.8834839 6.852105141 950.7781738 357.3337097
10 09 2018 07:50 387.1034851 5.392120838 438.4952006 9.963265419
10 09 2018 08:00
                453.3181152 5.592327118 495.9557644 18.6115799
                 428.3595886 5.553236961 484.4456397 11.63455963
10 09 2018 08:10
                 445.1279907 5.623048782 505.1035137 11.60785007
10 09 2018 08:20
                 287.2376099 5.042473793 346.5029638 13.62672043
10 09 2018 08:30
10 09 2018 08:40
                 51.90724182 3.325100899 34.85847631 358.049408
10 09 2018 08:50
                 378,4009094 5,420887947 446,5271774 358,4501953
10 09 2018 09:00
                 617.9202881 6.270242214 719.0134052 3.75880599
                             5.167091846 378.1343717 11.05053043
10 09 2018 09:10
                 318.48349
                  302.7893066 5.096003056 359.9393204 14.48381042
10 09 2018 09:20
10 09 2018 09:30
                  534.1223145 5.927492142 600.7990038 13.7179203
                  388.0462036 5.581074238 492.6275573 9.953138351
10 09 2018 09:40
10 09 2018 09:50
                 451.1000061 5.747686863 543.1545981 12.22297955
10 09 2018 10:00
                 562.6118164 6.080833912 651.5969405 10.19756985
10 09 2018 10:10
                 339.7858887 5.373332977 433.2891045 11.74787045
                 451.4655151 5.750360966 543.9877706 14.54734993
10 09 2018 10:20
10 09 2018 10:30
                 258.6903076 4.93009901 319.0111035 9.939866066
10 09 2018 10:40
                 380.7774963 5.462574005 458.2978009 11.78221035
10 09 2018 10:50
                 382.3807068 5.513589859 472.9177739 10.96708012
10 09 2018 11:00
                  463.3374023 5.796816826 558.5767312 7.871480942
10 09 2018 11:10
                  368.9100952 5.335316181 422.8494339 9.002241135
10 09 2018 11:20
                  366.7167969 5.432284832 449.7297019 10.60568047
10 09 2018 11:30
                  348.7510071 5.405650139 442.2635013 13.78789997
10 09 2018 11:40
                  217.4848938 4.705152988 266.7323554 7.31183815
10 09 2018 11:50
                  331.4721985 5.228232861 394.1117168 14.76585007
10 09 2018 12:00
                  362.5256042 5.419191837 446.0515652 10.79975986
10 09 2018 12:10
                  372.0668945 5.479485989 463.1179919 9.003940582
10 09 2018 12:20
                 483.0409851 5.869410992 581.8139518 13.56422997
10 09 2018 12:30
                 470.7041931 5.810747147 562.9939431 14.30385971
10 09 2018 12:40
                 423.3692932 5.680427074 522.4318069 11.77033997
10 09 2018 12:50
                 438.4117126 5.679386139 522.1145947 11.33471012
10 09 2018 13:00 480.6791077 5.885677814 587.0955272 15.03684998
10 09 2018 13:10 512.614624 5.981204987 618.6733436 13.05253983
```

```
10 09 2018 13:20 525.9313965 5.953567982 609.4380274 12.23532009
                 680.2349243 6.372818947 757.1339289 13.09428024
10 09 2018 13:30
                 790.192627 6.726650238 897.5430213 10.5004797
10 09 2018 13:40
10 09 2018 13:50
                 931.6392822 6.909244061 975.6515094 11.40445042
10 09 2018 14:00
                 910.7073975 6.996071815 1014.221455 8.926861763
10 09 2018 14:10
                 959.5822144 7.215272903 1115.917014 10.21743011
10 09 2018 14:20
                 1015.817017 7.394413948 1203.916263 11.91884995
                 1074.767944 7.497148991 1256.505134 14.02904987
10 09 2018 14:30
10 09 2018 14:40
                 1101.094971 7.501204967 1258.617837 12.47926044
                 1078.493042 7.533399105 1275.197842 15.18000984
10 09 2018 14:50
10 09 2018 15:00
                 901.6165161 7.079353809 1052.11458 19.4899292
10 09 2018 15:10
                 840.9315796 6.851933956 950.704252 20.0156498
10 09 2018 15:20
                 944.8024292 7.037473202 1032.947418 19.52959061
10 09 2018 15:30
                 753.4956055 6.632492065 858.7993806 22.89904976
10 09 2018 15:40 848.9614258 6.981022835 1007.468798 26.37708092
10 09 2018 15:50 920.1276245 7.228247166 1122.138134 26.63569069
10 09 2018 16:00
                 950.6384888 7.191496849 1104.576493 26.64010048
10 09 2018 16:10
                 854.9616699 6.973221779 1003.979626 29.49193001
10 09 2018 16:20 915.1417236 7.079864025 1052.349492 31.06019974
                 845.711792 6.954154015 995.4833978 34.00508881
10 09 2018 16:30
                 813.9387207 6.838280201 944.8196242 36.56880951
10 09 2018 16:40
                 1065.358032 7.51829195 1267.400238 43.08441925
10 09 2018 16:50
10 09 2018 17:00
                 1010.369995 7.272150993 1143.363278 44.28823853
10 09 2018 17:10
                 788.0665283 6.89978981 971.5083703 49.29935074
10 09 2018 17:20
                 798.8356934 6.837170124 944.3421813 52.12932968
10 09 2018 17:30
                 759.0134277 6.732491016 899.9801947 52.04270172
10 09 2018 17:40 867.8192749 7.141057014 1080.772348 57.51438904
10 09 2018 17:50 997.9215698 7.335536957 1174.486909 58.06389999
                 906.9719849 7.26967001 1142.156668 60.93117142
10 09 2018 18:00
                 757.3065796 6.809978008 932.6931196 60.51060104
10 09 2018 18:10
                 590.2186279 6.244891167 709.7672408 52.36885071
10 09 2018 18:20
10 09 2018 18:30
                 521.7838745 6.094512939 656.3371616 51.00360107
10 09 2018 18:40
                 442.3042908 5.86474514 580.3041012 52.52991104
10 09 2018 18:50
                 391.7427063 5.564010143 487.6034366 49.88114929
                 349.3723145 5.504591942 470.3218243 39.59576035
10 09 2018 19:00
                 290.1028137 5.158692837 375.9634667 48.23685074
10 09 2018 19:10
10 09 2018 19:20
                 282.3037109 5.062366962 351.4701953 44.239151
                 391.3045044 5.752799988 544.7483225 42.62868118
10 09 2018 19:30
10 09 2018 19:40
                 277.137207 5.18521595 382.838514 43.50067902
                 189.4716034 4.760378838 279.2411941 42.67673111
10 09 2018 19:50
10 09 2018 20:00
                 127.8622971 4.322062016 185.2560647 41.53908157
                 109.3337021 4.115604877 144.7661543 45.33158875
10 09 2018 20:10
10 09 2018 20:20
                 57.12495041 3.915688992 112.3809541 35.79700089
10 09 2018 20:30
                 41.0041008 3.795694113 92.1125413 32.99338913
10 09 2018 20:40
                 19.95321083 3.574863911 60.83312641 27.3635006
10 09 2018 20:50
                 34.98950958 3.673858881 73.89034751 27.8152504
10 09 2018 21:00
                 74.03955078 4.086163998 139.1644699 24.72080994
                 99.03204346 4.21809721 164.5950285 23.62245941
10 09 2018 21:10
                 96.3036499 4.200809002 161.2137265 26.48484993
10 09 2018 21:20
10 09 2018 21:30
                 72.00299072 4.010042191 124.8667174 30.32058907
10 09 2018 21:40
                 77.82199097 3.956425905 119.7856699 36.01372147
10 09 2018 21:50
                 118.7360001 4.32062006 184.9655723 32.92444992
10 09 2018 22:00
                 115.4981995 4.249752045 170.8258267 30.45428085
10 09 2018 22:10
                 101.231102 4.157623768 152.8328575 29.29943085
10 09 2018 22:20
                 68.66609192 3.992541075 126.5723372 29.37198067
10 09 2018 22:30
                 15.28707981 3.304197073 33.13717507 33.45541
10 09 2018 22:40
                 0.016000019 2.55717206 0
                                               40.96617126
10 09 2018 22:50 0
                       3.226860046 27.37675994 45.50032043
10 09 2018 23:00 0
                       3.851699114 101.2856821 40.46646881
```

```
192.2830048 4.748405933 276.5117834 36.71709824
10 09 2018 23:10
10 09 2018 23:20
                  199.3370972 4.807666779 290.1174936 33.58089066
10 09 2018 23:30
                   239.8126068 5.004820824 337.1848001 31.94326973
10 09 2018 23:40
                  135.7230072 4.454833984 212.5002896 32.82117081
10 09 2018 23:50
                   37.06296158 3.633352041 68.35804997 34.85927963
11 09 2018 00:00
                   0.4983311
                               2.440850019 0
                                                  46.971241
11 09 2018 00:10
                   0
                         2.332932949 0
                                            38.24626923
11 09 2018 00:20
                   0
                         2.554059029 0
                                            22.05006027
11 09 2018 00:30
                   0
                         2.123193979 0
                                           45.13499069
11 09 2018 00:40
                   0
                         2.287918091 0
                                           21.51421928
11 09 2018 00:50
                   0
                         2.328322887 0
                                           6.201204777
11 09 2018 01:00
                         1.032647014 0
                                           34.97352982
11 09 2018 01:10
                         1.257673979 0
                                           66.41182709
11 09 2018 01:20
                   0
                         1.589172006 0
                                           82.50849152
11 09 2018 01:30
                         1.121731043 0
                                           54.76356888
                   0
11 09 2018 01:40
                   0
                         1.279561043 0
                                            1.678722978
11 09 2018 01:50
                  0
                         1.493335962 0
                                            356.952301
11 09 2018 02:00
                  0
                         1.445207953 0
                                           49.3162384
11 09 2018 02:10
                   0
                         2.553066015 0
                                            56.00001144
11 09 2018 02:20
                   0
                         2.228781939 0
                                            60.60327148
11 09 2018 02:30
                         1.850983977 0
                                            41.66436005
                   0
11 09 2018 02:40
                                            23.34209061
                   0
                         2.358305931 0
11 09 2018 02:50
                         1.62967205
                                           41.36631012
11 09 2018 03:00
                  0
                         1.82375598
                                     Θ
                                           64.61353302
11 09 2018 03:10
                         1.29636097
                                           57.42514038
11 09 2018 03:20
                         1.624758005 0
                                           40.87459946
11 09 2018 03:30
                         2.011185884 0
                                           43.3768692
11 09 2018 03:40
                         2.233036041 0
                                            28.99817085
                   0
11 09 2018 03:50
                   0
                         1.675825
                                     0
                                            24.78083992
11 09 2018 04:00
                  0
                         1.696930051 0
                                            345.055603
11 09 2018 04:10
                  0
                         2.913091898 0
                                            318.2432861
11 09 2018 04:20
                   0
                         2.465898991 0
                                            328.4559021
11 09 2018 04:30
                         1.63736701 0
                                            329.5520935
11 09 2018 04:40
                         3.210422993 26.27576264 331.4812012
                   0
                   4.67013216 3.760392904 86.58836245 325.2495117
11 09 2018 04:50
                   45.35100937 3.781744003 89.90570304 322.6081848
11 09 2018 05:00
                   23.99777031 3.474342108 49.17898227 322.2312012
11 09 2018 05:10
11 09 2018 05:20
                   0.542731822 2.814285994 0
                                                  332.3139038
11 09 2018 05:30
                         2.551213026 0
                                            334.8612976
11 09 2018 05:40
                         1.500452995 0
                                            320.4205933
11 09 2018 05:50
                         1.949293017 0
                                           307.9240112
                   0
11 09 2018 06:00
                   0
                         2.31547308
                                     0
                                            289.7706909
11 09 2018 06:10
                   0
                         1.592494011 0
                                            280.4324036
                                            267.7698059
11 09 2018 06:20
                  0
                         1.044108987 0
11 09 2018 06:30
                   0
                         1.968364954 0
                                            285.1369934
11 09 2018 06:40
                         1.879080057 0
                                            277.9464111
11 09 2018 06:50
                   0
                         2.125291109 0
                                           289.6936035
                                           292.5239868
11 09 2018 07:00
                   0
                         1.889379025 0
11 09 2018 07:10
                   0
                         1.746462941 0
                                            303.2185974
11 09 2018 07:20
                   0
                         1.547958016 0
                                            311.6108093
11 09 2018 07:30
                   0
                         1.668125987 0
                                            307.7373047
11 09 2018 07:40
                         1.655748963 0
                                            324.4755859
11 09 2018 07:50
                         1.505403996 0
                                            323.509491
11 09 2018 08:00
                         1.926141024 0
                                           306.0744019
                   0
11 09 2018 08:10
                   0
                         1.842090011 0
                                           320.6206055
11 09 2018 08:20
                   0
                         2.387849092 0
                                            310.1944885
11 09 2018 08:30
                  0
                         2.502096891 0
                                            310.4111938
11 09 2018 08:40
                   0
                         2.250582933 0
                                            305.6549072
11 09 2018 08:50
                         1.846760035 0
                                            319.9938965
```

```
11 09 2018 09:00 0
                       1.688825011 0
                                         308.4909058
11 09 2018 09:10 0
                       1.590620995 0
                                         316.0834961
11 09 2018 09:20 0
                       2.134282112 0
                                         288.8211975
11 09 2018 09:30 0
                       2.592344999 0
                                         277.3641968
11 09 2018 09:40 0
                       3.312077999 33.77791017 264.9630127
11 09 2018 09:50 5.784397125 3.014533043 16.48195412 267.2533875
11 09 2018 10:00 12.18768024 3.244162083 28.58239645 251.8836975
                 1.967998028 2.344309092 0
11 09 2018 10:10
                                               248.7792969
11 09 2018 10:20 0
                       2.896542072 0
                                         302,2084045
11 09 2018 10:30 14.23604012 3.717813015 80.19045844 294.4529114
11 09 2018 10:40
                 119.7310028 4.150790215 151.515132 304.1636047
11 09 2018 10:50 29.64978027 3.299599886 32.76800368 307.8905029
11 09 2018 11:00 7.114796162 2.791949034 0
                                               314.7250977
11 09 2018 11:10 0
                       1.818552017 0
                                         318.9896851
11 09 2018 11:20 0
                       3.136985064 21.88471464 344.8211975
11 09 2018 11:30 0
                       4.087666988 139.4494537 357.0882874
11 09 2018 11:40 418.8234863 5.554563046 484.833749 16.5846405
11 09 2018 11:50 196.5379028 4.55204916 233.0987745 61.56681061
11 09 2018 12:00 85.39362335 2.605878115 0
                                              76.99359894
11 09 2018 12:10 543.1851807 6.182849884 687.4303249 57.05056
11 09 2018 12:20 637.1171265 6.340373993 744.9532396 59.42316055
11 09 2018 12:30 514.9592285 6.000579834 624.1891153 68.70870209
11 09 2018 12:40 431.5664063 5.550430775 483.6248872 62.51705933
11 09 2018 12:50 747.9268799 6.212285995 697.9768345 37.70650864
11 09 2018 13:00 1013.185974 7.141744137 1081.094323 44.01988983
11 09 2018 13:10 823.5274048 6.702194214 887.3814794 57.81708908
11 09 2018 13:20 944.0443115 7.219040871 1117.721352 69.92575836
11 09 2018 13:30 595.8616943 6.164145947 680.777203 63.36257935
11 09 2018 13:40 200.5258026 4.662956238 257.3117602 57.42510986
11 09 2018 13:50 0.017599991 1.534468055 0
                                             38.80339813
11 09 2018 14:00 0
                       2.612322092 0
                                         306.8634949
11 09 2018 14:10 0
                       3.05902195 18.16738964 294.0906982
11 09 2018 14:20 122.7481003 5.270712852 405.3954808 298.4093933
11 09 2018 14:30 452.3375854 5.722177029 535.2423122 298.2015076
11 09 2018 14:40 547.9813232 6.128992081 668.373994 288.1737976
11 09 2018 14:50 426.2341919 5.686741829 524.3584217 295.1229858
11 09 2018 15:00 183.596405 4.50889492 223.8848314 303.1412964
11 09 2018 15:10 98.78958893 3.968523979 122.0358632 310.7643127
11 09 2018 15:20 77.12513733 4.05608511 133.4832408 336.5368958
11 09 2018 15:30 10.17928028 2.945138931 0
                                               350.5513916
11 09 2018 15:40 0
                       3.141155005 22.11093897 19.07663918
11 09 2018 15:50 109.3932037 4.451759815 211.858099 43.13095093
11 09 2018 16:00 241.3482056 4.81160593 291.0305052 54.15282822
11 09 2018 16:10 437.7943115 5.83493185 570.7097894 47.88702011
11 09 2018 16:20 471.8804932 5.86823082 581.4318395 40.43931961
11 09 2018 16:30 540.1168823 6.075815201 649.8628091 38.99589157
11 09 2018 16:40 377.1141968 5.507902145 471.2759679 43.87493896
11 09 2018 16:50 438.7184143 5.871988773 582.6490806 38.11832809
11 09 2018 17:00 425.1756897 5.749636173 543.7618758 33.70512009
11 09 2018 17:10 437.916687 5.896914959 590.7601634 33.86238098
11 09 2018 17:20 368.2679138 5.451038837 455.0249979 35.25041962
11 09 2018 17:30 350.7710876 5.345458984 425.6223835 37.35314941
11 09 2018 17:40 449.6062012 5.890473843 588.6579845 43.31156921
11 09 2018 17:50 690.2349243 6.638679028 861.3138607 43.89221954
11 09 2018 18:00 1089.187012 7.742566109 1386.202714 44.28541183
11 09 2018 18:10 991.4672241 7.319552898 1166.584317 42.10116959
11 09 2018 18:20 764.2354736 6.684299946 879.9903542 38.66830063
11 09 2018 18:30 502.6181946 5.916497231 597.1779188 36.79988098
11 09 2018 18:40 454.0668945 5.827196121 568.235282 44.3984108
```

```
11 09 2018 18:50 655.4910889 6.402307987 768.304279 49.42647934
                  762.9298706 6.620158195 853.7997221 45.13700867
11 09 2018 19:00
                  629.7747803 6.321854115 738.0515858 42.66032028
11 09 2018 19:10
11 09 2018 19:20
                  606.9937134 6.343299866 746.0470006 43.49993134
11 09 2018 19:30
                  495.45401
                              5.861835957 579.3638438 40.63785934
11 09 2018 19:40
                  463.1333008 5.787296772 555.5693207 43.11745071
11 09 2018 19:50
                  376.515686 5.49275589 466.9184148 47.66173935
                  414.4979858 5.720284939 534.658026 47.4472084
11 09 2018 20:00
11 09 2018 20:10
                  431.3695068 5.766934872 549.1676935 49.85937119
                  432.8294067 5.743567944 541.8726606 49.00875092
11 09 2018 20:20
11 09 2018 20:30
                  424.1120911 5.561649799 486.9106485 47.97557068
11 09 2018 20:40
                 439.3528137 5.667063236 518.3673821 47.57740021
11 09 2018 20:50
                  398.6500854 5.585756779 494.0110308 45.32080078
11 09 2018 21:00
                458.7254028 5.772983074 551.0648382 46.96025085
11 09 2018 21:10 501.7298889 5.913312912 596.1315691 47.26055908
11 09 2018 21:20 433.8898926 5.666605949 518.2286128 50.56975937
                  546.206604 6.077297211 650.3746127 49.21665955
11 09 2018 21:30
11 09 2018 21:40
                  722.3538208 6.691195011 882.8339325 44.49689102
11 09 2018 21:50
                  707.0062866 6.565296173 831.7698674 44.01950836
                  631.6192017 6.278436184 722.0167432 41.39820862
11 09 2018 22:00
11 09 2018 22:10
                  612.8375854 6.211568832 697.7187822 43.04969025
                  662.763916 6.460884094 790.7749769 46.22969818
11 09 2018 22:20
                  716.005188 6.594480038 843.4462827 46.92055893
11 09 2018 22:30
11 09 2018 22:40
                  786.3759766 6.697535038 885.4534629 44.74217987
11 09 2018 22:50
                  637.1793213 6.225218773 702.6398221 47.31081009
11 09 2018 23:00
                  447.0353088 5.776936054 552.3067636 51.32666016
11 09 2018 23:10 403.428894 5.600811005 498.472948 44.97986984
11 09 2018 23:20 462.7052002 5.867609024 581.2305747 42.25310135
11 09 2018 23:30 609.8723755 6.309552193 733.4876457 43.53794098
                449.4177856 5.789995193 556.4208267 49.49443054
11 09 2018 23:40
                  391.3709106 5.672282219 519.9525896 49.78604126
11 09 2018 23:50
12 09 2018 00:00
                  380.7150879 5.63441515 508.5108868 51.73274994
12 09 2018 00:10
                  338.5104065 5.44931221 454.5361491 58.72967911
                  232.9391022 4.902832031 312.4825518 56.5904007
12 09 2018 00:20
                  159.8871002 4.466520786 214.9467081 57.9768219
12 09 2018 00:30
                  162.3325958 4.40495491 202.1482983 60.8198204
12 09 2018 00:40
                  169.3645935 4.51978302 226.1988792 61.74443054
12 09 2018 00:50
                  114.7468033 4.087491989 139.4162664 64.86258698
12 09 2018 01:00
12 09 2018 01:10
                  35.94166946 3.418926954 43.44564598 66.20153046
12 09 2018 01:20
                  0.01006667 2.41119194 0
                                                50.33705902
12 09 2018 01:30
                  0
                        2.326438904 0
                                          32.42715836
12 09 2018 01:40
                                          35.25925064
                  0
                        2.324326038 0
12 09 2018 01:50
                        2.644876003 0
                                          27.15909958
                  0
12 09 2018 02:00
                  0
                        2.743714094 0
                                          33.08694077
12 09 2018 02:10
                  0
                        2.756774902 0
                                          40.88479996
12 09 2018 02:20
                  0
                        2.828172922 0
                                          45.20748138
12 09 2018 02:30
                  0
                        3.082504034 19.18468234 52.50476837
12 09 2018 02:40
                                          44.22426987
                  0
                        2.380964041 0
12 09 2018 02:50
                  0
                        2.50889802 0
                                          48.17136002
12 09 2018 03:00
                  0
                        2.731961966 0
                                          50.97198868
12 09 2018 03:10
                  0
                        2.835150957 0
                                          61.59059143
12 09 2018 03:20
                        2.623109102 0
                                          65.9611969
12 09 2018 03:30
                        2.525810003 0
                                          61.03871918
12 09 2018 03:40
                        2.228770971 0
                                          57.03598022
                  0
12 09 2018 03:50
                                          51.5363884
                  0
                        2.628350019 0
12 09 2018 04:00
                  0
                        2.733907938 0
                                          54.73514175
12 09 2018 04:10
                  0
                        2.62233901 0
                                          49.29032135
12 09 2018 04:20
                  0
                        2.723258018 0
                                          32.92488098
12 09 2018 04:30 0
                      2.442239046 0
                                          31.33917999
```

```
12 09 2018 04:40 0
                        2.285615921 0
                                          39.0172081
12 09 2018 04:50 0
                        2.099097013 0
                                          36.87887955
12 09 2018 05:00 0
                        2.008009911 0
                                          44.46292114
12 09 2018 05:10 0
                        2.021307945 0
                                         49.7808609
12 09 2018 05:20 0
                        1.927544951 0
                                          46.33374023
12 09 2018 05:30 0
                        1.865550041 0
                                          34.93918991
12 09 2018 05:40 0
                        2.658932924 0
                                          26.77747917
12 09 2018 05:50 11.66551971 3.55644989 58.5773149 23.6692791
12 09 2018 06:00 100.8407974 3.929919004 114.9373565 27.02712059
12 09 2018 06:10
                  202.3686066 4.540106773 230.5375496 26.32382965
12 09 2018 06:20 275.2626038 4.956091881 325.285644 24.0063591
12 09 2018 06:30 19.06122971 3.071059942 18.67787938 33.17333984
12 09 2018 06:40 0
                        2.35789609 0
                                          46.01251984
12 09 2018 06:50 0
                        2.024363995 0
                                          46.75645065
12 09 2018 07:00 0
                        2.860749006 0
                                          24.20208931
12 09 2018 07:10 0
                        3.462641001 47.92744767 20.34090996
12 09 2018 07:20 155.0818024 4.353271961 191.5713673 26.78812981
12 09 2018 07:30 99.94654846 3.837564945 98.92328124 31.68120956
12 09 2018 07:40 0.467200488 2.552741051 0 50.26568985
12 09 2018 07:50 0
                        2.413000107 0
                                         49.31517029
12 09 2018 08:00 0
                        2.654918909 0
                                          50.82651901
                                       35.11672974
28.69581985
25.77551079
27.31888008
43.77354813
12 09 2018 08:10 0
                        2.508568048 0
12 09 2018 08:20 0
                        2.457205057 0
12 09 2018 08:30 0
                       2.920521021 0
12 09 2018 08:40 0
                        2.629266977 0
12 09 2018 08:50 0
                      2.45598197 0
12 09 2018 09:00 0
                       2.783489943 0
                                        46.44107056
12 09 2018 09:10 0
                                          52.37693024
                        2.080598116 0
12 09 2018 09:20 0
                        2.457041979 0
                                          48.92609024
12 09 2018 09:30 0
                        2.255156994 0
                                          41.99003983
12 09 2018 09:40 0
                        2.765022993 0
                                          18.35095024
                        3.077501059 18.960547 13.98418999
12 09 2018 09:50 0
12 09 2018 10:00 0
                        2.740406036 0
                                          25.41441917
12 09 2018 10:10 12.48254013 4.033042908 129.1591573 8.539802551
12 09 2018 10:20 104.7451019 3.921901941 113.4931173 21.30911064
12 09 2018 10:30 112.5765991 4.027441025 128.1115417 27.48090935
12 09 2018 10:40 64.73908997 3.713042021 79.49165854 28.01758957
12 09 2018 10:50 178.5326996 4.254973888 171.8586503 19.97430992
12 09 2018 11:00 171.1239014 4.406164169 202.3975779 20.58418083
12 09 2018 11:10 124.0814972 4.057672977 133.78211
                                                      18.7156105
12 09 2018 11:20 238.9633942 4.764120102 280.0960799 18.07683945
12 09 2018 11:30 182.6838074 4.377953053 196.6036599 15.78118992
12 09 2018 11:40 208.0702972 4.599339008 243.32769 15.23670959
12 09 2018 11:50 210.1291962 4.682220936 261.5981316 17.43236923
12 09 2018 12:00 211.3562927 4.586671829 240.5740325 17.51540947
12 09 2018 12:10 278.1321106 4.806815147 289.9202462 19.03742027
12 09 2018 12:20 259.4179077 4.861503124 302.6902546 13.89484978
12 09 2018 12:30 166.3374939 4.35389185 191.6973435 17.9719696
12 09 2018 12:40 147.7669067 4.192864895 159.6650477 22.32786942
12 09 2018 12:50 120.0238037 4.06759119 135.6515415 23.65822029 12 09 2018 13:00 107.7572021 3.99612689 127.257563 16.30270958
12 09 2018 13:10 126.6505966 4.151043892 151.5640082 11.42819977
12 09 2018 13:20 165.7039032 4.342788219 189.4440319 11.9588604
12 09 2018 13:30 135.607605 4.180263996 157.2150301 16.98628044
12 09 2018 13:40 121.4571991 4.088818073 139.6677837 28.07423973
12 09 2018 13:50 199.1600952 4.478970051 217.5615889 18.72780991
12 09 2018 14:00 200.3269043 4.587158203 240.6795767 29.51277924
12 09 2018 14:10 216.4958954 4.461111069 213.8132851 33.08819962
12 09 2018 14:20 208.280304 4.534211159 229.2763721 25.6206398
```

```
12 09 2018 14:30 307.6791077 5.07990694 355.8754433 28.60479927
12 09 2018 14:40 339.6589966 5.304152012 414.385116 29.93556976
12 09 2018 14:50
                 334.8595886 5.215470791 390.7512643 26.2774601
12 09 2018 15:00 399.1364136 5.625230789 505.756666 21.25386047
12 09 2018 15:10 380.9525146 5.518651009 474.3812312 21.81078911
12 09 2018 15:20 425.7857056 5.643359184 511.2008455 21.06324005
12 09 2018 15:30 426.9064026 5.626605988 506.1685465 15.14235973
                 324.5155945 5.182972908 382.2548732 29.23638916
12 09 2018 15:40
12 09 2018 15:50 851.0977173 6.887248993 966.0295397 31.33377075
                 951.5031128 7.134636879 1077.767023 37.7156105
12 09 2018 16:00
12 09 2018 16:10
                 898.4672852 6.815155029 934.9041157 46.54203033
12 09 2018 16:20 1117.176025 7.489123821 1252.339246 47.38634872
12 09 2018 16:30 1075.637939 7.322339058 1167.959162 44.92438889
12 09 2018 16:40 1055.437988 7.201830864 1109.496023 47.94321823
12 09 2018 16:50 1166.097046 7.54352808 1280.443065 47.25479126
12 09 2018 17:00 1370.73999 8.006070137 1533.47474 48.18817902
12 09 2018 17:10 1236.770996 7.761935234 1396.757512 50.70534897
12 09 2018 17:20 1179.952026 7.567090034 1292.697229 57.56732178
12 09 2018 17:30 1632.946045 8.72807312 1970.383475 62.91421127
12 09 2018 17:40 1636.057007 8.53694725 1850.826128 66.09953308
12 09 2018 17:50 1636.968994 8.726195335 1969.19791 68.85852814
12 09 2018 18:00 1769.920044 8.910956383 2086.753997 68.83779907
12 09 2018 18:10
                 1837.022949 8.959877968 2118.158645 69.58603668
12 09 2018 18:20
                 1740.098999 8.80125618 2016.742114 68.90718079
12 09 2018 18:30 1422.156982 8.017045975 1539.773308 71.04644775
12 09 2018 18:40 2166.248047 9.872512817 2710.252064 72.63580322
12 09 2018 18:50 2012.678955 9.514485359 2451.325916 73.48706818
12 09 2018 19:00 1975.651978 9.332695961 2360.288352 74.7574234
12 09 2018 19:10 2568.61499 10.71323967 3161.512642 72.94743347
12 09 2018 19:20 2769.837891 11.33304977 3377.780626 73.45094299
12 09 2018 19:30 2580.356934 10.99736023 3271.509185 77.18253326
12 09 2018 19:40 2649.645996 11.10101986 3306.954917 75.78968048
12 09 2018 19:50 2817.227051 11.61538029 3449.03984 78.22421265
12 09 2018 20:00 2815.308105 11.5489502 3433.682368 76.96405792
12 09 2018 20:10 2959.718994 11.65964985 3458.807658 72.62613678
12 09 2018 20:20 3033.128906 11.81138039 3489.523847 70.00247955
                 2710.825928 10.85433006 3218.548789 67.26457214
12 09 2018 20:30
12 09 2018 20:40
                 2627.694092 10.61666965 3119.617432 70.68849945
12 09 2018 20:50 3243.138916 12.01218987 3523.832816 73.39775085
12 09 2018 21:00 3171.271973 11.85052967 3496.769984 73.2049408
12 09 2018 21:10 3039.410889 11.64276028 3455.124705 70.93731689
12 09 2018 21:20 3068.733887 11.64529991 3455.681929 70.38239288
12 09 2018 21:30 3408.667969 12.40005016 3570.891625 68.94605255
12 09 2018 21:40 3374.986084 12.26053047 3556.774614 69.22096252
12 09 2018 21:50 3468.094971 12.60505009 3586.146475 69.14321136
12 09 2018 22:00 3536.979004 12.87837982 3596.713417 72.07639313
12 09 2018 22:10 3492.157959 12.69902992 3591.018095 72.52953339
                 3602.910889 13.9358902 3600 72.18830109
12 09 2018 22:20
                 3600.927002 13.57999992 3600 73.40309906
12 09 2018 22:30
12 09 2018 22:40
                 3603.208008 13.65044022 3600 70.97937775
12 09 2018 22:50
                 3603.393066 14.1885004 3600 71.47884369
12 09 2018 23:00
                 3603.576904 14.70370007 3600 72.53864288
12 09 2018 23:10
                 3603.509033 15.01500988 3600 74.93639374
12 09 2018 23:20
                 3603.362061 14.16075039 3600 76.59178925
12 09 2018 23:30
                 3600.805908 14.65310001 3600
                                               76.12645721
12 09 2018 23:40
                 3576.802979 13.74501038 3600
                                              72.66932678
12 09 2018 23:50 3581.554932 13.17059994 3600 69.68466187
13 09 2018 00:00 3389.612061 11.96605968 3516.57338 66.94756317
13 09 2018 00:10 3366.664063 12.24561977 3555.082432 67.21066284
```

```
13 09 2018 00:20 3541.040039 12.99631977 3597.931815 68.44525909
                 3563.945068 13.33689022 3600 70.18623352
13 09 2018 00:30
13 09 2018 00:40
                 3603.106934 14.13885021 3600 69.36959076
13 09 2018 00:50 3603.128906 14.47838974 3600 70.93093109
13 09 2018 01:00 3602.856934 14.13356018 3600 67.30236053
13 09 2018 01:10 3603.430908 14.46442032 3600 66.62436676
13 09 2018 01:20
                 3603.253906 13.84416008 3600 66.09580994
                 3587.062988 13.00236034 3600 64.55496216
13 09 2018 01:30
13 09 2018 01:40
                 3603.403076 14.44219017 3600
                                               65.9991684
                 3602.89502 14.35709
                                         3600
13 09 2018 01:50
                                               67.5690918
13 09 2018 02:00
                 3595.251953 14.02602005 3600 66.00866699
13 09 2018 02:10 3599.365967 13.92852974 3600 65.64099121
13 09 2018 02:20
                 3580.561035 13.27258015 3600
                                               65.18039703
13 09 2018 02:30 3603.159912 14.14988995 3600
                                               66.2400589
13 09 2018 02:40 3601.073975 13.26327991 3600 66.13038635
13 09 2018 02:50 3601.689941 13.42875957 3600 62.47780991
13 09 2018 03:00 3537.930908 12.69423008 3590.801045 62.21258163
13 09 2018 03:10 3554.298096 12.74361038 3592.871949 60.76248932
13 09 2018 03:20 3583.039063 12.77713966 3594.074263 60.41849899
                             12.88854027 3596.896624 60.69361115
13 09 2018 03:30 3554.375
13 09 2018 03:40 3581.397949 12.92273045 3597.404444 63.10713959
13 09 2018 03:50 3551.072998 13.01346016 3600 62.42567825
13 09 2018 04:00 3421.284912 12.17485046 3546.559649 60.16260147
13 09 2018 04:10 3525.339111 12.76554966 3593.677236 63.07873917
13 09 2018 04:20 3602.145996 12.97305965 3597.848325 60.63636017
13 09 2018 04:30 3552.014893 12.44688988 3574.945481 58.12448883
13 09 2018 04:40 3493.214111 12.05492973 3530.234461 54.95222855
13 09 2018 04:50 3279.62207 11.76879978 3481.32945 60.43291092
13 09 2018 05:00 3165.052979 11.53798962 3431.06678 58.24486923
13 09 2018 05:10 3340.297119 11.84154034 3495.130386 57.52043915
13 09 2018 05:20 3363.199951 11.94472027 3513.091161 53.67784119
13 09 2018 05:30 3446.864014 12.83613014 3595.792286 57.20307922
13 09 2018 05:40 3121.531006 11.53483963 3430.310767 56.91302872
13 09 2018 05:50 2890.197021 11.01828003 3278.857983 58.12876892
13 09 2018 06:00 3332.937988 12.11627007 3538.883866 59.01675034
13 09 2018 06:10 3487.202881 12.5138998 3580.156278 59.16965103
13 09 2018 06:20 3447.155029 12.34797955 3565.983083 56.68635178
13 09 2018 06:30 3408.694092 12.13002968 3540.737785 57.14165878
13 09 2018 06:40 3441.48291 12.6530304 3588.797757 61.08250046
13 09 2018 06:50 3404.840088 12.41654015 3572.357665 60.50429916
13 09 2018 07:00 3594.5
                             13.58078003 3600 64.16507721
13 09 2018 07:10 3580.120117 13.25837994 3600 64.74446106
13 09 2018 07:20 3563.417969 13.17980003 3600 64.92147827
13 09 2018 07:30 3571.705078 13.56245995 3600 64.30461121
13 09 2018 07:40 3597.164063 13.12786961 3600 61.42332077
13 09 2018 07:50 3350.554932 12.03726959 3527.626883 60.66801071
13 09 2018 08:00 3110.750977 11.56021023 3436.345191 63.00640869
13 09 2018 08:10 3583.965088 12.87018967 3596.554941 65.329422
13 09 2018 08:20 3526.030029 12.8692503 3596.536148 62.60799026
                 3202.695068 11.6865797 3464.569407 59.16698837
13 09 2018 08:30
13 09 2018 08:40
                 3012.884033 11.38893986 3393.150225 59.97369003
13 09 2018 08:50
                 2887.503906 11.02182961 3280.095008 59.40550995
13 09 2018 09:00
                 2569.979004 10.2193203 2921.100639 56.83158875
13 09 2018 09:10 2178.943115 9.362941742 2380.090318 55.15042114
13 09 2018 09:20
                 2262.314941 9.77358532 2643.094306 60.03615952
13 09 2018 09:30 2943.491943 11.10587978 3308.557732 59.57989883
13 09 2018 09:40 2409.50708 10.06095028 2829.420595 61.51332855
13 09 2018 09:50 2005.052002 9.206380844 2277.794897 58.33041
13 09 2018 10:00 1542.051025 8.252898216 1677.974733 63.09006119
```

```
13 09 2018 10:10 1342.512939 7.554844856 1286.319546 48.61408997
13 09 2018 10:20 833.3184814 6.696670055 885.0958008 40.45716858
13 09 2018 10:30 595.9296265 5.965764999 613.5037725 60.91897964
13 09 2018 10:40 355.1936951 5.116072178 365.0349966 34.30410004
13 09 2018 10:50 441.5928955 5.452532768 455.4481825 26.65032959
13 09 2018 11:00 365.1990051 5.171998978 379.40538
                 157.0169983 4.162195206 153.7156533 23.2885704
13 09 2018 11:10
13 09 2018 11:20 50.57387924 3.45194006 46.80206731 24.14332008
13 09 2018 11:30 63.0282402 3.500636101 52.07127566 47.13417816
13 09 2018 11:40 99.71172333 3.838383913 99.05929207 39.61745834
13 09 2018 11:50
                 237.2942047 4.619268894 247.6807004 26.95561981
13 09 2018 12:00 474.7995911 5.800510883 559.7461696 18.17373085
13 09 2018 12:10 468.2254944 5.854334831 576.9434984 26.49972916
13 09 2018 12:20 419.4773865 5.691184998 525.7163618 32.03894043
13 09 2018 12:30 459.8364868 5.779768944 553.1977545 25.58301926
13 09 2018 12:40 852.9279785 6.825673103 939.4060469 29.74123955
13 09 2018 12:50 1168.968994 7.521202087 1268.899928 28.51721001
13 09 2018 13:00 1332.11499 7.942305088 1497.132263 27.27710915
13 09 2018 13:10 1368.384033 7.789064884 1411.616348 29.58435059
13 09 2018 13:20 1251.052002 7.74800396 1389.161413 29.89864922
13 09 2018 13:30 822.6928711 6.683012009 879.4598079 36.57014084
13 09 2018 13:40 925.380127 7.044085979 1035.958742 42.56016922 13 09 2018 13:50 634.121521 6.340754032 745.0952548 41.08531189
13 09 2018 14:00 443.4569092 5.691132069 525.700174 49.3982811
13 09 2018 14:10 646.7744141 6.385787964 762.0348674 40.11812973
13 09 2018 14:20 493.7827148 5.806275845 561.5739713 33.90763855
13 09 2018 14:30 473.260498 5.851679802 576.0882093 40.96609116
13 09 2018 14:40 537.2719727 6.118313789 664.6325725 35.30619812
13 09 2018 14:50 666.7540283 6.425488949 777.1518426 33.78860855
13 09 2018 15:00 906.7235107 7.115637779 1068.90552 37.21525955
13 09 2018 15:10 436.1950989 5.675989151 521.0801416 37.58061981
13 09 2018 15:20 605.3195801 6.233632088 705.6829272 32.88616943
13 09 2018 15:30 806.055481 6.793229103 925.5619362 31.29821968
13 09 2018 15:40 1108.605957 7.459819794 1237.211556 32.94063187
13 09 2018 15:50 1036.339966 7.416293144 1214.982618 37.0552597
13 09 2018 16:00 876.6605225 7.000706196 1016.306735 39.66761017
13 09 2018 16:10 1000.14502 7.299571991 1156.757203 39.57503128
13 09 2018 16:20 860.5518188 7.001338959 1016.591664 37.05131912
13 09 2018 16:30 707.8483887 6.495090961 804.0720088 42.07870102
13 09 2018 16:40 474.1600952 5.855762959 577.4038556 48.27283859
13 09 2018 16:50 346.7904968 5.490913868 466.3899061 41.3356514
13 09 2018 17:00 306.4613037 5.286331177 409.5823865 36.98804855
                 153.5991058 4.43071413 207.4764671 50.17404175
13 09 2018 17:10
13 09 2018 17:20 37.11817932 3.624409914 67.17213651 69.17500305
13 09 2018 17:30 0
                       2.659142017 0
                                      84.08434296
13 09 2018 17:40 0
                       2.152134895 0
                                         98.74394989
                       2.766134977 0
13 09 2018 17:50 0
                                         41.23308945
13 09 2018 18:00 0
                       2.192935944 0
                                         36.7131691
13 09 2018 18:10 0
                       2.309432983 0
                                         34.8236084
13 09 2018 18:20 0
                       2.51840806 0
                                         26.45536041
13 09 2018 18:30 0
                       3.710527897 79.12488408 2.325335979
13 09 2018 18:40 2.084204912 2.687601089 0
                                               347.5057068
13 09 2018 18:50 0 2.538686991 0
                                         296.6730957
13 09 2018 19:00 150.7492981 4.899310112 311.643262 282.2804871
13 09 2018 19:10 497.8778992 5.746881962 542.9039543 278.1622925
13 09 2018 19:20 586.8223267 6.116961956 664.1597909 281.0148926
13 09 2018 19:30 491.3703918 6.165336132 681.199445 278.8139038
13 09 2018 19:50 0 0 0
13 09 2018 20:00 0
                       5.765439987 548.699359 0
```

```
260.4424133 6.042461872 638.4064968 290.8750916
13 09 2018 20:10
                 1070.121948 7.034874916 1031.765752 289.2919922
13 09 2018 20:20
13 09 2018 20:30
                 1098.343018 7.137722015 1079.210517 291.4541931
13 09 2018 20:40
                 1737.267944 8.296990395 1704.378473 304.7659912
13 09 2018 20:50
                 2187.856934 9.229842186 2293.088478 302.4552917
                 2792.685059 10.76422977 3182.688473 300.2601013
13 09 2018 21:00
13 09 2018 21:10 2349.37793 9.626921654 2537.438275 303.0812073
                 1627.103027 8.039491653 1552.692441 308.5965881
13 09 2018 21:20
                 322.325592 5.117487907 365.3956685 6.412500858
13 09 2018 21:30
                 1286.802979 7.297080994 1155.536061 42.39495087
13 09 2018 21:40
13 09 2018 21:50
                 184.6690979 4.389688015 199.0082886 16.92992973
13 09 2018 22:00
                 151.9971924 4.087777138 139.4703434 346.5929871
13 09 2018 22:10
                 313.2184143 5.130767822 368.7866614 326.2958984
13 09 2018 22:20
                 396.2098999 5.733611107 538.7807683 318.5586853
13 09 2018 22:30 452.8005066 6.082897186 652.3106509 292.3934937
13 09 2018 22:40 606.572876 6.128098011 668.0602656 283.3859863
13 09 2018 22:50 585.680603 6.211335182 697.6347212 274.3171997
13 09 2018 23:00
                 706.1555786 6.557995796 828.8639919 271.7322083
13 09 2018 23:10 1299.959961 7.906006813 1476.638809 254.4801025
                 1404.682983 8.072305679 1571.671117 243.3695068
13 09 2018 23:20
                 1086.136963 7.443159103 1228.669195 240.377594
13 09 2018 23:30
                 1173.738037 7.828525066 1433.382612 226.3735046
13 09 2018 23:40
13 09 2018 23:50
                 1100.26001 7.537958145 1277.557015 232.0314941
14 09 2018 00:00
                 1217.001953 7.819522858 1428.401083 229.7135925
14 09 2018 00:10 1239.953003 7.821802139 1429.66148 227.3220978
14 09 2018 00:20 1563.170044 8.535529137 1849.947992 223.5151978
14 09 2018 00:30
                 1564.977051 8.438632965 1790.288996 213.3327026
14 09 2018 00:40
                 1330.88501 7.89756918 1471.895701 212.4837952
                 1100.845947 7.461308002 1237.976651 213.3430023
14 09 2018 00:50
                 1144.473999 7.520468235 1268.521642 211.8381958
14 09 2018 01:00
                 1159.524048 7.512561798 1264.450641 205.4850006
14 09 2018 01:10
14 09 2018 01:20
                 1511.786987 8.265797615 1685.681864 203.3363037
14 09 2018 01:30
                 1707.380981 8.226096153 1662.00792 197.1741943
14 09 2018 01:40
                 1157.040039 7.281897068 1148.111613 197.8717041
                 1229.569946 7.398435116 1205.944807 188.6425018
14 09 2018 01:50
14 09 2018 02:00
                 1479.322998 7.785246849 1409.519962 190.4958038
14 09 2018 02:10
                 1881.516968 8.720082283 1965.339756 186.0682983
                 1620.737061 8.182630539 1636.251384 187.0576935
14 09 2018 02:20
14 09 2018 02:30 1842.802979 8.699165344 1952.154831 194.1221008
14 09 2018 02:40
                 1532.213989 8.074067116 1572.692926 196.782196
14 09 2018 02:50 1788.171021 8.770633698 1997.308156 192.1573944
14 09 2018 03:00 2304.346924 9.498422623 2468.953004 189.578598
14 09 2018 03:10 3153.361084 11.29893017 3368.081633 184.1282959
14 09 2018 03:20
                 3459.62793 11.93906021 3512.154288 182.2250061
14 09 2018 03:30
                 3264.899902 11.70808983 3469.074526 182.3721924
14 09 2018 03:40
                 3475.308105 12.06058979 3531.059032 179.0227051
                 3311.135986 11.91411972 3507.959568 173.9645996
14 09 2018 03:50
14 09 2018 04:00
                 2327.208008 9.818184853 2673.772774 168.6511993
14 09 2018 04:10
                 2027.587036 9.285262108 2329.268471 163.3771973
14 09 2018 04:20
                 2124.940918 9.133011818 2230.067301 158.0567932
14 09 2018 04:30
                 1719.444946 8.482715607 1817.345803 160.093399
14 09 2018 04:40
                 2911.812988 10.78668976 3191.812366 167.2019043
14 09 2018 04:50
                 3120.691895 11.25467014 3355.138052 163.0576935
14 09 2018 05:00
                 2753.254883 10.60597992 3114.833398 164.2008972
14 09 2018 05:10
                 1957.416016 8.992810249 2139.35698 163.3809052
14 09 2018 05:20
                 2030.235962 8.867902756 2059.206454 165.4138031
14 09 2018 05:30
                 1963.339966 8.867452621 2058.918904 165.2581024
14 09 2018 05:40 2449.334961 9.888354301 2720.706963 165.8957977
14 09 2018 05:50 2474.550049 10.09064007 2847.183889 165.7949982
```

```
14 09 2018 06:00 1775.196045 8.881432533 2067.853945 167.2960052
                 791.1184082 6.674959183 876.1469078 161.7503967
14 09 2018 06:10
14 09 2018 06:20
                 232.6817017 4.810009003 290.6602406 148.1396942
14 09 2018 06:30 43.83882141 3.372052908 38.97956236 152.035202
14 09 2018 06:40
                       1.875262976 0
                                          132.8509064
14 09 2018 06:50
                       0.631348908 0
                                          155.1186981
14 09 2018 07:00
                 0
                       1.049502969 0
                                          31.65436935
14 09 2018 07:10
                 0
                        3.460524082 47.70336505 7.87677002
14 09 2018 07:20
                 25.57229996 3.866266966 103.7540194 8.337059975
14 09 2018 07:30
                 171.1192932 4.437040806 208.7909529 0.01567788
14 09 2018 07:40
                 209.2478027 4.527710915 227.8883146 6.279529095
14 09 2018 07:50
                 239.5007019 4.704985142 266.6946497 12.9972496
14 09 2018 08:00
                 388.072113 5.551300049 483.8790534 11.00354958
14 09 2018 08:10
                 328.719696 5.297114849 412.4853519 11.24598026
                 347.1567078 5.239675045 397.1361567 3.650082111
14 09 2018 08:20
14 09 2018 08:30
                 267.1864014 4.868165016 304.2603717 356.8453979
14 09 2018 08:40
                 139.1743927 4.199117184 160.8836456 343.7210999
14 09 2018 08:50
                 317.6148987 5.17833519 381.049442 323.2672119
14 09 2018 09:00
                 387.4256897 5.5334692 478.6796411 323.3663025
                 365.1509094 5.412985802 444.3134998 332.344696
14 09 2018 09:10
14 09 2018 09:20
                 189.865799 4.479732037 217.7219367 342.7416992
                 102.2984009 4.016635895 126.0948332 4.382612228
14 09 2018 09:30
14 09 2018 09:40
                 473.3174133 5.627307892 506.3788413 2.934448004
14 09 2018 09:50
                 338.7802124 5.175570011 380.331556 354.463501
14 09 2018 10:00
                 449.9429932 5.782913208 554.1876267 341.7037964
14 09 2018 10:10
                 278.6872864 5.102202892 361.5100861 336.9552002
14 09 2018 10:20
                 386.2915039 5.464272976 458.7808592 332.3109131
14 09 2018 10:30 681.4467163 6.586157799 840.1067765 332.1340942
                 773.647522 6.759075165 911.1234236 336.4153137
14 09 2018 10:40
                 819.40979
                             6.792376995 925.2000273 331.8866882
14 09 2018 10:50
14 09 2018 11:00
                 951.0272827 6.987699986 1010.46138 326.5281982
14 09 2018 11:10
                 602.664917 6.115732193 663.7298711 328.8363953
14 09 2018 11:20
                  643.3530273 6.140697002 672.4891245 329.942688
14 09 2018 11:30
                 620.5488281 6.125821114 667.2616898 326.1170044
                 569.3895264 5.745375156 542.4349136 320.1535034
14 09 2018 11:40
                  357.3255005 5.029647827 343.3166283 316.7398987
14 09 2018 11:50
                  332.7904053 5.154962063 375.0010035 305.4715881
14 09 2018 12:00
14 09 2018 12:10
                  448.1326904 5.807508945 561.9653694 315.9707947
14 09 2018 12:20
                       5.125557899 367.4546392 321.0062866
                        5.743564129 541.8714742 324.3403931
14 09 2018 12:30
14 09 2018 12:40
                        6.232882023 705.4113194 319.6489868
                 0
14 09 2018 15:20
                        3.710726023 79.15375108 0
                 0
14 09 2018 15:30
                 49.47869873 4.208487034 162.7135587 306.8363953
14 09 2018 15:40
                 211.7584076 4.674166203 259.8030045 308.7575989
14 09 2018 15:50
                  268.1140137 4.980103016 331.1265737 308.670105
                  290.7900085 5.030663967 343.5686038 308.0520935
14 09 2018 16:00
                 278.1451111 4.919356823 316.432583 301.6617126
14 09 2018 16:10
14 09 2018 16:20
                 359.5560913 5.425786018 447.9021086 300.9247131
14 09 2018 16:30
                 350.3615112 5.344087124 425.2468064 308.1025085
14 09 2018 16:40
                  370.5307922 5.396156788 439.6176291 313.8042908
14 09 2018 16:50
                  297.3952026 5.205776215 388.2075579 312.0461121
14 09 2018 17:00
                 281.4375
                              5.081213951 356.2046706 309.792511
14 09 2018 17:10
                  355.9124146 5.377358913 434.4020665 320.1264038
14 09 2018 17:20
                 388.5195923 5.523886204 475.8975104 328.0147095
14 09 2018 17:30
                 152.8361053 4.354389191 191.7984305 327.1105957
14 09 2018 17:40
                 108.6578979 3.972202063 122.724614 321.872406
14 09 2018 17:50
                 74.50940704 3.881959915 106.4509806 318.2533875
14 09 2018 18:00
                 35.24958038 3.267564058 30.28929189 328.2107849
14 09 2018 18:10 0 2.156840086 0
                                         318.9960938
```

```
14 09 2018 18:20 0
                       2.418467999 0
                                         304.2059021
14 09 2018 18:30 0
                       2.628954887 0
                                         299.1221008
14 09 2018 18:40
                       3.105833054 20.28270853 297.9942017
                 0
14 09 2018 18:50 0
                       3.404946089 42.07678163 291.8823853
14 09 2018 19:00
                 11.3598299 2.916640043 0
                                               296.118103
14 09 2018 19:10
                 0
                       2.274847984 0
                                         285.7717896
14 09 2018 19:20
                 0
                       3.168482065 23.66232259 260.6903076
14 09 2018 19:30
                 0
                       3.469424009 48.65028034 262.1057129
14 09 2018 19:40 37.05945969 3.917155981 112.6429989 273.2043152
                 68.20720673 3.739187002 83.36577801 287.4595032
14 09 2018 19:50
14 09 2018 20:00
                 218.9871063 4.727935791 271.8678276 283.6152954
                 264.2077026 4.918652058 316.26371
14 09 2018 20:10
                                                     273.0213928
14 09 2018 20:20 354.6947937 5.359847069 429.5713256 259.2276917
14 09 2018 20:30 475.2489014 5.804265022 560.9360489 260.0834045
14 09 2018 20:40 600.4249268 6.19775486 692.7589468 255.7001038
14 09 2018 20:50 650.7476196 6.309384823 733.4256652 248.805603
14 09 2018 21:00 919.2520142 6.938642979 988.6055248 245.1929016
14 09 2018 21:10 950.2072754 7.080764771 1052.764294 251.5825043
14 09 2018 21:20 843.1146851 6.785439014 922.2565264 256.0783081
                 1085.641968 7.329937935 1171.714539 256.7591858
14 09 2018 21:30
14 09 2018 21:40 1399.384033 8.075914383 1573.764857 252.3253937
14 09 2018 21:50 1340.057007 7.928009987 1489.04436 254.5473022
14 09 2018 22:00
                 1377.043945 8.118936539 1598.824569 258.8626099
14 09 2018 22:10
                 1369.348999 8.104968071 1590.668356 256.2872925
14 09 2018 22:20 1397.511963 8.075908661 1573.761536 256.4386902
14 09 2018 22:30 1475.447021 8.299530983 1705.904942 253.1455994
14 09 2018 22:40 1254.26001 7.744771957 1387.402473 250.6983032
14 09 2018 22:50 995.4699707 7.155499935 1087.553376 251.7483978
14 09 2018 23:00 1022.754028 7.373219013 1193.263611 251.0583954
14 09 2018 23:10
                 1027.141968 7.353922844 1183.622638 249.813797
14 09 2018 23:20 860.1148071 6.926343918 983.1731808 251.2095947
14 09 2018 23:30 831.7960815 6.792889118 925.4175268 259.730011
14 09 2018 23:40 908.0889282 6.977460861 1005.874685 260.4833984
14 09 2018 23:50 805.5435791 6.794654846 926.1676736 262.1453857
                 788.9025269 6.734547138 900.8390989 264.7471008
15 09 2018 00:00
                 1008.119995 7.350904942 1182.119712 274.1843872
15 09 2018 00:10
15 09 2018 00:20
                 1154.53894 7.459362984 1236.976776 273.3471069
15 09 2018 00:30 907.2382202 7.024288177 1026.96001 277.6070862
15 09 2018 00:40 872.7150269 6.965622902 1000.588246 283.6418152
                 736.8200073 6.54766798 824.7632762 282.2453003
15 09 2018 00:50
15 09 2018 01:00 599.6032104 6.244048119 709.4609472 279.5036926
15 09 2018 01:10 575.9539185 6.113421917 662.9226456 275.0669861
15 09 2018 01:20 578.6436157 6.155860901 677.8421177 274.9407959
15 09 2018 01:30 486.0210876 5.869029999 581.6905794 274.8630981
15 09 2018 01:40
                 256.7632141 4.895017147 310.6214492 270.7428894
15 09 2018 01:50
                 213.1300049 4.70178318 265.9757091 269.5158997
                 174.4098969 4.504638195 222.982095 268.4567871
15 09 2018 02:00
                 160.3332062 4.388122082 198.6869624 275.8861084
15 09 2018 02:10
                 127.7677994 4.203632832 161.764989 283.6839905
15 09 2018 02:20
15 09 2018 02:30
                 57.31665039 3.745737076 84.35348932 280.5797119
15 09 2018 02:40
                 33.81042862 3.477505922 49.52114198 280.8763123
15 09 2018 02:50
                 16.60774994 3.249608994 28.97185977 287.2697144
15 09 2018 03:00
                 21.86514091 3.235610008 27.98048634 280.894104
15 09 2018 03:10 52.44232941 3.702732086 77.99401755 282.7329102
15 09 2018 03:20
                 3.637725115 3.060446024 18.22657051 283.1481934
15 09 2018 03:30 9.429286003 3.797441006 92.39108479 293.0593872
15 09 2018 03:40 -0.187866896
                               2.800628901 0
                                                     280.9684143
15 09 2018 03:50 0 3.018832922 16.63102782 298.749115
15 09 2018 04:00 14.13718033 3.970627069 122.4294189 305.737915
```

```
22.46174049 3.417779922 43.33216261 324.271698
15 09 2018 04:10
15 09 2018 04:20
                  0
                         2.486109018 0
                                            307.1762085
15 09 2018 04:30
                         2.396058083 0
                                            299.995697
                   0
15 09 2018 04:40
                  0
                         2.647911072 0
                                            326,6838989
15 09 2018 04:50
                   0
                         3.201143026 25.67325821 335.6146851
15 09 2018 05:00
                   0
                         2.296180964 0
                                            315.9829102
15 09 2018 05:10
                   0
                         2.507232904 0
                                            320.5147095
15 09 2018 05:20
                                            293.8114014
                   0
                         2.292489052 0
15 09 2018 05:30
                   0
                         2.112795115 0
                                            280.1405945
15 09 2018 05:40
                   0
                         2.855062962 0
                                            293.2738037
15 09 2018 05:50
                         3.090449095 19.54885413 317.4690857
                   0
15 09 2018 06:00
                   0
                         3.199065924 25.54028892 322.9375916
15 09 2018 06:10
                   76.10691833 3.768409014 87.82528143 322.5383911
15 09 2018 06:20
                   57.40520859 3.429755926 44.52740212 326.0675049
15 09 2018 06:30
                   0
                         2.259490013 0
                                            316.4142151
15 09 2018 06:40
                   0
                         2.07199192
                                            341.2838135
15 09 2018 06:50
                   0
                         1.984465003 0
                                            339.6994019
15 09 2018 07:00
                   0
                         1.421440005 0
                                            343.8132019
15 09 2018 07:10
                   0
                         1.109171987 0
                                            357.6401978
15 09 2018 07:20
                   0
                         1.600952983 0
                                            340.7072144
15 09 2018 07:30
                         1.950047016 0
                                            339.653595
                   0
15 09 2018 07:40
                   0
                         1.812122941 0
                                            310.4368896
15 09 2018 07:50
                   0
                         1.714319944 0
                                            305.3232117
                                            314.9819946
15 09 2018 08:00
                   0
                         1.817466021 0
15 09 2018 08:10
                   0
                         1.764080048 0
                                            310.4289856
15 09 2018 08:20
                         1.937525034 0
                                            308.588501
15 09 2018 08:30
                         1.621996999 0
                                            297.6477966
15 09 2018 08:40
                         1.790879965 0
                                            290.4914856
                   0
15 09 2018 08:50
                   0
                         1.829143047 0
                                            282.8626099
15 09 2018 09:00
                   0
                         1.501551986 0
                                            314.7427063
15 09 2018 09:10
                   0
                         1.220723033 0
                                            334.6820984
15 09 2018 09:20
                   0
                                            323.9613037
                         1.284018993 0
15 09 2018 09:30
                         1.600692034 0
                                            314.8295898
                   0
15 09 2018 09:40
                         2.202810049 0
                                            298.7713013
                   0
15 09 2018 09:50
                                            284.3287048
                   0
                         2.173918009 0
15 09 2018 10:00
                   0
                         2.033411026 0
                                            297.4003906
15 09 2018 10:10
                   0
                         2.283385038 0
                                            298.0011902
15 09 2018 10:20
                   0
                         2.991729021 0
                                            291.5675964
15 09 2018 10:30
                         2.591214895 0
                                            278.2701111
15 09 2018 10:40
                         2,267503977 0
                                            271.9826965
15 09 2018 10:50
                         2.243220091 0
                                            279.138092
                   0
15 09 2018 11:00
                         2.509325981 0
                                            275.619812
                   0
15 09 2018 11:10
                         2.443007946 0
                                            276.7077026
                   0
15 09 2018 11:20
                   0
                         2.43680191 0
                                            290.1947021
15 09 2018 11:30
                   0
                         2.349767923 0
                                            280.1095886
15 09 2018 11:40
                   0
                         1.901754022 0
                                            289.8786011
15 09 2018 11:50
                   0
                         1.807937026 0
                                            307.9914856
15 09 2018 12:00
                   0
                         2.233221054 0
                                            322.927002
15 09 2018 12:10
                   0
                         2.018737078 0
                                            332.9706116
15 09 2018 12:20
                   0
                         2.067425013 0
                                            344.9305115
15 09 2018 12:30
                   0
                         1.961156011 0
                                            332.202301
15 09 2018 12:40
                         2.065511942 0
                                            330.0533142
15 09 2018 12:50
                         2.393213987 0
                                            338.2445984
15 09 2018 13:00
                         2.256356001 0
                                            336.8721008
                   0
15 09 2018 13:10
                         1.875445962 0
                   0
                                            346.8359985
15 09 2018 13:20
                   0
                         2.197967052 0
                                            9.321587563
15 09 2018 13:30
                   0
                         1.752174973 0
                                            25.49551964
15 09 2018 13:40
                   0
                         1.868064046 0
                                            52.67098999
15 09 2018 13:50
                   0
                         2.294039965 0
                                            52.03993988
```

```
15 09 2018 14:00 0
                        2.503428936 0
                                          44.39638901
15 09 2018 14:10 0
                        2.402555943 0
                                          39.56024933
15 09 2018 14:20 0
                        3,264090061 30,03036679 49,67012024
15 09 2018 14:30 0
                        2.624358892 0
                                          64.9413681
15 09 2018 14:40 0
                        3.080039978 19.07379114 68.98197174
15 09 2018 14:50
                 12.97848034 3.550410986 57.84933183 57.74755096
15 09 2018 15:00
                  55.79417038 3.822344065 96.41499093 61.48136139
                  62.4045105 3.886529922 107.2437818 58.49694061
15 09 2018 15:10
                  156.1047974 4.496426105 221.2436103 51.27927017
15 09 2018 15:20
                  231.0565948 4.875454903 305.9821493 50.252491
15 09 2018 15:30
15 09 2018 15:40
                  196.7843018 4.677085876 260.4532084 47.1882782
15 09 2018 15:50
                 135.3688049 4.272291183 175.2940262 48.36660004
15 09 2018 16:00
                 126.8562012 4.303952217 181.6158792 44.9612999
15 09 2018 16:10 99.66005707 4.159563065 153.2072321 44.51712036
15 09 2018 16:20 104.321701 4.174338818 156.0657214 45.81098938
15 09 2018 16:30 137.5077972 4.294284821 179.6798964 47.64719009
15 09 2018 16:40 222.3845978 4.824222088 293.9619791 48.67073822
15 09 2018 16:50 262.0869141 5.057785988 350.3236209 45.4245491
15 09 2018 17:00 230.4965973 4.838362217 297.2608772 52.43367004
                 347.0871887 5.474619865 461.7283971 52.2407608
15 09 2018 17:10
15 09 2018 17:20
                 334.0509949 5.360764027 429.8236062 52.24234009
                  305.4399109 5.184249878 382.587091 53.63241959
15 09 2018 17:30
15 09 2018 17:40
                  183.938797 4.5528512
                                          233.2710987 57.14086914
15 09 2018 17:50
                  155.0699005 4.430912018 207.5175469 50.63024902
15 09 2018 18:00
                  125.2167969 4.229813099 166.895124 44.3567009
15 09 2018 18:10 126.8275986 4.231204987 167.1688507 40.82941818
15 09 2018 18:20 83.30271149 3.903692007 110.2508837 51.12139893
15 09 2018 18:30 106.2302017 4.198998928 160.8605789 47.27257919
                  133.165802 4.304683208 181.7624706 42.20001984
15 09 2018 18:40
                  83.24152374 3.990573883 126.1972937 51.20766068
15 09 2018 18:50
15 09 2018 19:00
                  38.76202011 3.54502511 57.20499319 61.08683014
15 09 2018 19:10
                  0.793330371 2.631841898 0
                                                64.13725281
15 09 2018 19:20
                        2.370121956 0
                                          51.72019958
15 09 2018 19:30
                 0
                        2.548717976 0
                                          45.6304512
15 09 2018 19:40
                 0
                        2.164980888 0
                                          52.35251999
15 09 2018 19:50
                  0
                        3.185493946 24.6884466 46.78202057
15 09 2018 20:00
                  0
                        3.722480059 80.87755669 44.66292191
                  45.26087952 3.803709984 93.39469853 42.42551041
15 09 2018 20:10
                  1.768599987 2.950054884 0
15 09 2018 20:20
                                                47.72151947
15 09 2018 20:30
                        2.467952013 0
                                          45.88373184
15 09 2018 20:40
                 0
                        2.738882065 0
                                          46.36417007
15 09 2018 20:50
                        2.824975014 0
                                          27.48661041
                 0
15 09 2018 21:00
                                          28.47390938
                 0
                        2.368113995 0
15 09 2018 21:10
                 0
                                          8.915980339
                        2.811249971 0
15 09 2018 21:20
                 0
                        2.443233967 0
                                          342.9411926
15 09 2018 21:30
                 0
                        2.110253096 0
                                          342.6034851
15 09 2018 21:40
                 0
                        2.917923927 0
                                          332.1077881
15 09 2018 21:50
                  0
                        3.004668951 16.15115036 339.3981934
15 09 2018 22:00
                  0
                        2.258532047 0
                                          340.5032959
15 09 2018 22:10
                  0
                        2.133888006 0
                                          333.5230103
15 09 2018 22:20
                  0
                        2.229373932 0
                                          333.2181091
15 09 2018 22:30
                        2.592566967 0
                                          339.0256958
15 09 2018 22:40
                        2.823054075 0
                                          339.5704041
15 09 2018 22:50
                        2.595948935 0
                                          330.7395935
                  0
15 09 2018 23:00
                                          331.8266907
                  0
                        2.354146004 0
15 09 2018 23:10
                  0
                        2.249489069 0
                                          332.8511047
15 09 2018 23:20
                 0
                        1.745540977 0
                                          322.0318909
15 09 2018 23:30 0
                                          335.2922974
                        1.345867991 0
15 09 2018 23:40 0
                       1.924111009 0
                                          311.4620056
```

```
15 09 2018 23:50 0
                        1.074247003 0
                                         341.1860046
16 09 2018 00:00
                 0
                        1.76066196 0
                                         337.7974854
16 09 2018 00:10
                        2.641870975 0
                 0
                                          311.5267029
16 09 2018 00:20 0
                        2.198074102 0
                                         303,9490051
16 09 2018 00:30
                 0
                        2.505917072 0
                                         293.4397888
16 09 2018 00:40
                        2.92512393 0
                                         288.118988
                        3.180160999 24.36179083 302.0983887
16 09 2018 00:50
                 0
16 09 2018 01:00
                 0
                       3.632390976 68.22997895 298.6864014
16 09 2018 01:10
                 0
                       2.548799992 0
                                         300.6047058
16 09 2018 01:20
                 0
                       2,282329082 0
                                         315.038208
16 09 2018 01:30
                 0
                       2.194711924 0
                                         310.4139099
16 09 2018 01:40
                 0
                       2.642198086 0
                                         310.3611145
16 09 2018 01:50
                       1.925359011 0
                                         294.316803
16 09 2018 02:00
                 0
                        2.367727995 0
                                         274.4377136
16 09 2018 02:10
                        2.021838903 0
                                         287.0846863
                 0
16 09 2018 02:20
                 0
                       2.079246998 0
                                          296.1842041
16 09 2018 02:30 0
                       2.528656006 0
                                         281.3944092
16 09 2018 02:40 0
                       2.692348957 0
                                         276,6091919
16 09 2018 02:50 0
                        3.073690891 18.79253632 281.0057068
16 09 2018 03:00
                 14.86493015 3.772470951 88.45598006 287.3833008
16 09 2018 03:10
                 124.3412018 4.35764122 192.4597591 284.4324951
                 106.7636032 4.233565807 167.6333541 288.5462952
16 09 2018 03:20
16 09 2018 03:30
                 70.44663239 4.014814854 125.7554605 284.7583008
16 09 2018 03:40
                 60.07318115 3.936965942 116.2153243 285.879303
16 09 2018 03:50
                 52.94263077 3.757311106 86.11556425 292.1401062
16 09 2018 04:00
                 7.809803009 3.174740076 24.03440997 293.0245972
16 09 2018 04:10 0
                        3.458679914 47.50873838 296.2536011
16 09 2018 04:20 65.929039 4.009682178 124.7997186 283.1513977
                 133.0942993 4.299571991 180.7380793 279.5722046
16 09 2018 04:30
                 165.2415924 4.495285034 221.0023675 279.2684937
16 09 2018 04:40
16 09 2018 04:50
                 168.1898041 4.465719223 214.778659 280.5974121
16 09 2018 05:00 130.9723969 4.28012991 176.8542469 284.7735901
16 09 2018 05:10 63.51073837 3.748886108 84.83078774 287.2445984
16 09 2018 05:20 87.56468964 3.97230196 122.7433508 288.5354919
                 125.981102 4.243388176 169.5690394 287.0497131
16 09 2018 05:30
16 09 2018 05:40
                 116.9991989 4.247881889 170.4562755 279.8855896
                 184.5782928 4.525982857 227.5197396 265.8577881
16 09 2018 05:50
                 122.8134995 4.127534866 147.0477855 268.7131958
16 09 2018 06:00
16 09 2018 06:10
                 139.2765961 4.35563612 192.0519352 269.9653931
16 09 2018 06:20
                 66.46891022 3.828864098 97.48490651 279.7634888
16 09 2018 06:30
                 26.20256042 3.409657001 42.53453276 281.088501
                 2.339534998 3.226306915 27.33900688 289.906311
16 09 2018 06:40
16 09 2018 06:50
                 8.358267784 2.869390011 0
                                               285.0834045
16 09 2018 07:00 0
                       2.782578945 0
                                         287.4921875
16 09 2018 07:10 0
                        2.815540075 0
                                         313.0521851
                        3.073298931 18.77538446 334.2633972
16 09 2018 07:20
                 0
16 09 2018 07:30 0
                        2.615384102 0
                                         339.6069031
16 09 2018 07:40 0
                        2.311430931 0
                                         352.5741882
16 09 2018 07:50 0
                        2.958724976 0
                                         21.51511002
16 09 2018 08:00 0
                        2.141158104 0
                                         24.63657951
16 09 2018 08:10 0
                       2.143369913 0
                                         27.05091095
16 09 2018 08:20 0
                                         31.33980942
                        2.80915904 0
16 09 2018 08:30
                        2.935614109 0
                                         30.66559029
16 09 2018 08:40
                        3.027894974 16.95488953 27.79504967
                 0
16 09 2018 08:50
                 15.76152992 3.635294914 68.6174075 21.08040047
16 09 2018 09:00
                 95.46222687 3.89308691 108.3871195 20.55835915
16 09 2018 09:10 85.6415863 3.707046986 78.61873873 20.85699081
16 09 2018 09:20 69.79390717 3.631398916 68.09793263 20.01639938
16 09 2018 09:30 64.00984955 3.588562965 62.54652403 27.69607925
```

```
16 09 2018 09:40 82.34789276 3.771898031 88.36686265 23.87822914
                 70.87653351 3.676301956 74.23240947 21.75686073
16 09 2018 09:50
                 145.7151031 4.171330929 155.4829468 21.91962051
16 09 2018 10:00
16 09 2018 10:10
                 159.6311951 4.330965042 187.0521485 29.64440918
                             4.310547829 182.9395893 29.20524025
16 09 2018 10:20
                 159.8237
16 09 2018 10:30
                 164.5447998 4.310649872 182.9600873 29.44190979
16 09 2018 10:40
                 176.9326019 4.352428913 191.4000738 30.40806961
16 09 2018 10:50
                 186.0177002 4.359782219 192.89547
                                                     29.84692001
16 09 2018 11:00
                 167.5617065 4.296254158 180.0738681 28.91859055
                 247.8730011 4.792543888 286.6223797 22.87302017
16 09 2018 11:10
16 09 2018 11:20
                 435.4555054 5.619668007 504.0924295 19.53557014
16 09 2018 11:30
                 353.9039917 5.251404762 400.2479697 23.44112015
16 09 2018 11:40
                 321.2102966 5.055796146 349.8260917 25.18239021
16 09 2018 11:50
                 343.4529114 5.222574234 392.6200416 22.42313004
16 09 2018 12:00
                 229.968399 4.731164932 272.5985259 28.7834301
16 09 2018 12:10
                 137.7346954 4.135384083 148.5526908 37.0723114
16 09 2018 12:20
                 96.96613312 3.738854885 83.31587962 36.23854065
16 09 2018 12:30
                 217.4109039 4.683570862 261.8994018 30.05253983
                 633.3626099 6.220398903 700.8998927 23.01049042
16 09 2018 12:40
                 571.9453125 6.071606159 648.4105201 24.01284981
16 09 2018 12:50
                 588.4619141 6.090582848 654.9732123 30.22738075
16 09 2018 13:00
                 361.8894958 5.362103939 430.1923858 30.53614044
16 09 2018 13:10
16 09 2018 13:20
                 487.5639954 5.700010777 528.4194821 27.35161018
16 09 2018 13:30
                 496.5974121 5.858135223 578.1690217 25.95786095
16 09 2018 13:40
                 616.4108887 6.195673943 692.0135766 20.8649807
16 09 2018 13:50
                 614.8154297 6.315792084 735.8005632 25.04022026
16 09 2018 14:00
                 528.4276123 5.976611137 617.1325742 31.37759972
16 09 2018 14:10
                 786.673584 6.743811131 904.7150879 33.64406967
                 1325.550049 7.876293182 1459.970704 36.24277878
16 09 2018 14:20
                 1461.050049 7.998373032 1529.065138 33.18675995
16 09 2018 14:30
                 1303.437012 7.674967766 1349.723574 37.21218872
16 09 2018 14:40
                 1275.296997 7.594198227 1306.886132 38.39762115
16 09 2018 14:50
16 09 2018 15:00
                 1355.462036 7.812900066 1424.742222 38.05873108
16 09 2018 15:10
                 1150.86499 7.446372986 1230.313757 47.79956055
                 704.1486816 6.436100006 781.2214499 42.03722
16 09 2018 15:20
16 09 2018 15:30
                 1016.616028 7.259662151 1137.29819 46.1830101
16 09 2018 15:40
                 1033.368042 7.185057163 1101.518233 47.88280106
16 09 2018 15:50
                 1352.636963 7.902604103 1474.725075 48.49956894
16 09 2018 16:00
                 1358.646973 7.824391842 1431.09426 53.6852417
16 09 2018 16:10
                 1083.349976 7.4035182
                                        1208.512485 55.2834816
16 09 2018 16:20 974.9575195 7.172557831 1095.598276 55.63349915
16 09 2018 16:30 979.6516113 7.267195225 1140.953935 52.82384872
16 09 2018 16:40
                 1958.050049 9.155270576 2244.530189 47.19644165
16 09 2018 16:50
                 1586.578979 8.538125992 1851.556144 50.30546951
16 09 2018 17:00
                 1732.430054 8.81831646 2027.590648 52.00857162
16 09 2018 17:10
                 2226.204102 9.801490784 2662.36731 49.50426102
16 09 2018 17:20
                 1762.077026 9.199346542 2273.212332 56.72932053
                 1586.182983 8.618969917 1901.849273 45.70882034
16 09 2018 17:30
16 09 2018 17:40
                 1588.968994 8.394101143 1763.106327 43.1297493
16 09 2018 17:50
                 1847.421997 9.051399231 2177.177413 46.24850845
16 09 2018 18:00
                 1596.578003 8.606835365 1894.272681 47.98038101
16 09 2018 18:10
                 1930.567993 9.100816727 2209.175955 42.43634033
16 09 2018 18:20
                 1603.417969 8.561219215 1865.877567 40.97449112
16 09 2018 18:30
                 1478.411011 8.326210022 1721.967451 42.54405975
16 09 2018 18:40
                 1571.857056 8.515142441 1837.339567 44.03601074
16 09 2018 18:50
                 1469.386963 8.168364525 1627.835492 46.87578964
16 09 2018 19:00
                 1923.151978 9.321120262 2352.714154 42.42961884
16 09 2018 19:10 2016.282959 9.318050385 2350.705909 44.88636017
16 09 2018 19:20 2741.768066 11.1888504 3335.122256 50.88890076
```

```
16 09 2018 19:30 2704.738037 11.06326008 3294.322826 52.80485916
                 2842.964111 11.41561985 3400.262938 50.42650986
16 09 2018 19:40
                 3166.24707 12.00224972 3522.299398 50.7544899
16 09 2018 19:50
16 09 2018 20:00 2856.794922 11.12854004 3315.962308 50.8081398
16 09 2018 20:10 2499.303955 10.27260017 2950.276527 49.59054947
16 09 2018 20:20 2630.678955 10.55825043 3093.110672 50.86531067
16 09 2018 20:30 2702.230957 10.44445992 3038.891392 50.08618927
16 09 2018 20:40 3076.513916 11.53316975 3429.909203 52.26414108
16 09 2018 20:50
                 3536.641113 12.66592026 3589.451563 54.29457092
                 3495.474121 12.46578026 3576.484268 53.65990067
16 09 2018 21:00
16 09 2018 21:10 3580.196045 13.12736988 3600 59.7670517
16 09 2018 21:20 3589.686035 12.79257011 3594.572464 59.11465073
16 09 2018 21:30 3601.916016 13.10254955 3600 62.15272903
16 09 2018 21:40 3586.9729
                             13.09412956 3600 61.79312897
16 09 2018 21:50 3533.455078 12.70275021 3591.183988 63.61402893
16 09 2018 22:00 3602.520996 13.48256016 3600 64.90054321
16 09 2018 22:10 3598.365967 13.12170029 3600 65.54807281
16 09 2018 22:20 3414.940918 12.02418995 3525.661545 62.86487961
16 09 2018 22:30 3314.4729
                            11.77112961 3481.786311 63.59803009
16 09 2018 22:40 2973.680908 11.07092953 3296.914286 62.60268021
16 09 2018 22:50 2944.825928 10.85534
                                         3218.939642 63.13941956
16 09 2018 23:00 2937.35498 10.88251972 3229.367002 61.40991974
16 09 2018 23:10 3140.321045 11.35085964 3382.747752 63.18881989
16 09 2018 23:20 3401.1521
                             12.11472988 3538.674389 64.14333344
16 09 2018 23:30 3305.976074 12.07960033 3533.789031 66.72088623
16 09 2018 23:40 2917.735107 10.85527992 3218.916397 63.31565857
16 09 2018 23:50 2914.087891 10.80088997 3197.517248 59.48112106
17 09 2018 00:00 2418.573975 9.962788582 2768.74709 60.65312958
17 09 2018 00:10 2476.208008 9.986275673 2783.539031 58.19430923
17 09 2018 00:20 3416.580078 12.1947298 3549.036119 63.69524002
17 09 2018 00:30 2929.158936 11.05023003 3289.889816 61.71368027
17 09 2018 00:40 2766.068115 10.68091011 3147.750263 61.10623932
17 09 2018 00:50 3221.608887 11.83753967 3494.396056 61.97367096
17 09 2018 01:00 3437.726074 12.10803032 3537.758603 62.10955048
17 09 2018 01:10 3341.905029 11.86380959 3499.165843 62.87902069
17 09 2018 01:20 3301.075928 11.92815971 3510.334292 64.24182129
17 09 2018 01:30
                 3334.174072 11.87773991 3501.645424 62.4446106
17 09 2018 01:40 3395.394043 12.0836401 3534.361335 63.00265884
17 09 2018 01:50 3528.849121 12.34078979 3565.271825 60.58853149
17 09 2018 02:00 3487.335938 12.0592804 3530.868757 59.71298981
17 09 2018 02:10 3525.647949 12.32215977 3563.390788 61.01570892
17 09 2018 02:20 3460.72998 11.87427044 3501.031075 60.97885895
17 09 2018 02:30 3542.718018 12.7337904 3592.48867 63.51607895
17 09 2018 02:40 3336.88208 11.50813007 3423.822618 57.55371094
17 09 2018 02:50 3389.184082 12.04452991 3528.705284 59.01963043
17 09 2018 03:00 3153.76709 11.34609032 3381.423998 59.35984039
17 09 2018 03:10 3350.032959 11.50471973 3422.984154 53.97716141
17 09 2018 03:20 3596.278076 13.28030014 3600 60.50405884
17 09 2018 03:30 3536.790039 12.68696022 3590.46582 59.6332016
17 09 2018 03:40
                 3519.820068 12.46212006 3576.19041 60.15550995
17 09 2018 03:50
                 3576.662109 13.02842045 3600 62.03712845
17 09 2018 04:00
                 3588.825928 13.60709953 3600 65.70453644
17 09 2018 04:10
                 3601.077881 13.73423958 3600 66.25930786
17 09 2018 04:20
                 3604.028076 13.94237041 3600 63.1150589
17 09 2018 04:30
                 3604.268066 14.9487896 3600
                                              68.52810669
17 09 2018 04:40 3600.929932 14.73626995 3600
                                               73.3310318
17 09 2018 04:50 3602.802979 13.59984016 3600 69.71092987
17 09 2018 05:00 3530.084961 12.84395027 3595.982191 67.35987091
17 09 2018 05:10 3493.605957 12.5101099 3579.879925 64.43538666
```

```
17 09 2018 05:20 3543.858887 12.80793953 3595.034273 67.11257172
                 3393.727051 11.9600296 3515.597367 66.58297729
17 09 2018 05:30
17 09 2018 05:40
                 3593.031982 13.18177032 3600 63.81306076
17 09 2018 05:50 3583.379883 13.20172024 3600 63.55152893
17 09 2018 06:00
                 3593.2229
                             12.94919014 3597.682778 61.87131882
17 09 2018 06:10
                 3589.368896 12.99013996 3597.917115 61.91617966
17 09 2018 06:20
                 3570.758057 13.15184975 3600 62.04108047
17 09 2018 06:30
                 3572.625
                             13.44521999 3600
                                               66.08138275
17 09 2018 06:40
                 3521.173096 13.31332016 3600
                                               65.75052643
                 3565.019043 13.21574974 3600 64.87404633
17 09 2018 06:50
17 09 2018 07:00
                 3361.39209 11.43459988 3405.235576 60.81523132
17 09 2018 07:10 3321.615967 11.62049961 3450.188338 58.51689911
17 09 2018 07:20 3468.547119 12.45985031 3576.007148 59.73983002
17 09 2018 07:30 3463.893066 12.02789021 3526.220492 60.34318161
17 09 2018 07:40 3505.736084 12.36355019 3567.495495 60.28686142
17 09 2018 07:50 3359.292969 11.93424988 3511.353684 57.65916824
17 09 2018 08:00 2835.183105 10.79852962 3196.572393 55.90130997
17 09 2018 08:10 2924.579102 10.74590015 3175.150506 55.32954025
17 09 2018 08:20 1516.651978 7.812259197 1424.388434 45.28952026
17 09 2018 08:30
                 1376.088013 7.616384983 1318.570202 45.38348007
                 1330.088989 7.471826077 1243.393678 51.91955948
17 09 2018 08:40
17 09 2018 08:50
                 1614.675049 8.195232391 1643.701178 54.49668884
17 09 2018 09:00
                 1577.473022 7.997803211 1528.738938 33.12944031
17 09 2018 09:10
                 1548.838013 8.125788689 1602.832438 35.50225067
17 09 2018 09:20 1215.307007 7.426236153 1220.035335 42.53401947
17 09 2018 09:30 1521.741943 7.961090088 1507.793898 36.99478912
17 09 2018 09:40 1929.232056 8.80185318 2017.121486 32.47758865
17 09 2018 09:50 2706.471924 10.44764042 3040.45416 31.61300087
17 09 2018 10:00 2711.164063 10.50747013 3069.342299 33.51147079
17 09 2018 10:10 2547.227051 10.01344013 2800.430424 32.80323029
17 09 2018 10:20 2389.225098 9.838459969 2687.500481 32.3417511
17 09 2018 10:30 2613.179932 10.31886005 2974.945658 28.68325996
17 09 2018 10:40 2171.281982 9.237306595 2297.957209 29.37623024
17 09 2018 10:50 1909.890015 9.013948441 2152.986789 33.32828903
17 09 2018 11:00 1957.185059 8.902346611 2081.238159 26.09254074
17 09 2018 11:10
                 2641.047119 10.65108013 3134.817772 27.50805092
                 2766.397949 10.45621967 3044.655937 22.75169945
17 09 2018 11:20
                 2328.364014 9.637687683 2545.447635 24.27539063
17 09 2018 11:30
17 09 2018 11:40 2854.38501 10.88827991 3231.554329 26.73660088
17 09 2018 11:50 2544.352051 10.34854031 2990.453386 29.22156906
17 09 2018 12:00 3212.934082 11.35175037 3382.994463 27.07320023
                             11.26885986 3359.332568 24.76268005
17 09 2018 12:10 3124.75
17 09 2018 12:20 3320.229004 11.85342026 3497.294151 25.78466988
17 09 2018 12:30 3276.093994 11.74866962 3477.340865 26.20694923
17 09 2018 12:40 3333.221924 11.85853958 3498.21882 26.80302048
17 09 2018 12:50 3141.101074 11.27552032 3361.286796 24.96785927
                            12.02688026 3526.068165 28.60269928
17 09 2018 13:00 3265.4021
17 09 2018 13:10 3037.304932 11.11748028 3312.362503 26.62111092
17 09 2018 13:20 2954.696045 10.90684032 3238.548961 26.75134087
17 09 2018 13:30
                 3044.916992 11.09080982 3303.570573 29.36174011
17 09 2018 13:40
                 3112.447021 11.15872955 3325.65212 28.79866028
17 09 2018 13:50
                 2795.913086 10.44143009 3037.400099 29.36507034
17 09 2018 14:00
                 2621.125
                             10.34175014 2986.927475 34.40908051
17 09 2018 14:10
                 2739.520996 10.21875954 2920.789177 33.05897903
17 09 2018 14:20
                 2851.235107 10.85052967 3217.075828 37.23027039
17 09 2018 14:30 2389.439941 9.890339851 2722.011611 35.49792099
17 09 2018 14:40 2342.197021 9.730886459 2613.096085 36.9904213
17 09 2018 14:50 3170.451904 11.50656033 3423.436964 39.32545853
17 09 2018 15:00 2330.266113 9.580265045 2502.254569 37.01002884
```

```
2329.697021 9.855895042 2699.196823 37.41952896
17 09 2018 15:10
                 2509.545898 10.2283802 2926.120019 38.58237076
17 09 2018 15:20
17 09 2018 15:30
                 2251.646973 9.544171333 2474.503193 36.85186005
17 09 2018 15:40 2155.710938 9.477661133 2455.321804 39.37216949
17 09 2018 15:50 1591.774048 8.312984467 1713.99734 38.58879089
17 09 2018 16:00 1776.651978 8.736605644 1975.773147 43.27294922
17 09 2018 16:10
                 1736.060059 8.632799149 1910.495545 45.15106964
                 1382.647949 8.000956535 1530.544517 48.93656921
17 09 2018 16:20
17 09 2018 16:30
                 1451.383057 8.199525833 1646.242643 46.69992828
                 1631.625977 8.341526031 1731.215491 50.44882965
17 09 2018 16:40
17 09 2018 16:50
                 1785.795044 8.699029922 1952.069552 49.37129974
17 09 2018 17:00 1639.702026 8.547293663 1857.237142 50.62802124
17 09 2018 17:10
                 1568.588013 8.421949387 1780.087231 53.52122116
17 09 2018 17:20 1484.439941 8.229550362 1664.062114 54.63542938
17 09 2018 17:30 1554.438965 8.465358734 1806.675334 58.95632935
17 09 2018 17:40 1825.185059 8.967666626 2123.16808 61.18984985
17 09 2018 17:50 2322.308105 10.09210014 2848.050499 63.53261948
17 09 2018 18:00 2364.330078 10.17341042 2895.295077 66.29699707
17 09 2018 18:10 2606.840088 10.49853039 3065.087
                                                     60.22549057
17 09 2018 18:20 2113.384033 9.491365433 2464.319103 57.76755905
17 09 2018 18:30 1772.354004 8.833064079 2036.980696 60.9618187
                 1931.354004 9.204044342 2276.272611 58.9717598
17 09 2018 18:40
17 09 2018 18:50
                 1355.484985 8.109966278 1593.584646 61.20309067
17 09 2018 19:00
                 1274.964966 7.907712936 1477.598838 56.56895065
17 09 2018 19:10 1396.937988 8.089561462 1581.694431 62.35525894
17 09 2018 19:20 2296.641113 9.924202919 2744.065765 65.14816284
17 09 2018 19:30 2483.062012 10.25586987 2941.203646 62.41667175
17 09 2018 19:40 2447.394043 9.841590881 2689.608228 61.45534134
17 09 2018 19:50 2658.281006 10.37924957 3006.238478 61.67601013
17 09 2018 20:00 3360.856934 12.53695011 3581.789945 65.53874207
17 09 2018 20:10 3531.966064 12.86353016 3596.41897 64.15705872
17 09 2018 20:20 3279.395996 11.97500038 3518.008942 63.94042969
17 09 2018 20:30 3480.733887 12.27742958 3558.649236 61.86552811
17 09 2018 20:40 3556.195068 12.94219017 3597.618855 59.45214844
17 09 2018 20:50 3594.409912 13.96407986 3600 60.98080063
17 09 2018 21:00
                 3582.690918 14.18153954 3600 61.46279907
17 09 2018 21:10
                 3598.297119 13.82781982 3600 59.87604904
17 09 2018 21:20
                 3602.603027 14.57003975 3600 60.86951065
17 09 2018 21:30 3602.570068 14.25605965 3600 60.67945099
17 09 2018 21:40 3603.208984 14.27748013 3600
                                               60.85126114
17 09 2018 21:50 3603.173096 14.58450985 3600
                                              61.29624939
17 09 2018 22:00 3559.062988 14.46282005 3600
                                              60.86663818
17 09 2018 22:10
                 3600.374023 14.20590019 3600
                                               62.10129929
17 09 2018 22:20
                 3593.683105 13.06186962 3600 58.38254929
17 09 2018 22:30 3491.654053 12.54899025 3582.611177 55.53884125
17 09 2018 22:40 3422.826904 12.33967972 3565.161282 58.32130814
17 09 2018 22:50
                 3249.569092 11.8303299 3493.065463 58.5692215
                 2803.728027 10.43486023 3034.157786 53.66933823
17 09 2018 23:00
17 09 2018 23:10 2891.561035 10.51955032 3075.058569 52.70225906
17 09 2018 23:20
                 3164.674072 11.32890987 3376.616655 55.54627991
17 09 2018 23:30
                 3111.659912 11.04792023 3289.100007 50.74488831
17 09 2018 23:40
                 3074.561035 10.83605003 3211.432063 53.19752884
17 09 2018 23:50
                 3177.844971 11.38037014 3390.834995 53.10863876
18 09 2018 00:00
                 3236.174072 11.52552032 3428.062779 54.07241058
18 09 2018 00:10
                 3295.062012 11.76082993 3479.759147 56.49209976
18 09 2018 00:20 3483.26001 12.22764015 3552.99424 56.33958054
18 09 2018 00:30 3190.604004 11.17833996 3331.840033 54.32958984
18 09 2018 00:40 3180.711914 11.46652031 3413.436059 53.47024155
18 09 2018 00:50 3203.834961 11.38187027 3391.241354 55.1928215
```

```
18 09 2018 01:00 3473.176025 12.64980984 3588.630547 58.34115982
                 3503.821045 12.65676022 3588.989481 54.66833878
18 09 2018 01:10
18 09 2018 01:20
                 3447.594971 12.30138969 3561.228754 55.4342804
18 09 2018 01:30 3547.693115 13.0488596 3600 54.92514038
18 09 2018 01:40 3590.704102 12.72805023 3592.258076 53.19347
18 09 2018 01:50
                 3064.154053 10.94011021 3250.884428 51.65942001
                 2812.229004 10.33740997 2984.666971 50.30831909
18 09 2018 02:00
                 3119.194092 10.79722023 3196.047652 45.87900925
18 09 2018 02:10
18 09 2018 02:20
                 3150.173096 11.09829998 3306.055611 47.61962891
                 3041.174072 11.19581985 3337.285554 48.34597015
18 09 2018 02:30
18 09 2018 02:40
                 3194.434082 11.5459404 3432.966442 50.56871033
18 09 2018 02:50 3260.748047 11.71642971 3470.798179 51.14810944
18 09 2018 03:00 2933.021973 10.96105957 3258.519413 49.8884697
18 09 2018 03:10 3157.63501 11.42541981 3402.839492 49.63142014
18 09 2018 03:20 2392.89502 9.711565018 2599.31788 48.62155914
18 09 2018 03:30 1965.920044 9.073155403 2191.254259 49.10329056
18 09 2018 03:40
                 1854.32605 8.8253479 2032.066292 51.28284073
18 09 2018 03:50 2417.196045 10.23614979 2930.405464 56.58594894
18 09 2018 04:00 2478.728027 10.0516901 2823.824924 53.06216049
18 09 2018 04:10 2571.167969 10.46726036 3050.033849 52.89429855
18 09 2018 04:20
                 2655.129883 10.36822033 3000.599563 51.14860916
                 3023.852051 11.35249996 3383.201954 53.87767029
18 09 2018 04:30
                 3304.849121 12.4364996 3574.075607 57.69655991
18 09 2018 04:40
18 09 2018 04:50 3444.471924 12.23933983 3554.359004 56.36766052
18 09 2018 05:00 3106.071045 11.39531994 3394.864213 55.82818985
18 09 2018 05:10 2839.830078 11.00881004 3275.543684 53.94554138
18 09 2018 05:20 2094.079102 9.149640083 2240.870275 53.85927963
18 09 2018 05:30 2698.139893 10.68288994 3148.600619 51.76119995
18 09 2018 05:40 2518.633057 9.850829124 2695.808647 49.42658997
18 09 2018 05:50 2191.695068 9.145332336 2238.070819 44.21607971
18 09 2018 06:00 1862.043945 8.70853138 1958.055511 46.52125931
18 09 2018 06:10 1502.228027 8.11250782 1595.068482 48.44815826
18 09 2018 06:20 2508.927979 9.742222786 2621.12075 39.63758087
18 09 2018 06:30 1643.232056 8.391955376 1761.800429 48.33304977
18 09 2018 06:40 1307.293945 7.597432137 1308.585219 39.82209015
                 1552.390015 7.891882896 1468.703667 37.22377014
18 09 2018 06:50
                 1989.170044 8.789770126 2009.446823 38.8404808
18 09 2018 07:00
18 09 2018 07:10 910.6370239 6.65403223 867.5725506 41.59901047
18 09 2018 07:20 2220.428955 9.28572464 2329.570724 33.34893036
18 09 2018 07:30 2046.692017 8.945896149 2109.172451 36.93215179
18 09 2018 07:40 1785.152954 8.567302704 1869.656359 31.66080093
18 09 2018 07:50 1921.661011 8.906887054 2084.146563 31.47598076
18 09 2018 08:00 1654.868042 8.390229225 1760.750171 32.12643051
18 09 2018 08:10
                 1574.432007 8.267048836 1686.430215 35.11188126
18 09 2018 08:20
                 2161.240967 9.235379219 2296.699927 31.65756035
18 09 2018 08:30
                 1738.505005 8.50802803 1832.946486 34.21905899
                 1518.577026 8.201793671 1647.585748 37.26649857
18 09 2018 08:40
                 1159.866943 7.296923161 1155.458717 34.03900909
18 09 2018 08:50
18 09 2018 09:00
                 1421.348999 7.926699162 1488.303827 29.87491035
                 880.7382813 6.620316029 853.8635919 38.08575058
18 09 2018 09:10
18 09 2018 09:20
                 1041.564941 6.976261139 1005.338126 36.07278824
                 1894.560059 8.907641411 2084.629861 42.35589981
18 09 2018 09:30
18 09 2018 09:40
                 2025.349976 8.74902153 1983.623174 34.71953964
18 09 2018 09:50
                 2330.48291 9.383601189 2393.625022 30.33221054
18 09 2018 10:00
                 2024.887939 9.166172981 2251.619632 28.61092949
18 09 2018 10:10 2115.708008 9.236069679 2297.150323 33.86420059
18 09 2018 10:20 2765.5
                         10.52363014 3076.98034 34.59365845
18 09 2018 10:30 2828.794922 10.49419022 3063.013377 34.01897812
18 09 2018 10:40 2076.85498 9.092556 2203.821103 37.68938828
```

```
18 09 2018 10:50 2356.962891 9.766212463 2637.958541 33.64707947
                 2039.244995 8.932930946 2100.847232 37.37657928
18 09 2018 11:00
18 09 2018 11:10 2645.11792 10.1539402 2884.162666 32.64179993
18 09 2018 11:20 1777.426025 8.407239914 1771.110371 33.22851944
18 09 2018 11:30 3186.534912 11.44318962 3407.462297 34.4956398
18 09 2018 11:40 2389.746094 9.708727837 2597.283906 34.8752594
18 09 2018 11:50 3195.363037 11.72292042 3472.130763 35.66007996
18 09 2018 12:00 3087.164063 10.99859047 3271.944113 35.12508011
18 09 2018 12:10
                 3376.966064 12.12217045 3539.682712 33.50471115
                 3425.730957 12.32466984 3563.64743 33.56298065
18 09 2018 12:20
18 09 2018 12:30
                 3253.006104 12.0448904 3528.758596 36.01808929
18 09 2018 12:40 3068.485107 11.12152958 3313.68362 36.32918167
18 09 2018 12:50 2205.981934 9.207210541 2278.335499 33.72766876
18 09 2018 13:00 2860.729004 10.53602028 3082.78956 30.65988922
18 09 2018 13:10 2729.846924 10.21288967 2917.523371 29.12236977
18 09 2018 13:20 2209.846924 9.606513023 2522.143153 33.07143021
18 09 2018 13:30 2395.333984 9.608482361 2523.625482 32.05498886
18 09 2018 13:40 3310.209961 11.55550003 3435.234284 34.74077988
18 09 2018 13:50 2106.6521
                             9.40747261 2409.272177 41.76433945
18 09 2018 14:00 1803.640991 8.494514465 1824.611971 45.68272018
18 09 2018 14:10 2816.827881 10.52877998 3079.399828 34.37831116
                 2641.173096 10.50555992 3068.434838 37.57546997
18 09 2018 14:20
18 09 2018 14:30
                 2038.657959 9.035759926 2167.069047 34.48620987
18 09 2018 14:40 3194.096924 11.66547012 3460.064419 38.41799927
18 09 2018 14:50 1371.198975 7.532783985 1274.879748 49.08866882
18 09 2018 15:00 1517.329956 7.993718147 1526.401388 44.34111023
18 09 2018 15:10 1919.56897 8.701644897 1953.716466 41.48667908
18 09 2018 15:20 2431.718994 9.77741909 2645.757592 41.00128937
18 09 2018 15:30 2219.26709 9.457296371 2441.955027 45.58547974
18 09 2018 15:40 2084.929932 9.217167854 2284.824768 41.96187973
18 09 2018 15:50 2251.714111 9.514636993 2451.445119 40.70375824
18 09 2018 16:00 1959.81897 9.070279121 2189.392251 50.20261002
18 09 2018 16:10 1653.389038 8.311988831 1713.397933 48.28961945
18 09 2018 16:20 2375.38501 9.887346268 2720.044123 46.87453079
18 09 2018 16:30 1961.312012 8.933229446 2101.038821 45.48524857
                 2616.006104 10.41664028 3025.10424 51.62319946
18 09 2018 16:40
18 09 2018 16:50
                 1800.921021 8.607714653 1894.821371 53.2232399
18 09 2018 17:00
                 1930.661987 8.948465347 2110.823057 57.04550934
18 09 2018 17:10 2238.000977 9.557071686 2484.475681 57.34748077
18 09 2018 17:20 2794.436035 11.25545025 3355.369757 62.58073044
18 09 2018 17:30 2520.761963 10.52945995 3079.718764 65.69333649
18 09 2018 17:40 2686.467041 10.79366016 3194.618843 66.76928711
18 09 2018 17:50 2532.996094 10.49153996 3061.744667 68.41848755
18 09 2018 18:00 3175.364014 11.72144985 3471.829527 68.59889984
18 09 2018 18:10 3370.050049 12.31340027 3562.487342 70.3704071
18 09 2018 18:20 2977.407959 11.42595005 3402.97835 72.47232819
                 2732.033936 10.74046993 3172.901409 72.76461792
18 09 2018 18:30
18 09 2018 18:40 3424.48291 12.61324978 3586.623949 74.02246857
18 09 2018 18:50
                 3573.128906 13.47430992 3600 74.55885315
18 09 2018 19:00
                 3596.896973 13.7224102 3600 72.95110321
18 09 2018 19:10
                 3602.894043 14.94295025 3600 68.67617798
18 09 2018 19:20
                 3603.400879 15.48917007 3600 65.31891632
18 09 2018 19:30
                 3602.967041 15.23386002 3600 66.67323303
18 09 2018 19:40
                 3603.180908 15.09004021 3600 70.81880951
18 09 2018 19:50
                 3599.740967 13.39381981 3600
                                               70.49703979
18 09 2018 20:00
                 3583.968018 13.35056973 3600
                                               72.40573883
18 09 2018 20:10 3573.329102 13.21438026 3600 71.93048859
18 09 2018 20:20 3562.958984 13.05895996 3600 71.81065369
18 09 2018 20:30 3436.13501 11.99413967 3521.035777 69.11319733
```

```
18 09 2018 20:40 3422.50708 12.37796021 3568.861207 72.0581131
                 3239.791992 12.0190897 3524.887301 72.46473694
18 09 2018 20:50
18 09 2018 21:00
                 3574.315918 13.04648018 3600 72.06710815
18 09 2018 21:10 3584.1521
                            13.2644701 3600 70.84147644
18 09 2018 21:20 3562.177979 12.8593502 3596.330364 67.55748749
18 09 2018 21:30 3558.456055 12.76721954 3593.735649 69.21485901
18 09 2018 21:40
                 3535.523926 12.67696953 3589.992382 69.68746185
                 3480.090088 12.5553503 3583.036114 69.04788208
18 09 2018 21:50
18 09 2018 22:00
                 3584.504883 13.12001991 3600 69.16906738
                 3588.032959 13.31884956 3600
18 09 2018 22:10
                                              67.02934265
18 09 2018 22:20
                 3569.89502 13.16287994 3600 67.62579346
18 09 2018 22:30 3529.104004 12.62158012 3587.098721 67.89968872
18 09 2018 22:40 3537.805908 12.41184044 3571.944153 66.62854767
18 09 2018 22:50 3576.214111 12.69167042 3590.683906 66.10817719
18 09 2018 23:00 3450.754883 12.18719959 3548.10565 65.29538727
18 09 2018 23:10 3463.534912 12.15340996 3543.816028 63.79309845
18 09 2018 23:20 3486.836914 12.61522007 3586.73718 63.00325012
18 09 2018 23:30 3417.804932 12.01688957 3524.551943 62.41197968
18 09 2018 23:40 3229.147949 11.52503014 3427.944069 62.44910049
18 09 2018 23:50 3070.032959 11.12810993 3315.822817 60.80261993
19 09 2018 00:00 2724.084961 10.5137701 3072.328256 58.9650383
19 09 2018 00:10 2922.164063 11.19262981 3336.296673 59.91793823
19 09 2018 00:20 2497.217041 10.23808956 2931.472637 60.03995132
19 09 2018 00:30 2804.946045 10.73799038 3171.871994 61.3001709
19 09 2018 00:40 2795.728027 10.88313961 3229.602771 64.28029633
19 09 2018 00:50 2551.856934 10.06643009 2832.719471 63.84394836
19 09 2018 01:00 2592.886963 10.43478966 3034.122894 63.73276138
19 09 2018 01:10 2840.585938 10.7863903 3191.691532 61.83742142
19 09 2018 01:20 2528.822998 10.16847992 2892.486651 64.10733032
19 09 2018 01:30 2823.488037 10.84016991 3213.043
                                                   63.75030136
19 09 2018 01:40 2569.708008 10.22817993 2926.009323 64.38482666
19 09 2018 01:50 2712.327881 10.76823997 3184.32661 66.1574173
19 09 2018 02:00 2487.363037 10.10921001 2858.157551 64.37428284
19 09 2018 02:10 2859.909912 10.74969006 3176.715888 64.58862305
19 09 2018 02:20 2894.915039 10.84442043 3214.700751 63.00550079
                 2645.464111 10.51636982 3073.557344 62.83670044
19 09 2018 02:30
                 2682.478027 10.57373047 3100.221098 63.50006104
19 09 2018 02:40
19 09 2018 02:50
                 2644.964111 10.35431004 2993.439247 63.93645096
19 09 2018 03:00 2951.634033 10.98941994 3268.693714 64.53336334
19 09 2018 03:10 2573.773926 10.45351028 3043.331146 64.9803009
19 09 2018 03:20 2114.724121 9.396325111 2401.964213 66.4107666
19 09 2018 03:30 2275.941895 9.685429573 2580.476609 65.91506195
19 09 2018 03:40 2622.207031 10.48976994 3060.89629 66.14225006
19 09 2018 03:50 2705.819092 10.41388988 3023.72965 63.96289825
19 09 2018 04:00 2893.977051 10.95007992 3254.530587 64.93398285
19 09 2018 04:10 3080.148926 11.37639999 3389.757341 64.81719208
                 3277.873047 12.01290989 3523.943235 65.79955292
19 09 2018 04:20
19 09 2018 04:30 3360.751953 12.1104002 3538.083405 66.38686371
19 09 2018 04:40 3053.814941 11.15806961 3325.442427 64.18099976
19 09 2018 04:50
                 3295.084961 11.92012978 3508.980325 63.70730972
19 09 2018 05:00
                 3421.954102 12.18811035 3548.21868 65.66956329
19 09 2018 05:10 3297.604004 11.86795044 3499.9065
                                                     61.89447021
19 09 2018 05:20
                 2669.77002 10.36616039 2999.542622 60.12273026
19 09 2018 05:30
                 3083.356934 11.2781601 3362.058745 59.04944992
19 09 2018 05:40
                 2676.771973 10.40723038 3020.39275 60.19842911
19 09 2018 05:50 3273.183105 11.64809036 3456.292783 57.84700012
19 09 2018 06:00 2910.87207 10.98025036 3265.424374 60.02869034
19 09 2018 06:10 3144.943115 11.45020962 3409.271149 65.73735809
19 09 2018 06:20 3331.290039 11.80358028 3488.047277 63.49238968
```

```
19 09 2018 06:30 3397.233887 12.34595966 3565.784087 66.54026794
                 2997.579102 10.69231987 3152.637299 61.26869965
19 09 2018 06:40
19 09 2018 06:50 2087.917969 9.178599358 2259.704311 66.74500275
19 09 2018 07:00 2783.485107 10.58551025 3105.58991 61.03179932
19 09 2018 07:10 3049.706055 11.36357975 3386.255479 63.53186035
19 09 2018 07:20 2952.337891 11.20263004 3339.389323 62.91468811
                 2869.053955 10.87660027 3227.111003 64.95179749
19 09 2018 07:30
                 2807.111084 10.81659985 3203.771494 63.21995926
19 09 2018 07:40
19 09 2018 07:50
                 3091.487061 11.22924042 3347.514395 62.73099899
                 3145.483887 11.36693001 3387.173844 62.26599884
19 09 2018 08:00
19 09 2018 08:10 3314.431885 11.83765984 3494.418153 64.01508331
19 09 2018 08:20 2612.936035 10.4204998 3027.029643 63.27510071
19 09 2018 08:30 2707.690918 10.63092041 3125.949347 62.04714966
19 09 2018 08:40 2815.308105 10.67191029 3143.872256 59.96403122
19 09 2018 08:50
                 2516.12793 10.21189976 2916.97162 57.94939041
19 09 2018 09:00
                 2953.164063 11.05255985 3290.685256 59.22208023
19 09 2018 09:10
                 3427.438965 12.01718044 3524.596327 59.70116043
19 09 2018 09:20 2945.406006 11.04714966 3288.836253 59.5918808
19 09 2018 09:30 2412.977051 9.911748886 2735.99778 61.72143936
19 09 2018 09:40 3363.430908 11.73655987 3474.905741 58.88161087
19 09 2018 09:50
                 3371.591064 11.75611973 3478.82565 56.8139801
                 2672.518066 10.46337986 3048.147422 59.54833984
19 09 2018 10:00
19 09 2018 10:10
                 2446.687988 9.975958824 2777.063046 62.95880127
19 09 2018 10:20
                 2671.461914 10.58493042 3105.326489 63.88267136
19 09 2018 10:30
                 2655.789063 10.34307003 2987.613864 62.56414032
19 09 2018 10:40 2081.133057 9.083732605 2198.104081 58.69509888
19 09 2018 10:50 1802.390991 8.395909309 1764.207045 57.30218887
19 09 2018 11:00 2800.61499 10.6895504 3151.454094 60.13945007
19 09 2018 11:10 2660.388916 10.45676994 3044.924755 60.06645966
                 1463.537964 7.723618031 1375.921089 51.23469925
19 09 2018 11:20
19 09 2018 11:30 1922.828979 8.79368782 2011.934333 40.14733887
19 09 2018 11:40 2033.895996 8.972924232 2126.551062 33.17045975
19 09 2018 11:50 1715.462036 8.389169693 1760.105626 33.86259079
19 09 2018 12:00 2523.533936 9.74160099 2620.681732 34.52140045
19 09 2018 12:10 2503.235107 9.964839935 2770.045967 33.97410965
19 09 2018 12:20
                 2871.229004 10.89396954 3233.707149 40.6907692
19 09 2018 12:30
                 2858.541992 10.62427044 3123.001124 38.63114929
19 09 2018 12:40
                 3277.540039 11.288888035 3365.178661 35.76742172
19 09 2018 12:50 3112.437012 11.17821026 3331.799381 40.18576813
19 09 2018 13:00 3202.881104 11.23272038 3348.565772 37.11297989
19 09 2018 13:10 3113.169922 11.24258995 3351.533597 39.05416107
19 09 2018 13:20 3138.374023 11.2667799 3358.72038 41.02949142
19 09 2018 13:30 3232.163086 11.35237026 3383.16606 38.59465027
19 09 2018 13:40
                 3200.260986 11.39659023 3395.204489 43.70944977
19 09 2018 13:50
                 2944.457031 10.34539986 2988.824263 40.37759018
19 09 2018 14:00
                 2434.043945 9.636649132 2544.676783 40.21712875
19 09 2018 14:10
                 2278.73291 9.29854393 2337.949624 40.942379
                 3098.188965 11.27025986 3359.74411 51.80698013
19 09 2018 14:20
19 09 2018 14:30
                 3260.572021 11.70326042 3468.07052 51.87699127
19 09 2018 14:40
                 2777.39502 10.64993954 3134.318787 52.94906998
19 09 2018 14:50
                 2506.450928 10.06268024 2830.46304 50.31044006
19 09 2018 15:00
                 2674.197021 10.36964989 3001.332364 50.78456879
19 09 2018 15:10
                 2730.194092 10.4615202 3047.241938 50.07447815
19 09 2018 15:20
                 3212.77002 11.47095013 3414.558083 51.48757172
19 09 2018 15:30
                 3415.101074 12.07740974 3533.47755 50.51588058
19 09 2018 15:40
                 3188.831055 11.50432968 3422.888111 51.56401062
19 09 2018 15:50 3122.562012 11.2466898 3352.760362 50.05828094
19 09 2018 16:00 2961.980957 11.03466988 3284.545971 51.26539993
19 09 2018 16:10 3183.884033 11.61209965 3448.301224 53.17613983
```

```
3137.256104 11.09455967 3304.816231 53.80794907
19 09 2018 16:20
                 3550.448975 12.63591957 3587.891675 55.67784119
19 09 2018 16:30
                             13.39303017 3600 57.86832047
19 09 2018 16:40
                 3587.75
19 09 2018 16:50
                 3576.888916 13.71331978 3600 59.41896057
                 3485.636963 12.82806015 3595.587046 58.48089981
19 09 2018 17:00
19 09 2018 17:10
                 3481.224121 12.4263401 3573.208889 58.68151093
                 3387.745117 11.98991966 3520.373801 58.57947922
19 09 2018 17:20
                 3383.656982 12.1046896 3537.299154 59.08966827
19 09 2018 17:30
19 09 2018 17:40
                 3487.668945 12.37619019 3568.695208 59.15557098
                 3425.716064 12.30296993 3561.395659 60.62826157
19 09 2018 17:50
19 09 2018 18:00
                 3358.001953 12.28892994 3559.8988
                                                     61.43399048
19 09 2018 18:10
                 3369.863037 12.30144024 3561.234098 62.37065125
19 09 2018 18:20
                 3378.532959 12.31972027 3563.140405 63.4407692
19 09 2018 18:30
                 3224.670898 11.79378033 3486.176581 63.79230118
19 09 2018 18:40 3267.019043 11.8738699 3500.960013 63.57872009
19 09 2018 18:50
                 3192.687988 11.58915997 3443.079204 64.65576172
19 09 2018 19:00
                 2890.676025 10.96187019 3258.812799 65.02979279
19 09 2018 19:10 2664.844971 10.36209011 2997.450703 65.31237793
19 09 2018 19:20 2810.013916 10.93397999 3248.630977 65.9491272
                 2662.794922 10.52256966 3076.481231 66.32325745
19 09 2018 19:30
                 2981.947021 11.18680954 3334.486797 68.13754272
19 09 2018 19:40
19 09 2018 19:50
                 3076.628906 11.52853012 3428.790646 68.80912018
                 2930.628906 11.0864296 3302.111554 70.20507813
19 09 2018 20:00
19 09 2018 20:10
                 3289.523926 11.92498016 3509.799519 71.61646271
                 2706.937012 10.71383953 3161.765519 73.09261322
19 09 2018 20:20
19 09 2018 20:30 2569.879883 10.3052597 2967.756303 71.41251373
19 09 2018 20:40 2510.591064 10.43490982 3034.182304 71.8884964
19 09 2018 20:50 2714.343994 10.64521027 3132.246296 71.16103363
19 09 2018 21:00 2656.749023 10.52567005 3077.939568 69.3884964
19 09 2018 21:10 2609.254883 10.38381958 3008.565067 70.1282196
19 09 2018 21:20
                 2759.065918 10.75467968 3178.771389 69.73310089
19 09 2018 21:30
                 3210.074951 11.84582043 3495.912844 70.9072113
19 09 2018 21:40
                 3214.118896 11.83586025 3494.086942 70.26717377
19 09 2018 21:50
                 3323.666992 12.1103096 3538.071005 68.48438263
                 3182.496094 11.56258011 3436.902511 68.87976837
19 09 2018 22:00
19 09 2018 22:10
                 2927.856934 11.13992023 3319.63837 68.99687958
                 3031.990967 11.24170017 3351.266885 68.50520325
19 09 2018 22:20
19 09 2018 22:30
                 3418.214111 12.27598953 3558.491277 67.15065765
19 09 2018 22:40
                 3085.291992 11.38226986 3391.349519 67.40122986
19 09 2018 22:50 3108.581055 11.43056965 3404.185729 67.13130188
19 09 2018 23:00 3171.273926 11.57295036 3439.32853 66.39391327
19 09 2018 23:10 2838.018066 10.89925003 3235.698323 65.3839035
19 09 2018 23:20 2844.724121 10.92928982 3246.900965 66.83473206
19 09 2018 23:30 3173.343994 11.62059021 3450.208619 65.47252655
19 09 2018 23:40
                 3049.487061 11.51473045 3425.43891 64.70346069
19 09 2018 23:50
                 3110.854004 11.75562
                                         3478.726374 68.62071991
                 3092.379883 11.72064018 3471.663501 68.13597107
20 09 2018 00:00
20 09 2018 00:10
                 3243.4021
                             12.06145
                                         3531.183876 68.49700928
20 09 2018 00:20
                 2936.971924 11.27258015 3360.425276 68.45993805
20 09 2018 00:30
                 2939.916992 11.18194008 3332.966973 66.80767822
                 3206.191895 11.8639698 3499.194557 67.32621765
20 09 2018 00:40
20 09 2018 00:50
                 3285.001953 12.03934956 3527.93674 64.62359619
20 09 2018 01:00
                 3464.246094 12.23246002 3553.55916 65.39842987
20 09 2018 01:10
                 3137.64502 11.55150986 3434.289841 66.11392212
20 09 2018 01:20
                 3303.634033 11.91351986 3507.85734 65.3546524
20 09 2018 01:30
                 3199.36499 11.80967045 3489.201091 65.96206665
20 09 2018 01:40 3144.146973 11.58152008 3441.317723 65.31260681
20 09 2018 01:50 3124.429932 11.7910099 3485.644594 67.57148743
20 09 2018 02:00 2977.462891 11.00724983 3274.995683 65.64424133
```

```
2917.293945 11.10433006 3308.047197 67.44480133
20 09 2018 02:10
                 2951.675049 11.1510601 3323.20935 65.49672699
20 09 2018 02:20
                 2667.957031 10.53468037 3082.163292 64.74179077
20 09 2018 02:30
20 09 2018 02:40 2824.01001 11.08646965 3302.124915 66.96304321
20 09 2018 02:50
                 2665.326904 10.62481022 3123.240855 63.35757828
20 09 2018 03:00
                 2657.394043 10.56478977 3096.122041 62.71234894
                 2631.238037 10.45423985 3043.688071 65.32198334
20 09 2018 03:10
                 3002.745117 11.37985039 3390.694096 64.95939636
20 09 2018 03:20
20 09 2018 03:30
                 2870.978027 11.11227036 3310.657409 62.03512955
                 2348.86792 9.927826881 2746.404082 64.24807739
20 09 2018 03:40
20 09 2018 03:50
                 3013.144043 11.39558029 3394.933981 62.3064003
20 09 2018 04:00 3176.208008 11.51994991 3426.711011 57.88285065
20 09 2018 04:10 2998.769043 11.20483971 3340.069781 59.58308029
20 09 2018 04:20
                 2768.799072 10.72455978 3166.269587 57.69713974
                 2738.565918 10.66664982 3141.596032 58.35375977
20 09 2018 04:30
20 09 2018 04:40 2751.549072 10.81120968 3201.632365 57.6089592
20 09 2018 04:50
                 2762.656006 10.72614956 3166.935083 60.54310989
20 09 2018 05:00 2740.780029 10.77025986 3185.15022 59.26808167
20 09 2018 05:10 2849.637939 10.92539024 3245.458659 59.87651062
                 2915.297119 11.21302032 3342.579859 58.06066132
20 09 2018 05:20
                 2660.104004 10.57353973 3100.13387 62.15999985
20 09 2018 05:30
20 09 2018 05:40
                 2782.683105 10.72577953 3166.780243 61.48984909
20 09 2018 05:50
                 2516.449951 10.28715992 2958.106784 60.90969086
20 09 2018 06:00
                 2086.104004 9.472399712 2451.867979 58.54708099
20 09 2018 06:10 1972.46106 8.988623619 2136.659586 60.63093185
20 09 2018 06:20 2224.270996 9.674992561 2572.886561 60.6493988
20 09 2018 06:30 2105.230957 9.486537933 2461.149507 60.69824982
20 09 2018 06:40 2373.919922 10.15373039 2884.04209 61.12443161
20 09 2018 06:50 2391.874023 10.08506966 2843.871674 59.21223068
20 09 2018 07:00
                 1913.44104 9.102143288 2210.036086 57.2150383
20 09 2018 07:10 1999.208008 9.148984909 2240.444463 57.53910828
20 09 2018 07:20 1851.562988 9.010197639 2150.566997 56.77523041
20 09 2018 07:30
                 1918.187012 9.051870346 2177.482056 56.08045959
20 09 2018 07:40 1849.485962 8.913763046 2088.552816 58.28393936
20 09 2018 07:50 1898.415039 8.900494576 2080.052101 58.39738083
                 1695.892944 8.633271217 1910.790906 58.05781174
20 09 2018 08:00
20 09 2018 08:10
                 1722.375977 8.710917473 1959.559594 60.64023972
20 09 2018 08:20
                 1732.917969 8.725598335 1968.821028 58.90979004
20 09 2018 08:30 1590.594971 8.544047356 1855.224814 61.51726913
20 09 2018 08:40 1400.55603 8.100326538 1587.96235 61.30541992
20 09 2018 08:50 1364.118042 8.087733269 1580.631102 60.48622131
20 09 2018 09:00 805.869873 6.319497108 737.1758831 47.85213089
20 09 2018 09:10 562.5305176 5.691259861 525.7392585 44.39469147
20 09 2018 09:20 649.3048706 6.129857063 668.6775971 45.38274002
20 09 2018 09:30
                 606.9523926 5.96458292 613.109044 41.45951843
20 09 2018 09:40
                 705.6193237 6.388474941 763.0525575 37.04574966
20 09 2018 09:50
                 716.0311279 6.292270184 727.103743 36.78359985
                 850.3862305 6.549621105 825.5378583 41.22687912
20 09 2018 10:00
20 09 2018 10:10
                 1040.999023 7.025382996 1027.456325 35.2387886
20 09 2018 10:20
                 1134.974976 7.351143837 1182.238635 33.19876099
20 09 2018 10:30
                 1149.686035 7.353602886 1183.463235 30.94482994
20 09 2018 10:40
                 981.2614136 6.921209812 980.9110582 27.12355042
20 09 2018 10:50
                 1179.458984 7.513587952 1264.978528 28.02288055
20 09 2018 11:00
                 1120.267944 7.375473976 1194.393819 28.93285942
20 09 2018 11:10
                 1073.037964 7.398670197 1206.063471 26.77655029
20 09 2018 11:20
                 1092.009033 7.382090092 1197.714191 30.41341972
20 09 2018 11:30 847.6945801 6.73194313 899.7514096 32.8396492
20 09 2018 11:40 817.8607788 6.672737122 875.234077 30.47670937
20 09 2018 11:50 803.7178955 6.576087952 836.076453 30.39896011
```

```
20 09 2018 12:00 907.9445801 6.860923767 954.5910791 34.84106827
                 852.4122925 6.884385109 964.781068 32.15887833
20 09 2018 12:10
20 09 2018 12:20
                 1002.671021 7.151086807 1085.478421 34.80234909
20 09 2018 12:30
                 1103.366943 7.395037174 1204.230503 35.99251938
20 09 2018 12:40 1412.744019 7.999277115 1529.58276 31.13858032
20 09 2018 12:50
                 1573.415039 8.233565331 1666.451127 31.69848061
20 09 2018 13:00
                 1569.953003 8.237812042 1668.979596 31.05437088
                 1628.817993 8.457579613 1801.900207 34.81209946
20 09 2018 13:10
                 1597.284058 8.251999855 1677.438523 35.93590927
20 09 2018 13:20
                 2215.187012 9.850736618 2695.746698 37.59486008
20 09 2018 13:30
20 09 2018 13:40
                 2335.937988 10.06980991 2834.749544 36.18719101
20 09 2018 13:50
                 2034.235962 9.148476601 2240.114112 36.06921005
20 09 2018 14:00
                 2228.072998 9.652142525 2556.137304 38.24256897
20 09 2018 14:10
                 2377.25708 10.14912987 2881.394869 38.64796829
20 09 2018 14:20
                 2361.434082 10.16676998 2891.510978 38.47938156
                 1719.915039 8.65329361 1923.331317 41.76379013
20 09 2018 14:30
                 1656.508057 8.42874527 1784.240244 40.38494873
20 09 2018 14:40
20 09 2018 14:50 1891.071045 8.900650978 2080.152257 39.44538116
20 09 2018 15:00 2059.500977 9.343491554 2367.354373 38.81647873
                 1934.196045 9.042170525 2171.211396 40.31343842
20 09 2018 15:10
20 09 2018 15:20
                 1958.967041 9.168025017 2252.824293 41.59597015
20 09 2018 15:30
                 2030.901001 9.239398956 2299.322221 42.89974976
20 09 2018 15:40
                 1736.072998 8.545113564 1855.885657 49.2646904
20 09 2018 15:50
                 2170.235107 9.505039215 2443.883587 49.23352814
20 09 2018 16:00
                 2083.511963 9.409991264 2410.923573 49.50535965
20 09 2018 16:10
                 2291.164063 9.955795288 2764.309035 52.57054138
20 09 2018 16:20 2058.437988 9.444580078 2433.610683 51.9134903
20 09 2018 16:30 2150.35791 9.69942379 2590.594429 53.04373932
20 09 2018 16:40 2266.585938 9.833469391 2684.134114 51.98524094
20 09 2018 16:50 2691.341064 10.70785046 3159.236732 54.36711884
20 09 2018 17:00 2844.101074 11.08775997 3302.555143 57.9254303
20 09 2018 17:10 3129.715088 11.62129974 3450.367395 55.05094147
20 09 2018 17:20 3336.629883 12.24991989 3555.574118 57.49082184
20 09 2018 17:30 3582.763916 13.39103031 3600 61.09896088
20 09 2018 17:40 3529.394043 12.91518974 3597.306823 60.84091949
                 3600.384033 12.84517002 3596.011016 60.29738998
20 09 2018 17:50
                 3512.791016 12.91046047 3597.24145 62.71617126
20 09 2018 18:00
                 3543.35498 12.67315006 3589.80748 62.23603058
20 09 2018 18:10
20 09 2018 18:20
                 3568.563965 13.09743023 3600 62.95862961
20 09 2018 18:30
                 3557,409912 13,06641006 3600 62,07913971
20 09 2018 18:40 3554.532959 12.85544968 3596.245412 60.91699982
20 09 2018 18:50 3491.284912 12.67195034 3589.748955 63.23455811
20 09 2018 19:00
                 3585.51709 13.26294994 3600 66.29588318
20 09 2018 19:10
                 3590.072021 13.13335991 3600 64.62123108
20 09 2018 19:20
                 3475.551025 12.44723034 3574.973702 64.82804108
20 09 2018 19:30
                 3554.555908 12.72490978 3592.12987 64.62713623
20 09 2018 19:40
                 3292.423096 11.78944969 3485.344385 63.73477936
                 3376.420898 12.40894032 3571.687265 67.82305145
20 09 2018 19:50
20 09 2018 20:00 3241.118896 11.94946003 3513.871424 67.93437195
20 09 2018 20:10
                 2987.745117 11.57960033 3440.873339 73.7919693
20 09 2018 20:20
                 2928.549072 11.08887005 3302.924976 68.65061188
20 09 2018 20:30
                 3122.47998 11.52937984 3428.995818 63.62503815
20 09 2018 20:40
                 3195.915039 11.86036968 3498.548249 63.19306946
20 09 2018 20:50
                 3159.675049 12.00244999 3522.33046 62.28427124
20 09 2018 21:00
                 2724.035889 10.9575901 3257.261999 61.89807129
20 09 2018 21:10 2694.419922 10.80704021 3199.972851 61.57421875
20 09 2018 21:20 2641.0271 10.61061954 3116.913419 59.46522903
20 09 2018 21:30 2291.498047 9.926101685 2745.291445 60.83721924
20 09 2018 21:40 2111.082031 9.537725449 2469.497748 60.79814911
```

```
20 09 2018 21:50 2175.958008 9.670676231 2569.736578 63.57120895
                 2128.403076 9.561127663 2487.598724 63.05464935
20 09 2018 22:00
20 09 2018 22:10
                 2155.350098 9.584275246 2505.309059 62.94178009
20 09 2018 22:20 2265.773926 9.689206123 2583.213717 58.89603043
20 09 2018 22:30
                 2350.904053 9.934304237 2750.573028 58.93169022
20 09 2018 22:40
                 1953.972046 9.064466476 2185.630241 59.79209137
                 1653.573975 8.379543304 1754.253685 55.65378952
20 09 2018 22:50
                 1323.879028 7.81447506 1425.611891 59.38335037
20 09 2018 23:00
                 1900.088989 8.944951057 2108.56534 58.74834824
20 09 2018 23:10
20 09 2018 23:20
                 1674.912964 8.561689377 1866.16952 57.07598877
20 09 2018 23:30
                 1594.735962 8.364136696 1744.903309 59.07040024
20 09 2018 23:40
                 1803.296997 8.776220322 2000.849828 60.67667007
20 09 2018 23:50
                 1964.975952 8.994411469 2140.388814 61.58885956
21 09 2018 00:00
                 1928.259033 9.074503899 2192.127329 65.14238739
21 09 2018 00:10
                 1743.895996 8.689407349 1946.012743 65.39597321
21 09 2018 00:20 1666.785034 8.590943336 1884.364519 65.83608246
21 09 2018 00:30
                 1530.227051 8.299957275 1706.161127 65.22045898
21 09 2018 00:40
                 1496.114014 8.336053848 1727.909079 63.0967598
21 09 2018 00:50 1582.303955 8.484394073 1818.378845 63.83243179
                 1855.68103 9.094443321 2205.044318 65.40080261
21 09 2018 01:00
21 09 2018 01:10
                 1652.01001 8.558561325 1864.227394 61.08860016
                 1358.223022 7.947923183 1500.316911 61.03334045
21 09 2018 01:20
21 09 2018 01:30
                 1495.724976 8.340297699 1730.473092 63.67839813
21 09 2018 01:40
                 1606.89502 8.575174332 1874.549579 65.88880157
21 09 2018 01:50
                 1316.323975 7.923058987 1486.24834 66.00588226
21 09 2018 02:00
                 1305.878052 7.895939827 1470.980687 64.38043976
21 09 2018 02:10 987.1729126 7.23732996 1126.507153 63.27402115
21 09 2018 02:20 946.2265015 7.059834957 1043.153242 63.08805084
21 09 2018 02:30 984.5725708 7.235948086 1125.841704 69.16898346
                 1240.187988 7.801217079 1418.300193 67.90341187
21 09 2018 02:40
21 09 2018 02:50
                 1216.05603 7.729557991 1379.139556 63.93516922
21 09 2018 03:00
                 911.6016846 7.014726162 1022.631771 60.09878159
21 09 2018 03:10
                 1106.567993 7.373216152 1193.262178 58.49715042
21 09 2018 03:20
                 1130.978027 7.411559105 1212.582128 61.05709076
                 1602.012939 8.389772415 1760.472269 62.83140945
21 09 2018 03:30
21 09 2018 03:40
                 1589.307983 8.477779388 1814.308913 61.66455841
                 1837.334961 8.803801537 2018.359726 60.39466095
21 09 2018 03:50
21 09 2018 04:00
                 2207.456055 9.826414108 2679.360972 64.19313812
21 09 2018 04:10 2129.849121 9.420574188 2417.863381 60.74478912
21 09 2018 04:20 2104.415039 9.476232529 2454.38398 61.09275818
21 09 2018 04:30 2015.38501 9.034635544 2166.342663 58.20969009
21 09 2018 04:40 1716.741943 8.412380219 1774.245477 58.0843811
21 09 2018 04:50
                 1725.984009 8.453454971 1799.370175 53.84262085
21 09 2018 05:00
                 1871.040039 8.92318058 2094.591221 54.25527954
21 09 2018 05:10
                 1069.755005 7.153178215 1086.461428 56.41175842
21 09 2018 05:20
                 1583.406982 8.352340698 1737.757172 62.97830963
21 09 2018 05:30
                 2287.004883 9.820829391 2675.571036 56.2678299
                 2295.845947 9.913217545 2736.951804 55.80453873
21 09 2018 05:40
21 09 2018 05:50 1973.333984 9.03933239 2169.377283 58.24119949
21 09 2018 06:00
                 1933.842041 8.962938309 2120.126659 55.04494858
21 09 2018 06:10
                 1720.863037 8.506333351 1831.900571 55.38763046
21 09 2018 06:20
                 2242.275879 9.816417694 2672.569829 56.59894943
21 09 2018 06:30
                 1685.185059 8.456990242 1801.538613 54.46551895
21 09 2018 06:40
                 1601.762939 8.352426529 1737.809128 55.62041855
21 09 2018 06:50
                 1431.939941 8.17415905 1631.251555 59.11816025
21 09 2018 07:00 1534.572021 8.252388954 1677.670758 62.29507065
21 09 2018 07:10 1274.243042 7.659375191 1341.389336 57.97079849
21 09 2018 07:20 833.4307251 6.52925396 817.481514 47.60195923
21 09 2018 07:30 994.5983276 6.825419903 939.2975165 45.22948074
```

```
21 09 2018 07:40 1204.463989 7.391253948 1202.32383 42.84442902
21 09 2018 07:50 1286.213013 7.629615784 1325.568018 44.77109146
21 09 2018 08:00
                 1412.399048 7.946252823 1499.369704 36.63066864
21 09 2018 08:10 1268.286011 7.609213829 1314.786748 34.56142044
21 09 2018 08:20
                 1321.630005 7.750906944 1390.742363 41.79405975
21 09 2018 08:30
                 1533.05896 8.274226189 1690.725594 46.38048935
                 1162.115967 7.384809971 1199.081062 41.39221954
21 09 2018 08:40
21 09 2018 08:50 998.3513794 6.728782177 898.4321505 39.83628845
21 09 2018 09:00 859.2219238 6.667137146 872.9361083 36.39445877
21 09 2018 09:10
                 734.3931885 6.310341835 733.7801069 56.26784897
21 09 2018 09:20
                 725.2122803 6.302779198 730.9818865 49.29384995
21 09 2018 09:30 932.074585 6.800907135 928.8268615 53.54415894
21 09 2018 09:40
                 1519.675049 8.31182003 1713.296317 61.70027161
21 09 2018 09:50 843.5900269 6.701605797 887.1378473 49.90779877
21 09 2018 10:00 444.3016052 5.448407173 454.2800194 44.27339935
21 09 2018 10:10 583.7368774 5.994009018 622.979767 46.82009125
21 09 2018 10:20
                 756.3820801 6.374514103 757.7734807 36.77133942
21 09 2018 10:30
                 700.2188721 6.397017956 766.2934493 30.88555908
21 09 2018 10:40 671.6381226 6.179472923 686.2263462 31.92767906
21 09 2018 10:50
                 653.6729126 6.280064106 722.6142871 36.7761116
21 09 2018 11:00
                 727.2224121 6.363780022 753.7289842 39.95442963
21 09 2018 11:10 664.9658203 6.133405209 669.9238092 30.97579956
21 09 2018 11:20
                 693.6953735 6.374326229 757.7025839 27.80154991
21 09 2018 11:30
                 779.5109253 6.624204159 855.4378845 32.31893921
21 09 2018 11:40 637.9381714 6.254805088 713.3748668 33.5737381
21 09 2018 11:50 687.614624 6.438362122 782.0906265 35.50740814
21 09 2018 12:00 656.6591797 6.257172108 714.2377761 36.06204987
21 09 2018 12:10 633.803772 6.244336128 709.5655774 37.43167114
21 09 2018 12:20 539.2359009 5.792060852 557.0731582 40.65575027
21 09 2018 12:30 475.1509094 5.544686794 481.947188 37.65802002
21 09 2018 12:40 459.976593 5.690269947 525.4365419 34.73144913
21 09 2018 12:50 461.7293091 5.599636078 498.1239368 33.90795135
21 09 2018 13:00
                 547.2337036 5.972027779 615.5975789 40.350811
21 09 2018 13:10 598.5067139 6.085619926 653.2531743 38.54455948
21 09 2018 13:20 620.4163208 6.172867775 683.8749595 41.69667053
21 09 2018 13:30 224.3809967 5.897788048 591.0454465 40.62519836
21 09 2018 13:40 975.4700928 7.111602783 1067.029694 39.33776093
21 09 2018 13:50
                 1120.957031 7.356811047 1185.062215 42.9902916
21 09 2018 14:00 1025.136963 7.181455135 1099.810059 42.67004013
21 09 2018 14:10 932.1818848 6.990165234 1011.567685 43.41083145
21 09 2018 14:20 1160.546997 7.494924068 1255.349173 45.04885101
21 09 2018 14:30 994.6207275 7.194385052 1105.94996 45.75405121
21 09 2018 14:40 1306.338013 7.874816895 1459.145131 49.63145828
21 09 2018 14:50
                 1205.735962 7.559182167 1288.576291 48.91849899
21 09 2018 15:00
                 1482.579956 8.16945076 1628.475625 54.22843933
21 09 2018 15:10
                 1563.989014 8.40861702 1771.950075 54.4344902
                 1496.359009 8.268915176 1687.546721 56.66239166
21 09 2018 15:20
                 1790.322998 8.850728989 2048.242721 56.0439415
21 09 2018 15:30
21 09 2018 15:40 2055.966064 9.38166523 2392.356421 60.05020905
21 09 2018 15:50 2274.318115 9.96029377 2767.165624 61.15179062
21 09 2018 16:00
                 2044.110962 9.471940041 2451.566244 62.65718079
21 09 2018 16:10 2265.851074 9.992031097 2787.137197 67.10402679
21 09 2018 16:20
                 2042.514038 9.407708168 2409.42662 68.59876251
21 09 2018 16:30 1724.605957 8.847196579 2045.989433 69.51947021
21 09 2018 16:40 2087.900879 9.606265068 2521.956418 74.58426666
21 09 2018 16:50 2303.52002 10.08518982 2843.943223 73.65162659
21 09 2018 17:00 2465.279053 10.53135014 3080.604701 75.68747711
21 09 2018 17:10 2546.500977 10.95248032 3255.40502 75.46549988
21 09 2018 17:20 2408.947021 10.84305954 3214.17046 74.45813751
```

```
21 09 2018 17:30 2287.962891 10.45328045 3043.218674 75.95503998
21 09 2018 17:40 1941.359985 9.781353951 2648.485965 76.08735657
21 09 2018 17:50
                 1794.722046 9.557305336 2484.655749 76.73761749
21 09 2018 18:00 1172.592041 7.663949966 1343.831396 79.4464798
21 09 2018 18:10 677.2927856 5.748853207 543.5179089 92.69561005
                949.4854126 6.588953972 841.2279378 88.07611084
21 09 2018 18:20
                 946.0067139 6.500599861 806.2255627 88.88909912
21 09 2018 18:30
                 1073.302979 7.125773907 1073.627213 84.41062164
21 09 2018 18:40
21 09 2018 18:50
                 865.4675903 5.995808125 623.5862813 90.93821716
                 1053.349976 6.704236031 888.2271985 94.64408875
21 09 2018 19:00
21 09 2018 19:10
                 1099.61499 7.039322853 1033.789144 87.93428802
21 09 2018 19:20 1500.645996 8.311349869 1713.0133
                                                     79.0562973
21 09 2018 19:30 808.729126 5.617454052 503.4308984 86.20789337
21 09 2018 19:40 957.3779907 5.869604111 581.876493 79.47458649
21 09 2018 19:50 1125.786987 8.154685974 1619.783974 78.26555634
21 09 2018 20:00 385.7503052 4.607577801 245.1241187 88.46269226
21 09 2018 20:10 223.1578979 4.222420216 165.4429155 95.30008698
21 09 2018 20:20 185.2368011 3.865885973 103.6890326 96.29920959
21 09 2018 20:30 277.384491 4.361446857 193.2344134 87.02140045
21 09 2018 20:40 534.2675171 5.492475033 466.8378118 77.47766113
21 09 2018 20:50 215.5410004 3.838922977 99.14887625 88.83394623
21 09 2018 21:00 174.2536926 3.996171951 127.266187 102.0804977
21 09 2018 21:10 8.495384216 2.84959197 0
                                                110.7547989
21 09 2018 21:20
                 21.63896942 3.310265064 33.62963486 113.1523972
21 09 2018 21:30 48.61304855 3.288817883 31.91543378 112.4656982
21 09 2018 21:40 139.7037964 3.536117077 56.14946807 102.4946976
21 09 2018 21:50 243.6728058 4.242109776 169.316824 86.07872009
21 09 2018 22:00 442.1593933 5.818572044 565.4838379 75.85076904
21 09 2018 22:10 239.9181061 4.212331772 163.4657141 82.49278259
21 09 2018 22:20 59.98582077 3.356431961 37.56932218 106.6576004
21 09 2018 22:30 53.67910004 3.282939911 31.4584766 99.07334137
                 247.1858063 4.739131927 274.4043261 78.56056213
21 09 2018 22:40
21 09 2018 22:50
                 104.495903 3.605086088 64.65308875 77.64076233
21 09 2018 23:00
                       1.465603948 0
                                         102.1503983
                 0
21 09 2018 23:10
                       1.225128055 0
                 0
                                         171.8634033
21 09 2018 23:20
                 0
                       0.249955699 0
                                         262.7132874
21 09 2018 23:30
                 0
                       0.65833813 0
                                         217.3670959
21 09 2018 23:40
                 0
                       0.541226983 0
                                         184.1385956
21 09 2018 23:50
                       0.60434401 0
                                         92.68718719
22 09 2018 00:00
                       1.703511953 0
                                         97.92613983
22 09 2018 00:10
                       1.936494946 0
                                         72.94708252
                 0
22 09 2018 00:20
                                         61.7747612
                 0
                       1.815343022 0
22 09 2018 00:30
                                         40.48286057
                 0
                       1.782729983 0
22 09 2018 00:40
                 0
                       2.385965109 0
                                         55.5789299
22 09 2018 00:50
                 0
                       3.502096891 52.23520359 66.46990967
22 09 2018 01:00
                 0
                       2.92475009 0
                                         57.1257515
22 09 2018 01:10
                 0
                       2.989470959 0
                                         64.41221619
22 09 2018 01:20
                 0
                       2.475965977 0
                                         65.90138245
                       3.226628065 27.36092048 69.33529663
22 09 2018 01:30
                 0
                       3.267286062 30.26850112 55.24113846
22 09 2018 01:40
                 0
22 09 2018 01:50
                 0
                       3.013782024 16.45622032 60.02363968
22 09 2018 02:00
                       2.747915983 0
                                          50.41727066
22 09 2018 02:10
                        3.121685028 21.07850058 59.87548065
22 09 2018 02:20
                        3.154226065 22.83808839 59.32067108
22 09 2018 02:30 8.768410683 3.775840998 88.98125222 60.16173935
22 09 2018 02:40 87.5535965 4.237669945 168.441547 51.80205917
22 09 2018 02:50
                 186.9642944 4.856814861 301.5871998 53.38383102
22 09 2018 03:00 236.9244995 5.164008141 377.3366558 60.99071884
22 09 2018 03:10 239.4929962 5.45246315 455.4284573 57.49391174
```

```
22 09 2018 03:20 172.2698975 4.947174072 323.1272813 54.957901
22 09 2018 03:30 138.9454956 4.90192318 312.2658817 56.12680054
22 09 2018 03:40 100.094101 4.304885864 181.8031159 66.86945343
22 09 2018 03:50 16.80805969 3.343568087 36.43730118 76.36289215
22 09 2018 04:00 0 2.857440948 0 90.61376953
22 09 2018 04:10 0
                       2.578078985 0
                                            64.74816132

      22 09 2018 04:20 0
      2.630728006 0
      69.36586761

      22 09 2018 04:30 0
      2.951581955 0
      71.99980164

22 09 2018 04:20 0
22 09 2018 04:40 34.67052841 3.8609519 102.8495148 59.71524048
22 09 2018 04:50 8.367954254 3.053538084 17.9425248 67.7276535
22 09 2018 05:00 0 2.516407013 0 82.78439331
22 09 2018 05:10 0
                       2.849467993 0
                                          85.71897888
22 09 2018 05:20 0
                       2.20281291 0
                                          71.98330688
22 09 2018 05:30 0
                       2.364274025 0
                                           81.04611206

      22 09 2018 05:40 0
      3.068238974 18.55617176 83.34023285

      22 09 2018 05:50 0
      3.518646955 54.11627573 87.71367645

      22 09 2018 06:00 0
      3.410017967 42.56975363 86.87684631

22 09 2018 06:10 82.14607239 4.066978931 135.5360088 87.70522308
22 09 2018 06:20 195.6094971 4.805100918 289.5233647 86.26908875
22 09 2018 06:30 243.8596039 5.097158909 360.231932 78.39225769
22 09 2018 06:40 172.3506927 4.397191048 200.5498186 81.88072968
22 09 2018 06:50 108.219902 3.810484886 94.48637641 94.67841339
22 09 2018 07:00 132.3973999 3.970053911 122.3220924 87.08129883
22 09 2018 07:10 32.34106827 3.244095087 28.57763571 95.94339752
22 09 2018 07:20 0.107199699 2.387896061 0
                                                  117.5942993
22 09 2018 07:30 0 2.936352968 0
                                            108.0285034
22 09 2018 07:40 0
                         3.226574898 27.35729147 115.594101
22 09 2018 07:50 11.77863026 3.045676947 17.62857297 116.5521011
22 09 2018 08:00 1.461997986 3.248282909 28.87660535 123.4512024
22 09 2018 08:10 0 3.410456896 42.61260973 125.7757034
22 09 2018 08:20 40.9769516 3.879580021 106.0394417 119.6070023
22 09 2018 08:30 95.73513794 4.018877983 126.5128758 109.9952011
22 09 2018 08:40 121.3735962 4.249422073 170.7606097 114.3940964
22 09 2018 08:50 42.94075012 3.411295891 42.69461329 125.5972977
22 09 2018 09:00 2.24813199 2.555973053 0 124.876297
22 09 2018 09:10 7.709338188 2.99433589 0
                                                  109.4667969
22 09 2018 09:20 0 2.648488998 0
                                            106.9281006
22 09 2018 09:30 0
                         3.105319023 20.25757647 112.3788986
22 09 2018 09:40 0 3.534476995 55.95651655 112.2268982
22 09 2018 09:50 20.29783058 3.645889997 70.04239103 106.2029037
22 09 2018 10:00 58.11323166 3.714764118 79.74347135 86.3339386
22 09 2018 10:10 72.35549927 3.982589006 124.6813406 77.4180069
22 09 2018 10:20 130.3769073 4.205821991 162.1926296 76.59931183
22 09 2018 10:30 204.5292969 4.761833191 279.5734028 73.11389923
22 09 2018 10:40 181.013504 4.638450146 251.8941319 69.6607132
22 09 2018 10:50 149.5950928 4.298373222 180.4980247 66.72350311
22 09 2018 11:00 169.0164032 4.529637814 228.2995146 69.26180267
22 09 2018 11:10 198.5137024 4.680872917 261.2974068 68.92462158
22 09 2018 11:20 230.026001 4.811005116 290.891179 66.25920868
22 09 2018 11:30 211.4790039 4.683290005 261.8367116 63.62934875
22 09 2018 11:40 210.6148071 4.707775116 267.3216426 67.71546173
22 09 2018 11:50 260.1842041 5.021510124 341.3015589 65.36164093
22 09 2018 12:00 216.0260925 4.759055138 278.9389554 63.08945847
22 09 2018 12:10 243.5061951 4.784244061 284.7109214 62.76697922
22 09 2018 12:20 378.1944885 5.460296154 457.6505642 65.49479675
22 09 2018 12:30 382.6802979 5.486348152 465.0812628 63.3730011
22 09 2018 12:40 262.1791077 4.794580936 287.0922434 63.91868973
22 09 2018 12:50 93.12719727 3.461205959 47.77546565 51.93214035
22 09 2018 13:00 4.348598003 2.685653925 0 44.76631927
```

```
22 09 2018 13:10 22.56081963 3.054400921 17.97758628 29.62537956
                 26.67217064 3.259028912 29.65660333 39.47241974
22 09 2018 13:20
22 09 2018 13:30
                 77.30175018 3.860856056 102.8332458 46.07432175
22 09 2018 13:40
                 230.4580994 4.969778061 328.6096343 49.51250839
22 09 2018 13:50
                 356.2915039 5.500693798 469.1995055 59.65251923
22 09 2018 14:00
                 388.8687134 5.691788197 525.9008633 62.83441925
22 09 2018 14:10
                 478.3471985 5.882989883 586.2208987 63.09910965
                 388.5769958 5.673532963 520.3328834 66.51985168
22 09 2018 14:20
22 09 2018 14:30
                 472.6495972 5.929162979 601.3503977 70.63511658
                 457.2493896 5.656960011 515.3061716 70.81416321
22 09 2018 14:40
22 09 2018 14:50
                 429.4059143 5.575646877 491.0266192 71.14582062
22 09 2018 15:00
                 418.3814087 5.739964008 540.7523913 71.92745972
22 09 2018 15:10
                 452.4328003 6.022264004 631.526662 74.03193665
22 09 2018 15:20
                 460.8736877 6.407392979 770.240052 74.88456726
22 09 2018 15:30 532.0692749 6.42797184 778.1029867 76.42588806
22 09 2018 15:40 685.8934937 6.822136879 937.890997 75.03488159
22 09 2018 15:50 825.4887085 7.287387848 1150.792655 75.44986725
22 09 2018 16:00 835.7368164 7.251974106 1133.575432 74.46769714
22 09 2018 16:10 485.2390137 6.269758224 718.8362345 78.18624115
                 271.0866089 4.79678297 287.6004867 83.34288025
22 09 2018 16:20
22 09 2018 16:30
                 143.4748993 3.523696899 54.69897618 88.40119934
22 09 2018 16:40
                 211.1609039 4.730504036 272.4489194 87.06520081
22 09 2018 16:50
                 322.5329895 5.687326908 524.5371254 77.16220856
22 09 2018 17:00
                 321.1908875 6.077376842 650.4021198 76.96076965
22 09 2018 17:10 285.9258118 5.498425961 468.5472135 74.58728027
22 09 2018 17:20 133.7191925 4.673025131 259.5490428 84.19251251
22 09 2018 17:30 86.7739563 3.974033117 123.0683008 78.32456207
22 09 2018 17:40 122.1253967 4.36146307 193.2377152 63.85000992
                 172.3414001 4.673478127 259.6498531 68.14811707
22 09 2018 17:50
22 09 2018 18:00
                 148.1716003 4.470704079 215.8243574 68.35987091
22 09 2018 18:10
                 152.3406982 4.451323986 211.7670995 63.98268127
22 09 2018 18:20
                 238.6893005 4.901076794 312.0641576 64.61572266
22 09 2018 18:30
                 226.3872986 4.934601784 320.0944643 72.01831818
22 09 2018 18:40
                 153.2980957 4.617982864 247.3990483 68.43678284
22 09 2018 18:50 95.29962158 4.123009205 146.1814422 68.18385315
                             4.771677017 281.825773 64.16851807
22 09 2018 19:00
                 202.9375
                 194.6634064 4.745531082 275.8578684 67.60349274
22 09 2018 19:10
                 209.6970978 4.951869965 324.2630824 75.66290283
22 09 2018 19:20
                 149.6016998 4.445473194 210.5465499 76.04425049
22 09 2018 19:30
22 09 2018 19:40 310.7463989 5.28488493 409.1938107 73.04284668
22 09 2018 19:50 277.8775024 5.108333111 363.0662096 72.914711
22 09 2018 20:00 231.7565002 4.846446991 299.1534159 70.29624939
22 09 2018 20:10 135.9897003 4.405614853 202.2843301 71.42836761
22 09 2018 20:20
                 121.9698029 4.432312965 207.8084365 58.12530899
22 09 2018 20:30
                 139.0335999 4.429121017 207.1458328 65.81858063
                 132.3688049 4.426089764 206.5171316 67.00340271
22 09 2018 20:40
22 09 2018 20:50
                 148.1822052 4.483285904 218.4702468 56.93709183
22 09 2018 21:00
                 171.477005 4.63860178 251.9275346 55.49702072
22 09 2018 21:10 170.0800018 4.634594917 251.0453806 53.73768997
22 09 2018 21:20
                 114.1735001 4.31321907 183.4763628 53.30274963
22 09 2018 21:30
                 97.10600281 4.180729866 157.305469 53.57786179
22 09 2018 21:40
                 101.2292023 4.140841007 149.6006834 56.4565506
22 09 2018 21:50
                 148.6766968 4.50490284 223.0381872 56.48762894
22 09 2018 22:00
                 144.9665985 4.473779202 216.4701733 63.20682907
22 09 2018 22:10 197.4425964 4.752445221 277.4315106 60.04460907
22 09 2018 22:20 204.7145996 4.647716999 253.9382054 55.20185089
22 09 2018 22:30
                 183.5370026 4.607387066 245.0824813 52.9540596
22 09 2018 22:40 130.626297 4.338798046 188.635945 55.58905029
22 09 2018 22:50 108.3992004 4.347813129 190.4629182 58.81201935
```

```
22 09 2018 23:00 80.6379776 4.152378082 151.8211195 59.67811966
22 09 2018 23:10 121.9898987 4.326900959 186.2317308 61.66727066
22 09 2018 23:20
                 152.1322937 4.63074398 250.1985283 52.70372009
22 09 2018 23:30 131.4010925 4.430735111 207.4808225 51.38360977
22 09 2018 23:40 109.5952988 4.278291225 176.4879834 52.76750946
22 09 2018 23:50 59.04071045 3.91800499 112.7948125 52.70257187
23 09 2018 00:00 52.2569313 3.879617929 106.0459899 46.07970047
23 09 2018 00:10 65.12518311 3.974579096 123.1708842 36.37020874
23 09 2018 00:20 72.21769714 3.985451937 125.2237035 33.52713013
23 09 2018 00:30 68.18335724 3.886857986 107.3008226 38.32078171
23 09 2018 00:40
                 101.0186996 4.253098011 171.4874588 36.57883072
23 09 2018 00:50 85.35202789 4.042935848 131.0127061 38.02511978
23 09 2018 01:00 93.7164917 4.113261223 144.3187258 35.56946945
23 09 2018 01:10 76.93528748 4.054007053 133.0922825 33.33113098
23 09 2018 01:20 88.98800659 4.137886047 149.0330096 34.19897079
23 09 2018 01:30 154.3515015 4.420341969 205.3264558 39.00632095
23 09 2018 01:40
                 141.8639069 4.494806767 220.9012764 41.85081863
23 09 2018 01:50 174.233902 4.611692905 246.0230089 56.59584045
23 09 2018 02:00 207.8981018 4.97181797 329.1062728 43.61016083
                 159.2872009 4.826953888 294.5982098 29.96010971
23 09 2018 02:10
23 09 2018 02:20 222.8782043 5.043054104 346.64743
                                                     28.29743004
23 09 2018 02:30 212.0778961 4.992486
                                         334.1558029 30.41201019
23 09 2018 02:40 247.6233978 5.062724113 351.5596555 34.34674835
23 09 2018 02:50 240.023407 5.077288151 355.2161913 37.09963989
23 09 2018 03:00 244.1864014 5.143065929 371.9395623 35.51029968
23 09 2018 03:10 204.8195953 4.920915127 316.806107 38.85840988
23 09 2018 03:20 218.6378937 4.952181816 324.3385684 44.51438904
23 09 2018 03:30 245.5321045 4.979381084 330.9503259 49.84255981
23 09 2018 03:40 175.7823029 4.603340149 244.1995826 50.34661102
23 09 2018 03:50 212.2077942 5.297348976 412.5484891 31.80079079
23 09 2018 04:00 250.0213928 5.42840004 448.6367668 29.22488976
23 09 2018 04:10 185.9364929 4.732495785 272.8998791 25.34909058
23 09 2018 04:20 199.5101929 4.814991951 291.8161804 29.63139915
23 09 2018 04:30 163.1360016 4.596849918 242.7858004 31.41864967
23 09 2018 04:40 132.2315063 4.376852989 196.3786411 31.49523926
23 09 2018 04:50 170.6600037 4.658915997 256.4158894 23.58185959
                 173.8773041 4.67392683 259.7497217 21.03259087
23 09 2018 05:00
23 09 2018 05:10 219.9734955 4.759293079 278.9932755 23.31200981
23 09 2018 05:20 189.0579987 4.561783791 235.1930167 26.77065086
23 09 2018 05:30 209.7084961 4.606229782 244.8298956 26.37323952
23 09 2018 05:40 213.2451019 4.736876965 273.8927809 25.42160988
23 09 2018 05:50 272.4240112 5.041163921 346.176972 29.97192001
23 09 2018 06:00 252.7830963 4.996436119 335.1245552 34.20909882
23 09 2018 06:10
                 171.2490997 4.476501942 217.0424511 35.12926102
23 09 2018 06:20
                 116.7337036 4.062053204 134.6071577 44.41233063
23 09 2018 06:30
                 71.61897278 3.882867098 106.6080921 47.22610855
                 31.35000038 3.334988117 35.69698285 52.30588913
23 09 2018 06:40
23 09 2018 06:50 9.740949631 2.868427038 0
                                               55.0195694
23 09 2018 07:00 0
                       2.500854969 0
                                         51.56864929
23 09 2018 07:10 0
                       2.059041023 0
                                         51.96416092
23 09 2018 07:20 0
                       2.810759068 0
                                         60.96807861
23 09 2018 07:30 0
                       2.943945885 0
                                         63.87799072
23 09 2018 07:40 0
                       3.295785904 32.464293
                                               62.51789093
23 09 2018 07:50 92.86521149 4.250316143 170.9373308 53.2593689
23 09 2018 08:00 205.236496 4.912773132 314.8564449 51.93054962
23 09 2018 08:10 236.6533051 4.930086136 319.008008 50.26148987
23 09 2018 08:20 248.1676941 4.949025154 323.5748089 47.59006119
23 09 2018 08:30 228.0021973 4.905810833 313.1931198 46.46689987
23 09 2018 08:40 206.7801056 4.673886776 259.7408062 53.41748047
```

```
23 09 2018 08:50 190.2236023 4.560101986 234.8307858 57.57936096
23 09 2018 09:00 138.5588989 4.176435947 156.472303 55.22491074
                 138, 2644043 4, 179740906 157, 1134959 63, 81584167
23 09 2018 09:10
23 09 2018 09:20
                 75.70527649 3.701288939 77.78574006 67.28694153
23 09 2018 09:30 92.40894318 3.960786104 120.5939504 57.77307892
23 09 2018 09:40
                 125.7561035 4.120904922 145.7789559 54.76044083
23 09 2018 09:50
                 187.3023071 4.626844883 249.3420548 61.97132111
                 217.5438995 4.79718399 287.6930809 67.36818695
23 09 2018 10:00
                 32.6651001 3.196727037 25.39138738 68.2166214
23 09 2018 10:10
23 09 2018 10:20
                 22.63829041 3.143476009 22.23806152 50.90491104
23 09 2018 10:30
                 0.155533701 3.290872097 32.07643325 53.32342911
23 09 2018 10:40
                 37.32696915 3.189043045 24.90835927 37.4425087
23 09 2018 10:50
                 46.16276932 3.676296949 74.23170748 38.42721939
23 09 2018 11:00
                 138.8621979 4.442481995 209.9233184 55.06441879
23 09 2018 11:10
                 177.0471039 4.622739792 248.4413853 52.89925003
23 09 2018 11:20
                 161.0971069 4.389613152 198.9929236 52.43872833
23 09 2018 11:30
                 129.8047943 4.05272007 132.850253 52.20999908
23 09 2018 11:40 125.4244003 4.002220154 123.4123156 51.69511032
23 09 2018 11:50 181.0836945 4.433294773 208.0123644 54.47866821
                 162.0639038 4.367335796 194.4347197 52.74779129
23 09 2018 12:00
                 260.8700867 4.838297844 297.2458269 58.65597916
23 09 2018 12:10
                 419.6064148 5.611083031 501.5298509 64.22514343
23 09 2018 12:20
23 09 2018 12:30
                 526.6226807 6.142625809 673.1686457 59.71268082
23 09 2018 12:40
                 539.8654785 6.182884216 687.4425716 60.61285019
23 09 2018 12:50
                 728.7067871 6.703672886 887.993896 59.97509003
23 09 2018 13:00
                 752.8737793 6.83493185 943.3799536 60.05781937
23 09 2018 13:10
                 705.2241821 6.602301121 846.5918275 54.57273102
23 09 2018 13:20 748.546875 6.627345085 856.7108932 57.85329056
23 09 2018 13:30 665.8660278 6.481116772 798.6242706 56.44778061
                 749.3104858 6.723051071 896.0431861 51.53044891
23 09 2018 13:40
23 09 2018 13:50 511.2943115 5.957118034 610.6197619 49.72874832
23 09 2018 14:00 519.0319214 5.995515823 623.487717 53.71366882
23 09 2018 14:10
                 497,3905029 5,901185036 592,1561769 55,81402969
23 09 2018 14:20 671.102478 6.547970772 824.8833311 58.27362061
                 701.8566284 6.678863049 877.7520083 57.63478851
23 09 2018 14:30
                 724.3939209 6.778845787 919.4645839 63.47890091
23 09 2018 14:40
23 09 2018 14:50
                 710.1489868 6.736600876 901.697501 64.28505707
                 642.3770752 6.502709866 807.0513035 72.62796021
23 09 2018 15:00
23 09 2018 15:10
                 666.8771973 6.633621216 859.2579594 75.6116333
23 09 2018 15:20
                 733.5750732 6.894081116 969.0119658 71.3494873
23 09 2018 15:30 837.5145264 7.208045959 1112.461767 67.81239319
23 09 2018 15:40 862.7733154 7.254608154 1134.849979 66.93369293
23 09 2018 15:50 784.9019165 7.047510147 1037.520253 62.22703934
23 09 2018 16:00 867.0427246 7.175741196 1097.103977 59.3900795
23 09 2018 16:10 939.0551147 7.407063007 1210.305388 56.76794815
23 09 2018 16:20
                 804.1951294 7.049049854 1038.222894 57.29339981
                 804.2838745 7.109233856 1065.929409 63.29922104
23 09 2018 16:30
                 876.8563843 7.396700859 1205.069639 64.53749847
23 09 2018 16:40
                 996.3596191 7.501642227 1258.842088 63.18249893
23 09 2018 16:50
23 09 2018 17:00
                 956.164978 7.372311115 1192.808775 63.67150116
23 09 2018 17:10
                 1041.182983 7.651148796 1337.004634 61.10218811
23 09 2018 17:20
                 1031.42395 7.423068047 1218.423798 54.68439865
23 09 2018 17:30
                 910.6851196 7.238533974 1127.087168 62.82236099
23 09 2018 17:40
                 870.2664795 7.106632233 1064.721898 66.08521271
23 09 2018 17:50
                 970.5244141 7.262619019 1138.732187 63.97795105
23 09 2018 18:00
                 1070.391968 7.451169968 1232.771312 61.84746933
23 09 2018 18:10 840.5297241 6.903765202 973.2491677 63.92047882
23 09 2018 18:20 762.7161865 6.791881084 924.9894429 59.98609161
23 09 2018 18:30 813.2216797 6.855743885 952.350314 62.87311172
```

```
23 09 2018 18:40 863.4163818 7.088008881 1056.104134 64.22193146
23 09 2018 18:50 954.6013184 7.405035019 1209.279437 57.66690063
23 09 2018 19:00
                 1039.689941 7.422210217 1217.9877
                                                     56.79882813
23 09 2018 19:10 915.0197754 7.228651047 1122.332167 62.69393921
23 09 2018 19:20
                 1061.662964 7.494866848 1255.319455 61.01488113
23 09 2018 19:30
                 1018.546997 7.424483776 1219.143758 67.6443634
23 09 2018 19:40
                 1222.062012 7.83555603 1437.279801 69.80815125
                 1406.488037 8.515968323 1837.849775 69.14402008
23 09 2018 19:50
23 09 2018 20:00 1403.535034 8.557336807 1863.467304 71.85282135
23 09 2018 20:10
                 1394.571045 8.490522385 1822.152369 78.05252075
23 09 2018 20:20
                 1487.71106 8.798407555 2014.932176 78.88289642
23 09 2018 20:30 1138.562988 7.692615032 1359.192636 76.04769897
23 09 2018 20:40
                 1191.072998 7.597576141 1308.66091 77.1578598
23 09 2018 20:50
                 1062.207031 7.270408154 1142.515569 76.97097778
23 09 2018 21:00
                 1188.625
                             8.429750443 1784.854813 78.61358643
23 09 2018 21:10
                 1293.68103 8.455530167 1800.642929 80.28508759
23 09 2018 21:20
                 1372.147949 8.372823715 1750.17318 78.64425659
23 09 2018 21:30
                 1109.784058 8.02604866 1544.948826 77.87883759
23 09 2018 21:40 743.9503174 6.188840866 689.5692784 76.85579681
23 09 2018 21:50 843.3280029 6.916642189 978.9012723 76.79325104
23 09 2018 22:00 681.4367065 6.241343021 708.4786555 76.97673798
23 09 2018 22:10 425.4885864 4.581989765 239.558774 82.16697693
23 09 2018 22:20 464.2799072 5.065639019 352.2901618 84.11270905
23 09 2018 22:30
                 285.0288086 4.403738022 201.8975301 92.688797
23 09 2018 22:40
                 310.0100098 4.555187225 233.7732369 88.20204163
23 09 2018 22:50
                 255.1582947 4.396171093 200.3400774 89.36682892
23 09 2018 23:00 279.410614 4.605175018 244.5997597 85.03637695
23 09 2018 23:10 283.5209961 4.818713188 292.6805644 83.35459137
23 09 2018 23:20 174.4680939 4.01272583 125.3663278 92.51947021
23 09 2018 23:30
                 266.2146912 4.764338017 280.1459033 81.7178421
23 09 2018 23:40 415.8138123 5.802288055 560.309268 79.82771301
23 09 2018 23:50 451.1325073 5.735608101 539.4001023 79.61666107
24 09 2018 00:00
                 489.9194031 6.040030003 637.5758398 78.92375183
24 09 2018 00:10 482.1424866 6.137611866 671.4030535 78.28185272
24 09 2018 00:20 609.4603271 6.623694897 855.2315879 77.89241791
24 09 2018 00:30
                 571.6171875 6.480060101 798.2132142 78.43353271
24 09 2018 00:40
                 376.9570007 5.431941986 449.6331922 78.55352783
24 09 2018 00:50
                 332.9645996 5.034956932 344.634022 80.56362152
24 09 2018 01:00
                 336.4779053 5.060709
                                         351.0550341 81.39541626
24 09 2018 01:10
                 507.5286865 6.075485229 649.7488873 78.77012634
24 09 2018 01:20 324.1453857 4.987123966 332.8426748 81.52245331
24 09 2018 01:30 365.6590881 4.901113987 312.073021 82.29946136
24 09 2018 01:40
                 297.2757874 4.845440865 298.9176422 80.50826263
24 09 2018 01:50
                 219.2270966 4.665113926 257.7906353 80.00276184
24 09 2018 02:00
                 72.49165344 3.337873936 35.94466966 90.57901764
24 09 2018 02:10 85.55544281 3.394783974 41.10143803 87.70213318
                 110.7923965 3.801666021 93.06678547 84.97222137
24 09 2018 02:20
                 157.0314941 4.015909195 125.9593863 82.12101746
24 09 2018 02:30
24 09 2018 02:40
                 177.5057983 4.432246208 207.7945726 80.07335663
24 09 2018 02:50
                 155.9983978 3.878779888 105.9012838 80.48665619
24 09 2018 03:00
                 63.37570953 3.246606112 28.75656151 84.18118286
                 26.72230911 3.124502897 21.22417043 86.05030823
24 09 2018 03:10
24 09 2018 03:20
                 -0.00653335 2.692630053 0
                                               107.1016006
24 09 2018 03:30 0
                       2.556276083 0
                                         106.8215027
24 09 2018 03:40
                       3.11582303 20.77953493 90.96395111
                 0
24 09 2018 03:50 28.09873009 3.875010967 105.2518864 80.63613892
24 09 2018 04:00 4.259202003 2.987376928 0
                                             90.31588745
24 09 2018 04:10 29.60931969 3.61914897 66.48040276 88.43251038
24 09 2018 04:20 17.38285065 3.756051064 85.92269089 86.34765625
```

```
24 09 2018 04:30 4.916595936 2.711481094 0
                                               97.24337006
24 09 2018 04:40 0
                       2.863042116 0
                                         107.0410995
24 09 2018 04:50
                       2.61028409 0
                 0
                                         110.5475998
24 09 2018 05:00 0
                       2.189580917 0
                                         113.3578033
24 09 2018 05:10 0
                       2.096899986 0
                                         117.4981995
24 09 2018 05:20
                 0
                       2.093631029 0
                                         139.2221069
24 09 2018 05:30
                 0
                       2.207730055 0
                                         150.8153992
24 09 2018 05:40
                 0
                       2.932586908 0
                                         155.210495
24 09 2018 05:50 20.16119957 3.939039946 116.5929598 165.4539948
24 09 2018 06:00
                 27.01942062 3.709043026 78.90873785 170.014801
24 09 2018 06:10 0.534533203 3.35413599 37.36533565 187.6663055
24 09 2018 06:20 25.57644081 3.741065979 83.64841415 178.4049988
24 09 2018 06:30 35.7672081 3.609577894 65.23330934 182.223999
24 09 2018 06:40
                 183.0973969 4.5616889
                                         235.1725743 184.1824036
24 09 2018 06:50 307.2225037 5.243461132 398.1393188 186.3141022
24 09 2018 07:00 305.1933899 5.130207062 368.6431872 187.4416962
24 09 2018 07:10 229.543396 4.724043846 270.9880808 188.3209991
24 09 2018 07:20 456.2340088 5.818109989 565.3366375 191.3574066
24 09 2018 07:30 583.5341797 6.150074959 675.7967266 193.0151978
24 09 2018 07:40
                489.0389099 5.918607235 597.8718431 193.0005035
24 09 2018 07:50
                 597.7752075 6.301708221 730.5861184 191.1649017
24 09 2018 08:00
                 798.1932983 6.697052002 885.2537214 195.8515015
24 09 2018 08:10
                 718.026123 6.431326866 779.3893018 196.5166016
24 09 2018 08:20 514.2675781 5.634941101 508.6688556 201.0587006
24 09 2018 08:30 790.6099854 6.632612228 858.8481751 202.5429993
24 09 2018 08:40 1027.334961 7.317874908 1165.756842 203.9154968
24 09 2018 08:50 1212.838013 7.702567101 1364.549664 209.9573059
24 09 2018 09:00 1407.177979 8.253931999 1678.591861 209.407196
24 09 2018 09:10 985.1176147 7.189500809 1103.627953 207.503006
24 09 2018 09:20 1156.616943 7.656304836 1339.751827 207.9772034
24 09 2018 09:30
                 1423.409058 8.040366173 1553.19683 208.9799042
24 09 2018 09:40 1511.737061 8.245148659 1673.351546 209.2225037
24 09 2018 09:50
                 1773.139038 8.933002472 2100.893139 209.5838013
24 09 2018 10:00 2190.288086 9.77146244 2641.617434 210.0820007
24 09 2018 10:10 2387.302002 10.28388023 2956.348268 211.7718048
                 2374.385986 10.00479031 2795.076883 212.8395996
24 09 2018 10:20
                 2231.113037 9.97882843 2778.867696 212.156601
24 09 2018 10:30
                 2620.326904 10.80714035 3200.012756 213.0576019
24 09 2018 10:40
24 09 2018 10:50 2515.065918 10.57145023 3099.177662 213.6363068
24 09 2018 11:00 2631.5979
                             10.71858978 3163.764856 211.5997925
24 09 2018 11:10 2800.52002 11.00909042 3275.642104 211.7966003
                             11.57301044 3439.342526 211.7825928
24 09 2018 11:20 3070.875
24 09 2018 11:30 2701.280029 10.99645042 3271.187318 212.3937988
24 09 2018 11:40
                 2274.73291 10.03055954 2810.957154 213.9958954
24 09 2018 11:50
                 2047.494995 9.493711472 2465.859516 214.7371979
24 09 2018 12:00
                 1841.109985 8.932074547 2100.297581 217.5549011
                 1703.786011 8.524424553 1843.076586 219.6770935
24 09 2018 12:10
                 1461.555054 8.07043457 1570.586023 220.8148041
24 09 2018 12:20
                 1387.192993 8.018299103 1540.493215 219.5597992
24 09 2018 12:30
24 09 2018 12:40
                 1779.279053 8.965924263 2122.047221 219.3571014
24 09 2018 12:50
                 1321.546021 7.590137005 1304.754304 222.9958038
24 09 2018 13:00 985.652771 6.998147011 1015.15487 228.5773926
24 09 2018 13:10
                 841.3413696 6.783400059 921.3925676 234.3376007
24 09 2018 13:20 862.0900879 6.929708958 984.657612 239.7507935
24 09 2018 13:30
                 1239.541992 7.80792284 1421.995826 240.1705017
24 09 2018 13:40 1269.100952 7.857719898 1449.601947 242.7994995
24 09 2018 13:50 1280.046021 7.784029961 1408.85216 245.6000061
24 09 2018 14:00 1395.156006 8.1112957 1594.360728 245.1401062
24 09 2018 14:10 1810.88501 8.953140259 2113.827232 247.1728973
```

```
24 09 2018 14:20 1474.530029 8.271942139 1689.358191 249.7245941
                 1493.302002 8.370106697 1748.524284 252.4813995
24 09 2018 14:30
                 1657.930054 8.878490448 2065.972779 255.1213989
24 09 2018 14:40
24 09 2018 14:50
                 1481.727051 8.431181908 1785.730154 258.6864929
24 09 2018 15:00
                 1479.456055 8.431538582 1785.948284 259.2073059
24 09 2018 15:10
                 1233.536987 7.978870869 1517.920203 260.5498962
24 09 2018 15:20
                 1219.06897 7.895225048 1470.579373 259.3465881
                 1117.761963 7.786691189 1410.31281 260.1993103
24 09 2018 15:30
                 854.3920288 7.05211401 1039.622124 260.4519043
24 09 2018 15:40
                 767.862915 6.819108963 936.5949174 266.4432983
24 09 2018 15:50
24 09 2018 16:00
                 858.8031006 7.14928484 1084.631927 267.1065063
24 09 2018 16:10
                 923.0438232 7.454846859 1234.657393 269.3128052
24 09 2018 16:20
                 1078.547974 7.809205055 1422.703067 272.0649109
24 09 2018 16:30
                 1084.357056 7.781640053 1407.541138 271.0239868
24 09 2018 16:40 944.1303101 7.425300121 1219.559042 268.3086853
24 09 2018 16:50
                 1137.79895 7.826683998 1432.363065 274.0073853
24 09 2018 17:00
                 1537.269043 8.75492382 1987.357976 278.5596924
24 09 2018 17:10
                 1670.16394 8.732410431 1973.12267 276.7561035
24 09 2018 17:20
                 1744.616943 8.946941376 2109.843933 274.7789001
                 1685.230957 9.152283669 2242.58853 273.5021057
24 09 2018 17:30
24 09 2018 17:40
                 1555.515015 8.906605721 2083.966325 272.5132141
24 09 2018 17:50
                 1473.219971 8.487988472 1820.591774 272.5393982
                 1313.686035 7.958038807 1506.059542 273.1365967
24 09 2018 18:00
24 09 2018 18:10
                 1262.103027 7.949233055 1501.059907 272.0692139
24 09 2018 18:20
                 1417.697998 8.282603264 1695.744592 274.8117981
24 09 2018 18:30
                 1375.172974 8.072547913 1571.811618 274.052002
24 09 2018 18:40
                 1316.362061 7.981578827 1519.46534 277.9580994
24 09 2018 18:50
                 1199.072998 7.749186039 1389.805045 277.4429932
                 1261.262939 7.849709988 1445.142337 278.8953857
24 09 2018 19:00
                 1276.198975 7.942368984 1497.168463 284.4718933
24 09 2018 19:10
24 09 2018 19:20
                 1073.331055 7.417324066 1215.505812 284.6770935
                 419.3338928 5.656480789 515.161217 282.954895
24 09 2018 19:30
24 09 2018 19:40
                 418.7614136 5.76668787 549.0902945 289.1885071
24 09 2018 19:50
                 408.8684998 5.673665047 520.3730529 288.1547852
                 407.1163025 5.72401619 535.8105939 290.2755127
24 09 2018 20:00
                 427.736908 5.788578987 555.9738409 289.0588989
24 09 2018 20:10
24 09 2018 20:20
                 473.7442932 6.133000851 669.781719 292.3554077
24 09 2018 20:30
                 504.9898987 6.106328011 660.4475528 292.424408
24 09 2018 20:40
                 496.7215881 6.12274313 666.1830299 290.9396973
                 561.5358276 6.254827976 713.3832079 290.4740906
24 09 2018 20:50
24 09 2018 21:00 673.3314209 6.607279778 848.5977923 285.5802917
                 1747.984009 8.792226791 2011.006568 306.1689148
24 09 2018 21:10
24 09 2018 21:20
                 1661.925049 8.664254189 1930.206733 315.4625854
24 09 2018 21:30
                 1655.900024 8.71321106 1961.005679 329.7561951
24 09 2018 21:40
                 2557.798096 10.53388023 3081.789087 348.6547852
24 09 2018 21:50
                 3002.768066 10.88463974 3230.172954 355.9501038
                 2418.272949 10.05945969 2828.521653 0.120646901
24 09 2018 22:00
                 2359.664063 9.790886879 2655.074416 6.604949951
24 09 2018 22:10
24 09 2018 22:20
                 2164.031006 9.819972992 2674.988946 11.55268955
24 09 2018 22:30
                 2475.021973 10.52143002 3075.944535 15.78227997
24 09 2018 22:40
                 3098.760986 11.32219028 3374.71984 11.67311954
24 09 2018 22:50
                 3200.552979 11.4012804 3396.458022 12.68609047
24 09 2018 23:00
                 3499.688965 12.81095028 3595.120721 12.43465996
24 09 2018 23:10
                 3321.172119 11.87961006 3501.975696 17.60070992
24 09 2018 23:20
                 2989.906982 10.62073994 3121.431277 20.00679016
24 09 2018 23:30
                 3171.968994 11.50034046 3421.904124 20.60346985
24 09 2018 23:40
                 3580.620117 13.18968964 3600 15.24483967
24 09 2018 23:50 3471.254883 12.50327015 3579.375633 15.20475006
25 09 2018 00:00 3580.449951 13.02563953 3600 17.50642967
```

```
25 09 2018 00:10 3435.061035 12.15165997 3543.588751 29.61392021
                 3264.510986 12.2768898 3558.590066 31.70511055
25 09 2018 00:20
25 09 2018 00:30 3264.89502 10.8719902 3225.34827 26.70223045
25 09 2018 00:40 3525.728027 13.72214985 3600 27.2132206
25 09 2018 00:50 3593.456055 13.79541969 3600 26.39685059
25 09 2018 01:00 3239.655029 12.11557961 3538.790007 26.49312019
25 09 2018 01:10 3602.920898 14.50566959 3600 24.22851944
25 09 2018 01:20 3589.186035 13.90069008 3600 26.33761978
25 09 2018 01:30 3404.670898 11.66320038 3459.575073 24.63050079
25 09 2018 01:40 2902 10.26710033 2947.302855 28.85222054
25 09 2018 01:50 3358.638916 11.84208012 3495.229245 42.54700851
25 09 2018 02:00 3237.89502 11.39278984 3394.185498 38.34481049
25 09 2018 02:10 3282.02002 11.71197033 3469.878132 30.67843056
25 09 2018 02:20 2928.345947 10.62275028 3122.325575 34.23316956
25 09 2018 02:30 2992.61792 10.31758976 2974.276384 34.33068085
25 09 2018 02:40 2863.022949 10.74769974 3175.894249 36.34529877
25 09 2018 02:50 2703.354004 10.36048985 2996.62698 28.30293083
25 09 2018 03:00 2582.218018 9.867027283 2706.61271 29.75568008
25 09 2018 03:10 2124.235107 8.697793961 1951.291283 32.10425949
25 09 2018 03:20 3209.333984 11.70291996 3467.999577 26.06185913
25 09 2018 03:30 3484.343994 12.21135998 3551.058244 26.04760933
25 09 2018 03:40 3199.227051 11.42173958 3401.874169 26.50947952
25 09 2018 03:50
                 3083.927002 10.90198994 3236.728898 26.60936928
25 09 2018 04:00
                 2868.090088 9.869232178 2708.076719 20.13567924
25 09 2018 04:10 2946.00708 10.9187603 3242.998325 26.34110069
25 09 2018 04:20 2731.596924 10.62071991 3121.422362 40.07947922
25 09 2018 04:30 3319.4021
                             11.14993
                                       3322.84832 34.64318848
25 09 2018 04:40 2985.38501 10.78754997 3192.159353 34.17358017
25 09 2018 04:50 3212.167969 10.85120964 3217.339625 29.72724915
25 09 2018 05:00 2851.009033 10.25133991 2938.733138 32.12725067
25 09 2018 05:10 3097.979004 10.74540997 3174.947779 30.76045036
25 09 2018 05:20 2467.802979 9.246994972 2304.278602 26.26601982
25 09 2018 05:30 2939.922119 10.51027012 3070.670698 31.96264076
25 09 2018 05:40 2766.235107 10.02509022 2807.603981 31.11404037
25 09 2018 05:50 2574.519043 9.784915924 2650.951302 34.96524811
25 09 2018 06:00 1878.73999 8.474171638 1812.090462 38.62567902
25 09 2018 06:10 2444.440918 9.141968727 2235.885321 30.63092041
25 09 2018 06:20 2639.025879 10.21490955 2918.648308 29.62675095
25 09 2018 06:30 2323.072021 9.65550518 2558.613578 33.94887924
25 09 2018 06:40 2396.825928 9.162731171 2249.381165 32.64799881
25 09 2018 06:50 2259.083984 9.103097916 2210.655096 31.07761002
25 09 2018 07:00 1842.785034 8.334555626 1727.004251 32.52861023
25 09 2018 07:10 2348.227051 9.283120155 2327.868822 35.22475815
25 09 2018 07:20 3109.035889 11.22976017 3347.671588 32.5626297
25 09 2018 07:30 2598.886963 10.27210999 2950.011843 35.65243149
25 09 2018 07:40 2263.610107 9.230360031 2293.426202 34.25489044
25 09 2018 07:50 2605.233887 10.00216007 2793.444341 34.94709015
25 09 2018 08:00 2353.426025 9.595697403 2513.977653 38.63560867
25 09 2018 08:10 2356.14209 8.98032856 2131.317295 27.93840027
25 09 2018 08:20
                 3044.055908 10.59165001 3108.373862 23.78000069
25 09 2018 08:30
                 3355.791016 12.16219997 3544.949981 31.11613083
25 09 2018 08:40 2268.457031 9.135228157 2231.506706 36.4158783
25 09 2018 08:50
                 2304.36499 9.235297203 2296.646427 31.21684074
25 09 2018 09:00 2977.658936 10.71910954 3163.983273 31.22961998
25 09 2018 09:10 3044.845947 10.99703979 3271.395845 30.19908905
25 09 2018 09:20 3111.208008 11.26084042 3356.967217 32.07761002
25 09 2018 09:30 2975.301025 10.37226963 3002.673783 26.40364075
25 09 2018 09:40 3115.790039 11.41434002 3399.925026 29.33013916
25 09 2018 09:50 3213.822021 11.6215601 3450.425632 30.42653084
```

```
25 09 2018 10:00 3007.895996 10.27027035 2949.017891 26.14481926
25 09 2018 10:10 2305.801025 9.358987808 2377.500761 32.35005951
25 09 2018 10:20 2265.343994 9.335028648 2361.81498 32.83309937
25 09 2018 10:30 2996.930908 10.48668957 3059.417852 28.4858799
25 09 2018 10:40 3193.420898 11.84045982 3494.932337 26.02222061
25 09 2018 10:50 2462.934082 9.717760086 2603.749525 27.23880959
25 09 2018 11:00 2728.145996 10.45470047 3043.913348 33.15937042
25 09 2018 11:10 2775.73291 10.24322033 2934.290075 35.3804512
25 09 2018 11:20 3176.73999 11.00352955 3273.686748 28.29397011
                 3426.23999 12.36464024 3567.599945 27.24629974
25 09 2018 11:30
25 09 2018 11:40 3430.329102 12.25529003 3556.183969 28.28190041
25 09 2018 11:50 3496.125977 12.42945957 3573.476717 27.23796082
25 09 2018 12:00 3176.998047 11.2341404 3348.994053 30.17274094
25 09 2018 12:10 3498.284912 12.75691986 3593.368876 23.9818306
25 09 2018 12:20 3536.72998 13.14568043 3600 27.40148926
25 09 2018 12:30 3462.518066 12.68412018 3590.332739 32.72241974
25 09 2018 12:40 2998.98999 10.7823801 3190.071243 34.45151901
25 09 2018 12:50 3487.836914 12.83465004 3595.755348 40.7374382
25 09 2018 13:00 3559.98999 13.47222996 3600 40.97945023
25 09 2018 13:10 3571.812988 13.75529003 3600 38.66756821
25 09 2018 13:20 3534.479004 13.59537983 3600 37.40829849
25 09 2018 13:30 3534.460938 13.25714016 3600 40.87306976
25 09 2018 13:40 3417.688965 12.28085995 3559.024175 34.98371887
25 09 2018 13:50 3416.778076 12.32026005 3563.195888 35.30722046
25 09 2018 14:00 3373.016113 12.62975025 3587.554283 33.74988937
25 09 2018 14:10 3563.680908 13.16009998 3600 28.05956078
25 09 2018 14:20 3551.565918 13.62314987 3600 34.24599075
25 09 2018 14:30 3333.779053 11.82291985 3491.688214 36.5430603
25 09 2018 14:40 3244.217041 11.61190033 3448.256283 34.00267029
25 09 2018 14:50 3572.11499 13.08810997 3600 37.13375092
25 09 2018 15:00 3194.552002 11.71444988 3470.39016 42.00289154
25 09 2018 15:10 2945.38208 10.33868027 2985.329131 36.89685822
25 09 2018 15:20 3145.85498 11.37483978 3389.33296 38.21585846
25 09 2018 15:30 2849.214111 10.52276039 3076.57102 37.7159996
25 09 2018 15:40 3432.362061 12.41528988 3572.247994 33.11569977
25 09 2018 15:50 3473.532959 12.72113991 3591.974053 35.26440048
25 09 2018 16:00 3222.610107 11.62687016 3451.610601 40.45121002
25 09 2018 16:10 3263.530029 11.7110796 3469.693918 35.54940033
25 09 2018 16:20 3301.798096 12.12882042 3540.576113 39.50394821
25 09 2018 16:30 3546.954102 13.04926968 3600 45.0022316
25 09 2018 16:40 3178.909912 11.40886974 3398.476992 47.30010986
25 09 2018 16:50 3139.781006 11.4127903 3399.515412 41.53697968
25 09 2018 17:00 3580.489014 13.74617004 3600 39.69618988
25 09 2018 17:10 3551.291992 13.20977974 3600 47.8752594
25 09 2018 17:20 3596.020996 13.93957043 3600 48.93363953
25 09 2018 17:30 3547.834961 13.01128006 3600 45.56510162
25 09 2018 17:40 3433.990967 12.30072021 3561.157923 41.45864868
25 09 2018 17:50 3068.366943 10.9089098 3239.323827 49.00592041
25 09 2018 18:00 2973.440918 10.58285999 3104.38517 43.43938065
25 09 2018 18:10 3226.670898 11.41114044 3399.0788
                                                    28.10401917
25 09 2018 18:20 3267.87207 11.80881977 3489.040327 32.32183075
25 09 2018 18:30 3309.448975 11.77013016 3481.590447 33.6189003
25 09 2018 18:40 3464.178955 11.92502022 3509.806267 32.3728714
25 09 2018 18:50 3464.918945 12.1961298 3549.208087 40.05545044
25 09 2018 19:00 3536.427002 12.55132961 3582.76819 43.35457993
25 09 2018 19:10 2912.623047 10.58331013 3104.589918 41.14268112
25 09 2018 19:20 3480.077881 12.02153015 3525.258327 37.75138092
25 09 2018 19:30 3580.208008 13.02937031 3600 38.89868927
25 09 2018 19:40 3582.388916 13.49709034 3600 42.5216217
```

```
25 09 2018 19:50 3588.226074 13.6167202 3600 45.04317856
25 09 2018 20:00
                 3484.042969 12.89186954 3596.953433 45.46863174
                 3535.540039 14.14173985 3600 41.38507843
25 09 2018 20:10
25 09 2018 20:20 3491.562988 13.01955986 3600 37.7555809
25 09 2018 20:30 3303.370117 11.71681023 3470.876516 35.05715179
25 09 2018 20:40 3599.805908 13.21063042 3600 41.84500122
25 09 2018 20:50 3486.00293 12.49594975 3578.827981 51.43790054
25 09 2018 21:00 3452.282959 12.40764046 3571.571701 51.26998138
25 09 2018 21:10
                 3602.038086 14.00251007 3600 48.42876053
                 3602.197998 14.50916958 3600
                                              49.16889954
25 09 2018 21:20
25 09 2018 21:30
                 3601.907959 14.86973953 3600 49.87850952
25 09 2018 21:40
                 3601.356934 14.05741024 3600 51.92144012
25 09 2018 21:50
                 3598.308105 14.39435005 3600 49.80931854
25 09 2018 22:00
                 3597.194092 14.16716003 3600 49.30490875
25 09 2018 22:10 3601.947021 15.0649004 3600 51.09413147
25 09 2018 22:20 3601.980957 14.58098984 3600 51.76054001
25 09 2018 22:30 3601.825928 14.85801029 3600 51.96699142
25 09 2018 22:40 3601.791992 15.38274956 3600 47.98138046
25 09 2018 22:50 3602.128906 14.69713974 3600 45.53340149
25 09 2018 23:00
                 3602.066895 14.82106972 3600 44.85409927
                 3602.141113 15.65297985 3600 49.84384918
25 09 2018 23:10
25 09 2018 23:20
                 3601.987061 15.09537029 3600 54.36351013
25 09 2018 23:30
                 3601.395996 14.36507034 3600 47.75896072
25 09 2018 23:40
                 3581.696045 13.13169003 3600 40.64054108
25 09 2018 23:50
                 3595.896973 13.47752953 3600 40.73983002
26 09 2018 00:00 3601.413086 14.58504009 3600 47.43659973
26 09 2018 00:10 3517.832031 12.49827003 3579.002453 45.9538002
26 09 2018 00:20 3601.674072 14.80331039 3600 54.91210938
26 09 2018 00:30
                 3601.672119 16.15286064 3600
                                              58.19387054
26 09 2018 00:40
                 3601.530029 14.6753397 3600 53.688591
26 09 2018 00:50 3600.061035 13.69618034 3600 49.84983063
26 09 2018 01:00
                 3568.925049 13.05687046 3600 53.26498032
26 09 2018 01:10
                 3573.61499 13.08483982 3600 45.31819153
26 09 2018 01:20
                 3588.915039 13.09103012 3600
                                              40.01145935
                 3600.425049 15.40083981 3600
                                              28.9289608
26 09 2018 01:30
26 09 2018 01:40
                 3600.070068 14.64855003 3600
                                              30.28500938
26 09 2018 01:50
                 3600.323975 15.34893036 3600
                                              29.82662964
26 09 2018 02:00
                 3600.583008 15.82359028 3600 44.31715012
26 09 2018 02:10
                 3599.217041 15.36007023 3600 44.87564087
                 3600.635986 14.43338013 3600
26 09 2018 02:20
                                              43.74472046
26 09 2018 02:30 3595.103027 15.06548023 3600
                                              46.8132515
26 09 2018 02:40 3601.082031 14.69909954 3600
                                              42.94813919
26 09 2018 02:50
                 3600.191895 15.14196968 3600
                                              48.10739136
26 09 2018 03:00
                 3600.75293 15.44604015 3600
                                              45.51950073
26 09 2018 03:10 3600.815918 15.26323986 3600 43.17807007
26 09 2018 03:20
                 3600.719971 15.06678009 3600 41.68778992
                 3572.345947 13.69536972 3600
26 09 2018 03:30
                                              36.57091904
                 3599.197998 15.37351036 3600
                                              39.2469902
26 09 2018 03:40
                 3600.38208 14.81927013 3600
26 09 2018 03:50
                                              40.08691025
26 09 2018 04:00
                 3591.897949 14.44851017 3600
                                              39.90390015
                 3601.165039 14.80354023 3600
                                              43.51234055
26 09 2018 04:10
26 09 2018 04:20
                 3600.297119 15.48651981 3600
                                              47.82252884
26 09 2018 04:30
                 3601.163086 15.15497971 3600
                                              50.34428024
26 09 2018 04:40
                 3597.457031 13.65771961 3600
                                              48.7481308
26 09 2018 04:50
                 3601.079102 15.16703033 3600 49.59973907
26 09 2018 05:00
                 3595.148926 13.81305027 3600 49.53454971
26 09 2018 05:10 3569.891113 13.11522961 3600 46.74938965
26 09 2018 05:20 3597.39502 13.34307003 3600 46.8819809
26 09 2018 05:30 3599.095947 13.85509968 3600 42.20912933
```

```
26 09 2018 05:40 3550.61499 11.87792015 3501.677283 40.04833984
                 3576.74292 13.97455978 3600 29.98201942
26 09 2018 05:50
26 09 2018 06:00
                 3501.514893 14.24608994 3600
                                              36.52116013
26 09 2018 06:10 3601.919922 14.09941006 3600 41.58544159
26 09 2018 06:20 3496.818115 12.74619961 3592.970653 40.90871048
26 09 2018 06:30 3499.705078 12.83185959 3595.684848 36.98149109
26 09 2018 06:40 3570.802002 14.21792984 3600 32.57950974
26 09 2018 06:50 3576.073975 15.27079964 3600 36.78351974
26 09 2018 07:00 3580.962891 13.01914978 3600 40.66007996
                 3600.552002 15.03137016 3600 40.6076088
26 09 2018 07:10
26 09 2018 07:20 3592.75708 14.23927975 3600 42.86714935
26 09 2018 07:30 3574.89502 13.05562019 3600 47.96733856
26 09 2018 07:40 3597.075928 14.04570007 3600
                                              38.04117966
26 09 2018 07:50 3600.250977 14.82759953 3600 48.67990112
26 09 2018 08:00 3595.291016 14.79201984 3600 50.0092392
26 09 2018 08:10 3600.832031 14.58613014 3600 52.77119827
26 09 2018 08:20 3601.684082 15.46488953 3600 55.01115036
26 09 2018 08:30 3601.773926 15.59893036 3600 55.08969879
26 09 2018 08:40 3601.533936 14.70073986 3600 51.31253052
26 09 2018 08:50
                 3601.177002 12.99915028 3597.936742 45.17060852
26 09 2018 09:00
                 3601.237061 13.76158047 3600 46.88631821
                 3601.903076 13.55698013 3600 43.68964005
26 09 2018 09:10
26 09 2018 09:20
                 3601.479004 13.88131046 3600 43.4571991
26 09 2018 09:30
                 3598.9729
                            14.20604992 3600 51.18944931
26 09 2018 09:40 3598.584961 13.66703987 3600 42.276371
26 09 2018 09:50 3599.281982 13.3785696 3600 36.1169281
26 09 2018 10:00 3568.86792 12.61573029 3586.766407 38.68244171
26 09 2018 10:10 3568.00293 12.60410023 3586.090513 42.1023407
26 09 2018 10:20 3601.537109 13.89770985 3600 43.95434189
26 09 2018 10:30 3602.326904 13.81556034 3600 42.28544998
26 09 2018 10:40 3602.446045 13.76723003 3600 42.50891876
26 09 2018 10:50 3600.228027 13.22179031 3600 41.19255066
26 09 2018 11:00 3600.693115 13.60169983 3600 41.59909821
26 09 2018 11:10 3498.843018 12.09274006 3535.640485 44.19501114
26 09 2018 11:20 3476.698975 11.72848988 3473.268017 44.91775131
                 3322.254883 11.26282024 3357.552431 36.19112015
26 09 2018 11:30
                 3346.668945 11.77565002 3482.669915 37.10520935
26 09 2018 11:40
26 09 2018 11:50
                 3588.633057 15.34455013 3600 35.68185043
26 09 2018 12:00 3601.958984 14.94908047 3600 45.09141159
26 09 2018 12:10 3601.544922 14.69332027 3600 38.19762039
26 09 2018 12:20 3594.271973 14.24271965 3600 48.43394089
26 09 2018 12:30 3584.444092 13.42018986 3600 48.79045105
26 09 2018 12:40 3601.466064 15.44355011 3600 44.69924164
26 09 2018 12:50
                 3601.799072 14.81832981 3600 42.38825989
26 09 2018 13:00 3601.600098 15.95936012 3600 39.88552094
26 09 2018 13:10
                 3601.555908 15.72865963 3600 46.50175095
26 09 2018 13:20
                 3601.419922 15.49409962 3600 43.34608078
                 3601.282959 14.18877983 3600 45.36096954
26 09 2018 13:30
26 09 2018 13:40
                 3601.349121 15.05303001 3600 44.670681
26 09 2018 13:50
                 3600.61499 14.57804012 3600
                                              42.9296608
26 09 2018 14:00
                 3601.35791 13.91292
                                         3600 43.40077972
26 09 2018 14:10
                 3550.811035 13.55774021 3600
                                              38.36240005
26 09 2018 14:20
                 3529.733887 13.94174957 3600 47.85622025
26 09 2018 14:30
                 3580.351074 13.80202007 3600
                                              32.35406876
26 09 2018 14:40
                 3592.920898 17.33263016 3600
                                              34.05025864
26 09 2018 14:50
                 3599.670898 14.54168987 3600 38.61008835
26 09 2018 15:00
                 3598.98999 15.24429989 3600 40.69388962
26 09 2018 15:10 3600.760986 14.47951984 3600 43.52043152
26 09 2018 15:20 3599.389893 15.1065197 3600 46.03305054
```

```
26 09 2018 15:30 3601.2229
                             16.20911026 3600
                                              50.2808609
                 3601.514893 15.87755966 3600 52.16852188
26 09 2018 15:40
26 09 2018 15:50
                 3549.886963 12.72638035 3592.190084 53.17451096
26 09 2018 16:00
                 3601.623047 15.22062016 3600 50.77898026
26 09 2018 16:10
                 3597.736084 13.50866985 3600 41.36973953
26 09 2018 16:20
                 3508.218994 11.30226994 3369.041686 40.80477905
26 09 2018 16:30
                 3601.451904 14.06941032 3600 31.42798996
                 3571.48999 12.64457989 3588.355721 32.46303177
26 09 2018 16:40
26 09 2018 16:50
                 3600.3479
                             13.80891991 3600 42.02947998
                 3589.241943 13.95687008 3600
                                              41.11891174
26 09 2018 17:00
26 09 2018 17:10
                 3601.625
                             15.79063988 3600 42.93032837
26 09 2018 17:20
                 3601.270996 15.26496983 3600 42.84017181
26 09 2018 17:30
                 3601.416016 15.14513969 3600 44.2358284
26 09 2018 17:40
                 3600.937988 14.30871964 3600
                                              46.08248901
26 09 2018 17:50
                 3600.731934 16.6678791 3600
                                              53.74697113
26 09 2018 18:00
                 3600.968018 17.25847054 3600
                                              56.53662109
26 09 2018 18:10
                 3597.063965 14.66930962 3600 51.34840012
26 09 2018 18:20 3600.837891 13.31297016 3600 46.28134918
26 09 2018 18:30
                 3593.656982 14.17222977 3600 47.69733047
26 09 2018 18:40
                 3600.647949 14.35245037 3600
                                              42.71585083
                 3600.230957 15.44917011 3600
26 09 2018 18:50
                                              50.03200912
                 3601.055908 17.82863998 3600
                                               56.49094009
26 09 2018 19:00
26 09 2018 19:10
                 3601.336914 16.93655014 3600
                                               57.51562881
                                               51.15864944
26 09 2018 19:20
                 3600.845947 16.97296906 3600
                 3600.25
26 09 2018 19:30
                             17.17152977 3600
                                              53.59856033
26 09 2018 19:40
                 3600.639893 18.32888985 3600
                                               58.04040909
26 09 2018 19:50
                 3601.009033 18.52609062 3600
                                              57.02807999
26 09 2018 20:00
                 3601.194092 17.81011009 3600
                                              55.31924057
                 3600.925049 16.22678947 3600
26 09 2018 20:10
                                              53.99211884
26 09 2018 20:20
                 3600.614014 15.95932961 3600 46.71125031
26 09 2018 20:30
                           15.0086298 3600 47.86634064
                 3600.7771
26 09 2018 20:40
                 3600.467041 14.30852985 3600 47.42192078
26 09 2018 20:50
                 3600.333008 15.44563007 3600
                                              49.98820114
26 09 2018 21:00
                 3600.266113 17.29841042 3600
                                               51.05891037
                 3600.561035 18.11687088 3600
26 09 2018 21:10
                                               53.39413834
26 09 2018 21:20
                 3601.047119 17.15781975 3600
                                               53.02119064
26 09 2018 21:30
                 3601.016113 15.46119022 3600
                                               52.71704102
26 09 2018 21:40
                 3595.552002 14.42700005 3600
                                              50.93901062
26 09 2018 21:50
                 3600.574951 15.89023018 3600
                                              46.96023178
26 09 2018 22:00
                 3569.125
                             13.59317017 3600
                                              48.78031921
                 3540.391113 13.51006985 3600
26 09 2018 22:10
                                              42.16775894
26 09 2018 22:20 3576.177002 13.87895966 3600
                                              54.16765976
26 09 2018 22:30
                 3594.034912 14.21440983 3600
                                              48.80244827
                                              48.89279938
26 09 2018 22:40
                 3597.459961 14.85027981 3600
26 09 2018 22:50 3588.210938 13.58296967 3600 51.83415985
26 09 2018 23:00
                 3598.326904 13.14953041 3600
                                              49.83605957
26 09 2018 23:10
                 3600.343018 14.71214962 3600
                                              51.08737946
                 3601.554932 13.69738007 3600
26 09 2018 23:20
                                              53.2259407
26 09 2018 23:30
                 3594.532959 13.08125019 3600
                                               51.27610016
26 09 2018 23:40
                 3591.987061 13.65793991 3600
                                               47.66757965
26 09 2018 23:50
                 3599.471924 14.56462955 3600
                                               51.92930984
27 09 2018 00:00
                 3598.812012 13.35577011 3600
                                              49.35446167
27 09 2018 00:10
                 3599.647949 13.72764015 3600
                                               51.99805832
27 09 2018 00:20
                 3601.4729
                             13.80541992 3600
                                              50.67469025
27 09 2018 00:30
                 3601.23999 14.5858202 3600
                                              53.68206024
27 09 2018 00:40
                 3600.637939 13.3956604 3600 48.71913147
27 09 2018 00:50
                 3599.289063 13.49763966 3600 51.16226959
27 09 2018 01:00 3601.680908 14.96094036 3600 52.42013931
27 09 2018 01:10 3585.605957 13.65816975 3600 51.09545898
```

```
27 09 2018 01:20 3597.51001 13.87710953 3600 50.10871887
                 3600.245117 13.63706017 3600 49.88468933
27 09 2018 01:30
27 09 2018 01:40
                 3601.25293 14.39103985 3600 50.23059082
27 09 2018 01:50 3601.490967 14.25646019 3600 48.12757111
27 09 2018 02:00 3598.169922 14.23173046 3600 47.5737114
27 09 2018 02:10 3599.157959 14.44128036 3600 47.06151962
27 09 2018 02:20
                 3599.77002 14.73136044 3600 46.045681
27 09 2018 02:30
                 3600.701904 15.61139965 3600
                                              42.53924179
27 09 2018 02:40
                 3597.937012 14.72257042 3600
                                              42.7914505
                 3600.680908 15.71259975 3600
                                              44.40988922
27 09 2018 02:50
27 09 2018 03:00
                 3600.808105 13.96374989 3600
                                              45.26968002
27 09 2018 03:10
                 3595.330078 13.73349953 3600 45.53927994
27 09 2018 03:20
                 3600.669922 14.56678963 3600 45.4861908
27 09 2018 03:30
                 3585.906006 14.73138046 3600 44.18613052
27 09 2018 03:40 3599.062012 16.6744709 3600 43.17544937
27 09 2018 03:50 3600.35791 15.59022045 3600 43.90348816
27 09 2018 04:00
                 3600.581055 14.41709042 3600 46.19049835
27 09 2018 04:10 3598.944092 15.02289009 3600 46.08996964
27 09 2018 04:20 3600.188965 15.47457027 3600 47.20748901
                 3599.794922 15.14723969 3600 53.88977814
27 09 2018 04:30
27 09 2018 04:40
                 3570.878906 12.61058044 3586.469618 51.21699142
27 09 2018 04:50
                 3541.448975 13.35988045 3600 51.56111145
27 09 2018 05:00
                 3594.806885 15.00428009 3600
                                              55.52906036
27 09 2018 05:10
                 3601.181885 16.41329956 3600
                                              58.53826904
27 09 2018 05:20
                 3601.424072 15.72194958 3600 57.01242065
27 09 2018 05:30 3601.791992 15.79074001 3600 59.23049164
27 09 2018 05:40 3601.6521
                             15.47535992 3600 59.52325058
27 09 2018 05:50
                 3601.917969 15.23830986 3600 60.67752075
27 09 2018 06:00
                 3601.75
                             15.93737984 3600 62.35840988
                 3601.342041 15.19898987 3600 59.35071945
27 09 2018 06:10
27 09 2018 06:20 3601.753906 14.77336025 3600 59.49853897
27 09 2018 06:30 3601.75708 15.1157999 3600 58.65119171
27 09 2018 06:40 3602.170898 15.16882038 3600 58.77093124
27 09 2018 06:50 3601.956055 15.0205698 3600 56.00682068
27 09 2018 07:00 3598.272949 13.57522011 3600 55.72937012
27 09 2018 07:10
                 3578.888916 12.34928036 3566.110896 52.31869888
27 09 2018 07:20
                 3502.665039 12.37353992 3568.445739 55.54626846
27 09 2018 07:30 3464.447998 12.67551994 3589.922461 58.08837891
27 09 2018 07:40 3564.708008 12.55980968 3583.33041 58.28884888
27 09 2018 07:50 3582.99292 13.40659046 3600 58.88414001
27 09 2018 08:00 3596.506104 13.28530979 3600 59.70824051
27 09 2018 08:10 3402.048096 12.5832901 3584.830454 54.21746063
27 09 2018 08:20 2364.799072 9.272273064 2320.782391 56.38959885
27 09 2018 08:30 2629.792969 9.640686035 2547.671001 40.42174149
27 09 2018 08:40 2595.259033 9.790216446 2654.612058 43.89513016
27 09 2018 08:50 2362.851074 9.375642776 2388.410384 53.39997864
                 1579.353027 7.757727146 1394.460583 47.80031967
27 09 2018 09:00
                 1922.849976 8.682454109 1941.63956 40.67958069
27 09 2018 09:10
27 09 2018 09:20 1687.360962 8.091099739 1582.58939 36.87385941
27 09 2018 09:30
                 1432.660034 7.462224007 1238.447741 47.39025879
27 09 2018 09:40
                 1971.192993 8.56157589 1866.099047 33.63689041
27 09 2018 09:50
                 2170.056885 9.024632454 2159.882479 32.50342178
27 09 2018 10:00
                 2087.910889 8.945124626 2108.676835 35.00268936
                 1962.796021 8.577093124 1875.742986 32.52845001
27 09 2018 10:10
27 09 2018 10:20
                 1962.13501 8.758859634 1989.849525 33.59973907
27 09 2018 10:30
                 1761.287964 8.308590889 1711.352883 38.0486908
27 09 2018 10:40 1592.713989 7.971943855 1513.97123 44.06023026
27 09 2018 10:50 1603.999023 7.824120998 1430.944377 36.60007858
27 09 2018 11:00 1698.96106 8.148238182 1615.994747 37.87554932
```

```
27 09 2018 11:10
                 2301.399902 8.866800308 2058.502219 31.05080986
                 2768.047119 10.62228012 3122.116518 35.15639114
27 09 2018 11:20
27 09 2018 11:30
                 3293.51001 11.93089962 3510.793707 38.20462036
27 09 2018 11:40 2873.021973 10.22367001 2923.513461 41.03649902
27 09 2018 11:50
                 3257.503906 11.34667015 3381.585184 36.36280823
27 09 2018 12:00
                 3482.194092 12.26089954 3556.816045 39.66379166
                 3401.23291 12.42572975 3573.156309 44.03837967
27 09 2018 12:10
                 3308.167969 11.64764023 3456.194344 43.77204132
27 09 2018 12:20
27 09 2018 12:30
                 3352.785889 11.0819397 3300.611574 40.52378082
                 3454.311035 12.60499001 3586.142939 38.05955887
27 09 2018 12:40
27 09 2018 12:50
                 3223.674072 11.14793968 3322.211805 42.73490143
27 09 2018 13:00
                 3347.416016 11.59181976 3443.689834 41.10757065
27 09 2018 13:10
                 3353.672119 11.35766029 3384.62724 37.46715927
27 09 2018 13:20
                 3221.179932 11.40493965 3397.432934 37.67427826
27 09 2018 13:30 3217.147949 11.1482296 3322.304576 39.55393982
27 09 2018 13:40
                 3240.273926 11.61209011 3448.299074 44.65076065
27 09 2018 13:50
                 3263.375
                            11.33463001 3378.223992 45.05633163
27 09 2018 14:00 3132.024902 11.02672005 3281.794639 46.91255188
27 09 2018 14:10 3052.458008 11.1241703 3314.543232 47.26992035
                 3059.917969 10.73663044 3171.306751 46.2789917
27 09 2018 14:20
27 09 2018 14:30 3407.865967 12.56715965 3583.808908 52.48849106
27 09 2018 14:40 3341.822021 11.67070007 3461.1883
                                                   45.80493164
27 09 2018 14:50
                 3511.018066 12.34333992 3565.525034 45.88230896
27 09 2018 15:00
                 3482.39502 12.67263031 3589.782152 50.36141968
27 09 2018 15:10 3527.758057 12.76366043 3593.610661 49.28686142
27 09 2018 15:20 3350.77002 11.88306999 3502.585095 49.30319977
27 09 2018 15:30 3425.008057 12.09984016 3536.628899 50.0150795
27 09 2018 15:40 3160.624023 11.32608986 3375.821755 48.17198944
27 09 2018 15:50 3128.391113 11.2981596 3367.859794 47.85121918
27 09 2018 16:00 3028.488037 11.29574013 3367.162448 48.9679985
27 09 2018 16:10 2729.646973 10.25809002 2942.412287 47.92612839
27 09 2018 16:20 2945.38501 10.50146961 3066.488422 49.23667908
27 09 2018 16:30 3289.346924 11.57322025 3439.391392 55.02872849
27 09 2018 16:40 3582.0979
                            13.57201958 3600 58.11682129
27 09 2018 16:50 3420.093994 12.30902004 3562.030998 58.68672943
27 09 2018 17:00 3322.062988 11.70571995 3468.582381 59.15404892
27 09 2018 17:10
                 3174.697021 11.83061028 3493.117382 61.25345993
27 09 2018 17:20
                 3359.702881 12.10925007 3537.925892 60.27639008
27 09 2018 17:30
                 3270.266113 11.69466019 3466.271873 59.01576996
27 09 2018 17:40 2765.76001 10.48075008 3056.559967 57.33758926
27 09 2018 17:50 2783.093018 10.63661957 3128.467
                                                     57.87248993
27 09 2018 18:00 2667.585938 10.06110001 2829.510854 52.6063118
27 09 2018 18:10 2224.393066 9.539027214 2470.509824 53.89910889
27 09 2018 18:20 2251.508057 9.364265442 2380.95731 54.42443085
27 09 2018 18:30
                 2603.706055 10.22611046 2924.864782 57.66415024
27 09 2018 18:40
                 3130.438965 11.68305016 3463.821958 59.98836899
                 2823.88208 10.93914986 3250.531985 63.91576004
27 09 2018 18:50
                 3113.790039 11.54403019 3432.51116 64.08616638
27 09 2018 19:00
27 09 2018 19:10
                 3126.822021 11.44985008 3409.178746 62.12152863
27 09 2018 19:20
                 2692.653076 10.45098019 3042.092222 61.04734039
27 09 2018 19:30
                 2710.844971 10.43799019 3035.703931 60.02886963
27 09 2018 19:40
                 3016.666016 11.33810043 3379.195876 62.26927948
27 09 2018 19:50
                 2763.409912 10.78973007 3193.037938 62.05014038
27 09 2018 20:00
                 3177.474121 11.72243977 3472.032348 68.96954346
27 09 2018 20:10
                 2878.430908 10.75286007 3178.022504 66.56255341
27 09 2018 20:20
                 2659.750977 10.3695097 3001.260526 63.21953964
27 09 2018 20:30 2407.409912 9.68473053 2579.969427 62.70227814
27 09 2018 20:40 2800.183105 10.63626957 3128.312625 63.0622406
27 09 2018 20:50 3335.004883 11.85684013 3497.912377 65.28368378
```

```
27 09 2018 21:00 2890.364014 10.73031044 3168.673893 64.83991241
27 09 2018 21:10
                 3234.36792 11.68478966 3464.190621 64.89491272
27 09 2018 21:20
                 3113.975098 11.51397038 3425.253218 63.3291893
27 09 2018 21:30 2634.177979 10.20355034 2912.306442 59.67399979
27 09 2018 21:40 2527.261963 10.13510036 2873.28293 58.99697113
27 09 2018 21:50 2433.784912 9.791790009 2655.697013 58.67874146
                 2517.791016 10.09304047 2848.608272 59.42161942
27 09 2018 22:00
                 2551.923096 10.03227997 2812.010006 56.37189865
27 09 2018 22:10
27 09 2018 22:20
                 1993.097046 8.936549187 2103.169834 55.09030151
                 1808.30896 8.496644974 1825.925092 51.73418045
27 09 2018 22:30
27 09 2018 22:40
                 1388.562012 7.769161224 1400.706645 52.97546005
27 09 2018 22:50
                 1347.347046 7.701842785 1364.159365 51.64760971
27 09 2018 23:00
                 2004.032959 9.067625046 2187.674353 51.4575119
27 09 2018 23:10 2011.786987 8.81289196 2024.139595 51.72843933
27 09 2018 23:20 1953.764038 8.580609322 1877.93055 49.66178131
27 09 2018 23:30 2354.165039 9.486138344 2460.887158 51.34801865
27 09 2018 23:40 2644.616943 9.996777534 2790.096733 49.65243149
27 09 2018 23:50 2062.930908 8.860016823 2054.17028 52.76594925
28 09 2018 00:00 2250.160889 9.003119469 2146.002097 51.5591507
28 09 2018 00:10 2338.032959 9.365951538 2382.061705 54.85263062
28 09 2018 00:20
                 2505.969971 9.723241806 2607.659914 56.07646942
                 2331.364014 9.421191216 2418.268045 53.06336975
28 09 2018 00:30
28 09 2018 00:40
                 2209.061035 8.974935532 2127.845528 51.87551117
28 09 2018 00:50
                 2302.370117 9.015981674 2154.29874 50.54986954
28 09 2018 01:00
                 2691.805908 10.21689034 2919.750308 52.2141304
28 09 2018 01:10 2653.50708 9.911313057 2735.714536 50.15351105
28 09 2018 01:20 2741.148926 10.2892704 2959.236762 54.10832977
28 09 2018 01:30 3158.555908 11.0458498 3288.391029 52.85876083
28 09 2018 01:40 2793.677979 10.26391983 2945.579233 54.70037842
28 09 2018 01:50 3056.370117 11.04372025 3287.660795 57.41968918
28 09 2018 02:00 3027.485107 10.72101021 3164.781424 58.31391907
28 09 2018 02:10 2897.001953 10.86118031 3221.195092 60.40282822
28 09 2018 02:20 3169.479004 11.50664043 3423.456656 62.50947952
28 09 2018 02:30 3073.687988 10.49172974 3061.83558 60.47119141
                 3281.458984 11.54461956 3432.651707 62.91363907
28 09 2018 02:40
                 3004.960938 10.91592979 3241.944803 64.23478699
28 09 2018 02:50
28 09 2018 03:00
                 2895.834961 10.73256016 3169.612244 66.53127289
28 09 2018 03:10
                 2967.48999 10.70855045 3159.532757 66.37960815
28 09 2018 03:20
                 2519.375977 9.923187256 2743.409664 65.39428711
28 09 2018 03:30 2568.569092 10.06110001 2829.510854 62.39455032
28 09 2018 03:40 2691.545898 10.45370007 3043.424007 64.05696869
28 09 2018 03:50 2857.599121 10.57699013 3101.71036 59.84672928
28 09 2018 04:00 2852.274902 10.63691044 3128.595271 62.19503021
28 09 2018 04:10 3132.293945 11.34873009 3382.157259 60.09941864
28 09 2018 04:20 2810.939941 10.55583
                                         3091.993219 57.25820923
28 09 2018 04:30
                 2717.558105 10.60342979 3113.687763 62.71223068
28 09 2018 04:40 2883.164063 10.83279991 3210.158332 64.50231171
28 09 2018 04:50 2449.883057 9.917297363 2739.598363 61.9450798
28 09 2018 05:00 2794.164063 10.67146015 3143.677756 61.26028824
                 2560.14209 10.1052103 2855.802822 58.91959
28 09 2018 05:10
28 09 2018 05:20
                 2556.516113 10.04885006 2822.103469 61.10186005
28 09 2018 05:30
                 2652.418945 10.19052029 2904.985028 60.56581116
28 09 2018 05:40
                 2731.447021 10.55500984 3091.614222 63.74655151
28 09 2018 05:50 2403.850098 9.715928078 2602.440367 59.3118515
28 09 2018 06:00 2477.412109 9.88304615 2717.212841 58.46648026
28 09 2018 06:10 2652.504883 10.03701019 2814.900033 63.18317032
28 09 2018 06:20 2963.049072 10.84475994 3214.832976 64.01197052
28 09 2018 06:30 2744.729004 10.15719032 2886.028828 61.85113144
28 09 2018 06:40 3478.485107 12.55018997 3582.691803 65.80605316
```

```
28 09 2018 06:50 3273.458984 11.32723999 3376.14615 61.59986877
                 2905.576904 10.57971954 3102.955232 59.96387863
28 09 2018 07:00
28 09 2018 07:10
                 3143.334961 11.30311966 3369.285578 65.63713074
28 09 2018 07:20 2902.343994 10.78670025 3191.816598 62.45793152
28 09 2018 07:30 3352.675049 11.68521023 3464.27967 60.30995941
28 09 2018 07:40 3476.498047 12.16528034 3545.344354 62.40248871
28 09 2018 07:50
                 3437.470947 12.30478001 3561.586351 63.98226929
28 09 2018 08:00 3447.495117 12.06328011 3531.449068 64.68023682
28 09 2018 08:10 3441.544922 11.78588009 3484.655881 62.02845001
                 3589.365967 12.94791985 3597.671696 64.29338074
28 09 2018 08:20
28 09 2018 08:30
                 3489.219971 12.1400404 3542.066859 62.03858185
28 09 2018 08:40 3581.13208 12.78637981 3594.376762 63.40256882
28 09 2018 08:50 3467.583984 11.98260975 3519.219888 60.57390976
28 09 2018 09:00
                 3518.956055 12.43486977 3573.937642 61.36664963
28 09 2018 09:10
                 3557.836914 12.38541985 3569.555402 61.79257965
28 09 2018 09:20
                 3545.658936 12.60636044 3586.223454 60.58855057
28 09 2018 09:30
                 3529.227051 12.09714985 3536.255368 60.50672913
28 09 2018 09:40
                 3471.684082 11.92453957 3509.725275 60.53153992
28 09 2018 09:50
                 3234.314941 11.44594002 3408.172167 58.51113129
                 3166.27002 11.40015984 3396.158935 60.08995056
28 09 2018 10:00
                 3235.018066 11.57334995 3439.421596 61.31863022
28 09 2018 10:10
28 09 2018 10:20
                 3441.920898 12.16695023 3545.557494 61.70121002
28 09 2018 10:30
                 3153.194092 11.27989006 3362.563846 59.99229813
28 09 2018 10:40
                 3271.949951 11.82207012 3491.529653 62.22142029
28 09 2018 10:50
                 2750.581055 10.56476974 3096.112835 60.77878952
28 09 2018 11:00
                 2376.610107 9.690773964 2584.348584 59.22848129
28 09 2018 11:10 2475.860107 9.887584686 2720.200927 60.01427841
28 09 2018 11:20 2665.699951 10.38978958 3011.595659 61.57168961
28 09 2018 11:30 643.4489746 7.746005058 1388.073411 59.71165085
                 1742.083984 8.754606247 1987.156975 61.45318985
28 09 2018 11:40
28 09 2018 11:50
                 2183.858887 9.421689987 2418.595158 62.61251831
28 09 2018 12:00
                 2046.503052 9.06340313 2184.942161 60.26760864
28 09 2018 12:10
                 2483.156006 9.986246109 2783.520522 62.31192017
28 09 2018 12:20
                 2265.138916 9.664208412 2565.004353 65.22386932
                             9.181943893 2261.881046 60.69104004
28 09 2018 12:30
                 2066.4021
                 2264.99707 9.725549698 2609.303177 63.16540146
28 09 2018 12:40
28 09 2018 12:50
                 2400.928955 9.873391151 2710.833878 61.10065842
                 2576.75
28 09 2018 13:00
                             10.40153027 3017.526872 61.57804108
28 09 2018 13:10
                 2565.335938 10.38008976 3006.666652 62.55770874
28 09 2018 13:20 2699.322021 10.70956993 3159.96367 61.1151886
28 09 2018 13:30 2494.263916 10.41926956 3026.416356 63.28749084
28 09 2018 13:40 2125.174072 9.592668533 2511.683487 65.36356354
28 09 2018 13:50 2242.006104 9.790786743 2655.005368 62.15962982
28 09 2018 14:00 2272.694092 9.868466377 2707.568422 63.94858932
28 09 2018 14:10 2119.920898 9.58475399 2505.673325 64.29443359
28 09 2018 14:20
                 2295.874023 9.799527168 2661.019657 64.41739655
28 09 2018 14:30
                 1925.878052 9.131682396 2229.203981 63.85374069
                 1831.978027 8.886436462 2071.054396 66.43749237
28 09 2018 14:40
28 09 2018 14:50
                 1697.718994 8.614201546 1898.870852 67.70658112
28 09 2018 15:00
                 1401.560059 8.033453941 1549.212238 66.60497284
28 09 2018 15:10
                 1925.936035 9.130718231 2228.577891 66.90341949
28 09 2018 15:20
                 2121.704102 9.564558983 2490.236172 68.75823975
28 09 2018 15:30
                 2294.25
                             10.05126953 2823.570158 71.33364105
28 09 2018 15:40
                 2186.560059 9.691054344 2584.551445 71.79649353
28 09 2018 15:50
                 1692.645996 8.658382416 1926.522529 72.87687683
28 09 2018 16:00
                 1407.730957 8.131369591 1606.100075 73.60003662
28 09 2018 16:10 1312.594971 8.133938789 1607.605351 74.46543121
28 09 2018 16:20 1013.757996 7.48459816 1249.994345 74.43515778
28 09 2018 16:30 977.7720947 7.464785099 1239.765559 75.7158432
```

```
28 09 2018 16:40 1094.147949 7.634232998 1328.015348 76.70619965
28 09 2018 16:50 675.4498291 5.910021782 595.051243 76.15651703
28 09 2018 17:00 560.4188843 5.557303905 485.6364479 82.55077362
28 09 2018 17:10 263.1397095 4.122021198 145.9924397 92.0089035
28 09 2018 17:20 308.6856079 4.507151127 223.514888 103.8427963
28 09 2018 17:30 210.8271027 4.649353027 254.2996555 120.0733032
28 09 2018 17:40 276.0681152 4.842771053 298.2923525 137.2655945
28 09 2018 17:50 336.2735901 5.246029854 398.8206114 144.8318024
28 09 2018 18:00 465.7149963 5.904355049 593.1937836 149.8330994
28 09 2018 18:10 460.8421021 5.850218773 575.617865 153.1360016
28 09 2018 18:20
                 380.5364075 5.528294086 477.1761449 158.3686981
28 09 2018 18:30 260.2492981 5.005455017 337.3408483 159.1938019
28 09 2018 18:40 228.219696 4.951982975 324.2904366 155.4479065
28 09 2018 18:50 94.57772064 4.282976151 177.4215675 149.6925964
28 09 2018 19:00 49.97801971 3.915488958 112.3452493 173.0776978
28 09 2018 19:10 91.60984802 4.11406517 144.4721784 176.3939056
28 09 2018 19:20 -0.160533503
                               3.049530983 17.78125692 171.4640045
28 09 2018 19:30 0
                       2.678076982 0
                                         157.0200043
28 09 2018 19:40 0
                       3.374408007 39.19556465 164.3125
28 09 2018 19:50 43.32909012 3.846313
                                         100.3816715 156.3578033
28 09 2018 20:00 66.24333191 3.998965979 127.8015534 154.6264038
28 09 2018 20:10 8.335782051 3.630937099 68.03651706 163.0045013
28 09 2018 20:20
                 26.41620064 3.554634094 58.35780929 189.6483002
28 09 2018 20:30
                 -0.178866103
                                   2.548433065 0
                                                     180.7221069
28 09 2018 20:40 0
                       3.206846952 26.04195542 199.3934021
28 09 2018 20:50
                 88.85066986 4.371912003 195.3687945 191.7427979
28 09 2018 21:00
                 101.7882996 4.06792593 135.7147138 180.6031036
28 09 2018 21:10 5.0128088
                             3.083004951 19.2073442 191.9832001
28 09 2018 21:20 0
                       3.591108084 62.86816001 211.8880005
02 10 2018 16:30 0
                       2.91554904 0
                                         0
02 10 2018 16:40 0
                       3.25305891 29.2209901 0
02 10 2018 16:50 0
                       3.050276041 17.81104774 297.743103
02 10 2018 17:00 0
                       3.124974012 21.2486487 303.4826965
02 10 2018 17:10 0
                       2.478945017 0
                                         310.0018005
02 10 2018 17:20 0
                       2.273133993 0
                                         316.4932861
02 10 2018 17:30 0
                       2.080084085 0
                                         318.8843079
02 10 2018 17:40 0
                       1.202819943 0
                                         333.3352966
02 10 2018 17:50 0
                       0.793420196 0
                                         317.4453125
02 10 2018 18:00 0
                       1.151224971 0
                                         338.0473938
02 10 2018 18:10 0
                       1.868904948 0
                                         326.129303
                       0.961121917 0
03 10 2018 06:30 0
                                         Θ
03 10 2018 06:40 0
                       1.194069028 0
                                         0
03 10 2018 14:10 0
                       0.701563001 0
                                         0
03 10 2018 14:20 0
                       0.636578918 0
                                         0
03 10 2018 14:30 0
                       1.230898023 0
                                         70.85690308
03 10 2018 14:40 0
                       0.53484273 0
                                         173.1699982
03 10 2018 14:50 0
                       0.363275498 0
                                         217.1029968
03 10 2018 15:00 0
                                         225.7512054
                       0.787484527 0
03 10 2018 15:10 0
                       0.907632113 0
                                         216.5565033
03 10 2018 15:20 0
                       2.157898903 0
                                         229.1914978
03 10 2018 15:30 0
                       2.484885931 0
                                         243.3934937
03 10 2018 15:40 0
                       2.869944096 0
                                         250.0635986
03 10 2018 15:50
                       2.009322882 0
                                         270.6281128
03 10 2018 16:00 0
                       2.377470016 0
                                         290.5256042
03 10 2018 16:10 0
                       1.987465024 0
                                         280.4807129
03 10 2018 16:20
                 0
                       2.337275028 0
                                         285.2643127
03 10 2018 16:30 0
                       3.496526003 51.61187782 261.4986877
03 10 2018 16:40 100.292099 4.614272118 246.5869523 241.5424957
03 10 2018 16:50 498.5986938 6.223996162 702.1982348 237.6963959
```

```
03 10 2018 17:00 793.2949219 6.838710785 945.0048579 238.4862976
03 10 2018 17:10 636.2432861 6.473342896 795.6030361 246.4880981
03 10 2018 17:20 477.1278992 5.974229813 616.3347728 248.0926056
03 10 2018 17:30 400.7585144 5.654686928 514.6188086 247.6940002
03 10 2018 17:40 607.434082 6.407217026 770.1730224 250.6779022
03 10 2018 17:50 663.8873291 6.612111092 850.5470786 248.9772034
03 10 2018 18:00
                 494.0506897 6.003493786 625.1722207 249.9205017
03 10 2018 18:10 613.4326172 6.452513218 787.5406929 248.0222931
03 10 2018 18:20
                 531.7631226 6.034282207 635.6150703 252.3318939
                 496.5575867 5.867055893 581.0515691 252.2126007
03 10 2018 18:30
03 10 2018 18:40 487.6163025 5.897168159 590.8428888 261.4544983
03 10 2018 18:50 541.6915283 6.052326202 641.7823507 262.2586975
03 10 2018 19:00 443.5505066 5.838812828 571.9535523 263.7510986
03 10 2018 19:10 387.7565918 5.672835827 520.1208975 266.7333069
03 10 2018 19:20 464.0958862 5.885172844 586.9311568 276.1077881
03 10 2018 19:30 381.8890991 5.531248093 478.0340504 277.2121887
03 10 2018 19:40
                 262.4607849 4.948266983 323.3914785 275.7408142
03 10 2018 19:50 275.5566101 4.95707798 325.5246718 280.5574036
03 10 2018 20:00 240.6546936 4.739688873 274.530724 283.8919983
03 10 2018 20:10 307.4363098 5.164262772 377.4024963 288.0093079
03 10 2018 20:20 352.3228149 5.461819172 458.0832677 293.7362061
03 10 2018 20:30 343.2185059 5.469041824 460.1381594 300.0632019
03 10 2018 20:40
                 296.1882019 5.150094986 373.7470912 295.721405
03 10 2018 20:50
                 169.0458069 4.423910141 206.0653914 294.4961853
03 10 2018 21:00 138.6667938 4.171594143 155.5339263 292.4270935
03 10 2018 21:10 257.3861084 5.051749229 348.8151722 304.2450867
03 10 2018 21:20 217.7733002 4.821000099 293.2122595 315.4198914
03 10 2018 21:30 194.8213959 4.731615067 272.7004392 314.4122009
03 10 2018 21:40 152.4557953 4.456910133 212.9343078 313.066803
03 10 2018 21:50 95.68231964 4.064573765 135.0823237 308.493103
03 10 2018 22:00 152.4992065 4.2452178
                                       169.930153 308.4580994
03 10 2018 22:10 80.77992249 3.896761894 109.0309322 311.9330139
03 10 2018 22:20
                 136.0429993 4.361269951 193.1983854 325.2243042
03 10 2018 22:30 246.3746948 4.919375896 316.4371538 335.1062012
03 10 2018 22:40 175.6862946 4.502488136 222.5265402 332.8129883
03 10 2018 22:50 87.13401794 4.033329964 129.212878 326.5461121
03 10 2018 23:00
                 76.74693298 3.901587963 109.8796832 323.0480042
                 46.66490936 3.71487689 79.75997794 335.5805969
03 10 2018 23:10
03 10 2018 23:20
                 170.0756989 4.548058033 232.2418414 337.0462036
03 10 2018 23:30 84.46082306 3.782876015 90.08362082 333.3348083
03 10 2018 23:40 30.35110092 3.280749083 31.28957443 326.0740051
03 10 2018 23:50
                 28.03038979 3.228636026 27.49830745 323.2445984
04 10 2018 00:00
                 26.86790085 3.127841949 21.39842751 321.9616089
04 10 2018 00:10
                 16.29910088 3.024490118 16.83166505 334.645813
04 10 2018 00:20 0
                       2.937486887 0
                                         351.2532043
04 10 2018 00:30
                 0
                       2.675456047 0
                                         336.8460083
04 10 2018 00:40 0
                       3.116601944 20.81894327 303.1460876
04 10 2018 00:50 0
                       2.888418913 0
                                         301.4389038
04 10 2018 01:00 0
                       2.604868889 0
                                         332.4465027
04 10 2018 01:10
                 0
                       2.799928904 0
                                         317.2388
04 10 2018 01:20
                 0
                       2.729568005 0
                                         347.3590088
04 10 2018 01:30
                 0
                       2.904715061 0
                                         304.4342957
04 10 2018 01:40
                       2.197242975 0
                                         337.7145996
04 10 2018 01:50
                       2.987241983 0
                                         4.28674221
                 0
04 10 2018 02:00
                 23.51490974 3.837388039 98.89391542 359.260498
04 10 2018 02:10 34.95735931 3.574713945 60.81453577 343.67099
04 10 2018 02:20 22.67140007 3.062175989 18.29889994 340.533905
04 10 2018 02:30 34.77593994 3.47012496 48.72539696 346.5333862
04 10 2018 02:40 0.924932182 2.813676119 0
                                             347.7450867
```

```
04 10 2018 02:50 0
                       2.891655922 0
                                         349.3682861
04 10 2018 03:00 91.31230927 4.162875175 153.8470509 345.322113
04 10 2018 03:10 35.13782883 3.105169058 20.25025231 354.427002
04 10 2018 03:20 0
                       2.649816036 0
                                         353.5515137
04 10 2018 03:30 22.49091911 3.74251008 83.86602012 337.8128967
04 10 2018 03:40
                 1809.949951 8.248888969 1675.582259 15.26710033
04 10 2018 03:50
                 1431.666992 7.590825081 1305.11534 29.48020935
                 1372.813965 7.669192791 1346.633297 44.4407196
04 10 2018 04:00
04 10 2018 04:10 915.2365112 6.912124157 976.9158418 37.62176895
                 937.1973877 7.004353046 1017.949585 39.63552856
04 10 2018 04:20
04 10 2018 04:30
                 768.229126 6.486722946 800.8071997 41.8905983
04 10 2018 04:40 1093.970947 7.52079916 1268.692219 49.08314896
04 10 2018 04:50 1459.640015 8.111686707 1594.58902 47.93231964
04 10 2018 05:00 1479.930054 8.165273666 1626.014608 50.03403091
04 10 2018 05:10 1200.305054 7.481068134 1248.167507 46.76605988
04 10 2018 05:20 1277.151978 7.630115986 1325.833016 45.93540955
04 10 2018 05:30 1986.692017 9.179778099 2260.471438 43.63660049
04 10 2018 05:40 1768.740967 8.653360367 1923.373171 42.92029953
04 10 2018 05:50 1610.597046 8.498138428 1826.845766 45.48614883
04 10 2018 06:00
                 1587.94104 8.432974815 1786.826737 46.34199905
04 10 2018 06:10
                 1708.858032 8.685061455 1943.279088 45.83995056
                 1216.557007 7.63021183 1325.883796 42.53044128
04 10 2018 06:20
04 10 2018 06:30
                 1263.119019 7.794371128 1414.532715 40.94126892
04 10 2018 06:40 927.8427734 7.048777103 1038.098403 47.25529099
04 10 2018 06:50
                 1313.146973 7.861460209 1451.686896 51.41479111
04 10 2018 07:00 1071.857056 7.360657215 1186.981162 51.19884109
04 10 2018 07:10 865.2869873 6.978002071 1006.116793 44.94964981
04 10 2018 07:20 758.3760986 6.669577122 873.9369168 36.12757111
04 10 2018 07:30 835.4147949 6.812810898 933.9025896 37.74385071
04 10 2018 07:40 892.7462769 6.955164909 995.9326892 35.15679932
04 10 2018 07:50 851.4036865 6.875033855 960.7114915 34.10186005
04 10 2018 08:00 830.9254761 6.759294987 911.2159121 36.84038925
04 10 2018 08:10 678.2932739 6.433917999 780.3835862 38.95449066
04 10 2018 08:20 506.9984131 5.90698719 594.0561356 38.05426025
04 10 2018 08:30 524.3046265 5.924662113 599.8657375 38.01863098
04 10 2018 08:40
                 450.1116028 5.678101063 521.7231299 39.13208008
                 544.9448853 6.082443237 652.1535857 30.89308929
04 10 2018 08:50
04 10 2018 09:00
                 474.6731873 5.71694088 533.6262319 27.21841049
04 10 2018 09:10 490.9884949 5.790771008 556.6657768 31.94915962
04 10 2018 09:20 566.6063843 5.959929943 611.5567383 28.68411064
04 10 2018 09:30 632.873291 6.265427113 717.2518973 27.44182014
04 10 2018 09:40 639.1328125 6.275507927 720.9426179 26.49124908
04 10 2018 09:50 531.8035889 6.019379139 630.5475737 28.10504913
04 10 2018 10:00
                 343.3187866 5.309341908 415.7889084 36.64947891
                 295.9919128 5.059947968 350.8645401 42.96649933
04 10 2018 10:10
                 304.3729858 5.13694191 370.3680102 39.18690109
04 10 2018 10:20
                 202.0285034 4.533604145 229.1466417 44.37269974
04 10 2018 10:30
                 116.7345963 3.975626945 123.3678972 52.14054871
04 10 2018 10:40
04 10 2018 10:50 129.8184967 4.157249928 152.7607101 55.36112976
04 10 2018 11:00
                 87.09082794 3.823122978 96.54245028 57.69561005
04 10 2018 11:10
                 106.9343033 3.917294979 112.6678456 62.33184814
04 10 2018 11:20
                 213.1358948 4.702853203 266.2158868 58.15879059
04 10 2018 11:30
                 194.8957062 4.528162003 227.9845565 55.9134903
04 10 2018 11:40
                 132.0509949 4.003347874 123.6218331 54.37308121
04 10 2018 11:50
                 69.8598938 3.534373999 55.94441359 54.01831055
04 10 2018 12:00
                 70.39943695 3.606391907 64.82143258 49.82987976
04 10 2018 12:10 190.2102051 4.397259235 200.5638427 39.24785995
04 10 2018 12:20 199.4797974 4.338002205 188.4748763 38.37062836
04 10 2018 12:30 54.74745941 3.452774048 46.8891166 45.45301819
```

```
04 10 2018 12:40 80.42812347 3.773106098 88.55483826 60.2401886
04 10 2018 12:50 54.26245117 3.56626606 59.77309396 58.87425995
04 10 2018 13:00
                 18.34622002 3.126789093 21.34328891 55.65121078
04 10 2018 13:10
                 32.83071136 3.363179922 38.17372997 65.83809662
04 10 2018 13:20
                 61.39247894 3.747035027 84.55002732 56.42317963
04 10 2018 13:30
                 79.41210175 3.969456911 122.2103574 57.04156113
                 156.8040924 4.588850975 241.0470274 44.03187943
04 10 2018 13:40
                 136.2967072 4.171348095 155.4862715 44.9948082
04 10 2018 13:50
04 10 2018 14:00
                 221.5592041 4.743876934 275.4818693 38.9056015
                 286.8839111 5.059001923 350.6277984 40.31750107
04 10 2018 14:10
04 10 2018 14:20
                 291.1614075 5.121706009 366.4712222 48.0759201
04 10 2018 14:30
                 349.5231934 5.435486794 450.6315506 50.96900177
04 10 2018 14:40
                 418.0062866 5.693903923 526.5482865 48.82503128
04 10 2018 14:50
                 273.4881897 5.028584003 343.0529136 51.5112114
04 10 2018 15:00 247.0478058 4.893269062 310.2057531 47.89550018
04 10 2018 15:10
                458.6719971 5.799478054 559.4190643 47.82344818
04 10 2018 15:20
                 299.7091064 5.217932224 391.3983452 58.03989029
04 10 2018 15:30
                 365.4596863 5.662484169 516.9787258 56.56003189
04 10 2018 15:40 363.5703125 5.640744209 510.4135817 57.99697876
04 10 2018 15:50
                 384.7677917 5.680125237 522.3398146 57.21004868
04 10 2018 16:00
                 358.3366089 5.501047134 469.3011773 55.88877869
                 384.5140991 5.634440899 508.5186199 56.59151077
04 10 2018 16:10
04 10 2018 16:20
                 550.7208252 6.179200172 686.1291563 57.12773132
04 10 2018 16:30
                 819.9285889 6.979458809 1006.768642 53.29008102
04 10 2018 16:40 807.5117798 6.871551037 959.1985276 56.95877075
04 10 2018 16:50 920.2576294 7.112439156 1067.418338 62.08739853
04 10 2018 17:00
                 1148.218994 7.671448231 1347.839721 58.78480911
04 10 2018 17:10
                 1389.154053 8.160730362 1623.339682 51.49792099
04 10 2018 17:20
                 1495.603027 8.301428795 1707.045568 53.72827911
04 10 2018 17:30
                 1485.374023 8.137965202 1609.965666 53.81840897
04 10 2018 17:40
                 1525.766968 8.195476532 1643.84565 53.88405991
04 10 2018 17:50
                 1694.73999 8.509422302 1833.807152 52.34479904
04 10 2018 18:00
                 1791.45105 8.856951714 2052.213637 53.94588089
04 10 2018 18:10
                 1808.904053 8.890353203 2073.560322 58.47901154
                 2215.021973 9.80771637 2666.631505 60.30764008
04 10 2018 18:20
04 10 2018 18:30
                 2016.129028 9.287674904 2330.845222 60.92842102
04 10 2018 18:40
                 2055.717041 9.456627846 2441.5163
                                                     54.96416092
                 2205.868896 9.678361893 2575.340947 58.66006088
04 10 2018 18:50
04 10 2018 19:00
                 1862.821045 9.196063042 2271.073723 55.03248978
04 10 2018 19:10
                 1763.203979 8.936930656 2103.414739 58.00725937
04 10 2018 19:20
                 2022.322021 9.14394474 2237.169189 52.85485077
04 10 2018 19:30 2025.110962 9.319421768 2351.603014 49.15604019
04 10 2018 19:40
                 2038.897949 9.27735424 2324.10161 50.45729065
04 10 2018 19:50
                 2384.919922 10.00860023 2797.437802 49.42063904
04 10 2018 20:00
                 2790.663086 10.88484001 3230.249035 48.12451935
04 10 2018 20:10
                 3453.581055 12.11215019 3538.322648 47.1628685
                             11.91287041 3507.746589 48.88177109
04 10 2018 20:20
                 3235.875
                 2971.85498 11.28835964 3365.027676 47.75347137
04 10 2018 20:30
04 10 2018 20:40
                 2864.309082 11.08790016 3302.601864 45.22552109
04 10 2018 20:50
                 2623.780029 10.69849014 3155.266494 47.15872955
04 10 2018 21:00
                 2592.540039 10.29946995 2964.679784 43.9883194
04 10 2018 21:10
                 2695.76709 10.33710957 2984.510312 45.0834198
04 10 2018 21:20
                 2603.644043 10.48791027 3060.004039 42.92724991
04 10 2018 21:30
                 2531.249023 10.36131954 2997.054149 44.93297958
04 10 2018 21:40
                 2912.375977 11.22951031 3347.596027 45.23828888
04 10 2018 21:50 3030.764893 11.55132008 3434.244845 46.76808167
04 10 2018 22:00 2620.861084 10.71428013 3161.9512
                                                    46.83802032
04 10 2018 22:10 2506.196045 10.53404999 3081.868492 48.18080902
04 10 2018 22:20 2257.145996 9.560756683 2487.313321 48.66648102
```

```
04 10 2018 22:30
                 2370.891113 9.874878883 2711.818788 50.52909088
04 10 2018 22:40
                 2806.25
                             11.00319004 3273.567139 52.1219902
04 10 2018 22:50
                 3147.422119 11.60976028 3447.773282 50.64435959
04 10 2018 23:00 3464.218018 11.94832039 3513.684172 48.48937988
04 10 2018 23:10 3459.860107 12.66930008 3589.618914 55.29138947
04 10 2018 23:20 3346.332031 11.86686039 3499.711822 55.32907104
                 3122.199951 11.88191032 3502.381077 59.88581085
04 10 2018 23:30
                 2921.36792 11.28351021 3363.618798 64.31629944
04 10 2018 23:40
                 3355.490967 12.06320953 3531.438853 65.25128174
04 10 2018 23:50
                 3547.792969 12.50403976 3579.432733 65.30930328
05 10 2018 00:00
05 10 2018 00:10 3590.669922 12.76130962 3593.527091 63.96678925
05 10 2018 00:20 3597.670898 12.4674902 3576.620842 60.42737961
05 10 2018 00:30 3600.656006 12.45606041 3575.699376 59.85364151
05 10 2018 00:40 3564.761963 12.06816006 3532.153442 59.72338867
05 10 2018 00:50 3502.8479 11.72716999 3472.99902 59.98799896
05 10 2018 01:00 3520.355957 11.8222599 3491.565078 60.14302063
05 10 2018 01:10
                 3572.095947 12.09471035 3535.915616 60.69232941
05 10 2018 01:20 3566.427002 12.23036957 3553.314607 61.28424835
05 10 2018 01:30 3580.801025 12.72224045 3592.019757 61.59280014
05 10 2018 01:40 3522.459961 12.02398968 3525.631227 61.83890915
05 10 2018 01:50 3590.674072 12.37063026 3568.170584 60.36333084
05 10 2018 02:00 3538.39209 12.42724991 3573.287158 61.81328964
                 3596.38501 12.79119015 3594.529321 63.66059113
05 10 2018 02:10
05 10 2018 02:20
                 3570.702881 12.73433971 3592.510483 63.90567017
05 10 2018 02:30 3572.230957 12.46500969 3576.422574 64.16133881
05 10 2018 02:40 3559.551025 12.72846985 3592.275096 66.75357056
05 10 2018 02:50 3582.852051 12.8882103 3596.890907 67.74017334
05 10 2018 03:00 3599.156982 13.37973976 3600 68.34828186
05 10 2018 03:10 3594.040039 13.07435036 3600 68.2827301
05 10 2018 03:20 3585.196045 13.05354023 3600 71.31693268
05 10 2018 03:30 3584.707031 12.58637047 3585.021076 69.40994263
05 10 2018 03:40 3572.335938 12.49440956 3578.711713 69.00299835
05 10 2018 03:50 3589.814941 12.95349026 3597.718586 71.61251068
05 10 2018 04:00 3560.341064 12.87147045 3596.58036 72.91235352
                 3600.456055 13.33576012 3600 72.84068298
05 10 2018 04:10
05 10 2018 04:20
                 3591.187988 13.13768959 3600 73.65229034
                 3569.458008 12.84786987 3596.074053 71.21321106
05 10 2018 04:30
                 3451.98291 12.06326008 3531.446169 66.98265076
05 10 2018 04:40
05 10 2018 04:50 3523.718994 11.88175964 3502.354551 67.00617981
05 10 2018 05:00
                 3550.804932 12.31692028 3562.851857 67.05404663
05 10 2018 05:10 3318.079102 11.51173973 3424.707603 67.35434723
05 10 2018 05:20 3504.73999 12.7256403 3592.159821 73.07203674
05 10 2018 05:30
                 3559.606934 13.00069046 3600 72.54257965
05 10 2018 05:40
                 3486.763916 12.68443012 3590.34732 73.45540619
05 10 2018 05:50 3532.398926 12.57775021 3584.484033 72.47947693
05 10 2018 06:00 3503.409912 12.66252995 3589.281989 71.48989105
05 10 2018 06:10
                 3523.354004 12.60291958 3586.020765 72.15670013
                 3437.677002 11.90098953 3505.707505 72.36128998
05 10 2018 06:20
05 10 2018 06:30 3446.471924 12.39988995 3570.877173 71.0969162
05 10 2018 06:40
                 3521.134033 12.86833954 3596.517806 71.87227631
05 10 2018 06:50
                 3340.830078 11.95018959 3513.991178 70.38157654
05 10 2018 07:00
                 3521.635986 12.04730988 3529.115837 66.78814697
05 10 2018 07:10
                 3138.075928 11.3205204 3374.247014 66.86065674
                 3166.879883 11.19964027 3338.466966 67.63768768
05 10 2018 07:20
05 10 2018 07:30
                 2963.025879 10.81811047 3204.369733 64.99693298
05 10 2018 07:40 3231.053955 11.40301037 3396.919264 64.16403198
05 10 2018 07:50 3315.668945 11.90779018 3506.877713 65.49456024
05 10 2018 08:00 3511.750977 12.39468956 3570.40591 63.76697159
05 10 2018 08:10 3378.163086 11.60579014 3446.874924 62.817379
```

```
05 10 2018 08:20
                 2855.804932 10.34010983 2986.073766 60.19395065
                 2548.375
05 10 2018 08:30
                             9.897265434 2726.552206 59.56983948
                 2900.470947 10.61522007 3118.97042 59.31362152
05 10 2018 08:40
05 10 2018 08:50 2340.960938 9.646437645 2551.927164 55.24021912
05 10 2018 09:00 2565.991943 9.839947701 2688.502433 54.77820969
05 10 2018 09:10 2393.832031 9.556077003 2483.708886 59.27112961
05 10 2018 09:20 3247.871094 11.23019981 3347.804508 59.67559052
05 10 2018 09:30 3129.628906 11.00576973 3274.475305 62.49813843
05 10 2018 09:40 2748.381104 10.38786983 3010.622203 58.93967819
                 2306.830078 9.31056881 2345.812408 53.01544189
05 10 2018 09:50
05 10 2018 10:00
                 1961.583008 8.410930634 1773.361157 48.24993896
05 10 2018 10:10 2145.871094 9.056568146 2180.520295 42.52603149
05 10 2018 10:20
                 1488.902954 7.740158081 1384.893659 45.26148987
05 10 2018 10:30
                 1894.871948 8.65756321 1926.008693 39.79421997
05 10 2018 10:40 2203.684082 8.897544861 2078.163411 42.09880066
05 10 2018 10:50 2829.675049 9.755931854 2630.76668 32.04006958
05 10 2018 11:00 2772.343994 10.20232964 2911.622667 31.17707062
05 10 2018 11:10 3071.503906 10.8344202 3210.793646 29.48420906
05 10 2018 11:20 3423.181885 11.90633965 3506.628795 29.46590042
05 10 2018 11:30 3103.160889 10.90145969 3236.529593 31.52972031
05 10 2018 11:40 2952.529053 10.64445972 3131.916863 28.97223091
05 10 2018 11:50 2611.053955 9.805670738 2665.231781 33.19242096
05 10 2018 12:00
                 2489.416992 9.630102158 2539.808646 34.8698082
05 10 2018 12:10 3093.649902 10.70493031 3158.000489 31.23311996
05 10 2018 12:20 3343.183105 11.38780022 3392.843195 33.58834076
05 10 2018 12:30 3115.037109 10.95726967 3257.145726 36.99074173
05 10 2018 12:40 3025.842041 10.76681995 3183.746994 39.13090134
05 10 2018 12:50 3454.275879 12.11038017 3538.080664 39.3891983
05 10 2018 13:00 3304.637939 11.47165012 3414.735029 37.3857193
05 10 2018 13:10 3303.573975 11.51305962 3425.030564 41.03551865
05 10 2018 13:20 3480.803955 12.72266006 3592.037136 49.86396027
05 10 2018 13:30 3277.976074 11.43220043 3404.610929 44.86275101
05 10 2018 13:40 3061.071045 10.68712997 3150.418429 45.20809937
05 10 2018 13:50 3136.320068 10.87734985 3227.397143 47.38946915
05 10 2018 14:00 3110.205078 10.68239975 3148.390171 45.6809082
05 10 2018 14:10 3415.298096 11.98272991 3519.238931 49.10372925
05 10 2018 14:20
                 3355.926025 11.94612026 3513.322035 50.21712875
05 10 2018 14:30 3437.936035 11.93251991 3511.064774 50.46504974
05 10 2018 14:40 3426.241943 12.25522041 3556.176093 52.12757111
05 10 2018 14:50 3381.714111 12.13214016 3541.019364 55.53411102
05 10 2018 15:00 3483.115967 12.8775301 3596.697424 55.67288971
05 10 2018 15:10 3588.802002 13.22064018 3600 59.16366959
                 3598.614014 13.95205021 3600 58.7700386
05 10 2018 15:20
05 10 2018 15:30
                 3601.072998 14.19960022 3600 61.39249039
05 10 2018 15:40
                 3588.686035 13.69643021 3600 61.02209091
05 10 2018 15:50
                 3602.327881 14.24437046 3600 61.9673996
05 10 2018 16:00
                 3599.364014 14.13333035 3600 62.94231033
                 3601.26001 13.91899967 3600 62.02648926
05 10 2018 16:10
05 10 2018 16:20
                 3587.941895 13.24018002 3600 62.95376968
05 10 2018 16:30
                 3598.302979 13.73431969 3600 64.34861755
                 3546.052979 12.99806023 3597.934979 64.66053772
05 10 2018 16:40
05 10 2018 16:50
                 3300.590088 11.5429697 3432.258096 66.87970734
05 10 2018 17:00
                 3588.575928 13.75977039 3600 70.18771362
05 10 2018 17:10
                 3601.050049 14.11571026 3600 69.96382141
05 10 2018 17:20
                 3596.771973 13.2045002 3600 69.77320862
05 10 2018 17:30
                 3565.039063 13.37714958 3600 71.49981689
05 10 2018 17:40 3601.681885 14.87493992 3600 72.25769806
05 10 2018 17:50 3602.01001 14.74901962 3600 72.08807373
05 10 2018 18:00 3601.961914 14.23785019 3600 69.62143707
```

```
05 10 2018 18:10 3598.047119 13.7973299 3600 69.73655701
                 3602.0979 14.32444954 3600 70.44550323
05 10 2018 18:20
05 10 2018 18:30
                 3566.685059 12.96582985 3597.806733 69.75679016
05 10 2018 18:40 3467.768066 12.42572975 3573.156309 69.77632904
05 10 2018 18:50 3558.145996 12.69417
                                         3590.798306 69.42767334
05 10 2018 19:00 3585.417969 13.13780022 3600 70.10325623
05 10 2018 19:10
                 3521.9021
                            13.0156002 3600 70.33067322
                 3595.675049 13.41718006 3600 70.72303009
05 10 2018 19:20
05 10 2018 19:30 3433.813965 12.03672028 3527.544928 67.71671295
                 3588.166992 12.65491009 3588.894637 68.22325897
05 10 2018 19:40
05 10 2018 19:50 3375.045898 11.92224026 3509.337275 67.97820282
05 10 2018 20:00 3270.906006 11.74363041 3476.330806 68.16187286
05 10 2018 20:10 3509.955078 12.73029995 3592.349028 69.06121826
05 10 2018 20:20 3543.930908 12.65555954 3588.927988 69.21317291
05 10 2018 20:30 3595.964111 13.62240028 3600 71.52181244
05 10 2018 20:40 3583.706055 13.04263973 3600 71.13414764
05 10 2018 20:50 3591.63208 12.96366024 3597.792804 70.06601715
05 10 2018 21:00 3582.343018 12.84154987 3595.924839 69.15107727
05 10 2018 21:10 3541.639893 12.46144962 3576.136361 69.62393188
05 10 2018 21:20 3492.971924 12.60976028 3586.421985 70.75585175
05 10 2018 21:30 3578.335938 12.9528904 3597.713748 69.97490692
05 10 2018 21:40 3549.115967 12.39505959 3570.439582 70.30016327
05 10 2018 21:50 3555.916016 12.66926003 3589.61694 71.42106628
05 10 2018 22:00 3410.711914 11.88455963 3502.846814 69.52545929
05 10 2018 22:10 3480.559082 12.28744984 3559.739166 69.3196106
05 10 2018 22:20 3489.556885 12.58119965 3584.700276 70.70659637
05 10 2018 22:30 3566.995117 13.05453968 3600 72.11360168
05 10 2018 22:40 3553.773926 12.87899017 3596.724841 72.08447266
05 10 2018 22:50 3576.756104 13.23476982 3600 73.89644623
05 10 2018 23:00 3561.863037 12.88840008 3596.894197 73.42046356
05 10 2018 23:10 3593.061035 13.28466988 3600 74.63165283
05 10 2018 23:20 3600.219971 13.84889984 3600 72.60302734
05 10 2018 23:30 3597.346924 13.52171993 3600 71.68969727
05 10 2018 23:40 3519.52002 13.02929974 3600 70.6757431
05 10 2018 23:50 3599.865967 13.88360023 3600 70.53132629
06 10 2018 00:00
                 3576.845947 13.07966042 3600
                                              71.39647675
06 10 2018 00:10
                 3583.788086 12.97041988 3597.833999 70.34467316
06 10 2018 00:20 3596.639893 13.35048962 3600 70.71556091
                             14.03686047 3600 70.5133667
06 10 2018 00:30 3601.5
06 10 2018 00:40 3580.613037 14.05652046 3600 74.69037628
06 10 2018 00:50 3599.179932 13.58240986 3600 70.96027374
06 10 2018 01:00 3591.813965 13.35937023 3600 72.26428986
06 10 2018 01:10 3433.218994 12.59982014 3585.836666 72.80966949
06 10 2018 01:20 3528.689941 12.27923012 3558.84627 71.94558716
06 10 2018 01:30 3583.035889 12.68795013 3590.511926 72.76735687
06 10 2018 01:40 3588.541992 13.09350967 3600 72.3719101
06 10 2018 01:50 3484.356934 12.41265011 3572.015638 73.78536987
06 10 2018 02:00 3445.98999 12.70790958 3591.410674 74.21154022
06 10 2018 02:10 3286.498047 11.82913971 3492.844915 75.12473297
06 10 2018 02:20 3351.230957 12.26315975 3557.069293 77.30638885
06 10 2018 02:30 3480.803955 12.00973988 3523.456436 75.72569275
06 10 2018 02:40 3548.431885 12.80315018 3594.894046 77.71553802
06 10 2018 02:50 3453.410889 12.01163006 3523.746906 75.85044861
06 10 2018 03:00 3245.566895 11.54014969 3431.584095 74.28344727
06 10 2018 03:10 3159.720947 11.43107033 3404.316329 75.65408325
06 10 2018 03:20 2961.346924 10.99746037 3271.544599 78.10225677
06 10 2018 03:30 2679.25
                             10.45722008 3045.144594 78.34641266
06 10 2018 03:40 2131.172119 9.157790184 2246.168285 78.69447327
06 10 2018 03:50 2233.908936 9.284669876 2328.88147 79.84007263
```

```
06 10 2018 04:00 2596.756104 10.08296013 2842.614859 80.08120728
                 2734.532959 10.65114021 3134.844047 79.50639343
06 10 2018 04:10
                 3434.355957 12.59807014 3585.732084 80.06141663
06 10 2018 04:20
06 10 2018 04:30 3296.389893 12.06719017 3532.013768 80.82700348
06 10 2018 04:40 2949.281006 10.84996986 3216.858565 81.93966675
06 10 2018 04:50 2479.178955 9.556899071 2484.342639 81.63771057
06 10 2018 05:00
                 2374.336914 9.362620354 2379.87982 82.65979004
                 2263.621094 8.956691742 2116.110101 82.69711304
06 10 2018 05:10
06 10 2018 05:20
                 1434.843994 6.709352016 890.3483624 85.34114838
                 1051.291016 5.883806229 586.4864504 90.16887665
06 10 2018 05:30
06 10 2018 05:40
                 1227.505981 6.606826782 848.4151584 96.8466568
06 10 2018 05:50
                 1562.034058 7.051193237 1039.201531 94.85164642
06 10 2018 06:00
                 1274.328979 6.498274803 805.3162341 94.25263977
06 10 2018 06:10
                 1179.543945 6.28904295 725.9151881 94.96694946
06 10 2018 06:20
                 1143.350952 6.574868202 835.5890405 96.98480225
06 10 2018 06:30
                 1325.261963 7.246809006 1131.078988 98.40396118
06 10 2018 06:40 935.522583 6.226673126 703.1653201 95.88108826
06 10 2018 06:50 650.8413696 5.674243927 520.549123 98.05090332
06 10 2018 07:00 579.119873 5.401729107 441.169708 95.43575287
06 10 2018 07:10 597.0842896 5.605400085 499.8373914 95.94914246
06 10 2018 07:20 528.9475708 5.245366096 398.6445125 100.3263016
06 10 2018 07:30 549.0598145 5.368132114 431.8534464 89.26557159
06 10 2018 07:40 454.6265869 5.130921841 368.8260724 88.28566742
06 10 2018 07:50
                 353.6402893 4.774075985 282.3756895 87.8558197
06 10 2018 08:00
                 321.2153015 4.752635956 277.4749675 85.02892303
06 10 2018 08:10 444.2619934 5.648487091 512.7465701 75.94444275
06 10 2018 08:20 437.9299927 5.721128941 534.9186139 77.58751678
06 10 2018 08:30 512.3856812 6.006615162 626.2263143 75.41462708
06 10 2018 08:40 568.7595215 6.10030508 658.3503485 71.1415329
                 534.6611938 5.828847885 568.7631333 75.86525726
06 10 2018 08:50
06 10 2018 09:00
                 428.7590027 5.514489174 473.1776423 71.89827728
06 10 2018 09:10 462.6690979 5.670038223 519.2706758 72.04865265
06 10 2018 09:20
                 583.4940186 5.974925995 616.5679478 61.89831924
06 10 2018 09:30
                 1111.078003 7.38725996 1200.313235 61.0671196
                 1144.494995 7.497190952 1256.526943 59.97381973
06 10 2018 09:40
06 10 2018 09:50
                 761.895874 6.409081936 770.8836359 57.58097076
06 10 2018 10:00
                 750.0653076 6.386532784 762.3168883 57.41455841
06 10 2018 10:10
                 873.2418213 6.651912212 866.7067252 53.26100159
06 10 2018 10:20
                 1117.421021 7.118907928 1070.427358 50.80541992
                 1030.843018 7.144042015 1082.17153 48.7180481
06 10 2018 10:30
06 10 2018 10:40 1003.471008 6.892447948 968.2985194 47.45993042
06 10 2018 10:50 974.6707764 6.884637833 964.8911992 46.53284073
06 10 2018 11:00
                 1042.901978 6.98635006 1009.855912 46.04940033
06 10 2018 11:10 996.4998779 6.888862133 966.7332082 36.06898117
06 10 2018 11:20
                 1547.43396 8.063433647 1566.529143 33.54648972
                 1814.719971 8.351062775 1736.983671 39.8102684
06 10 2018 11:30
06 10 2018 11:40
                 1658.885986 8.106814384 1591.745337 32.95874023
                 1647.131958 8.082473755 1577.573856 32.3257103
06 10 2018 11:50
06 10 2018 12:00
                 1398.899048 7.571620941 1295.062083 32.62837982
06 10 2018 12:10
                 1710.892944 8.416688919 1776.874962 36.35205078
06 10 2018 12:20
                 2032.572021 9.19204998 2268.46034 39.40542984
06 10 2018 12:30
                 1594.837036 8.188105583 1639.486254 42.2585907
06 10 2018 12:40
                 959.0546265 6.855483055 952.2375676 42.41233826
06 10 2018 12:50
                 1187.270996 7.396940231 1205.190408 41.14030075
06 10 2018 13:00
                 1601.795044 8.10307312 1589.563349 37.32001114
06 10 2018 13:10
                 1842.005981 8.792075157 2010.910285 38.85688019
06 10 2018 13:20
                 1779.647949 8.605695724 1893.561601 40.41991043
06 10 2018 13:30 1916.796021 8.740504265 1978.237138 47.81192017
06 10 2018 13:40 1792.035034 8.564622879 1867.991461 47.4240303
```

```
06 10 2018 13:50 2598.240967 10.29959965 2964.748808 47.1599617
06 10 2018 14:00 2069.708008 9.087347031 2200.445685 49.93278122
06 10 2018 14:10 2242.291016 9.420381546 2417.737041 50.67760086
06 10 2018 14:20 1940.728027 8.913410187 2088.326645 51.62540054
                             9.658419609 2560.756582 51.315979
06 10 2018 14:30 2333.5271
06 10 2018 14:40
                 1968.812012 8.870417595 2060.813135 50.56264114
06 10 2018 14:50
                 2146.714111 9.375692368 2388.442875 53.10295105
06 10 2018 15:00
                 1861.82605 8.878292084 2065.84596 53.17795181
06 10 2018 15:10
                 2007.432983 9.163903236 2250.143407 56.86523819
                 2293.332031 9.800031662 2661.36602 59.76969147
06 10 2018 15:20
06 10 2018 15:30
                 2426.012939 10.14295006 2877.828937 62.28546906
06 10 2018 15:40 2254.586914 9.779655457 2647.308893 60.73995972
06 10 2018 15:50 2273.704102 9.846542358 2692.934995 63.0237999
06 10 2018 16:00 2455.72998 10.32371044 2977.496955 64.91832733
06 10 2018 16:10 2599.697998 10.57522964 3100.906381 66.23016357
06 10 2018 16:20 2274.969971 9.836307526 2686.049571 68.20909882
06 10 2018 16:30 2123.263916 9.413907051 2413.491195 68.71755219
06 10 2018 16:40 2085.716064 9.381946564 2392.540771 72.15255737
06 10 2018 16:50 2176.629883 9.814808846 2671.473748 72.81498718
06 10 2018 17:00 2150.181885 10.18877029 2903.997918 76.62709045
                 2775.839111 11.48019028 3416.886008 72.58529663
06 10 2018 17:10
                 3290.60791 12.29234982 3560.266304 72.54979706
06 10 2018 17:20
06 10 2018 17:30
                 3528.712891 13.26323986 3600 76.57443237
06 10 2018 17:40
                 3584.805908 13.5363102 3600 77.87774658
06 10 2018 17:50
                 3555.833984 12.81585026 3595.258603 75.20307159
06 10 2018 18:00 3420.217041 12.86433029 3596.435644 78.05890656
06 10 2018 18:10 3137.264893 12.62096977 3587.064288 80.28977966
06 10 2018 18:20 3106.657959 12.36553001 3567.685066 81.02131653
06 10 2018 18:30 2947.37793 12.21665955 3551.693179 82.81842041
06 10 2018 18:40 2848.324951 12.17045975 3546.003946 83.53575897
06 10 2018 18:50 2917.430908 12.04885006 3529.342734 81.53514099
06 10 2018 19:00 3090.900879 11.83841991 3494.557871 79.15049744
06 10 2018 19:10
                 2826.843994 11.34782982 3381.907348 78.1886673
06 10 2018 19:20 2043.399048 9.599962234 2517.202446 77.03704834
                 1303.093018 8.485609055 1819.126756 76.32331848
06 10 2018 19:30
                 1302.275024 8.19123745 1641.337923 76.65247345
06 10 2018 19:40
06 10 2018 19:50
                 1267.781006 8.001587868 1530.90614 72.43898773
06 10 2018 20:00
                 1152.399048 7.777595043 1405.32372 72.62001038
06 10 2018 20:10 1105.584961 7.674303055 1349.367665 73.67125702
06 10 2018 20:20
                 1064.55603 7.64330101 1332.8297
                                                     74.20015717
06 10 2018 20:30 742.435791 6.987455845 1010.351861 75.7531662
06 10 2018 20:40 477.7701111 5.873201847 583.0423213 77.5730896
06 10 2018 20:50
                 277.9104919 4.60335207 244.2021818 77.95570374
06 10 2018 21:00
                 189.1038971 4.554720879 233.6729668 78.68833923
06 10 2018 21:10
                 170.1584015 4.306959152 182.2190674 81.37735748
06 10 2018 21:20
                 151.1667023 4.207047939 162.4322179 74.9348526
06 10 2018 21:30
                 3.84393096 2.103138924 0
                                               88.64788055
06 10 2018 21:40 0
                       2.233273029 0
                                         94.54506683
06 10 2018 21:50 0
                       2.507707119 0
                                         112.2036972
06 10 2018 22:00
                 0
                       2.521224022 0
                                         105.5304031
06 10 2018 22:10
                 0
                       2.531661987 0
                                         107.4349976
06 10 2018 22:20
                 51.65613174 4.467018127 215.0509956 122.5410004
06 10 2018 22:30
                 14.26591015 2.609797955 0
                                               109.4021988
06 10 2018 22:40 4.013123989 2.597305059 0
                                               110.1564026
06 10 2018 22:50 0
                       2.947134018 0
                                         102.4218979
06 10 2018 23:00 0
                       2.683737993 0
                                         87.97077942
06 10 2018 23:10 0
                      2.691634893 0
                                         90.7527771
                    2.73831296 0
2.477896929 0
                                      92.93649292
106.5591965
06 10 2018 23:20 0
06 10 2018 23:30 0
```

```
06 10 2018 23:40 0
                       3.333488941 35.56883603 114.4660034
                       3.18285203 24.52605414 108.6830978
06 10 2018 23:50
                 0
07 10 2018 00:00
                 0
                       2.856523037 0
                                         98.93800354
07 10 2018 00:10 0
                       2,656527042 0
                                         103.3921967
07 10 2018 00:20 0
                       3.390108109 40.65820638 95.1039505
07 10 2018 00:30
                 45.40970993 3.581141949 61.61461952 95.55258179
07 10 2018 00:40
                 70.57209778 3.484409094 50.27326462 104.5746994
                 52.02724838 3.487425089 50.60426023 108.0031967
07 10 2018 00:50
07 10 2018 01:00
                 39.38119125 3.154422998 22.84925295 104.8578033
                 50.75151825 3.049719095 17.78877012 97.54427338
07 10 2018 01:10
07 10 2018 01:20
                 77.72226715 3.535623074 56.09130451 103.7115021
07 10 2018 01:30
                 102.4901962 3.744937897 84.23261029 107.1110001
07 10 2018 01:40
                 71.36446381 3.222536087 27.08293959 102.3600998
07 10 2018 01:50
                 111.3223038 3.537113905 56.26695271 100.5740967
07 10 2018 02:00 218.4114075 4.534516811 229.3417044 101.2468033
07 10 2018 02:10 264.8103943 4.720223904 270.125599 101.7874985
07 10 2018 02:20 304.9967957 4.800973892 288.568709 104.0699005
07 10 2018 02:30 429.9193115 5.204399109 387.846857 104.0483017
07 10 2018 02:40 467.707489 5.61410284 502.4304471 103.841301
07 10 2018 02:50
                 372.0566101 5.077503204 355.2703084 99.04189301
07 10 2018 03:00
                 368.3916931 4.893990993 310.3774021 99.42030334
07 10 2018 03:10 462.9892883 5.214910984 390.604168 101.6893997
07 10 2018 03:20 457.0338135 5.176075935 380.4628556 102.0075989
07 10 2018 03:30 570.4067993 5.727858067 536.9987765 101.0398026
07 10 2018 03:40 451.7521057 5.236161232 396.2062096 99.54319763
07 10 2018 03:50 462.8092957 5.34844923 426.4415973 105.9111023
07 10 2018 04:00 359.2745056 4.821251869 293.2708172 109.1838989
07 10 2018 04:10 332.7078857 4.675693035 260.1429564 109.9970016
07 10 2018 04:20 428.5461121 4.906136036 313.2707334 106.7780991
07 10 2018 04:30 344.2453918 4.750919819 277.0840532 105.6784973
07 10 2018 04:40 316.6395874 4.35991621 192.9227467 103.8264008
07 10 2018 04:50 276.228302 4.273787022 175.5915074 108.7941971
07 10 2018 05:00 258.6795959 4.473529816 216.4177781 109.9409027
07 10 2018 05:10 283.8587036 4.419414997 205.1346084 108.2830963
07 10 2018 05:20 544.1342163 5.675055981 520.7961692 109.0712967
07 10 2018 05:30 328.4977112 4.878129959 306.6149225 109.9002991
07 10 2018 05:40 271.696991 4.539239883 230.3519729 108.7731018
07 10 2018 05:50 494.0028076 5.576953888 491.4119008 113.9889984
07 10 2018 06:00 636.2130127 6.067430973 646.9717826 114.2555008
07 10 2018 06:10 513.4639282 5.84747982 574.7367165 116.3160019
07 10 2018 06:20 382.4784851 5.372447014 433.0443732 115.8164978
07 10 2018 06:30 433.8521118 5.554182053 484.7222257 114.8615036
07 10 2018 06:40 231.419693 4.660399914 256.7448051 118.8554993
07 10 2018 06:50
                 152.875
                             4.192659855 159.6251178 116.5607986
07 10 2018 07:00
                 193.8468933 4.395809174 200.2656672 118.3833008
07 10 2018 07:10 181.8760986 4.32777977 186.4090603 126.5080032
                 111.9029007 3.918447018 112.8738985 126.5561981
07 10 2018 07:20
07 10 2018 07:30 55.38092041 3.504671097 52.52490837 123.7463989
07 10 2018 07:40 162.4384003 4.363296032 193.6111114 119.2041016
07 10 2018 07:50
                 113.6442032 4.115491867 144.7445734 124.3637009
07 10 2018 08:00 83.8535614 3.855453014 101.9184852 127.5310974
07 10 2018 08:10 143.7039032 4.252457142 171.3606881 119.4002991
07 10 2018 08:20
                 118.4554977 4.240395069 168.9786627 119.8238983
07 10 2018 08:30
                 133.7998047 4.12690115 146.9264145 116.2556
07 10 2018 08:40 107.4912033 3.8464849
                                         100.4104516 114.2711029
07 10 2018 08:50 127.3660965 3.871032953 104.568927 111.7302017
07 10 2018 09:00 86.73976898 3.606614113 64.85010616 114.2179031
07 10 2018 09:10 148.4530029 4.242413044 169.3766482 113.5048981
07 10 2018 09:20 122.8023987 3.872226 104.7734876 112.3336029
```

```
07 10 2018 09:30 94.45121002 3.610166073 65.30952525 110.2506027
                 154.0559998 4.163477898 153.9635401 104.3239975
07 10 2018 09:40
07 10 2018 09:50
                 134.7463989 3.95527792 119.5733658 104.2984009
07 10 2018 10:00 91.11253357 3.580404997 61.52255673 101.8594971
07 10 2018 10:10
                 107.3543015 3.756377935 85.97270043 91.06201172
07 10 2018 10:20
                 125.2776031 3.980041027 124.199746 84.0983429
07 10 2018 10:30 65.34329224 3.831099033 97.85321733 79.80647278
07 10 2018 10:40
                 42.73303986 3.549669981 57.76040643 68.98171997
07 10 2018 10:50
                 15.68811989 3.073951006 18.80393229 50.22208023
                 22.88557053 3.047822952 17.71329725 51.45616913
07 10 2018 11:00
07 10 2018 11:10
                 17.04667091 3.227771044 27.43904527 39.85958099
07 10 2018 11:20
                 36.50709915 3.293924093 32.31688079 38.42490005
07 10 2018 11:30
                 62.02725983 3.57446909 60.78418965 41.0087204
07 10 2018 11:40
                 66.49854279 3.645730019 70.02074115 45.52479172
07 10 2018 11:50 91.77082062 3.799403906 92.70465337 43.77756119
07 10 2018 12:00
                 174.473999 4.223628044 165.6799819 34.88014984
07 10 2018 12:10
                 203.2590027 4.460954189 213.780442 38.69343185
07 10 2018 12:20
                 155.9396973 4.214243889 163.8400657 35.01847076
07 10 2018 12:30
                 221.2068939 4.600212097 243.5178594 35.59653091
07 10 2018 12:40
                 280.635498 5.084270954 356.9752338 29.7920208
07 10 2018 12:50
                 320.5622864 5.163094997 377.1005854 32.77634811
                 293.8158875 4.975341797 329.9649237 31.85020065
07 10 2018 13:00
07 10 2018 13:10
                 270.8609009 4.939252853 321.2150784 30.93935013
07 10 2018 13:20
                 280.1755981 4.966241837 327.749441 26.41551018
07 10 2018 13:30
                 331.8826904 5.22457695 393.1476747 25.95035934
07 10 2018 13:40
                 319.9142151 5.215922832 390.8700629 28.08756065
07 10 2018 13:50 338.6402893 5.359811783 429.5616189 28.63129997
07 10 2018 14:00 360.9200134 5.411171913 443.8061506 28.06018066
07 10 2018 14:10 420.9992065 5.644567966 511.5649844 30.11679077
                 451.6871033 5.862157822 579.4678284 31.14925003
07 10 2018 14:20
07 10 2018 14:30
                 406.2171936 5.617927074 503.5721984 35.53379059
07 10 2018 14:40
                 478.3977966 5.713634014 532.6070016 41.16223145
07 10 2018 14:50
                 685.6604004 6.421301842 775.5493798 44.82794189
07 10 2018 15:00
                 607.3994751 6.309405804 733.4334347 44.26036072
07 10 2018 15:10
                 714.3303833 6.623939991 855.3308693 40.93330002
07 10 2018 15:20
                 515.5537109 5.733157158 538.640039 46.92192078
07 10 2018 15:30
                 580.199707 6.177979946 685.6944482 51.61468124
                 629.9699707 6.295753002 728.3876877 56.11544037
07 10 2018 15:40
07 10 2018 15:50
                 618.430603 6.29117012 726.6984755 57.39567184
07 10 2018 16:00
                 615.7877197 6.267167091 717.8881455 60.30897141
07 10 2018 16:10
                 580.3668823 6.15271616 676.7299747 64.09732056
07 10 2018 16:20 572.6959839 6.107727051 660.9352579 65.93489838
07 10 2018 16:30 625.6439819 6.167800903 682.0743535 68.76927185
07 10 2018 16:40 620.6054077 6.178358078 685.8291414 72.08027649
07 10 2018 16:50
                 555.2528076 6.132722855 669.6840421 73.0718689
07 10 2018 17:00
                 450.061615 6.0773139
                                        650.3803776 73.03484344
                 494.6054077 6.294204235 727.8165715 70.54441833
07 10 2018 17:10
07 10 2018 17:20
                 365.5952148 5.798285961 559.0416536 71.37416077
07 10 2018 17:30
                 351.4035034 5.641449928 510.6259803 70.83119965
07 10 2018 17:40
                 246.1838074 5.03126812 343.7184552 77.55103302
07 10 2018 17:50
                 346.3705139 5.554419994 484.7918739 70.13577271
07 10 2018 18:00
                 246.1114044 5.021132946 341.2082848 68.93080139
07 10 2018 18:10
                 226.9884949 4.917304993 315.9410331 75.05271149
07 10 2018 18:20
                 215.5408936 5.053099155 349.1522421 75.39949799
07 10 2018 18:30
                 136.1139069 4.497791767 221.532438 74.09911346
07 10 2018 18:40 46.45970917 3.555354118 58.44478753 74.00605011
07 10 2018 18:50
                 80.00147247 4.011857033 125.2045497 76.30198669
07 10 2018 19:00 4.376067162 3.233588934 27.83994909 80.13709259
                                      97.33743286
07 10 2018 19:10 0
                     2.307693958 0
```

```
07 10 2018 19:20
                        2.433615923 0
                                          105.9520035
                  0
07 10 2018 19:30
                  0
                        2.624486923 0
                                          104.780899
07 10 2018 19:40
                                          119.1745987
                  0
                        2.931798935 0
07 10 2018 19:50
                  0
                        2.961963892 0
                                          128,4320068
07 10 2018 20:00
                  0
                        2.92019701 0
                                          130.5397034
07 10 2018 20:10
                        2.058849096 0
                                          143.4295959
07 10 2018 20:20
                  0
                        1.907289028 0
                                          107.2212982
07 10 2018 20:30
                  0
                        1.935060024 0
                                          104.3282013
07 10 2018 20:40
                  0
                        1.120960951 0
                                          98.44074249
07 10 2018 20:50
                  0
                        0.991397023 0
                                          120,9285965
07 10 2018 21:00
                  0
                        0.895352483 0
                                          119.6501999
07 10 2018 21:10
                        1.098816991 0
                                          113.8379974
07 10 2018 21:20
                        0.891657174 0
                                           99.80964661
07 10 2018 21:30
                        0.733662188 0
                                          86.75166321
07 10 2018 21:40
                  0
                        1.069002032 0
                                          65.61641693
07 10 2018 21:50
                  0
                        0.847917795 0
                                           103.082901
07 10 2018 22:00
                  0
                        0.773317575 0
                                          95.25055695
07 10 2018 22:10
                  0
                        1.13143301 0
                                          83.00869751
07 10 2018 22:20
                  0
                        1.854153991 0
                                          63.10762024
07 10 2018 22:30
                  0
                        1.457507014 0
                                           76.81419373
                                          80.74951935
07 10 2018 22:40
                        1.618909955 0
                  0
07 10 2018 22:50
                  0
                        1.791869044 0
                                          80.10954285
07 10 2018 23:00
                  0
                        1.668874025 0
                                          68.72045898
07 10 2018 23:10
                  Θ
                        1.088207006 0
                                          98.97102356
07 10 2018 23:20
                        1.512449026 0
                                          120.8266983
07 10 2018 23:30
                        2.016902924 0
                                          115.1595993
07 10 2018 23:40
                        2.003122091 0
                                          127.4653015
07 10 2018 23:50
                        1.658594966 0
                                          132.6421967
                  0
08 10 2018 00:00
                  0
                        1.632298946 0
                                          126.9589005
08 10 2018 00:10
                  0
                        1.43325603 0
                                          118.2794037
08 10 2018 00:20
                  0
                        1.311728001 0
                                          128.1405029
08 10 2018 00:30
                  0
                        1.011376977 0
                                          126.6645966
08 10 2018 00:40
                        0.867734015 0
                                          112.9047012
08 10 2018 00:50
                        1.303802013 0
                                          94.11459351
                  0
08 10 2018 01:00
                                          72.87046814
                  0
                        1.970093966 0
08 10 2018 01:10
                        1.622670054 0
                                          86.93792725
                  0
08 10 2018 01:20
                  0
                        1.802695036 0
                                          81.51516724
                        3.268733025 30.37685187 56.73876953
08 10 2018 01:30
08 10 2018 01:40
                        2.827294111 0
                                          48.43130875
08 10 2018 01:50
                        3.045763016 17.63195679 60.55524826
08 10 2018 02:00
                        3.258359909 29.6075045 54.67752838
                  0
08 10 2018 02:10
                  0
                        2.830420971 0
                                          62.27616119
08 10 2018 02:20
                        3.436808109 45.24196544 57.45280075
                  0
08 10 2018 02:30
                  20.62375069 3.58021307 61.49859476 50.25481033
08 10 2018 02:40
                        3.579953909 61.466248
                                                48.16270065
08 10 2018 02:50
                  10.0518198 3.379215002 39.63920149 47.97253036
08 10 2018 03:00
                  0.128467098 3.372071028 38.98122086 52.9247818
08 10 2018 03:10
                  33.90373993 3.9735291
                                          122.973644 47.57793045
                  46.97629929 3.690304995 76.21143867 52.46427917
08 10 2018 03:20
08 10 2018 03:30
                  45.58415985 3.744040012 84.09692359 52.21191025
08 10 2018 03:40
                  44.22182083 3.770235062 88.10848599 58.65235138
08 10 2018 03:50
                  156.429306 4.473663807 216.4459288 48.98387146
08 10 2018 04:00
                  351.0505981 5.466823101 459.5064135 49.06349182
08 10 2018 04:10
                  333.8633118 5.39287281 438.7042204 52.79990005
08 10 2018 04:20
                  248.9243011 5.069118977 353.1631453 67.74910736
08 10 2018 04:30
                  337.0822144 5.518896103 474.4521617 77.35930634
08 10 2018 04:40
                  243.6629944 4.57107687 237.1977458 79.73478699
08 10 2018 04:50
                  234.0899048 5.137092113 370.4065195 73.23773193
08 10 2018 05:00 267.84729 5.043957233 346.8723125 72.1182785
```

```
08 10 2018 05:10 321.3948975 5.485762119 464.91343
                                                     70.21219635
                 334.0924072 5.349333763 426.684075 70.76296234
08 10 2018 05:20
08 10 2018 05:30 415.7464905 5.795716763 558.2287487 76.67494965
08 10 2018 05:40 630.1392212 6.606310844 848.2071765 75.19052124
08 10 2018 05:50 669.6221924 6.732823849 900.1191953 71.06043243
08 10 2018 06:00 804.7650757 7.055009842 1040.945607 72.12915802
08 10 2018 06:10
                 731.3355103 6.826454163 939.740884 69.62786865
                 758.944519 6.724755764 896.7533727 67.71338654
08 10 2018 06:20
08 10 2018 06:30 569.1738281 6.066431999 646.6278199 64.50924683
08 10 2018 06:40 431.328186 5.704563141 529.816755 62.24412155
08 10 2018 06:50 407.3908081 5.671191216 519.6209901 64.03991699
08 10 2018 07:00 371.6524048 5.489329815 465.9356622 69.18559265
08 10 2018 07:10 377.9295044 5.55785799 485.798805 63.7218895
08 10 2018 07:20 229.2124023 4.742055893 275.0681489 62.51255035
08 10 2018 07:30 148.4129028 4.294974804 179.817906 65.24491119
08 10 2018 07:40 72.14354706 3.475827932 49.33947153 62.0905304
08 10 2018 07:50 9.382255554 2.94114089 0
                                               67.63173676
08 10 2018 08:00 102.694603 3.859471083 102.598318 62.90383911
08 10 2018 08:10 151.3112946 4.359846115 192.9084773 66.03988647
                 112.9104996 3.613380909 65.72708025 54.24419022
08 10 2018 08:20
08 10 2018 08:30 94.03665161 3.801523924 93.04401361 55.48255157
08 10 2018 08:40 14.56587982 2.73952198 0
                                               43.8865509
08 10 2018 08:50
                 13.97119045 3.086232901 19.35434187 55.34949112
08 10 2018 09:00 4.489594936 2.59117198 0
                                               58.86862946
08 10 2018 09:10 90.88111115 3.824417114 96.75443392 68.73139191
08 10 2018 09:20 34.57176971 3.246983051 28.78350785 55.23714066
08 10 2018 09:30 54.42819977 3.526060104 54.97306201 29.04714966
08 10 2018 09:40 49.70158005 3.379023075 39.62141772 34.88956833
08 10 2018 09:50 133.2492981 4.039244175 130.3205137 40.1996994
                 156.8356018 4.219111919 164.7939615 32.89300919
08 10 2018 10:00
                 152.5162964 4.246719837 170.2267402 38.10250854
08 10 2018 10:10
08 10 2018 10:20 91.16163635 3.858573914 102.4462984 41.94964981
08 10 2018 10:30
                 185.7033997 4.492668152 220.4494062 39.27170181
08 10 2018 10:40 231.5740967 4.799449921 288.2164868 50.23590851
08 10 2018 10:50 231.5187073 4.646172047 253.5970359 41.27457809
08 10 2018 11:00 519.223877 5.932375908 602.4115278 33.44620132
08 10 2018 11:10 408.3312073 5.57216692 490.0015809 38.10741043
08 10 2018 11:20 423.3492126 5.562178135 487.0656756 39.36978912
08 10 2018 11:30 550.7512207 6.034249783 635.6040191 36.77534103
08 10 2018 11:40 439.4981995 5.613902092 502.370551 38.17300034
08 10 2018 11:50 419.5172119 5.499756813 468.9299457 32.69010162
08 10 2018 12:00 647.0344849 6.142784119 673.2244362 27.90784073
08 10 2018 12:10 605.6187134 6.223033905 701.8507957 30.08806992
08 10 2018 12:20 551.6939087 6.088391781 654.2135129 29.34955978
08 10 2018 12:30 510.8201904 5.785527229 555.0113291 29.51697922
08 10 2018 12:40 525.0883789 5.912773132 595.9543062 26.97031021
08 10 2018 12:50 512.229126 5.862070084 579.4394819 24.47590065
                 507.0592041 5.959517002 611.4190864 25.93927956
08 10 2018 13:00
08 10 2018 13:10 456.3276978 5.700230122 528.4867596 22.66184998
08 10 2018 13:20
                 504.4241943 5.841963768 572.9644944 25.29219055
08 10 2018 13:30
                 522.0585938 5.945785999 606.8522711 21.59440041
08 10 2018 13:40
                 679.7592163 6.465254784 792.4667644 21.77024078
08 10 2018 13:50
                 740.4041138 6.609656811 849.5565209 18.13565063
08 10 2018 14:00 696.8035889 6.510764122 810.2078482 20.95639992
08 10 2018 14:10
                 765.7655029 6.648546219 865.3330954 21.45535088
08 10 2018 14:20 821.1873779 6.882040024 963.7595064 20.57834053
08 10 2018 14:30
                 1052.456055 7.547540188 1282.524491 24.89994049
08 10 2018 14:40 981.1567993 7.176403046 1097.417198 26.49567032
08 10 2018 14:50 799.0714722 6.805233002 930.6694411 28.3188591
```

```
08 10 2018 15:00 562.0247192 6.152163029 676.5344683 27.08231926
                 617.7457886 6.284134865 724.1097472 23.82570076
08 10 2018 15:10
08 10 2018 15:20
                 608.883606 6.291912079 726.9718016 27.6811409
08 10 2018 15:30
                 739.0518188 6.619066238 853.3579208 32.77770996
                 1151.112061 7.579929829 1299.405816 40.62025833
08 10 2018 15:40
08 10 2018 15:50
                 1264.786987 7.804791927 1420.269687 41.07476044
08 10 2018 16:00
                 1038.499023 7.379308224 1196.317295 44.00426865
                 1045.884033 7.398964882 1206.212235 45.82260895
08 10 2018 16:10
08 10 2018 16:20
                 1121.011963 7.578039169 1298.416619 46.20800018
                 1022.838013 7.330517769 1172.001436 48.46694183
08 10 2018 16:30
08 10 2018 16:40
                 856.0512695 6.860805988 954.540093 52.01924896
08 10 2018 16:50
                 957.8890991 7.275138855 1144.817555 50.28482819
08 10 2018 17:00
                 904.6035767 7.048066139 1037.773943 50.7259407
08 10 2018 17:10
                 748.3753052 6.663634777 871.5007332 50.74074936
                 782.5098267 6.79332304 925.6018385 53.3979187
08 10 2018 17:20
08 10 2018 17:30 819.3283081 6.825821877 939.4698197 51.04938889
08 10 2018 17:40
                 771.2966919 6.7110219 891.0413794 52.43740082
08 10 2018 17:50 640.9968262 6.370388031 756.217334 54.54059982
08 10 2018 18:00 602.5239258 6.228041172 703.65984
                                                     54.2723999
08 10 2018 18:10
                 661.0214844 6.401378155 767.9506126 57.44594955
                 597.7559814 6.197743893 692.7550172 56.87234116
08 10 2018 18:20
                 582.3908081 6.258777142 714.8232424 60.39339066
08 10 2018 18:30
08 10 2018 18:40
                 653.0186768 6.416303158 773.638831 64.93097687
08 10 2018 18:50
                 586.0079956 6.263220787 716.4455914 65.59475708
08 10 2018 19:00
                 643.0764771 6.347806931 747.7336657 73.12277985
08 10 2018 19:10
                 580.9744263 6.288667202 725.7768773 74.01600647
08 10 2018 19:20
                 371.0154114 5.5397439
                                        480.5059377 74.40087891
08 10 2018 19:30 374.7384033 5.649860859 513.1611021 75.12526703
08 10 2018 19:40 341.3893127 5.687963963 524.7317424 69.6113205
                 301.4762878 5.328979015 421.1214419 70.82639313
08 10 2018 19:50
08 10 2018 20:00
                 320.1579895 5.652197838 513.8667011 74.64906311
08 10 2018 20:10
                 322.008606 5.462885857 458.3864482 77.01315308
08 10 2018 20:20
                 330.1250916 5.319131851 418.4432502 78.05341339
08 10 2018 20:30 403.2858887 5.62868309 506.7909963 77.08228302
08 10 2018 20:40 509.199585 6.091319084 655.2285996 71.56442261
08 10 2018 20:50
                 520.7410278 6.094239235 656.2421182 77.46977234
08 10 2018 21:00
                 588.3383789 6.461881161 791.1607316 79.7431488
08 10 2018 21:10
                 775.838623 7.082714081 1053.662333 78.2201004
08 10 2018 21:20
                 654.4827271 6.808040142 931.8663221 79.15229797
08 10 2018 21:30 812.6434937 7.118048191 1070.027123 75.66712189
08 10 2018 21:40 913.9979858 7.334907055 1174.174786 74.33979034
08 10 2018 21:50 1073.473022 7.784203053 1408.947138 71.91040039
08 10 2018 22:00
                 1261.305054 8.121138573 1600.112061 70.98636627
08 10 2018 22:10
                 1375.208008 8.408408165 1771.822715 72.67536926
08 10 2018 22:20
                 1629.447021 8.755632401 1987.806475 71.02292633
08 10 2018 22:30
                 1926.047974 9.428718567 2423.205102 66.17812347
08 10 2018 22:40
                 2092.483887 9.563113213 2489.125412 66.76265717
                 2560.350098 10.73151016 3169.174451 65.57613373
08 10 2018 22:50
08 10 2018 23:00 2640.220947 10.88311958 3229.595155 65.96115875
08 10 2018 23:10
                 2723.503906 11.05712986 3292.241987 60.66218185
                 2697.385986 11.04798985 3289.12383 63.10795975
08 10 2018 23:20
08 10 2018 23:30
                 2683.525879 10.95246029 3255.39773 63.41416931
08 10 2018 23:40
                 2801.173096 10.92772961 3246.324328 66.56667328
08 10 2018 23:50
                 3035.436035 11.30790997 3370.657703 65.78735352
09 10 2018 00:00
                 2841.665039 10.77756977 3188.122476 62.89382935
09 10 2018 00:10
                 2838.636963 10.85062981 3217.114683 62.87556076
09 10 2018 00:20 3045.080078 11.25121021 3354.108844 62.89485168
09 10 2018 00:30 3117.589111 11.27171993 3360.172875 60.14704132
09 10 2018 00:40 3283.239014 12.24246025 3554.719262 64.02722168
```

```
09 10 2018 00:50 2937.837891 11.35976982 3385.208321 62.39863968
                 2869.939941 11.11093998 3310.221046 64.46820831
09 10 2018 01:00
                 2777.829102 10.89523029 3234.183155 63.19578171
09 10 2018 01:10
09 10 2018 01:20 2752.718018 10.63403034 3127.324219 61.50336075
09 10 2018 01:30 2976.289063 11.24153996 3351.218841 63.4518013
09 10 2018 01:40 3365.636963 11.95158005 3514.219161 63.33839035
09 10 2018 01:50
                 3450.214111 12.36867046 3567.984504 63.45748138
                 3536.366943 12.37703991 3568.77496 62.83438873
09 10 2018 02:00
09 10 2018 02:10
                 3602.448975 13.38416004 3600 61.58061981
                 3594.112061 13.5157299 3600
09 10 2018 02:20
                                               60.76269913
09 10 2018 02:30
                 3602.490967 14.20044994 3600 62.76227188
09 10 2018 02:40
                 3602.525879 14.65347004 3600 65.41165161
09 10 2018 02:50
                 3602.23291 14.87331009 3600
                                              66.92720795
09 10 2018 03:00
                 3599.623047 14.02406025 3600 64.48084259
09 10 2018 03:10 3490.024902 12.61997032 3587.007783 61.53733063
09 10 2018 03:20 3528.685059 12.70487022 3591.27761 62.49113083
09 10 2018 03:30 3507.955078 12.51605034 3580.312117 59.71205902
09 10 2018 03:40 3420.355957 11.82419968 3491.926789 60.04994965
09 10 2018 03:50 3565.923096 13.37080002 3600 62.016819
09 10 2018 04:00 3480.898926 13.16895962 3600 63.22182846
                 3527.653076 12.98746014 3597.909059 61.60956955
09 10 2018 04:10
09 10 2018 04:20
                 3588.924072 13.56107044 3600 62.3583107
09 10 2018 04:30
                 3598.352051 14.26891041 3600
                                              62.00423813
09 10 2018 04:40
                 3534.217041 13.06155968 3600 61.3817215
09 10 2018 04:50
                 3576.894043 12.76700974 3593.728332 58.6366806
09 10 2018 05:00 3592.450928 13.16942024 3600 59.26509857
09 10 2018 05:10 3593.279053 13.31418037 3600 59.10641098
09 10 2018 05:20 3541.791016 12.54833031 3582.566733 58.2634201
09 10 2018 05:30 3584.724121 12.78989983 3594.488729 59.59215927
                 3600.531006 13.81355953 3600 60.03749084
09 10 2018 05:40
09 10 2018 05:50 3479.410889 12.30169964 3561.261521 55.75740814
09 10 2018 06:00 3508.437988 12.63605022 3587.898759 55.9071312
09 10 2018 06:10 3425.407959 12.40450954 3571.292265 57.38581085
09 10 2018 06:20 3184.725098 11.46432018 3412.877344 54.9358902
09 10 2018 06:30 3153.573975 11.58753014 3442.704362 55.13684845
09 10 2018 06:40
                 2951.503906 11.04082012 3286.664686 54.20402145
                 3070.384033 11.08073997 3300.210012 54.77883148
09 10 2018 06:50
09 10 2018 07:00
                 2986.449951 11.2293396 3347.544396 56.20222092
09 10 2018 07:10 2955.406006 10.88761997 3231.304127 51.55918121
09 10 2018 07:20 2328.104004 9.47221756 2451.748411 47.58840942
09 10 2018 07:30 3162.147949 11.52046967 3426.837396 52.88605118
09 10 2018 07:40 2294.246094 9.588585854 2508.585962 51.12755966
09 10 2018 07:50 2054.548096 8.867254257 2058.792191 45.47219086
09 10 2018 08:00 2182.946045 9.077969551 2194.371428 38.05931091
09 10 2018 08:10 2750.910889 10.5141201 3072.493833 42.83625031
09 10 2018 08:20 2464.072998 9.663770676 2564.683554 39.8850708
09 10 2018 08:30 2643.430908 9.989379883 2785.48101 39.61758041
09 10 2018 08:40 2849.240967 10.43426037 3033.86116 41.32324982
09 10 2018 08:50 3137.041992 11.43857956 3406.269064 43.3053093
                 3228.48999 11.61141014 3448.145726 42.20616913
09 10 2018 09:00
09 10 2018 09:10
                 3215.311035 11.31225967 3371.899491 40.77043152
09 10 2018 09:20
                 3125.951904 11.4017601 3396.585979 42.54066086
09 10 2018 09:30
                 2384.60498 9.660052299 2561.955818 44.45335007
09 10 2018 09:40
                 2246.193115 9.276928902 2323.82374 44.82024002
09 10 2018 09:50
                 1830.666016 8.455956459 1800.904422 41.80976868
09 10 2018 10:00 2078.462891 9.00729847 2148.697006 38.28440094
09 10 2018 10:10 2249.813965 9.128358841 2227.045923 36.42945099
09 10 2018 10:20 2809.885986 10.47332954 3052.976101 33.69594955
09 10 2018 10:30 2551.875 9.858562469 2700.977462 32.55799103
```

```
09 10 2018 10:40 2660.004883 10.12195969 2865.631294 33.05696106
09 10 2018 10:50
                 2568.058105 9.892112732 2723.175439 30.62755966
                 3260.511963 11.7413702 3475.876259 35.10287094
09 10 2018 11:00
09 10 2018 11:10
                 2911.655029 10.73752975 3171.680592 32.83665848
09 10 2018 11:20
                 2800.154053 10.74172974 3173.423847 34.02212906
09 10 2018 11:30
                 3023.405029 11.19966984 3338.476096 34.12776947
                 2742.523926 10.39760017 3015.545694 33.042099
09 10 2018 11:40
                 2558.266113 10.19097042 2905.238787 32.92097092
09 10 2018 11:50
09 10 2018 12:00
                 2409.49292 9.740448952 2619.867989 33.27804947
                 2718.375
                             10.43976974 3036.581808 33.08359909
09 10 2018 12:10
09 10 2018 12:20
                 2886.315918 10.96652031 3260.492869 35.31800079
09 10 2018 12:30
                 2858.238037 11.01583958 3278.005827 36.16323853
09 10 2018 12:40
                 2524.543945 10.26556969 2946.47371 36.30244064
09 10 2018 12:50
                 2234.157959 9.37402153 2387.348208 30.19808006
09 10 2018 13:00
                 2588.310059 10.27748013 2952.907752 32.55812073
09 10 2018 13:10 2388.906006 9.679895401 2576.456726 32.24485016
09 10 2018 13:20 2821.468994 10.28133011 2954.978801 27.83143044
09 10 2018 13:30 2529.551025 10.13004971 2870.348149 28.3761692
09 10 2018 13:40 2888.678955 11.06517982 3294.972732 28.18207932
09 10 2018 13:50 2349.798096 9.927788734 2746.37949 29.66736984
                             10.15596008 2885.322817 30.01202011
09 10 2018 14:00
                 2461.7229
                 1461.427002 7.943564892 1497.846094 31.89682961
09 10 2018 14:10
09 10 2018 14:20
                 2192.166992 9.251970291 2307.525744 28.45959091
09 10 2018 14:30
                 2733.49707 10.59702969 3110.805119 39.31285858
09 10 2018 14:40
                 2416.157959 9.945051193 2757.46036 39.16094971
09 10 2018 14:50
                 2794.049072 10.36032009 2996.539558 35.90576172
09 10 2018 15:00
                 2811.455078 10.86497021 3222.654348 35.5433197
09 10 2018 15:10
                 2650.6521 10.46457005 3048.72644 37.14907837
                 2439.920898 10.00269985 2793.77955 36.62239075
09 10 2018 15:20
                 2015.647949 9.133077621 2230.110035 40.30894852
09 10 2018 15:30
                 1836.692993 8.889335632 2072.909212 40.45737076
09 10 2018 15:40
09 10 2018 15:50
                 1992.157959 9.059370995 2182.333383 42.64097977
09 10 2018 16:00
                 1849.360962 8.775243759 2000.230608 43.2392807
09 10 2018 16:10
                 2246.793945 9.480834007 2457.404743 47.29283905
09 10 2018 16:20
                 2528.570068 9.8937006
                                         2724.216948 40.41093063
                 2773.916992 10.52040005 3075.45919 43.82648087
09 10 2018 16:30
09 10 2018 16:40
                 2249.375977 9.538257599 2469.91155 48.36273956
                 2030.35498 8.962496758 2119.842686 46.14094162
09 10 2018 16:50
09 10 2018 17:00
                 2544.552002 10.17881966 2898.367899 50.40739059
09 10 2018 17:10
                 2137.873047 9.191664696 2268.209458 48.79423904
                 2463.275879 9.791545868 2655.528735 48.08700943
09 10 2018 17:20
                 2646.056885 10.38020992 3006.727873 48.74869919
09 10 2018 17:30
09 10 2018 17:40
                 2660.399902 10.35509968 2993.847164 48.37652969
09 10 2018 17:50
                 2460.697021 9.849658966 2695.024826 51.11481094
09 10 2018 18:00
                 2855.025879 10.91576958 3241.885114 53.43965912
09 10 2018 18:10
                 2632.935059 10.35544968 2994.027912 51.45854187
09 10 2018 18:20
                 2325.365967 9.811385155 2669.138382 55.02352905
09 10 2018 18:30
                 2337.629883 9.870950699 2709.216684 56.98714066
                 2675.50708 10.63836956 3129.238404 58.35697174
09 10 2018 18:40
09 10 2018 18:50
                 2648.952881 10.56583977 3096.604519 56.41016006
09 10 2018 19:00
                 2751.195068 10.40367985 3018.608682 54.56356812
09 10 2018 19:10
                 2727.2229
                             10.38751984 3010.444617 55.22126007
09 10 2018 19:20
                 3234.833008 11.68233013 3463.669194 57.25930023
09 10 2018 19:30
                 3108.558105 11.46605968 3413.319164 56.45454025
09 10 2018 19:40
                 2904.170898 11.27414036 3360.882669 59.0946312
09 10 2018 19:50
                 3120.139893 11.74240017 3476.083511 56.79179001
09 10 2018 20:00 3462.993896 12.22854996 3553.101163 55.09383011
09 10 2018 20:10 3573.641113 12.80869961 3595.056221 56.70598984
09 10 2018 20:20 3597.075928 12.67908955 3590.09408 51.98936844
```

```
3600.26001 12.85416985 3596.21706 55.89044189
09 10 2018 20:30
                 3578.856934 12.54273033 3582.186945 56.10874939
09 10 2018 20:40
09 10 2018 20:50
                 3548.139893 12.46899986 3576.741047 55.61885834
09 10 2018 21:00
                 3321.674072 11.8136301 3489.947687 54.75841904
09 10 2018 21:10
                 3495.385986 12.17523003 3546.607539 53.30184937
09 10 2018 21:20
                 3596.550049 12.71350956 3591.65228 52.93299866
                 3592.897949 12.61670017 3586.821857 51.11817169
09 10 2018 21:30
                 3587.99707 12.95390034 3597.721863 52.54104996
09 10 2018 21:40
09 10 2018 21:50
                 3587.812988 12.72187042 3592.00441 52.4784584
                 3571.050049 12.52478027 3580.937496 49.74586868
09 10 2018 22:00
09 10 2018 22:10
                 3361.066895 11.90482998 3506.369339 49.43196869
09 10 2018 22:20
                 3421.147949 12.27655983 3558.553873 50.50500107
09 10 2018 22:30
                 3401.606934 12.43148041 3573.649414 52.08712006
09 10 2018 22:40 3382.843994 12.2958498 3560.640484 52.53759003
09 10 2018 22:50 3404.75293 12.12318993 3539.820152 52.96075058
09 10 2018 23:00 3485.655029 12.56752014 3583.832167 55.6349411
09 10 2018 23:10 3528.068115 12.37605953 3568.682936 55.53802109
09 10 2018 23:20 3599.010986 12.61242008 3586.576093 53.30104828
09 10 2018 23:30 3601.843994 12.44423962 3574.725188 52.58827972
09 10 2018 23:40 3550.009033 12.2116003 3551.087136 53.56433105
09 10 2018 23:50 3495.603027 12.15631008 3544.191564 52.13201141
10 10 2018 00:00 3486.968994 11.95763016 3515.207251 51.13497925
10 10 2018 00:10
                 3554.052002 12.73180962 3592.409644 52.41059113
10 10 2018 00:20 3457.575928 12.17638016 3546.752509 51.31528854
10 10 2018 00:30 3463.666016 12.15377998 3543.864019 49.91117096
10 10 2018 00:40 3572.528076 12.53824997 3581.879664 50.60705185
10 10 2018 00:50 3521.705078 12.31698036 3562.858062 49.72166061
10 10 2018 01:00 3499.053955 12.32085991 3563.257492 49.80347061
10 10 2018 01:10 3564.478027 12.42329025 3572.945578 49.54629898
10 10 2018 01:20 3369.62207 11.98950958 3520.309311 49.31888962
10 10 2018 01:30 3305.690918 12.05313969 3529.972558 51.78850937
10 10 2018 01:40 3346.333984 11.86435986 3499.264443 48.74198151
10 10 2018 01:50
                 3164.304932 11.64758968 3456.183288 50.06206131
10 10 2018 02:00
                 3049.801025 11.3189497 3373.801743 49.19942856
                 2909.856934 10.97144032 3262.265012 48.41846085
10 10 2018 02:10
10 10 2018 02:20
                 2684.762939 10.54471016 3086.839647 46.85958099
                 2653.164063 10.40699005 3020.272101 47.58731079
10 10 2018 02:30
10 10 2018 02:40
                 2748.685059 10.48750019 3059.807161 47.04990005
10 10 2018 02:50 2759.216064 10.66436958 3140.607184 47.31208038
10 10 2018 03:00 2884.150879 10.81902981 3204.733542 47.1111908
10 10 2018 03:10 2445.284912 10.10587025 2856.191681 46.87784958
10 10 2018 03:20 2866.159912 11.34654999 3381.551786 48.59159851
10 10 2018 03:30 2742.2771 10.9026804 3236.988325 46.92520142
10 10 2018 03:40
                 2532.471924 10.10058975 2853.076548 42.7926712
10 10 2018 03:50
                 2600.063965 10.16125011 2888.355462 41.96331024
10 10 2018 04:00
                 2532.055908 10.24133015 2933.253016 43.93257904
10 10 2018 04:10
                 2359.226074 9.876933098 2713.177534 44.16743851
                 2474.486084 10.08355045 2842.966699 43.29795837
10 10 2018 04:20
10 10 2018 04:30
                 2011.040039 9.244793892 2302.842258 47.70793152
10 10 2018 04:40
                 2153.365967 9.386052132 2395.231166 42.9224205
10 10 2018 04:50
                 2560.363037 9.897241592 2726.536601 42.59083176
10 10 2018 05:00
                 2449.221924 9.947414398 2758.969907 42.86642838
10 10 2018 05:10
                 2355.344971 9.700749397 2591.549341 40.57368851
10 10 2018 05:20
                 2707.704102 10.28507996 2956.991898 42.82115936
10 10 2018 05:30
                 3049.525879 10.89317989 3233.408824 42.26198959
10 10 2018 05:40 3030.235107 10.81857967 3204.555437 44.26882935
10 10 2018 05:50 2671.185059 9.898181915 2727.151911 42.89044952
10 10 2018 06:00 2926.934082 10.66930008 3142.743687 44.11022949
10 10 2018 06:10 2766.720947 10.45376968 3043.458069 45.55294037
```

```
10 10 2018 06:20 2741.541992 10.2592802 2943.059632 44.627491
                 2709.89502 10.3874197 3010.393803 45.86790085
10 10 2018 06:30
10 10 2018 06:40
                 1764.093994 8.345214844 1733.44574 46.33488846
10 10 2018 06:50
                 1918.29895 8.579266548 1877.09506 43.63919067
10 10 2018 07:00
                 2356.225098 9.553375244 2481.624317 51.0102005
10 10 2018 07:10
                 2637.996094 10.07044983 2835.133511 53.26646042
                 2377.897949 9.697667122 2589.328066 54.17089081
10 10 2018 07:20
10 10 2018 07:30
                 1707.453003 8.431826591 1786.124429 50.29072952
10 10 2018 07:40
                 1602.321045 8.155532837 1620.281948 39.47542953
10 10 2018 07:50
                 1719.984985 8.169429779 1628.46326 37.38014984
10 10 2018 08:00
                 2108.379883 9.128443718 2227.101031 37.64574814
10 10 2018 08:10 2369.77002 9.688897133 2582.989957 32.64633179
10 10 2018 08:20
                 2611.7771
                             10.37798023 3005.591227 35.05984116
10 10 2018 08:30
                 2944.334961 11.19752026 3337.811767 39.04187012
10 10 2018 08:40
                 2342.245117 9.619175911 2531.650602 34.47428894
10 10 2018 08:50
                 2605.51709 10.2771101 2952.708477 33.11903
10 10 2018 09:00
                 2071.235107 9.131291389 2228.950073 32.8640213
10 10 2018 09:10 2207.501953 9.289962769 2332.340447 36.75244904
10 10 2018 09:20 2272.016113 9.569347382 2493.909658 29.77609062
                 2291.316895 9.818087578 2673.706584 34.03483963
10 10 2018 09:30
                 2182.549072 9.569253922 2493.838038 39.23834991
10 10 2018 09:40
                 2622.813965 10.19272995 2906.230132 36.58847046
10 10 2018 09:50
10 10 2018 10:00
                 2288.251953 9.506711006 2445.203115 35.02359009
10 10 2018 10:10
                 2212.841064 9.467521667 2448.666061 34.58858871
10 10 2018 10:20
                 2205.285889 9.446462631 2434.845886 33.94511032
10 10 2018 10:30 2696.408936 10.64044952 3130.154241 37.51361084
10 10 2018 10:40 2631.60498 10.12629986 2868.164266 37.03934097
10 10 2018 10:50 2734.364014 10.59043026 3107.821571 36.49657822
10 10 2018 11:00 3009.396973 11.37207031 3388.578435 37.51971817
                 2840.714111 10.90968037 3239.612091 42.4291687
10 10 2018 11:10
10 10 2018 11:20 2793.354004 10.67374039 3144.662503 38.58992004
10 10 2018 11:30
                 2204.475098 9.475765228 2454.077219 36.00093842
10 10 2018 11:40
                 2648.044922 10.37856007 3005.886946 37.75292969
10 10 2018 11:50
                 2632.930908 10.33722973 2984.572979 35.79671097
                 2619.166992 10.37292004 3003.006522 36.56813049
10 10 2018 12:00
                             9.518082619 2454.151526 34.38608932
10 10 2018 12:10
                 2402.625
10 10 2018 12:20
                 3137.748047 11.32336044 3375.050826 37.99002075
10 10 2018 12:30
                 3070.429932 11.16761971 3328.467677 38.92937088
10 10 2018 12:40
                 3134.179932 11.44579983 3408.136021 36.26959991
                 1221.041016 10.87524033 3226.591533 37.55886078
10 10 2018 12:50
10 10 2018 13:00 3459.968994 12.00146008 3522.176859 36.45241928
10 10 2018 13:10 3408.019043 12.01513958 3524.284608 35.27985001
10 10 2018 13:20
                 3403.613037 12.18175983 3547.427719 36.88206863
10 10 2018 13:30
                 2991.308105 10.72350979 3165.829702 36.20537186
10 10 2018 13:40
                 2715.375
                            10.30064011 2965.302345 35.93103027
10 10 2018 13:50
                 3176.115967 11.2943697 3366.766917 35.59711838
                 3146.427979 11.07526016 3298.37177 31.59341049
10 10 2018 14:00
                 3370.993896 11.71998978 3471.530046 26.08189964
10 10 2018 14:10
                 3282.535889 11.66390991 3459.728149 32.7917099
10 10 2018 14:20
10 10 2018 14:30
                 3158.168945 11.70044994 3467.484248 36.37096024
10 10 2018 14:40
                 3127.950928 11.6740799 3461.911879 36.12258911
10 10 2018 14:50
                 3009.940918 11.45730972 3411.090652 36.56047821
10 10 2018 15:00
                 2988.087891 11.22014999 3344.755792 36.68954849
10 10 2018 15:10
                 3231.288086 12.02482033 3525.756933 37.10046005
10 10 2018 15:20
                 2951.50293 10.73326969 3169.907928 40.20230103
10 10 2018 15:30
                 2951.062988 10.99962997 3272.31134 41.0215416
10 10 2018 15:40 2851.667969 10.89667034 3234.726394 46.93235016
10 10 2018 15:50 2775.937988 10.90019989 3236.055799 49.71427917
10 10 2018 16:00 2612.464111 10.37516975 3004.156539 49.89189148
```

```
2011.853027 8.955554962 2115.379328 45.43267059
10 10 2018 16:10
                 2764.091064 10.77618027 3187.558504 49.83353043
10 10 2018 16:20
10 10 2018 16:30
                 2354.375977 9.569974899 2494.390458 44.72013092
10 10 2018 16:40 2410.542969 9.824549675 2678.096867 43.48699188
10 10 2018 16:50
                 2689.864014 10.31233978 2971.505497 43.85047913
10 10 2018 17:00
                 2582.946045 10.00442028 2794.847345 43.14966965
                 2652.896973 10.51391029 3072.394581 50.97573853
10 10 2018 17:10
10 10 2018 17:20
                 2538.096924 10.04428959 2819.333988 47.29409027
10 10 2018 17:30
                 2506.979004 9.859962463 2701.911094 44.90217972
10 10 2018 17:40
                 2297.792969 9.530995369 2464.255561 49.18254089
10 10 2018 17:50
                 2357.611084 9.723075867 2607.541692 51.3548584
10 10 2018 18:00
                 3215.466064 11.76208973 3480.008137 57.34634018
10 10 2018 18:10 3237.86499 11.62839031 3451.948849 57.42528152
10 10 2018 18:20 2527.384033 9.964263916 2769.681378 54.97072983
10 10 2018 18:30 2776.574951 10.65344048 3135.849315 58.40084839
10 10 2018 18:40 2896.37207 10.75111008 3177.301499 60.86373901
10 10 2018 18:50 2896.216064 10.84937
                                       3216.625674 56.77999878
10 10 2018 19:00 3115.180908 11.48593998 3418.326047 58.10445023
10 10 2018 19:10 2903.749023 10.83860016 3212.429684 56.33441925
                 2870.555908 10.65670013 3137.271553 57.72003174
10 10 2018 19:20
                 3073.547119 11.11818981 3312.594255 55.44240189
10 10 2018 19:30
                 3201.195068 11.18817997 3334.913604 54.78992081
10 10 2018 19:40
10 10 2018 19:50
                 3365.730957 12.32431984 3563.611704 57.27249908
10 10 2018 20:00
                 2572.170898 9.981651306 2780.640422 53.50133896
10 10 2018 20:10
                 2650.894043 10.37882042 3006.019698 53.89719009
10 10 2018 20:20
                 2656.062012 10.16543961 2890.751278 51.29084015
10 10 2018 20:30 2620.812012 10.05502987 2825.846099 51.87699127
10 10 2018 20:40 2676.10791 10.08955956 2846.542146 53.39881134
                 2871.725098 10.89433002 3233.843292 54.7898407
10 10 2018 20:50
10 10 2018 21:00
                 2738.843994 10.48147011 3056.906924 51.69268036
10 10 2018 21:10 2631.298096 10.49870014 3065.168002 53.25664902
10 10 2018 21:20
                 2881.2771
                            10.7293396 3168.268569 50.57162094
10 10 2018 21:30
                 3027.374023 11.32059956 3374.269439 51.1167984
10 10 2018 21:40 2890.863037 10.52017975 3075.355344 47.49333954
                 2853.300049 10.67693996 3146.042061 48.27333069
10 10 2018 21:50
                 3310.551025 11.72813034 3473.194774 46.73611069
10 10 2018 22:00
10 10 2018 22:10
                 3252.334961 11.93309975 3511.161666 50.97529984
10 10 2018 22:20
                 3235.725098 11.78404999 3484.301997 51.10964966
10 10 2018 22:30 3032.00293 10.94692039 3253.377575 51.15668106
10 10 2018 22:40 2895.802002 10.71236038 3161.141808 44.03472137
10 10 2018 22:50 2632.064941 10.29133034 2960.338449 46.88909912
10 10 2018 23:00 2154.254883 9.46634388 2447.893004 46.36307907
10 10 2018 23:10 2365.61792 9.859131813 2701.357225 50.20808029
10 10 2018 23:20 2485.947021 10.03215981 2811.9365 51.11141968
10 10 2018 23:30
                 2058.741943 9.122576714 2223.292299 46.0672493
10 10 2018 23:40
                 2443.916016 9.814094543 2670.98683 45.69031906
10 10 2018 23:50
                 2315.61499 9.678857803 2575.70186 49.29669189
                 2063.844971 9.00452137 2146.906062 48.88908005
11 10 2018 00:00
                 2517.137939 10.0862999 2844.603999 49.23125076
11 10 2018 00:10
11 10 2018 00:20
                 2582.916016 10.29051018 2959.89996 49.72740936
11 10 2018 00:30
                 2803.788086 11.08300018 3300.966265 53.3499794
11 10 2018 00:40
                 2710.123047 10.87038994 3224.735201 52.40530014
11 10 2018 00:50
                 2543.702881 10.57254028 3099.676638 54.09447098
11 10 2018 01:00
                 2666.479004 10.53139973 3080.627932 53.61560059
11 10 2018 01:10
                 2476.577881 10.21741009 2920.03928 55.32469177
11 10 2018 01:20
                 2603.299072 10.4644804 3048.682841 54.48220062
11 10 2018 01:30 2460.976074 10.20094013 2910.843805 54.96749878
11 10 2018 01:40 2207.822021 9.693354607 2586.214709 54.88486099
11 10 2018 01:50 2098.673096 9.413082123 2412.950264 52.99617004
```

```
11 10 2018 02:00 2122.165039 9.493380547 2465.642227 54.51657104
11 10 2018 02:10
                 1917.192017 8.988195419 2136.383742 53.25894928
11 10 2018 02:20
                 1900.68396 8.688991547 1945.751146 51.74034119
11 10 2018 02:30 1794.569946 8.711514473 1959.935967 50.45121002
11 10 2018 02:40 1591.083984 8.363587379 1744.570277 51.02721024
11 10 2018 02:50 1365.697021 7.962964058 1508.859559 55.9889183
11 10 2018 03:00 2035.520996 9.413722038 2413.369875 52.68915939
11 10 2018 03:10 1324.915039 7.722574234 1375.355969 57.47282028
11 10 2018 03:20 1228.958008 7.567769051 1293.051461 57.95915985
11 10 2018 03:30
                 1417.452026 7.98783493 1523.037964 56.26234055
11 10 2018 03:40
                 1409.930054 7.978313923 1517.602511 54.81703949
11 10 2018 03:50 1707.613037 8.636565208 1912.852261 54.84054947
11 10 2018 04:00 1746.249023 8.768385887 1995.883625 60.29745865
11 10 2018 04:10 1641.985962 8.491143227 1822.534806 53.47644043
11 10 2018 04:20 1699.484009 8.617242813 1900.770319 49.26128006
11 10 2018 04:30 1589.371948 8.350117683 1736.411713 49.49782944
11 10 2018 04:40 1667.702026 8.508033752 1832.950018 53.91527176
11 10 2018 04:50 1847.406982 8.867398262 2058.88418 54.39070129
11 10 2018 05:00 1752.291016 8.702406883 1954.196442 53.86346054
11 10 2018 05:10 1545.136963 8.296859741 1704.299987 50.49533081
11 10 2018 05:20 1652.180054 8.594574928 1886.627234 49.75056076
11 10 2018 05:30 1425.151001 8.058779716 1563.835002 51.80271912
11 10 2018 05:40 2009.363037 9.326397896 2356.167092 45.82049942
11 10 2018 05:50
                 1339.746948 7.721747875 1374.908665 46.85192108
11 10 2018 06:00 1230.488037 7.558263779 1288.098237 44.6699791
11 10 2018 06:10 1395.057007 7.784145832 1408.91574 46.67002106
11 10 2018 06:20 1229.900024 7.636741161 1329.345926 53.04981995
11 10 2018 06:30 1190.394043 7.581802845 1300.386244 53.5451088
11 10 2018 06:40 964.0222168 7.17186594 1095.2712 54.36317825
11 10 2018 06:50 735.0504761 6.523260117 815.1194396 51.09449005
11 10 2018 07:00 626.2722778 6.167281151 681.8898053 44.39159012
11 10 2018 07:10 710.7468262 6.483693123 799.6270168 49.49435043
11 10 2018 07:20 600.149292 6.205060005 695.3792731 57.86872101
11 10 2018 07:30 861.3483887 6.826344013 939.693659 48.83781815
11 10 2018 07:40 867.2888184 6.765349865 913.7656992 54.27806854
11 10 2018 07:50 674.1431885 6.199653149 693.4393054 52.90975189
                 960.4414063 6.841688156 946.2863102 43.90475845
11 10 2018 08:00
                 669.6716919 6.091810226 655.3990003 44.2048912
11 10 2018 08:10
11 10 2018 08:20 720.1276245 6.204500198 695.1782703 47.6296196
11 10 2018 08:30 1364.366943 7.76928091 1400.772108 54.09148026
11 10 2018 08:40 1509.465942 8.126628876 1603.324179 46.20523834
11 10 2018 08:50 1288.496948 7.663159847 1343.409435 50.58675003
11 10 2018 09:00 1603.832031 8.341968536 1731.48297 49.36154938
11 10 2018 09:10 2187.806885 9.537472725 2469.301193 41.74594879
11 10 2018 09:20 2059.875
                           9.220453262 2286.966469 44.00139999
11 10 2018 09:30 2154.510986 9.351488113 2372.589706 44.85749054
11 10 2018 09:40 2062.977051 9.220931053 2287.277956 47.32342148
11 10 2018 09:50 2392.340088 9.900130272 2728.425926 48.06214142
11 10 2018 10:00 1989.972046 9.0362463 2167.383274 47.03182983
11 10 2018 10:10
                 1687.448975 8.654806137 1924.279662 44.05585098
11 10 2018 10:20
                 1070.436035 7.302789211 1158.335662 39.28839111
11 10 2018 10:30
                 1110.274048 7.425317764 1219.568019 34.24184036
11 10 2018 10:40
                 753.6671753 6.476350784 796.7712278 29.44016075
11 10 2018 10:50
                 1293.092041 7.378448963 1195.886053 25.12424088
11 10 2018 11:00
                 1937.812988 8.590433121 1884.046692 20.90924072
11 10 2018 11:10 1138.953003 7.256465912 1135.749481 28.30274963
11 10 2018 11:20 1152.642944 7.376663208 1194.990174 30.8405304
11 10 2018 11:30 918.2437744 6.8433218 946.9898803 30.02581024
11 10 2018 11:40 1630.182007 8.647088051 1919.441966 30.73638916
```

```
11 10 2018 11:50 1813.487061 8.882626534 2068.617505 34.60338974
                  1907.911011 8.96481514 2121.33379 28.53590965
11 10 2018 12:00
11 10 2018 12:10
                  954.8873901 7.042200089 1035.099371 21.55814934
11 10 2018 12:20
                  1185.046021 7.565718174 1291.981735 20.99949074
                  1457.05896 8.098776817 1587.059333 15.10781956
11 10 2018 12:30
11 10 2018 12:40
                  1038.088989 7.09886694 1061.123043 19.22961998
                  2016.562988 9.395706177 2401.558511 20.8746109
11 10 2018 12:50
                  1067.737061 7.187696934 1102.771199 22.27349091
11 10 2018 13:00
11 10 2018 13:10
                  870.2830811 6.628240108 857.0738495 18.9156208
                  813.0363159 6.66880703 873.620973 18.43758011
11 10 2018 13:20
11 10 2018 13:30
                  893.4738159 6.950088978 993.6779846 18.99925995
11 10 2018 13:40
                  584.5974731 6.167088985 681.8215806 20.42000008
11 10 2018 13:50
                  326.5498962 5.256244183 401.5352012 24.1770401
11 10 2018 14:00
                  283.0383911 4.800563812 288.4739149 29.3537693
11 10 2018 14:10
                 570.5769043 6.057269096 643.4778599 23.48646927
11 10 2018 14:20
                  384.0971985 5.492189884 466.7559846 32.27145004
11 10 2018 14:30
                  215.9028015 4.707660198 267.2958068 41.16098022
11 10 2018 14:40
                 112.7797012 4.102931976 142.3498748 34.7640686
11 10 2018 14:50
                  185.1620026 4.469251156 215.5194191 36.46342087
11 10 2018 15:00
                  714.0986938 6.4560709
                                         788.9143433 40.3866806
11 10 2018 15:10
                  1200.80603 7.037773132 1033.083878 39.8192482
11 10 2018 15:20
                  1912.819946 8.57656765 1875.416139 25.30394936
11 10 2018 15:30
                  1352.644043 7.712213039 1369.753537 32.54642105
11 10 2018 15:40
                  753.3668213 6.539497852 821.5277476 33.04122162
11 10 2018 15:50
                  492.364502 5.667867184 518.6113993 39.48748016
11 10 2018 16:00
                  550.6223145 6.112491131 662.597584 39.5775795
11 10 2018 16:10
                  435.2897949 5.777351856 552.4374895 41.27634048
11 10 2018 16:20
                  598.0629883 6.282999992 723.6926536 37.85206985
                  670.3278198 6.560756207 829.9620545 34.33061981
11 10 2018 16:30
                  700.9517822 6.622868061 854.8967084 39.39226913
11 10 2018 16:40
11 10 2018 16:50
                  390.8158875 5.473395824 461.3791937 40.02536011
11 10 2018 17:00
                  440.4350891 5.823760033 567.1381126 33.02650833
11 10 2018 17:10
                  272.2749023 5.020501137 341.0520662 31.28103065
11 10 2018 17:20
                  188.1271973 4.67550087 260.1001621 26.50551987
11 10 2018 17:30
                  93.80259705 4.079813004 137.9614154 24.91655922
                                          81.2661478 22.89365959
11 10 2018 17:40
                  53.44290161 3.7251091
                  4.70639801 3.026230097 16.89440454 20.7161808
11 10 2018 17:50
11 10 2018 18:00
                  0
                        2.418095112 0
                                          16.34193039
11 10 2018 18:10
                        2.775562048 0
                                          12.78870964
11 10 2018 18:20
                        2.343575954 0
                                          18.06422997
11 10 2018 18:30
                        2.652968884 0
                                          37.94029999
                  0
11 10 2018 18:40
                                          45.0343895
                  0
                        2.503849983 0
11 10 2018 18:50
                        2.061300993 0
                                          65.0790329
                  0
11 10 2018 19:00
                  0
                        1.55311203 0
                                          165.7487946
11 10 2018 19:10
                  0
                        0.988565624 0
                                          232.5762024
11 10 2018 19:20
                  0
                        0.773231089 0
                                          311.3937073
11 10 2018 19:30
                  0
                        0.799672604 0
                                          193.5368958
11 10 2018 19:40
                  0
                        1.512645006 0
                                          190.7388
11 10 2018 19:50
                  0
                        2.304316998 0
                                          197.277298
11 10 2018 20:00
                  0
                        0.95694679 0
                                          186.1244049
11 10 2018 20:10
                  0
                        0.750108182 0
                                          179.1172028
11 10 2018 20:20
                        0.652586401 0
                                          138.5124054
11 10 2018 20:30
                        2.308226109 0
                                          151.3211975
11 10 2018 20:40
                        2.700889111 0
                                          132.540802
                  0
11 10 2018 20:50
                        3.223267078 27.13240157 88.28037262
                  0
11 10 2018 21:00
                  0
                        3.271281004 30.56846277 86.66204071
11 10 2018 21:10
                  0
                        2.766005039 0
                                          83.0014801
11 10 2018 21:20
                        3.45243597 46.85381563 68.26914215
                  0
11 10 2018 21:30 0
                        2.986498117 0
                                        81.94642639
```

```
3.735515118 82.81508283 78.50956726
11 10 2018 21:40 0
11 10 2018 21:50 79.78302002 4.053092957 132.9203701 73.0928421
11 10 2018 22:00 74.83856964 3.988835096 125.8663109 74.19232941
11 10 2018 22:10 0.024466651 2.001302958 0
                                               91.28798676
11 10 2018 22:20 0
                       2.067471981 0
                                         81.37857056
11 10 2018 22:30 12.72733974 3.595530033 63.42944269 66.80426788
11 10 2018 22:40 1.186135054 2.840241909 0
                                               67.08322906
                                         50.38407135
11 10 2018 22:50 0
                       2.101366997 0
11 10 2018 23:00 0
                       1.982758999 0
                                         55.24618912
11 10 2018 23:10 0
                       2.474014044 0
                                        48.84262848
11 10 2018 23:20 49.3300705 3.892199993 108.232066 61.19419861
11 10 2018 23:30 216.941803 4.737603188 274.0574893 65.45266724
11 10 2018 23:40 283.2904968 5.15397501 374.7465527 68.25717926
11 10 2018 23:50 364.7712097 5.532538891 478.40918
                                                     72.21629333
12 10 2018 00:00 521.0864258 6.088226795 654.1563289 74.33100891
12 10 2018 00:10 635.9716187 6.68735218 881.2484415 75.85281372
12 10 2018 00:20 877.3162231 7.222924232 1119.582994 64.66375732
12 10 2018 00:30 979.800415 7.212418079 1114.551248 67.89388275
12 10 2018 00:40 1392.676025 8.199533463 1646.24716 74.68470001
12 10 2018 00:50 1406.749023 8.348225594 1735.26686 73.55069733
12 10 2018 01:00 962.1984253 7.296607018 1155.303807 75.70300293
12 10 2018 01:10 1321.333008 8.220011711 1658.392144 76.41805267
12 10 2018 01:20 1740.06897 8.822527885 2030.270994 73.67942047
12 10 2018 01:30 1999.04895 9.325697899 2355.709082 69.4912262
12 10 2018 01:40 1788.526978 8.901625633 2080.77642 70.83083344
12 10 2018 01:50 1709.180054 8.871511459 2061.512078 69.06923676
12 10 2018 02:00 1582.44397 8.525837898 1843.950669 63.86661148
12 10 2018 02:10 1413.109009 8.27525425 1691.341215 61.91809082
12 10 2018 02:20 1440.626953 8.210790634 1652.918723 62.06964111
12 10 2018 02:30 1584.342041 8.607397079 1894.623194 64.71826935
12 10 2018 02:40 1834.713989 9.148553848 2240.164315 64.0994873
12 10 2018 02:50 1982.296021 9.326199532 2356.037301 62.51845169
12 10 2018 03:00 2009.496948 9.303833008 2341.407661 63.74525833
12 10 2018 03:10 2037.489014 9.492359161 2464.971581 64.94093323
12 10 2018 03:20 2051.346924 9.474702835 2453.379816 63.46007919
12 10 2018 03:30 1726.699951 8.808951378 2021.633566 64.07875061
12 10 2018 03:40 1877.968994 9.097891808 2207.279671 64.38645172
12 10 2018 03:50 2105.313965 9.620962143 2532.987164 62.76919937
12 10 2018 04:00 2078.248047 9.595714569 2513.990646 65.13117218
12 10 2018 04:10 2003.727051 9.126605988 2225.907898 66.55538177
12 10 2018 04:20 2108.412109 9.375276566 2388.170454 66.66107941
12 10 2018 04:30 2230.096924 9.611922264 2526.211418 63.23213959
12 10 2018 04:40 2390.079102 9.846689224 2693.033547 63.82133102
12 10 2018 04:50 2407.937988 9.964762688 2769.99708 66.3875885
12 10 2018 05:00 2399.48999 9.855811119 2699.140763 69.26378632
12 10 2018 05:10 2446.753906 9.836886406 2686.43993 70.98486328
12 10 2018 05:20 2761.610107 10.80482006 3199.087472 70.59622955
12 10 2018 05:30 3038.077881 11.35056019 3382.664775 71.71846771
12 10 2018 05:40 2521.933105 10.24540997 2935.490134 69.47715759
12 10 2018 05:50 1705.712036 8.693277359 1948.448009 69.23390961
12 10 2018 06:00
                 1655.83606 8.454697609 1800.132268 64.7813797
12 10 2018 06:10 2028.485962 9.212648392 2281.87907 66.7129364
12 10 2018 06:20 2115.042969 9.358190536 2376.978634 68.31886292
12 10 2018 06:30 3086.006104 11.69791031 3466.953215 71.13417053
12 10 2018 06:40 3098.61792 11.55669975 3435.517647 67.85452271
12 10 2018 06:50 2822.718018 11.10348988 3307.770187 68.96389008
12 10 2018 07:00 3007.262939 11.28044033 3362.724378 69.80996704
12 10 2018 07:10 2885.030029 10.91205025 3240.497772 68.23703003
12 10 2018 07:20 2904.914063 10.96475029 3259.853956 70.38020325
```

```
12 10 2018 07:30 2749.240967 10.57151985 3099.209539 65.94915009
12 10 2018 07:40 3160.915039 11.48297977 3417.585465 68.29855347
12 10 2018 07:50 2526.665039 10.04067993 2817.137359 63.54447174
12 10 2018 08:00 2198.094971 9.416762352 2415.363576 62.60078049
12 10 2018 08:10 3014.823975 11.36909008 3387.764742 69.32601929
12 10 2018 08:20 3478.281982 12.60923958 3586.391691 69.12007141
12 10 2018 08:30 3454.574951 12.13667011 3541.621256 68.30500031
12 10 2018 08:40 3370.976074 11.90909004 3507.10046 68.3480835
12 10 2018 08:50 3240.537109 11.93597031 3511.640485 69.26329803
12 10 2018 09:00
                 3314.556885 11.85206985 3497.04946 67.90975189
12 10 2018 09:10 3334.551025 12.11299992 3538.43863 67.35249329
12 10 2018 09:20 3393.653076 12.03676987 3527.552329 66.14481354
12 10 2018 09:30 3455.200928 12.38967991 3569.947937 64.95924377
12 10 2018 09:40 3207.503906 11.6601696 3458.920146 63.68371964
12 10 2018 09:50 3407.624023 12.25576973 3556.238219 64.9972229
12 10 2018 10:00 2990.540039 11.11277008 3310.821218 60.14522934
12 10 2018 10:10 2458.393066 9.925065041 2744.62242 55.8574295
12 10 2018 10:20 2784.228027 10.9218998 3244.164657 60.14128113
12 10 2018 10:30 1981.250977 9.011886597 2151.656543 49.51005936
12 10 2018 10:40 1672.119995 8.473305702 1811.55813 45.18619156
12 10 2018 10:50 1332.501953 7.538395882 1277.783677 43.44818115
12 10 2018 11:00 1586.761963 8.295777321 1703.649812 49.66379929
12 10 2018 11:10 2246.918945 9.414335251 2413.771983 51.87422943
12 10 2018 11:20 2558.062012 10.2688303 2948.239157 54.49084854
12 10 2018 11:30 2212.843018 9.480908394 2457.453578 45.30030823
12 10 2018 11:40 2288.940918 9.547696114 2477.23395 45.00183105
12 10 2018 11:50 2134.916016 9.204851151 2276.798249 43.49132156
12 10 2018 12:00 2406.340088 9.880645752 2715.629757 43.84167099
12 10 2018 12:10 2383.516113 9.567559242 2492.538825 44.62825012
12 10 2018 12:20 2309 9.387972832 2396.489898 41.54172134
12 10 2018 12:30 2717.952881 10.02340031 2806.566037 33.85622025
12 10 2018 12:40 2831.298096 10.49767971 3064.680966 38.81177139
12 10 2018 12:50 2910.750977 10.5841198 3104.958072 40.50730896
12 10 2018 13:00 2715.198975 10.15793037 2886.453312 43.52983093
12 10 2018 13:10 2901.450928 10.71747017 3163.294129 42.98426819
12 10 2018 13:20 2773.543945 10.3220396 2976.618849 37.97192001
                 3112.50708 11.65332985 3457.435794 34.95404816
12 10 2018 13:30
12 10 2018 13:40 3213.740967 11.45823002 3411.325756 37.17824173
12 10 2018 13:50 2901.044922 10.89291954 3233.310431 43.93233871
12 10 2018 14:00 2339.696045 9.53273201 2465.609835 37.10797882
12 10 2018 14:10 3320.340088 11.71366978 3470.22919 39.47103882
12 10 2018 14:20 3339.323975 12.26021004 3556.738625 39.76145172
12 10 2018 14:30 3430.384033 11.8361702 3494.144028 40.01902008
12 10 2018 14:40 3363.11792 11.99446011 3521.085918 34.84735107
12 10 2018 14:50 3194.270996 11.64074993 3454.682751 38.13579178
12 10 2018 15:00 3011.947998 10.86421013 3222.361964 44.91513062
                            10.76072025 3181.251614 47.54272079
12 10 2018 15:10 2980.2229
12 10 2018 15:20 3039.260986 10.74855995 3176.249481 43.90777969
12 10 2018 15:30 2608.422119 10.08032036 2841.040221 46.72378922
12 10 2018 15:40 2337.813965 9.500211716 2440.067552 46.41545105
12 10 2018 15:50
                 2682.908936 10.00168037 2793.146367 38.1542511
12 10 2018 16:00 2143.167969 9.181612015 2261.665034 43.20687103
12 10 2018 16:10 2622.981934 10.01097965 2798.909966 42.35680008
12 10 2018 16:20 2498.856934 10.0051899 2795.324712 40.93869019
12 10 2018 16:30 2597.784912 10.0622797 2830.221762 50.83327103
12 10 2018 16:40 2351.068115 9.182498932 2262.242314 38.30271912
12 10 2018 16:50 2277.677002 9.371358871 2385.603832 39.47005844
12 10 2018 17:00 2602.927002 9.89141655 2722.718544 47.07817841
12 10 2018 17:10 2200.207031 9.178544044 2259.668314 42.50466919
```

```
12 10 2018 17:20 2210.406982 9.450174332 2437.281371 44.74142075
12 10 2018 17:30 2126.081055 8.807912827 2020.973229 47.99958038
12 10 2018 17:40 2449.520996 9.704107285 2593.965516 47.65756989
12 10 2018 17:50 2480.029053 9.716107368 2602.568539 39.32685089
12 10 2018 18:00 2466.072021 9.58364296 2504.82784 40.72639847
12 10 2018 18:10
                 2813.082031 10.48139
                                         3056.868329 40.65666962
                 2488.082031 9.410577774 2411.30814 40.26699829
12 10 2018 18:20
                 2856.802979 10.03547955 2813.965612 34.24261093
12 10 2018 18:30
12 10 2018 18:40
                 3109.679932 10.72150993 3164.991124 40.52442932
12 10 2018 18:50
                 2633.604004 9.678829193 2575.681041 41.69406128
12 10 2018 19:00
                 2640.516113 9.86784935 2707.158733 35.03765869
12 10 2018 19:10 2454.183105 9.770372391 2640.858504 42.4900589
12 10 2018 19:20 3199.207031 11.40532017 3397.534157 42.5607605
12 10 2018 19:30 2546.718994 9.940541267 2754.574606 42.63722992
12 10 2018 19:40 3080.645996 10.98066998 3265.574406 49.28007126
12 10 2018 19:50 2587.635986 9.758807182 2632.78173 45.46031952
12 10 2018 20:00 2067.39209 8.859536171 2053.863421 46.30862045
12 10 2018 20:10 2569.636963 9.819643974 2674.76525 49.13624954
12 10 2018 20:20 3406.279053 12.06820965 3532.160579 52.79730988
12 10 2018 20:30 2534.291992 9.917967796 2740.032757 49.91722107
12 10 2018 20:40 2518.745117 9.726774216 2610.174318 50.30379868
12 10 2018 20:50 1611.258057 8.043714523 1555.128747 47.20204926
12 10 2018 21:00
                 1630.248047 8.162425041 1624.337219 40.23897171
12 10 2018 21:10 1753.302979 8.480866432 1816.207933 41.20761108
12 10 2018 21:20 1892.953979 8.610268593 1896.415357 44.04320908
12 10 2018 21:30 1986.511963 8.832823753 2036.827587 47.18323135
12 10 2018 21:40 1809.541016 8.513827324 1836.527224 50.26575851
12 10 2018 21:50 2814.162109 10.54086018 3085.047748 50.95415878
12 10 2018 22:00 2168.721924 9.223776817 2289.133321 49.91513062
12 10 2018 22:10 2183.395996 9.324167252 2354.707608 46.11046982
12 10 2018 22:20 2021.723999 8.92413044 2095.200482 43.73291016
12 10 2018 22:30 2343.343994 9.120423317 2221.894638 42.42662048
12 10 2018 22:40 2646.024902 9.949116707 2760.056189 44.87742996
12 10 2018 22:50 2351.590088 9.429942131 2424.007684 46.89797974
12 10 2018 23:00 2079.274902 9.053593636 2178.596477 41.85232162
12 10 2018 23:10 2292.519043 9.381389618 2392.175822 43.38077927
12 10 2018 23:20 2214.518066 9.209767342 2280.001538 46.8359108
                 2169.253906 9.229656219 2292.967198 49.045681
12 10 2018 23:30
12 10 2018 23:40 2261.220947 9.246126175 2303.711643 51.54718018
12 10 2018 23:50 2279.878906 9.450240135 2437.32455 50.45167923
13 10 2018 00:00 2531.269043 9.502997398 2442.270616 41.76174164
13 10 2018 00:10 2696.905029 9.962809563 2768.760381 40.7523613
13 10 2018 00:20 1810.688965 8.627667427 1907.285679 41.40325928
13 10 2018 00:30 1967.495972 8.549422264 1858.557019 41.1114502
13 10 2018 00:40 2279.73999 9.065909386 2186.563995 39.3163414
13 10 2018 00:50 2600.823975 10.17675018 2897.19332 40.70223999
                 1877.043945 8.524703979 1843.249386 41.5429306
13 10 2018 01:00
                 2287.297119 9.346051216 2369.030055 38.64337921
13 10 2018 01:10
13 10 2018 01:20 2264.728027 9.257070541 2310.855036 41.33119965
13 10 2018 01:30
                 2175.055908 9.205024719 2276.911332 42.72386932
                 2640.321045 9.7311306 2613.269366 37.03303909
13 10 2018 01:40
13 10 2018 01:50 3101.004883 10.67123032 3143.578425 32.32307053
13 10 2018 02:00
                 2996.711914 11.00148964 3272.96769 31.33893013
13 10 2018 02:10 2854.0271
                             10.7094698 3159.921356 34.3013382
13 10 2018 02:20
                 2869.812988 9.601427078 2518.308576 31.9702301
13 10 2018 02:30 3324.059082 11.1844101 3333.738538 32.8127594
13 10 2018 02:40 3148.180908 11.16722012 3328.341494 35.41749954
13 10 2018 02:50 3201.88501 10.94542027 3252.829318 34.59263992
13 10 2018 03:00 3099.351074 11.17905998 3332.065645 38.18215942
```

```
13 10 2018 03:10 2814.922119 10.23196983 2928.102125 39.80643082
                 3266.489014 11.43181038 3404.509277 39.09180069
13 10 2018 03:20
13 10 2018 03:30
                 2480.064941 9.879421234 2714.821454 42.94055939
13 10 2018 03:40 2502.812012 9.869589806 2708.314028 53.99425888
13 10 2018 03:50 2749.014893 10.1072197 2856.986407 43.6828804
13 10 2018 04:00 2823.441895 10.70547009 3158.229165 42.75825119
                 2457.531006 9.649692535 2554.330633 44.96961975
13 10 2018 04:10
                 3042.278076 10.81550026 3203.335686 42.6063385
13 10 2018 04:20
                 2696.846924 10.11639977 2862.378159 41.84196091
13 10 2018 04:30
                 3023.082031 10.92113972 3243.882497 40.13265991
13 10 2018 04:40
13 10 2018 04:50
                 2560.685059 10.09035015 2847.011735 46.13436127
13 10 2018 05:00
                 2964.805908 10.69260979 3152.761049 50.08980179
13 10 2018 05:10 2944.978027 10.87349987 3225.926072 48.25201035
13 10 2018 05:20 2653.419922 9.977020264 2777.730872 49.1665802
13 10 2018 05:30 2751.87793 10.3460598 2989.166841 50.75164032
13 10 2018 05:40 2057.812988 9.038768768 2169.013085 48.80591965
13 10 2018 05:50 2435.375977 9.647418022 2552.651482 39.97686005
13 10 2018 06:00 1960.671997 8.769346237 1996.492205 37.76300812
13 10 2018 06:10 2243.311035 9.469559669 2450.003764 52.26076889
13 10 2018 06:20 2411.116943 10.04267025 2818.34905 55.95312881
13 10 2018 06:30
                 1803.979004 8.55408287 1861.448
                                                     53.96255875
                 1125.108032 7.425045967 1219.429741 53.78850937
13 10 2018 06:40
13 10 2018 06:50
                 2066.386963 9.196469307 2271.338316 51.79878998
13 10 2018 07:00
                 1907.921997 8.755754471 1987.883743 41.66302109
13 10 2018 07:10 2161.447998 9.177778244 2259.169951 35.79537964
13 10 2018 07:20 2129.419922 9.160526276 2247.94734 36.04534912
13 10 2018 07:30 2431.202881 9.617001534 2530.022086 34.44977951
13 10 2018 07:40 2993.268066 11.02534962 3281.318905 37.66122055
13 10 2018 07:50 3000.090088 10.71294022 3161.386371 31.54693985
13 10 2018 08:00 3057.199951 11.22317982 3345.677188 43.97140121
13 10 2018 08:10 2161.559082 9.198188782 2272.458226 38.14424896
13 10 2018 08:20 1906.505981 8.510158539 1834.261677 32.53329086
13 10 2018 08:30
                 1405.675049 7.715918064 1371.755386 33.88689041
13 10 2018 08:40 1932.738037 8.772906303 1998.748682 35.33021927
13 10 2018 08:50 1119.965942 6.933822155 986.4739881 39.59185028
                 1623.505005 8.102312088 1589.119665 34.43716049
13 10 2018 09:00
13 10 2018 09:10
                 1541.447998 7.816804886 1426.898884 35.9657402
                 2189.261963 9.173584938 2256.44136 37.23379898
13 10 2018 09:20
13 10 2018 09:30 2505.290039 10.02968979 2810.424542 35.82342911
13 10 2018 09:40 2119.268066 8.830834389 2035.560303 36.22045898
13 10 2018 09:50 1511.781982 7.831260204 1434.897996 41.24647141
13 10 2018 10:00 1445.855957 7.797516823 1416.26318 39.5868187
13 10 2018 10:10
                 1488.064941 7.687446117 1356.415128 34.5124588
13 10 2018 10:20
                 1224.092041 7.147296906 1083.698579 26.52679062
13 10 2018 10:30
                 1477.77002 7.894454002 1470.146531 31.60041046
13 10 2018 10:40
                 1800.469971 8.685806274 1943.747514 30.80075073
13 10 2018 10:50
                 1992.531982 8.733688354 1973.929938 34.13204956
                 2915.928955 10.52812004 3079.090168 30.88335991
13 10 2018 11:00
13 10 2018 11:10 2156.819092 8.912791252 2087.929943 35.16487885
13 10 2018 11:20 2409.264893 9.506934166 2445.379175 33.25046158
                             11.04265022 3287.293494 39.75952911
13 10 2018 11:30
                 2983.5
13 10 2018 11:40
                 3031.51001 11.13082981 3316.704239 38.14572144
13 10 2018 11:50
                 3011.226074 11.07989979 3299.9286
                                                     40.6599884
13 10 2018 12:00
                 3034.284912 11.05832005 3292.646642 37.77539825
13 10 2018 12:10
                 3087.324951 11.40487003 3397.414411 41.20439911
13 10 2018 12:20
                 2478.370117 10.16187
                                       2888.710283 39.45103073
13 10 2018 12:30 1396.317993 7.584866047 1301.990661 29.20144081
13 10 2018 12:40 2005.626953 9.148038864 2239.829632 27.0475502
13 10 2018 12:50 1478.608032 7.931746006 1491.155995 33.57603073
```

```
13 10 2018 13:00 1546.557007 7.949429035 1501.171088 33.68276978
                 2786.285889 10.47716999 3054.832757 42.85002899
13 10 2018 13:10
                 2822,409912 10,16102982 2888,229337 38,82666016
13 10 2018 13:20
13 10 2018 13:30
                 2230.043945 9.014152527 2153.118469 36.72153091
13 10 2018 13:40
                 2169.285889 9.06758976 2187.651516 31.02106094
13 10 2018 13:50
                 2205.437012 9.300695419 2339.356213 38.91682053
13 10 2018 14:00
                 1658.69397 7.994948864 1527.105444 36.0460701
                 2451.542969 9.516428947 2452.85317 30.14063072
13 10 2018 14:10
13 10 2018 14:20
                 1999.329956 8.692968369 1948.253539 31.63504028
                 2674.224121 10.42247009 3028.010987 38.79272842
13 10 2018 14:30
13 10 2018 14:40
                 2131.568115 9.082736969 2197.459139 37.46902847
13 10 2018 14:50
                 1909.677002 8.567456245 1869.751764 34.44960022
13 10 2018 15:00
                 1850.720947 8.462504387 1804.922702 34.39286041
13 10 2018 15:10
                 2214.843018 9.098269463 2207.524496 30.95406914
13 10 2018 15:20
                 2131.686035 9.355088234 2374.947066 33.3708992
13 10 2018 15:30
                 2374.157959 9.778188705 2646.291641 32.33036041
13 10 2018 15:40
                 1261.878052 7.374067783 1193.688935 34.85248947
13 10 2018 15:50
                 1180.560059 7.324643135 1169.096963 33.39328003
                 1203.647949 7.454885006 1234.676971 38.24610138
13 10 2018 16:00
                 1630.852051 8.094323158 1584.465508 32.18447113
13 10 2018 16:10
                 2292.954102 9.758592606 2632.63145 35.50072098
13 10 2018 16:20
                 2289.812988 9.568020821 2492.892793 36.63162994
13 10 2018 16:30
13 10 2018 16:40
                 2036.56897 8.967403412 2122.998746 34.73390961
13 10 2018 16:50
                 1752.727051 8.585183144 1880.77734 37.45550919
13 10 2018 17:00 2306.393066 9.712044716 2599.661502 38.30197144
13 10 2018 17:10 1989.119019 8.832510948 2036.628308 41.71556854
13 10 2018 17:20
                 1624.265015 8.137366295 1609.614484 41.58105087
13 10 2018 17:30 1203.677002 7.505948067 1261.051739 41.13491821
                 1579.241943 8.144194603 1613.620428 39.69704819
13 10 2018 17:40
                 1962.208984 9.089748383 2202.001648 40.85816956
13 10 2018 17:50
13 10 2018 18:00
                 1419.963013 8.040151596 1553.073063 44.98838043
13 10 2018 18:10
                 1034.093994 7.240732193 1128.146646 46.69942093
13 10 2018 18:20
                 560.7744141 6.027763844 633.3957067 43.51182938
13 10 2018 18:30
                 308.2814026 4.922534943 317.1945644 40.22169876
                 285.5690918 4.883079052 307.78697
13 10 2018 18:40
                                                     49.77185059
13 10 2018 18:50
                 490.8301086 5.745759964 542.5546756 48.36872101
13 10 2018 19:00
                 724.1928711 6.527665138 816.8549954 37.82389069
13 10 2018 19:10
                 1277.444946 7.7100811
                                         1368.602398 41.30289078
13 10 2018 19:20
                 808.4318848 6.626365185 856.3136217 40.20883179
13 10 2018 19:30
                 1384.977051 7.735745907 1382.496924 38.40246964
13 10 2018 19:40 850.4470825 6.570603848 833.8863192 35.83943939
13 10 2018 19:50 885.0142822 6.885309219 965.1838119 35.94158936
13 10 2018 20:00 822.4534302 6.440083981 782.7525961 39.15874863
13 10 2018 20:10
                 728.8834229 6.271296978 719.3996025 40.77780914
13 10 2018 20:20 878.5795898 6.717998981 893.9404417 38.44266129
13 10 2018 20:30 670.9016113 6.308137894 732.9639976 36.33581161
                 731.9550781 6.33527422 743.0490413 31.63952065
13 10 2018 20:40
                 1431.781006 7.704995155 1365.858495 35.34236908
13 10 2018 20:50
13 10 2018 21:00
                 1967.769043 9.069611549 2188.96013 37.34812927
13 10 2018 21:10
                 1788.80896 8.475378036 1812.832185 39.73270035
13 10 2018 21:20
                 1190.134033 7.37841177 1195.867389 50.76539993
13 10 2018 21:30
                 1406.494019 7.805080891 1420.428951 46.21242905
13 10 2018 21:40
                 2215.923096 9.551868439 2480.460584 52.19625092
13 10 2018 21:50
                 1878.828979 8.776088715 2000.766375 48.34677887
13 10 2018 22:00
                 1693.781982 8.278229713 1693.123491 47.74131012
13 10 2018 22:10
                 1651.008057 8.438862801 1790.429685 51.60150146
13 10 2018 22:20
                 1493.89502 7.977118015 1516.920452 45.97850037
13 10 2018 22:30 1128.319946 7.258813858 1136.887018 45.13254929
13 10 2018 22:40 997.4761963 6.972476959 1003.646892 38.32278824
```

```
13 10 2018 22:50 1099.287964 7.344223022 1178.796803 42.29545975
                 1068.453003 7.29527998 1154.653714 40.68095016
13 10 2018 23:00
                 1032.137939 7.10095787 1062.091312 40.54653168
13 10 2018 23:10
13 10 2018 23:20
                 1023.495972 7.164300919 1091.699224 50.48991013
13 10 2018 23:30
                 1068.880005 7.29501915 1154.525967 51.62913895
13 10 2018 23:40
                 880.9196777 6.895244122 969.5202224 55.47492981
13 10 2018 23:50
                 1420.328003 8.095932007 1585.402282 56.73133087
                 1095.034058 7.420427799 1217.081918 57.54764175
14 10 2018 00:00
14 10 2018 00:10
                 1106.307007 7.467208862 1241.013635 53.18357086
                 1090.495972 7.483782768 1249.572198 53.39202118
14 10 2018 00:20
14 10 2018 00:30
                 916.109375 6.796634197 927.0090164 53.68138885
                 859.2210083 6.778624058 919.3707808 52.20301819
14 10 2018 00:40
14 10 2018 00:50
                 817.8181152 6.57952404 837.4504169 47.5449295
14 10 2018 01:00
                 1342.880005 7.901413918 1474.055998 50.51612091
14 10 2018 01:10 843.8527222 6.580912113 838.005833 48.69488907
14 10 2018 01:20 469.3648071 5.754927158 545.4121168 51.11254883
14 10 2018 01:30
                 394.8192139 5.346620083 425.9403879 44.30157089
14 10 2018 01:40
                 674.2476807 6.352804184 749.6063497 47.77109909
14 10 2018 01:50
                 777.6375122 6.584531784 839.4552112 46.54951096
                 688.7540283 6.422801971 776.1232789 43.85655975
14 10 2018 02:00
14 10 2018 02:10
                 714.4121704 6.5204072 813.9965594 47.12139893
14 10 2018 02:20
                 513.6621704 5.686058998 524.1499036 44.46588898
14 10 2018 02:30
                 577.7246094 5.843567848 573.4795373 42.00130081
14 10 2018 02:40
                 470.5179138 5.685713768 524.044497 40.67309952
14 10 2018 02:50
                 839.5662231 6.7209692 895.1763243 43.21471024
14 10 2018 03:00
                 673.015686 6.231227875 704.8125453 44.14002991
14 10 2018 03:10 733.0479126 6.353388786 749.8256022 45.00635147
14 10 2018 03:20 501.2215881 5.812800884 563.6468409 53.0280304
14 10 2018 03:30 511.6572876 5.779295921 553.0489247 50.26208115
14 10 2018 03:40 477.8132019 5.718984127 534.2565349 53.45798111
14 10 2018 03:50 511.4837036 5.735025883 539.2194962 48.81549835
14 10 2018 04:00
                 630.1021118 6.091620922 655.3333186 48.08715057
14 10 2018 04:10
                 1401.895996 8.066494942 1568.302494 40.49829102
14 10 2018 04:20
                 1109.70105 7.213075161 1114.8655
                                                     42.1247406
                 681.7723999 6.24406004 709.4652778 39.5944519
14 10 2018 04:30
14 10 2018 04:40
                 1125.004028 7.323525906 1168.545157 44.92506027
14 10 2018 04:50
                 912.3582153 6.838181019 944.7769601 45.01890945
14 10 2018 05:00
                 641.4478149 6.042564869 638.4416915 43.18164825
14 10 2018 05:10
                 498.1687927 5.778781891 552.887218 45.98817825
14 10 2018 05:20
                 757.5800781 6.452330112 787.4700321 40.99932098
                                                    45.28683853
14 10 2018 05:30 882.1469116 6.868908882 958.05174
14 10 2018 05:40 656.3394775 6.110013008 661.7325923 42.05139923
14 10 2018 05:50
                 704.8410034 6.334527016 742.7702805 39.51958084
14 10 2018 06:00
                 452.2414856 5.666986942 518.3442284 35.3925209
14 10 2018 06:10
                 787.7186279 6.572966099 834.8292935 36.70455933
14 10 2018 06:20
                 648.8425903 6.073616982 649.1040987 40.82474136
14 10 2018 06:30
                 384.4354858 5.394427776 439.136601 39.17089081
                 618.8532715 6.022412777 631.577178 31.51795006
14 10 2018 06:40
14 10 2018 06:50
                 780.5192871 6.544925213 823.6762542 32.89266968
14 10 2018 07:00
                 964.9229126 6.90840292 975.2824502 40.22158051
14 10 2018 07:10
                 653.359314 6.092234135 655.546095 42.76086044
14 10 2018 07:20
                 617.8599854 6.043702126 638.8303752 44.09817123
14 10 2018 07:30
                 909.2811279 6.877852917 961.9371966 55.25444031
14 10 2018 07:40
                 903.9213867 6.978236198 1006.221541 52.98038101
14 10 2018 07:50
                 703.2059937 6.386446953 762.284386 48.40449142
14 10 2018 08:00
                 689.4151001 6.339385033 744.5837525 41.84373093
14 10 2018 08:10 575.585022 5.854575157 577.0209528 34.25091934
14 10 2018 08:20 510.6874084 5.833152771 570.1401531 37.56261063
14 10 2018 08:30 131.991394 3.86034894 102.7471899 30.65943909
```

```
14 10 2018 08:40 774.3173828 6.392168999 764.4529637 45.08192825
                 1382.852051 7.365828991 1189.564891 25.92457962
14 10 2018 08:50
14 10 2018 09:00
                 716.8657227 6.154720783 677.438791 40.81164932
14 10 2018 09:10
                 1414.95105 7.828074932 1433.1333
                                                     52.31798935
14 10 2018 09:20
                 1067.276001 6.960418224 998.2695804 49.90592957
14 10 2018 09:30
                 1210.91394 7.480254173 1247.746543 43.98794937
14 10 2018 09:40
                 1312.670044 7.517889023 1267.192687 41.49369049
                 1457.921997 7.792057037 1413.26046 50.07067871
14 10 2018 09:50
                 1018.955994 7.105142117 1064.030682 56.64342117
14 10 2018 10:00
14 10 2018 10:10
                 737.5546265 6.372292995 756.9355605 51.30315018
14 10 2018 10:20
                 1000.856995 6.91037178 976.1464449 38.68180084
14 10 2018 10:30
                 1092.531006 7.187053204 1102.465565 51.38132095
14 10 2018 10:40
                 1121.625
                             7.433093071 1223.528443 54.49126816
14 10 2018 10:50
                639.0391235 6.099351883 658.0187972 52.78192902
14 10 2018 11:00 767.0991211 6.466701984 793.0274051 52.91698837
14 10 2018 11:10 556.6392212 5.536937237 479.6885846 51.93815994
14 10 2018 11:20 921.1343994 6.853041172 951.1824383 40.03401184
14 10 2018 11:30
                 712.7529907 6.395614147 765.7603513 36.88248062
                 758.8624878 6.383879185 761.3123974 30.79891014
14 10 2018 11:40
14 10 2018 11:50 842.934082 6.595413208 843.8212287 26.20656013
14 10 2018 12:00
                 1579.057983 7.890639782 1468.006313 13.35883045
14 10 2018 12:10
                 1298.406006 7.676508904 1350.548964 28.79059982
14 10 2018 12:20
                 573.1013184 5.875150204 583.6742379 29.67032051
14 10 2018 12:30
                 1809.649048 8.561185837 1865.85684 40.65338135
14 10 2018 12:40
                 1312.88501 7.620831013 1320.919219 39.1217804
14 10 2018 12:50
                 1138.86499 6.984930038 1009.219254 25.09944916
14 10 2018 13:00 2966.031982 10.79172039 3193.839027 26.43643951
14 10 2018 13:10 2280.041016 9.855085373 2698.655867 31.40917015
14 10 2018 13:20 2138.309082 9.025713921 2160.580726 30.86074066
14 10 2018 13:30 2925.395996 10.56365967 3095.602429 26.78824997
14 10 2018 13:40 3264.813965 11.42490005 3402.703326 28.25219917
14 10 2018 13:50
                 3268.212891 11.84893036 3496.479333 34.34012985
14 10 2018 14:00 2457.145996 9.2663517
                                        2316.915065 35.96606064
14 10 2018 14:10
                 2966.771973 10.45055962 3041.886111 35.75379181
                 3285.738037 11.09737015 3305.747794 32.39986038
14 10 2018 14:20
                 2787.488037 10.34057045 2986.313576 35.1791687
14 10 2018 14:30
                 2594.280029 9.877444267 2713.51543 33.46994019
14 10 2018 14:40
14 10 2018 14:50
                 2529.324951 9.550697327 2479.555548 33.22465134
14 10 2018 15:00 2423.100098 9.631733894 2541.023367 30.45339012
                 3081.858887 10.81871033 3204.607138 27.1008606
14 10 2018 15:10
14 10 2018 15:20 2758.458984 10.64015961 3130.026653 28.85040092
14 10 2018 15:30 2574.513916 9.663269043 2564.315846 30.65929031
14 10 2018 15:40 2738.61792 10.37545967 3004.304637 27.93471909
14 10 2018 15:50
                 2423.834961 9.660515785 2562.296086 30.54692078
14 10 2018 16:00
                 2498.466064 9.723549843 2607.879348 30.79847908
14 10 2018 16:10
                 2409.245117 9.691856384 2585.131588 32.67045975
                 2580.843018 9.904850006 2731.507036 30.68700027
14 10 2018 16:20
                             10.07338047 2836.890375 30.89678955
14 10 2018 16:30
                 2593.9729
14 10 2018 16:40 2208.500977 9.500558853 2440.342242 32.38861084
14 10 2018 16:50
                 2244.60498 9.093678474 2204.548589 30.73804092
14 10 2018 17:00
                 2019.66394 8.830401421 2035.284516 33.29325104
14 10 2018 17:10
                 1822.244019 8.450118065 1797.324267 31.98999023
14 10 2018 17:20
                 1580.760986 8.215149879 1655.505315 35.76198959
14 10 2018 17:30
                 1503.82605 8.027150154 1545.58263 40.86573029
14 10 2018 17:40
                 1716.381958 8.391048431 1761.248579 43.53013992
14 10 2018 17:50 1645.204956 8.25981617 1682.106262 47.15832901
14 10 2018 18:00 1318.760986 7.615635872 1318.174666 50.36611176
14 10 2018 18:10 1714.708008 8.398844719 1765.994518 46.61782074
14 10 2018 18:20 1367.584961 7.919175148 1484.056857 47.71092987
```

```
14 10 2018 18:30 1548.125977 8.166109085 1626.506681 47.30747986
                 725.4318848 6.396411896 766.0632709 44.00133133
14 10 2018 18:40
                 1026.760986 7.111559868 1067.009755 47.29608917
14 10 2018 18:50
14 10 2018 19:00
                 1244.503052 7.52594614 1271.34714 51.77246094
14 10 2018 19:10
                 1206.837036 7.496575832 1256.207276 54.16868973
14 10 2018 19:20
                 1007.705017 7.138616085 1079.629078 57.53926086
14 10 2018 19:30
                 1081.880005 7.39447403 1203.946555 55.64823151
14 10 2018 19:40 983.006897 7.139356136 1079.975615 54.72843933
14 10 2018 19:50
                 1464.017944 8.116397858 1597.340825 55.99731064
                 1013.702026 7.158277988 1088.860897 55.8373909
14 10 2018 20:00
14 10 2018 20:10
                 1198.581055 7.616306782 1318.528907 54.97204971
14 10 2018 20:20
                 1457.983032 8.186307907 1638.423812 56.23342133
14 10 2018 20:30
                 1273.060059 7.764307976 1398.053572 57.64110947
14 10 2018 20:40 957.9152832 7.154479027 1087.073135 57.91981888
                 1192.166992 7.591923237 1305.691674 59.64123154
14 10 2018 20:50
14 10 2018 21:00
                 1344.848022 7.808896065 1422.532617 58.81438065
14 10 2018 21:10
                 1138.375
                           7.445590019 1229.912965 57.85435104
14 10 2018 21:20 996.7133179 7.166945934 1092.947242 56.7493515
14 10 2018 21:30
                 708.317627 6.54895401 825.2732496 59.19458008
14 10 2018 21:40 645.2432251 6.3827281
                                         760.8769055 59.58731842
14 10 2018 21:50
                 491.282196 5.878456116 584.7473581 59.9967308
14 10 2018 22:00 552.6317139 6.029551983 634.0040778 63.77605057
14 10 2018 22:10
                 409.5708923 5.478497028 462.8354044 64.3291626
14 10 2018 22:20
                 369.2832031 5.353172779 427.7372583 65.07286072
14 10 2018 22:30
                 379.7486877 5.419754028 446.2091827 63.15402985
14 10 2018 22:40 436.6362915 5.78942585 556.241105 60.96908951
14 10 2018 22:50 409.4006042 5.599799156 498.1723713 63.37541962
14 10 2018 23:00 407.6812134 5.662201881 516.8931855 64.55098724
14 10 2018 23:10 427.1704102 5.743991852 542.0045161 61.78594971
14 10 2018 23:20 443.3313904 5.734972
                                       539.2027833 62.00053024
14 10 2018 23:30 486.4432983 5.979969978 618.2589013 60.88607025
14 10 2018 23:40 551.4868774 6.265993118 717.4588297 60.4444313
14 10 2018 23:50
                 842.0786743 7.066774845 1046.333747 60.77075958
15 10 2018 00:00
                 1209.468018 7.864109039 1453.164379 59.71815109
15 10 2018 00:10 1419.402954 8.217048645 1656.632499 61.08533096
                 1361.869995 8.08313942 1577.960642 59.84012985
15 10 2018 00:20
15 10 2018 00:30
                 1102.031006 7.623869896 1322.526243 59.00616074
15 10 2018 00:40
                 820.5280762 6.714033127 892.2918858 59.73205185
15 10 2018 00:50
                 748.6973267 6.660096169 870.0519376 58.31079102
15 10 2018 01:00 898.0977783 7.1394701 1080.028987 61.41899872
15 10 2018 01:10
                 1196.310059 7.730622768 1379.71694 59.60084915
15 10 2018 01:20 1201.411011 7.599912167 1309.889139 54.87501144
15 10 2018 01:30 1309.879028 7.879563808 1461.800579 56.03327942
15 10 2018 01:40
                 1321.391968 7.897909164 1472.086667 56.31460953
15 10 2018 01:50 977.0172119 7.201697826 1109.432598 59.76869965
                 1004.937988 7.285602093 1149.920237 59.87239075
15 10 2018 02:00
                 1266.574951 7.860886097 1451.366768 55.40496063
15 10 2018 02:10
                 1686.175049 8.589471817 1883.447916 53.0574913
15 10 2018 02:20
15 10 2018 02:30
                 1767.973999 8.832567215 2036.664153 53.3742485
15 10 2018 02:40
                 1449.739014 8.215035439 1655.437389 51.73136902
15 10 2018 02:50
                 1496.352051 8.25757885 1680.769635 53.9215889
15 10 2018 03:00
                 1704.987061 8.614665031 1899.16029 51.62459946
15 10 2018 03:10
                 1797.44104 8.709442139 1958.629572 50.57081985
15 10 2018 03:20 2242.476074 9.68126297 2577.45108 52.58414078
15 10 2018 03:30
                 1929.583984 9.018083572 2155.655166 50.6897316
15 10 2018 03:40 1535.979004 8.016111374 1539.236496 49.99634171
15 10 2018 03:50 1117.911011 7.213116169 1114.885115 50.84365082
15 10 2018 04:00 1550.19104 8.362195015 1743.726244 51.12297058
15 10 2018 04:10 1369.706055 7.761834145 1396.702308 49.47671127
```

```
15 10 2018 04:20 1471.901001 8.077383995 1574.617884 53.31579971
                 1551.083008 8.230755806 1664.779234 54.47903061
15 10 2018 04:30
15 10 2018 04:40
                 1914.616943 8.948932648 2111.12331 55.56890869
15 10 2018 04:50
                 1541.937988 8.249566078 1675.986217 58.34246063
15 10 2018 05:00
                 1710.515015 8.603045464 1891.908297 60.73345947
15 10 2018 05:10
                 1646.125977 8.53685379 1850.76825 63.05432892
15 10 2018 05:20
                 1641.385986 8.394007683 1763.04944 62.79064941
                 1391.718994 7.823132992 1430.397691 64.23856354
15 10 2018 05:30
                 1666.911987 8.507598877 1832.681604 62.88433838
15 10 2018 05:40
15 10 2018 05:50
                 1823.442993 8.586606979 1881.663834 62.4092598
15 10 2018 06:00
                 1811.988037 8.693451881 1948.557851 58.61159897
15 10 2018 06:10 2135.760986 9.293010712 2334.332592 60.04993057
15 10 2018 06:20 2404.153076 9.834589005 2684.890059 60.58570099
15 10 2018 06:30 2210.989014 9.404431343 2407.278238 57.79241943
15 10 2018 06:40 2679.785889 10.49055958 3061.274873 58.58372116
15 10 2018 06:50 1645.119995 8.405654907 1770.14408 55.18159866
15 10 2018 07:00
                 1221.563965 7.438913822 1226.499253 55.02899933
15 10 2018 07:10 1267.401978 7.713572979 1370.488126 57.77338028
15 10 2018 07:20 1527.074951 8.115362167 1596.735689 52.76713943
15 10 2018 07:30 1299.636963 7.751999855 1391.337819 54.56914902
15 10 2018 07:40 1243.008057 7.605312824 1312.731388 52.16424179
15 10 2018 07:50 849.1226196 6.73074913 899.2529431 55.09830093
15 10 2018 08:00 594.7531738 6.074265003 649.3277082 45.67517853
15 10 2018 08:10
                 1059.421021 7.202664852 1109.893682 53.4405098
15 10 2018 08:20 983.4144287 7.069769859 1047.708276 53.11751938
15 10 2018 08:30 690.1901855 6.282317162 723.4417633 52.42380905
15 10 2018 08:40 1073.39502 7.207817078 1112.352455 51.59698105
15 10 2018 08:50 603.2438965 6.136654854 671.06636
                                                    51.29344177
                 723.5449829 6.439176083 782.4035136 52.70055008
15 10 2018 09:00
                 1005.411011 7.076178074 1050.653181 52.44641113
15 10 2018 09:10
15 10 2018 09:20 976.3568726 6.991079807 1011.978305 49.17100906
15 10 2018 09:30
                 1377.427002 7.876755238 1460.229145 55.04959869
15 10 2018 09:40
                 1295.276978 7.737803936 1383.614573 51.2476387
15 10 2018 09:50 973.5396729 6.959610939 997.9102419 54.7924881
15 10 2018 10:00 651.1989136 6.107557774 660.8762368 58.94609833
15 10 2018 10:10
                 1170.635986 7.604959011 1312.545068 59.16743088
15 10 2018 10:20
                 955.9331055 7.122834206 1072.256414 59.85760117
15 10 2018 10:30
                 927.6015015 6.979791164 1006.9174
                                                     56.4510498
15 10 2018 10:40
                 722.1293945 6.412221909 772.0809643 52.87628174
15 10 2018 10:50
                 986.0637817 6.885690212 965.3498859 49.72766113
15 10 2018 11:00 895.9614868 6.782560825 921.0371058 53.85889816
15 10 2018 11:10 812.5620728 6.544508934 823.5113469 50.06277084
15 10 2018 11:20
                 981.3151855 6.941587925 989.9090607 46.60911942
15 10 2018 11:30
                 792.9058838 6.475603104 796.4807532 45.20872879
15 10 2018 11:40
                 735.7354126 6.385624886 761.973127 46.89480972
15 10 2018 11:50
                 1114.579956 7.250585079 1132.903709 40.12659836
                 1556.656006 8.299017906 1705.596625 40.79962921
15 10 2018 12:00
                 1394.45105 7.840434074 1439.986977 45.20790863
15 10 2018 12:10
                 1015.328003 7.124090195 1072.841948 43.39400101
15 10 2018 12:20
15 10 2018 12:30
                 923.3839722 6.878479958 962.2099606 50.77021027
15 10 2018 12:40
                 927.7927246 6.911183834 976.5029374 52.19416046
15 10 2018 12:50
                 991.4365845 6.897418976 970.471122 45.57242966
15 10 2018 13:00
                 852.9047852 6.721103191 895.2321011 48.2695694
15 10 2018 13:10
                 1009.559998 6.947920799 992.7158709 46.05149841
15 10 2018 13:20
                 1309.281982 7.585711956 1302.43394 43.41812134
15 10 2018 13:30
                 1279.105957 7.711455822 1369.344614 50.95761108
15 10 2018 13:40
                 1362.660034 7.724783897 1376.552456 45.96020889
15 10 2018 13:50 1431.807983 7.921883106 1485.584668 46.8028717
15 10 2018 14:00 1638.712036 8.347564697 1734.867039 44.22723007
```

```
15 10 2018 14:10 1664.612061 8.442170143 1792.454654 43.89939117
                 1831.150024 8.663718224 1929.870357 42.36170959
15 10 2018 14:20
15 10 2018 14:30
                 1933.073975 8.946434975 2109.518601 41.65893173
15 10 2018 14:40
                 1937.447021 8.89436245 2076.12618 43.43619156
15 10 2018 14:50
                 1444.511963 7.947103977 1499.852328 42.59661102
15 10 2018 15:00
                 2074.646973 9.131280899 2228.943261 44.6803894
15 10 2018 15:10
                 1746.906982 8.594938278 1886.853672 44.84186935
                 1491.706055 8.027050018 1545.525007 44.94124985
15 10 2018 15:20
15 10 2018 15:30
                 1691.957031 8.524348259 1843.029406 43.29375076
                 1316.401001 7.671156883 1347.683845 43.19441986
15 10 2018 15:40
15 10 2018 15:50
                 901.0994263 6.826393127 939.7147159 42.51274109
15 10 2018 16:00 845.7783203 6.681428909 878.8079364 44.39400101
15 10 2018 16:10 680.3134155 6.175993919 684.987263 46.70964813
15 10 2018 16:20 998.3886108 7.068026066 1046.907839 52.15890884
15 10 2018 16:30 1248.386963 7.660427094 1341.950619 51.75997162
15 10 2018 16:40 853.053772 6.799592018 928.2671368 51.41564178
15 10 2018 16:50
                 751.0217896 6.448422909 785.963113 52.22594833
15 10 2018 17:00
                 635.1444702 6.156700134 678.1390929 50.69873047
15 10 2018 17:10 842.1834106 6.740684986 903.406007 52.67591095
15 10 2018 17:20
                 855.5501709 6.7446208
                                         905.0543259 54.34780121
15 10 2018 17:30
                             6.915710926 978.4918265 57.99195099
                 888.74823
15 10 2018 17:40
                 771.6508179 6.684258938 879.9734587 58.58483124
15 10 2018 17:50
                 603.9356079 6.255390167 713.5881044 57.09674835
15 10 2018 18:00
                 618.3585815 6.238965988 707.6161413 57.43350983
15 10 2018 18:10
                 660.5006714 6.438092232 781.9868967 58.68624878
15 10 2018 18:20
                 876.3983154 6.951982021 994.5184891 59.99081039
15 10 2018 18:30
                 924.5205078 7.153831005 1086.768374 60.75880814
15 10 2018 18:40 818.5535889 6.76488018 913.5677543 61.65171051
15 10 2018 18:50 590.7874756 6.171702862 683.460743 61.73786926
                 549.1456299 6.084465981 652.8536193 59.13677979
15 10 2018 19:00
15 10 2018 19:10 630.3712158 6.300343037 730.0818081 59.28969955
15 10 2018 19:20
                 636.6348877 6.33026886 741.1828364 59.69997025
15 10 2018 19:30
                 689.2072754 6.466874123 793.0941062 62.66817093
15 10 2018 19:40
                 663.6011963 6.409690857 771.1157442 62.45991898
                 538.222229 6.000851154 624.2806146 63.875
15 10 2018 19:50
                 426.9486084 5.69666481 527.3937935 61.68531036
15 10 2018 20:00
15 10 2018 20:10
                 585.1473999 6.277647972 721.7275253 67.30296326
15 10 2018 20:20
                 588.2570801 6.186440945 688.7119757 66.81848145
15 10 2018 20:30 491.9436035 5.922150135 599.0380641 69.3839035
                 392.8205872 5.538822174 480.2374327 64.14788055
15 10 2018 20:40
15 10 2018 20:50 440.4742126 5.699324131 528.2089046 68.85228729
15 10 2018 21:00 484.9151001 5.890007019 588.5057964 69.2158432
15 10 2018 21:10 441.041687 5.807504177 561.9638556 72.84417725
15 10 2018 21:20
                 284.6882019 5.109231949 363.2946257 70.94468689
                 257.504303 4.99194622 334.0235158 70.15892792
15 10 2018 21:30
                 196.9160004 4.649096012 254.2428612 69.74285126
15 10 2018 21:40
15 10 2018 21:50
                 170.3641968 4.490184784 219.9250357 72.22319031
                 142.5023956 4.326100826 186.0703138 70.34561157
15 10 2018 22:00
                 137.4411011 4.312510967 183.3340352 62.36262894
15 10 2018 22:10
15 10 2018 22:20
                 100.338501 4.036451817 129.7973535 59.82535934
15 10 2018 22:30
                 92.79679108 3.85333395 101.5609928 62.05141068
15 10 2018 22:40
                 82.77438354 3.937177896 116.2538855 61.84812164
15 10 2018 22:50
                 92.32385254 3.960551023 120.5502942 63.34970093
15 10 2018 23:00
                 179.642807 4.539463997 230.3999449 66.14053345
15 10 2018 23:10
                 204.6490021 4.656672001 255.9187717 73.20883942
15 10 2018 23:20 145.5646057 4.304474831 181.7206801 73.89787292
15 10 2018 23:30 67.41583252 3.883234978 106.6718414 72.06461334
15 10 2018 23:40 50.28319168 3.69333005 76.64308619 75.46579742
15 10 2018 23:50 22.29174042 3.059721947 18.19643917 76.22527313
```

```
16 10 2018 00:00 156.0332031 4.468867779 215.4389769 70.1687088
                 62.69498825 3.799530983 92.72497487 73.4213028
16 10 2018 00:10
16 10 2018 00:20
                 35.22972107 3.330521107 35.31621157 75.61888885
16 10 2018 00:30 45.7820816 3.575903893 60.96214803 81.66236115
16 10 2018 00:40 43.76705933 3.601896048 64.24298169 80.66307831
                 116.4672012 4.154656887 152.2604682 77.36451721
16 10 2018 00:50
16 10 2018 01:00
                 84.85852051 4.002196789 123.4079752 72.98683167
                 162.1134949 4.502129078 222.4504899 75.79219055
16 10 2018 01:10
16 10 2018 01:20
                 102.243103 3.982918024 124.7436041 80.94779968
16 10 2018 01:30
                 0.002399999 2.914932013 0
                                               88.97579193
16 10 2018 01:40
                       4.515705109 225.3313609 74.72073364
                 Θ
16 10 2018 01:50
                 77.00347137 4.709153175 267.6315262 76.47814178
16 10 2018 02:00
                 211.429306 4.766255856 280.5845331 67.8826828
16 10 2018 02:10
                 286.9414063 5.089968204 358.413274 61.31523895
16 10 2018 02:20
                 297.5426941 5.152966022 374.4865289 60.47863007
16 10 2018 02:30
                 350.0470886 5.353608131 427.8567727 63.5521698
16 10 2018 02:40
                 377.2200928 5.500156879 469.0450303 57.97467041
16 10 2018 02:50
                 350.2369995 5.333851814 422.4498273 55.58806992
16 10 2018 03:00 405.2897034 5.563735008 487.5226543 58.04655075
                 367.0114136 5.439630032 451.7998834 61.2461586
16 10 2018 03:10
16 10 2018 03:20
                 379.6516113 5.472324848 461.0737699 55.87210083
                 415.6705017 5.523356915 475.7440959 55.12406921
16 10 2018 03:30
16 10 2018 03:40
                 356.8182983 5.313942909 417.0353481 56.06024933
16 10 2018 03:50
                 402.776001 5.625895977 505.9558712 58.11410904
16 10 2018 04:00
                 421.2369995 5.659505844 516.0766077 46.89239883
16 10 2018 04:10
                 324.8497009 5.18762207 383.4650461 42.92150879
16 10 2018 04:20 575.9829102 6.150400162 675.9115943 55.96884918
16 10 2018 04:30 736.5562134 6.633028984 859.0174198 61.89982986
16 10 2018 04:40 437.1404114 5.621837139 504.7410231 58.62781143
16 10 2018 04:50 642.253479 6.463703156 791.8659257 57.31966019
16 10 2018 05:00 667.1826172 6.370875835 756.4012127 55.05831146
16 10 2018 05:10 561.1605835 6.05949688 644.2428866 58.84561157
16 10 2018 05:20
                 655.847229 6.329679966 740.9634508 56.20782852
16 10 2018 05:30
                 791.9110718 6.664063931 871.6765373 58.75894165
                 589.4020996 6.13555479 670.6794596 64.85044098
16 10 2018 05:40
16 10 2018 05:50
                 570.6832275 6.066381931 646.6105835 62.59334946
16 10 2018 06:00
                 517.4909058 5.90540123 593.5364502 59.90242004
                 460.1382141 5.71709919 533.6750527 57.79547882
16 10 2018 06:10
16 10 2018 06:20
                 259.0874023 4.842649937 298.263998 54.27957153
16 10 2018 06:30 272.9784851 4.975607872 330.0297961 58.89999008
16 10 2018 06:40 279.2445068 4.92474699 317.7253601 54.85276031
16 10 2018 06:50 241.4862976 4.752342224 277.4080449 54.34283066
16 10 2018 07:00 311.6278076 5.180006981 381.4837696 55.96115875
16 10 2018 07:10
                 117.7825012 4.011553764 125.1480862 49.08924866
16 10 2018 07:20
                 173.7653046 4.323542118 185.5543595 53.31283951
16 10 2018 07:30
                 227.2006073 4.604222775 244.3920528 52.97917938
                 316.667511 5.044540882 347.0176767 55.31037903
16 10 2018 07:40
16 10 2018 07:50
                 330.8858948 5.25744915 401.8560156 58.05385971
16 10 2018 08:00 208.0140076 4.523146152 226.9150968 49.56827927
16 10 2018 08:10
                 421.48349
                             5.429281235 448.8845606 45.02037048
16 10 2018 08:20
                 444.7005005 5.535973072 479.4079712 44.60610962
16 10 2018 08:30
                 468.832489 5.657128811 515.3572356 46.41617966
16 10 2018 08:40
                 582.9672852 5.955914021 610.2188217 43.21747971
16 10 2018 08:50
                 633.7338867 6.042651176 638.4711842 40.47468185
16 10 2018 09:00
                 581.5775757 5.921998978 598.9882804 42.24213028
16 10 2018 09:10
                 712.034729 6.29840517 729.3662902 41.10897064
16 10 2018 09:20 869.3972168 6.841843128 946.353039 44.52748871
16 10 2018 09:30 795.0136719 6.598466873 845.0488744 45.18865967
16 10 2018 09:40 651.1038208 6.243927002 709.4169498 46.39871979
```

```
16 10 2018 09:50 538.1868896 5.979893208 618.2331441 46.95318985
16 10 2018 10:00 645.0599976 6.292757034 727.2831424 45.44953918
                 654,4904785 6,449366093 786,3267236 45,67652893
16 10 2018 10:10
16 10 2018 10:20
                 736.9124146 6.522656918 814.8819507 46.38077927
16 10 2018 10:30
                 1155.357056 7.638597965 1330.331474 49.5798111
16 10 2018 10:40
                 1188.692017 7.543045044 1280.192617 49.01025009
                 1266.107056 7.760540962 1395.996233 48.13010025
16 10 2018 10:50
                 1314.078003 7.872982025 1458.119371 47.99679947
16 10 2018 11:00
16 10 2018 11:10
                 1410.394043 8.171276093 1629.551566 46.04603958
                 1379.822998 8.163767815 1625.127806 45.64653015
16 10 2018 11:20
16 10 2018 11:30
                 1503.380005 8.247369766 1674.676061 45.67676926
16 10 2018 11:40
                 1296.102051 7.764276981 1398.036638 44.810009
16 10 2018 11:50
                 1490.567017 8.396614075 1764.63614 40.02843857
16 10 2018 12:00
                 1633.582031 8.663908005 1929.989463 40.46160126
16 10 2018 12:10 1393.38501 8.126601219 1603.307991 42.13404083
16 10 2018 12:20 1319.746948 7.925990105 1487.903333 42.8935585
16 10 2018 12:30
                 1986.790039 9.168287277 2252.994889 40.50194931
16 10 2018 12:40 2258.731934 9.680729866 2577.063539 42.09415054
16 10 2018 12:50 2185.934082 9.552266121 2480.767801 41.64545822
                 1910.093994 9.173128128 2256.144143 41.38341141
16 10 2018 13:00
16 10 2018 13:10
                 1840.795044 8.930582047 2099.339748 44.02999115
                 1678.265991 8.661315918 1928.362869 45.00883102
16 10 2018 13:20
16 10 2018 13:30
                 1290.142944 7.771156788 1401.79835 43.59917068
16 10 2018 13:40
                 966.7150879 7.039662838 1033.94391 39.37305069
16 10 2018 13:50
                 905.6900024 6.89414978 969.041969 33.49111176
16 10 2018 14:00
                 1226.567017 7.801516056 1418.464852 40.6125412
16 10 2018 14:10
                 1386.55896 8.090419769 1582.19376 42.51987076
16 10 2018 14:20
                 1451.45105 8.273424149 1690.245381 39.47583008
                 1803.098999 8.966013908 2122.104886 44.98286057
16 10 2018 14:30
                 2053.300049 9.41534996 2414.437378 42.45738983
16 10 2018 14:40
16 10 2018 14:50
                 2119.61792 9.523889542 2458.702858 40.26634979
16 10 2018 15:00
                 1914.619995 9.042042732 2171.128805 39.79957962
16 10 2018 15:10
                 1618.213989 8.489023209 1821.228995 38.5373497
16 10 2018 15:20
                 1717.020996 8.70705986 1957.128099 36.42313004
16 10 2018 15:30 2075.689941 9.325323105 2355.463857 36.21654129
16 10 2018 15:40
                 2158.418945 9.47565937 2454.007729 39.84590912
                 2405.656006 9.839256287 2688.036873 40.91601181
16 10 2018 15:50
                 2101.327881 9.225278854 2290.112695 44.43357849
16 10 2018 16:00
16 10 2018 16:10 2070.695068 9.191351891 2268.005775 38.6055603
16 10 2018 16:20 2163.5271
                             9.325117111 2355.329078 41.18278885
16 10 2018 16:30 2056.075928 9.124009132 2224.222093 40.18162918
16 10 2018 16:40 2161.291992 9.413060188 2412.935881 44.76519012
16 10 2018 16:50 1547.899048 8.268825531 1687.493085 41.34832001
16 10 2018 17:00 2195.98999 9.304274559 2341.696377 39.43774033
16 10 2018 17:10
                 1874.133057 8.69582653 1950.052605 39.46757889
16 10 2018 17:20
                 1951.688965 8.985263824 2134.495428 41.35366821
                 1569.369995 8.196483612 1644.441653 47.16355896
16 10 2018 17:30
                 1258.165039 7.559749126 1288.871469 47.95055008
16 10 2018 17:40
16 10 2018 17:50 1339.927002 7.810301781 1423.308149 46.84408951
16 10 2018 18:00
                 1583.511963 8.306471825 1710.078017 45.66376114
16 10 2018 18:10
                 1892.159058 8.794662476 2012.553309 46.21691132
16 10 2018 18:20
                 2019.194946 9.12681675 2226.044729 47.72499847
16 10 2018 18:30
                 2228.521973 9.759277344 2633.110957 46.7188797
16 10 2018 18:40
                 2277.36499 9.878065109 2713.925708 47.35319901
16 10 2018 18:50
                 2444.408936 10.13747025 2874.657351 45.01734924
16 10 2018 19:00 2510.5979 10.24112988 2933.143075 47.32786179
16 10 2018 19:10 3020.48291 11.58417034 3441.930044 49.40929031
16 10 2018 19:20 3159.894043 11.92967033 3510.587748 50.36481094
16 10 2018 19:30 3231.832031 12.01255989 3523.889573 49.45975113
```

```
12.42518997 3573.109761 50.84527969
16 10 2018 19:40 3374.2229
                 3262.393066 12.05879974 3530.798838 53.36817932
16 10 2018 19:50
16 10 2018 20:00
                 2864.696045 10.91267967 3240.732781 52.68729019
16 10 2018 20:10 3015.687988 11.20168018 3339.096495 52.73891068
16 10 2018 20:20 2898.349121 11.12143993 3313.654411 54.98112106
16 10 2018 20:30 2976.636963 11.15719986 3325.165925 52.66358948
16 10 2018 20:40 2480.316895 10.21500969 2918.704046 54.32564926
16 10 2018 20:50 2156.24707 9.583006859 2504.343575 52.43592072
16 10 2018 21:00 1946.040039 9.264812469 2315.909904 49.68180084
16 10 2018 21:10 2239.614014 9.74907589 2625.950676 50.29301071
16 10 2018 21:20 2165.342041 9.444367409 2433.471146 51.32682037
16 10 2018 21:30 2017.512939 9.259163857 2312.221667 49.91859055
16 10 2018 21:40 1902.521973 9.051977158 2177.551126 50.70286942
16 10 2018 21:50 2338.344971 9.874194145 2711.365566 49.91310883
16 10 2018 22:00 2781.035889 10.67529011 3145.331018 50.25574112
16 10 2018 22:10 2940.352051 11.15822029 3325.490313 52.72932053
16 10 2018 22:20 3305.887939 12.18572044 3547.92179 55.79047012
16 10 2018 22:30 3506.160889 12.59920979 3585.800243 60.08795166
16 10 2018 22:40 3308.437012 12.07828999 3533.602809 63.36996078
16 10 2018 22:50 3133.275879 11.68535995 3464.311364 68.07440186
16 10 2018 23:00 3011.352051 11.55370998 3434.810975 77.18945313
16 10 2018 23:10 2720.186035 10.80134964 3197.701098 72.05615234
16 10 2018 23:20 2138.844971 9.648219109 2553.243088 70.62014771
16 10 2018 23:30 1883.162964 9.308480263 2344.446545 70.83364105
16 10 2018 23:40 1576.345947 8.496481895 1825.824569 71.31526947
16 10 2018 23:50 1741.901978 9.036652565 2167.645753 75.30317688
17 10 2018 00:00 917.1751709 7.339613914 1176.508474 77.27693176
17 10 2018 00:10 531.1030884 6.230062962 704.3910424 77.37210083
17 10 2018 00:20 200.892395 4.238084793 168.5232879 79.5319519
17 10 2018 00:30 163.8489075 3.953974962 119.3326571 86.15335846
17 10 2018 00:40 350.27771 5.052320004 348.9576745 79.00846863
17 10 2018 00:50 309.9885864 4.938088894 320.9344875 75.37867737
17 10 2018 01:00 151.3105011 3.867571115 103.9766469 94.61366272
17 10 2018 01:10 424.4147034 5.541443825 481.0013448 119.5384979
                 202.8184052 4.727615833 271.7954649 128.2310028
17 10 2018 01:20
17 10 2018 01:30 67.89871216 3.985074997 125.1522199 130.2514954
17 10 2018 01:40 0.3156012
                             2.346671104 0
                                               119.8240967
17 10 2018 01:50 0
                       2.437902927 0
                                         59.76094055
                       3.214406013 26.53858752 48.49304962
17 10 2018 02:00 0
17 10 2018 02:10 205.4586029 4.987186909 332.8580764 46.81187057
17 10 2018 02:20 549.7529297 6.163105965 680.4083729 49.60705185
17 10 2018 02:30 767.4160767 6.721196175 895.2708087 50.9777298
17 10 2018 02:40 1033.660034 7.406196117 1209.866757 57.1877594
17 10 2018 02:50
                 1203.277954 7.795917034 1415.382982 61.42481995
17 10 2018 03:00 1038.659058 7.392545223 1202.97437 64.48999023
17 10 2018 03:10 1331.58606 7.968352795 1511.926024 62.89237976
17 10 2018 03:20 1830.66394 9.075263023 2192.618846 59.77724838
17 10 2018 03:30 1773.904053 8.896812439 2077.694507 59.80133057
17 10 2018 03:40 1745.746948 8.628474236 1907.790222 58.86880112
17 10 2018 03:50 2169.63208 9.637507439 2545.313878 60.90616989
17 10 2018 04:00 2104.018066 9.538169861 2469.843331 62.27754974
17 10 2018 04:10 1741.581055 8.800833702 2016.473656 65.32840729
17 10 2018 04:20 2189.822021 9.759293556 2633.122308 64.82486725
17 10 2018 04:30 2017.551025 9.384116173 2393.962492 64.35018158
17 10 2018 04:40 1866.152954 8.885828018 2070.66518 65.32010651
17 10 2018 04:50 1964.012939 9.141077042 2235.306009 65.78465271
17 10 2018 05:00 2307.558105 9.958870888 2766.262772 66.68084717
17 10 2018 05:10 2386.280029 9.993166924 2787.846061 70.25862885
17 10 2018 05:20 3035.230957 11.54156971 3431.923682 68.21885681
```

```
17 10 2018 05:30 3403.4021
                             12.36740017 3567.86357 67.40219116
17 10 2018 05:40
                 3194.947021 11.82575035 3492.21546 65.18683624
17 10 2018 05:50
                 2952,409912 11,46189022 3412,259147 65,42739868
17 10 2018 06:00 2981.878906 11.33570004 3378.523915 64.91998291
17 10 2018 06:10 2015.067993 9.686019897 2580.90478 63.25775146
17 10 2018 06:20
                 1488.166016 8.373669624 1750.686664 58.92440033
                 1608.727051 8.43772316 1789.732116 60.49319839
17 10 2018 06:30
                 1559.235962 8.370786667 1748.936886 61.95837021
17 10 2018 06:40
17 10 2018 06:50
                 1293.879028 7.865470886 1453.924308 62.35084915
17 10 2018 07:00
                 1108.80896 7.425992012 1219.911093 62.05018997
17 10 2018 07:10
                 1549.887939 8.23972702 1670.120287 63.75730896
17 10 2018 07:20 2025.130005 9.274189949 2322.034506 64.13215637
17 10 2018 07:30 1940.176025 9.023097038 2158.891217 63.16447067
17 10 2018 07:40 2258.781006 9.639868736 2547.065263 63.17868042
17 10 2018 07:50 1856.421021 8.792188644 2010.982346 63.78321075
17 10 2018 08:00 1594.771973 8.39678669 1764.741242 60.62329102
17 10 2018 08:10
                 1594.73999 8.393427849 1762.696526 59.94709015
17 10 2018 08:20 1748.217041 8.68072319 1940.551365 62.65116882
17 10 2018 08:30 1656.56604 8.529466629 1846.195501 62.27610016
17 10 2018 08:40 1348.394043 7.916584969 1482.596245 63.36341858
17 10 2018 08:50 1410.93103 7.993844986 1526.473941 60.34558868
17 10 2018 09:00 1558.005005 8.205982208 1650.067601 59.87792969
17 10 2018 09:10
                 1337.250977 7.857312202 1449.374782 61.24235916
17 10 2018 09:20
                 1229.72998 7.649703979 1336.235423 60.98826981
17 10 2018 09:30 1302.376953 7.840655804 1440.110095 63.50027084
17 10 2018 09:40 1123.578003 7.430743217 1222.330565 60.92184067
17 10 2018 09:50 1071.005981 7.277225018 1145.833696 57.79547119
17 10 2018 10:00 856.3181763 6.756894112 910.2060689 56.00944138
17 10 2018 10:10 818.0632935 6.7385149 902.4979516 57.79201889
17 10 2018 10:20 545.4458008 6.013308048 628.4900259 53.89210129
17 10 2018 10:30 573.6506958 5.960652828 611.7977523 48.48598099
17 10 2018 10:40 579.1442871 6.001646996 624.5490475 48.47579956
17 10 2018 10:50
                 709.0178223 6.353654861 749.9254048 44.40739822
17 10 2018 11:00
                 1044.890991 7.128867149 1075.070849 44.91944122
17 10 2018 11:10 884.5717163 6.837645054 944.54643
                                                   42.86093903
17 10 2018 11:20 912.9744263 6.848248005 949.1134259 41.90618134
                 831.5875854 6.656917095 868.7515709 37.51050949
17 10 2018 11:30
                 782.0172729 6.50977993 809.8217467 37.75883102
17 10 2018 11:40
17 10 2018 11:50 907.1386719 7.020471096 1025.230809 38.87805939
17 10 2018 12:00 874.5701904 6.821712017 937.7090714 44.40007019
17 10 2018 12:10 847.9296265 6.750383854 907.4711727 47.91688919
17 10 2018 12:20 773.307373 6.569886208 833.5999727 45.51293182
17 10 2018 12:30 963.3764038 7.02205801 1025.949481 43.85103989
17 10 2018 12:40 991.0371704 7.097238064 1060.369142 37.84587097
17 10 2018 12:50
                 1437.456055 8.129665375 1605.101934 40.1833992
                 1251.655029 7.724716187 1376.515783 40.70103073
17 10 2018 13:00
                 965.6035767 7.059943199 1043.202801 39.44918823
17 10 2018 13:10
                 966.5783081 7.101941109 1062.546829 36.94165039
17 10 2018 13:20
17 10 2018 13:30
                 894.6525269 6.971466064 1003.195405 38.84994125
17 10 2018 13:40
                 1079.833008 7.37882185 1196.073182 41.15565872
17 10 2018 13:50
                 1229.426025 7.536774158 1276.944069 44.30200958
17 10 2018 14:00
                 1356.665039 7.937872887 1494.622243 41.66838074
17 10 2018 14:10
                 1637.597046 8.365169525 1745.529544 39.79056931
17 10 2018 14:20
                 1602.147949 8.30415535 1708.684819 42.79150009
17 10 2018 14:30
                 1686.829956 8.405778885 1770.219655 48.32921982
17 10 2018 14:40 2136.070068 8.905427933 2083.211811 44.65813065
17 10 2018 14:50 2099.978027 9.008318901 2149.355156 48.04919815
17 10 2018 15:00 2029.590942 8.861598969 2055.180439 46.79801178
17 10 2018 15:10 1768.984985 8.431821823 1786.121512 49.00894165
```

```
17 10 2018 15:20 1935.100952 8.405569077 1770.091759 46.08757019
                 1976.860962 8.78247261 2004.815511 45.00910187
17 10 2018 15:30
                 1647,479004 8,178554535 1633,844918 48,56663895
17 10 2018 15:40
17 10 2018 15:50
                 1728.380981 8.599440575 1889.660207 47.40581894
17 10 2018 16:00
                 1614.374023 8.317830086 1716.915756 46.67039871
17 10 2018 16:10
                 1033.097046 6.989944935 1011.468793 47.42670822
17 10 2018 16:20
                 1033.20105 7.030332088 1029.70182 49.16825104
                 1459.380005 8.014489174 1538.304958 53.9833107
17 10 2018 16:30
17 10 2018 16:40
                 1718.709961 8.658202171 1926.40947 55.90105057
                 1534.944946 8.182858467 1636.385998 54.40161896
17 10 2018 16:50
17 10 2018 17:00
                 952.682312 7.056013107 1041.404382 52.65793991
17 10 2018 17:10
                 1172.188965 7.48537302 1250.395603 51.39781952
17 10 2018 17:20
                 910.1721191 6.929207802 984.4364465 51.71141815
17 10 2018 17:30
                 1312.870972 7.872776985 1458.00477 56.34106827
17 10 2018 17:40 1239.827026 7.741178989 1385.448561 61.0789299
17 10 2018 17:50 819.1516113 6.712211132 891.5351193 56.70851135
17 10 2018 18:00 863.0665283 6.839328766 945.2707473 61.51176071
17 10 2018 18:10 678.9702148 6.392285824 764.4972761 62.30450058
17 10 2018 18:20 546.4979248 5.993372917 622.7654083 58.72674942
                 503.5107117 5.789204121 556.1711217 54.44284058
17 10 2018 18:30
                 556.1193848 6.11998415 665.2170234 57.46224976
17 10 2018 18:40
17 10 2018 18:50
                 683.8963013 6.482382774 799.116922 63.65744019
17 10 2018 19:00
                 543.2175293 6.007171154 626.4141831 69.58821869
17 10 2018 19:10
                 569.7860718 6.053182125 642.075762 71.95652771
17 10 2018 19:20
                 1075.879028 7.322559834 1168.068152 69.99043274
17 10 2018 19:30 1025.828003 7.180346012 1099.28444 69.32089233
17 10 2018 19:40
                 1071.926025 7.293710232 1153.885044 70.10764313
17 10 2018 19:50 1013.163025 7.213026047 1114.842009 70.68784332
17 10 2018 20:00 511.5274048 5.834318161 570.5132579 68.69554138
17 10 2018 20:10 409.0231018 5.575572968 491.0048368 67.9442215
17 10 2018 20:20 423.1051941 5.587051868 494.3940363 72.64391327
17 10 2018 20:30 622.5482788 6.32764101 740.2041518 63.44522095
17 10 2018 20:40 598.1248169 6.227404118 703.4295332 64.49057007
17 10 2018 20:50
                 401.8345032 5.279842854 407.840504 66.62654114
                 356.9094849 5.326916218 420.5597169 72.20915985
17 10 2018 21:00
17 10 2018 21:10
                 469.8934021 5.842318058 573.0782281 71.34184265
17 10 2018 21:20
                 546.2078247 6.053851128 642.3051513 64.63163757
17 10 2018 21:30
                 396.8833923 5.560709
                                         486.634659 63.30516052
17 10 2018 21:40
                 771.2780762 6.695003986 884.4071415 58.87599182
17 10 2018 21:50
                 663.8809204 6.360537052 752.5095299 61.07703018
17 10 2018 22:00
                 703.0584717 6.470419884 794.4687663 58.82073975
17 10 2018 22:10 949.9785156 7.058122158 1042.36924 58.34292984
17 10 2018 22:20
                 1169.104004 7.600461006 1310.177809 65.0394516
17 10 2018 22:30
                 1379.362061 7.900473118 1473.527227 65.88783264
17 10 2018 22:40
                 1058.105957 7.30901289 1161.393365 70.79467773
17 10 2018 22:50
                 840.0551758 6.793682098 925.7543683 70.02957153
17 10 2018 23:00
                 766.0446777 6.65670681 868.6655968 72.36044312
                 732.8635254 6.512153149 810.752951 72.94187927
17 10 2018 23:10
17 10 2018 23:20
                 798.8709717 6.815684795 935.1305484 73.36373901
17 10 2018 23:30
                 679.078125 6.450551987 786.7840413 71.35929871
17 10 2018 23:40
                 519.7833862 6.100578785 658.4455692 70.99445343
17 10 2018 23:50
                 457.2531128 5.742692947 541.6005524 65.50486755
18 10 2018 00:00
                 499.3905029 5.897909164 591.0850278 64.2804718
18 10 2018 00:10
                 516.9586182 5.988924026 621.2674024 63.94723129
18 10 2018 00:20
                 530.4290771 6.075747013 649.8392665 62.46519089
18 10 2018 00:30 410.7309875 5.647634983 512.4895398 58.33687973
18 10 2018 00:40 563.8452148 6.186305046 688.6634483 56.92855835
18 10 2018 00:50 473.7654114 5.802584171 560.4031238 57.70785141
18 10 2018 01:00 381.0845032 5.439767838 451.8387692 62.5464592
```

```
18 10 2018 01:10 381.540802 5.492642879 466.8859811 64.94273376
18 10 2018 01:20 506.2981873 6.02230978 631.5422052 63.36235046
18 10 2018 01:30 400.6530151 5.535665989 479.318615 61.9233017
18 10 2018 01:40 245.7626038 4.681494236 261.4359998 78.46021271
18 10 2018 01:50 556.1159058 6.202787876 694.5636567 63.84751129
18 10 2018 02:00
                 45.90655899 3.529213905 55.34023358 122.0576019
                 33.17921066 3.346357107 36.68048708 133.1239929
18 10 2018 02:10
                                               161.607605
18 10 2018 02:20
                 5.808886051 2.810219049 0
18 10 2018 02:30
                 0
                       2.558701992 0
                                         106.5330963
                       3.137710094 21.92384863 67.62785339
18 10 2018 02:40
                 Θ
18 10 2018 02:50
                 204.9042969 4.909478188 314.0688259 65.63146973
18 10 2018 03:00 634.321106 6.527863979 816.9333888 58.85469055
18 10 2018 03:10 834.859314 6.948785782 993.0996304 66.78547668
18 10 2018 03:20
                 1184.321045 7.682579041 1353.802839 72.40744781
18 10 2018 03:30 941.1665039 7.317673206 1165.657403 75.56302643
18 10 2018 03:40 1769.687012 8.850421906 2048.046812 71.53179932
18 10 2018 03:50
                 1724.876953 8.642444611 1916.533252 71.12203979
18 10 2018 04:00 809.414978 6.417887211 774.2439763 80.29611969
18 10 2018 04:10 145.1360931 3.638451099 69.04001969 96.24368286
                 100.1889038 3.499074936 51.89646128 97.4235611
18 10 2018 04:20
18 10 2018 04:30
                 19.86508942 3.220798016 26.96567759 109.6626968
18 10 2018 04:40 62.89838028 3.52037096 54.31474563 91.37290192
18 10 2018 04:50
                 84.06967926 3.460005999 47.64863346 84.77851868
18 10 2018 05:00 41.35224915 3.114871025 20.731501
                                                    85.37026978
18 10 2018 05:10 174.5606995 4.322622776 185.3690645 70.06112671
18 10 2018 05:20 60.40134811 3.496721029 51.63361541 79.00933075
18 10 2018 05:30
                 141.4116058 3.831742048 97.95933233 74.89701843
18 10 2018 05:40
                 216.1703949 4.656002998 255.7706294 78.9850769
18 10 2018 05:50
                 10.47852039 2.767997026 0
                                               86.813797
                 23.83883095 3.085095882 19.30237297 84.90566254
18 10 2018 06:00
18 10 2018 06:10 126.3491974 4.099207878 141.6412662 90.44674683
18 10 2018 06:20 136.9405975 4.09093523 140.0695139 78.43118286
18 10 2018 06:30 326.2887878 5.291784763 411.0492521 75.49983215
18 10 2018 06:40 403.4590149 5.430106163 449.1165953 77.27646637
                 373.3127136 5.322548866 419.3716474 73.75572205
18 10 2018 06:50
                 328.6622925 5.062483788 351.4994569 75.5190506
18 10 2018 07:00
                 256.9837036 4.757109165 278.4948512 72.7164917
18 10 2018 07:10
18 10 2018 07:20 416.1366882 5.498114109 468.4575535 69.81259155
18 10 2018 07:30 491.5986938 5.792082787 557.0800874 65.04987335
18 10 2018 07:40 805.2634888 6.744265079 904.9052755 69.381073
18 10 2018 07:50 941.3823853 7.139090061 1079.851014 66.91575623
18 10 2018 08:00 998.2252808 7.164206982 1091.654918 68.62579346
18 10 2018 08:10 1418.322021 8.090126038 1582.02287 65.44846344
18 10 2018 08:20
                 1259.729004 7.691891193 1358.803484 68.74025726
18 10 2018 08:30
                 1041.432007 7.25028801 1132.760084 67.12539673
                 704.3112793 6.358800888 751.8571497 70.85389709
18 10 2018 08:40
18 10 2018 08:50
                 775.7490234 6.598392963 845.0191484 72.87756348
18 10 2018 09:00
                 683.0985718 6.567592144 832.6850041 75.47956848
                 502.4440918 5.778061867 552.6607534 75.78440094
18 10 2018 09:10
18 10 2018 09:20
                 590.2163696 6.055915833 643.0134044 71.96646118
18 10 2018 09:30
                 659.6480713 6.417854786 774.2315864 69.51110077
18 10 2018 09:40
                 551.2022705 6.044995785 639.2726811 71.6055069
18 10 2018 09:50
                 342.8359985 4.988454819 333.1683892 74.85469055
18 10 2018 10:00 517.3110962 5.820064068 565.9593119 74.86843109
18 10 2018 10:10
                 322.7461853 4.969776154 328.6091701 80.88144684
18 10 2018 10:20
                 259.0473938 4.540953159 230.7187815 84.44267273
18 10 2018 10:30 468.1835022 5.800319195 559.6854521 76.50068665
18 10 2018 10:40 381.9450073 5.44116497 452.2331062 77.45986938
18 10 2018 10:50 285.5957947 5.020041943 340.938547 70.38075256
```

```
18 10 2018 11:00 83.9419632 3.691016912 76.31289106 73.14768982
                 158.3760071 4.086225986 139.1762215 66.0594101
18 10 2018 11:10
                 215,4160004 4,624825001 248,8987517 71,86612701
18 10 2018 11:20
18 10 2018 11:30 291.0851135 5.071557045 353.7753242 71.26690674
18 10 2018 11:40 421.0043945 5.716989994 533.6413778 66.6006012
18 10 2018 11:50
                 538.7111206 6.010557175 627.5590276 69.01867676
18 10 2018 12:00
                 473.610199 5.799008846 559.2704982 69.52481842
18 10 2018 12:10
                 589.0834961 6.276041031 721.138099 67.77587891
18 10 2018 12:20
                 643.317688 6.369324207 755.8164137 66.19535065
                 597.5634766 6.228721142 703.9057096 70.53746033
18 10 2018 12:30
                 568.906311 6.216455936 699.4783709 69.43177795
18 10 2018 12:40
18 10 2018 12:50
                 335.0108032 5.212066174 389.8570594 65.46524811
18 10 2018 13:00
                 469.3357849 5.894643784 590.0184274 59.74950027
18 10 2018 13:10
                 392.1982117 5.291025162 410.844788 58.23915863
18 10 2018 13:20
                 365.3323975 5.245168209 398.5920189 52.53160858
18 10 2018 13:30 641.6569214 6.253255844 712.8104081 52.35535049
18 10 2018 13:40
                 287.7008972 4.976436138 330.2317718 48.62517929
18 10 2018 13:50
                 346.7721863 5.226267815 393.5934074 52.93730164
18 10 2018 14:00
                 194.8209076 4.579494953 239.01836
                                                     57.13803864
                 232.7588959 4.611283779 245.9335925 55.68072891
18 10 2018 14:10
18 10 2018 14:20
                 224.0991974 4.624602795 248.8500002 49.03488159
18 10 2018 14:30
                 208.7180939 4.59528017 242.444258 46.26533127
18 10 2018 14:40
                 232.607605 4.806245804 289.788408 42.90921021
18 10 2018 14:50
                 194.2774048 4.596797943 242.7744893 48.85430908
18 10 2018 15:00 42.6582489 3.496592045 51.61923815 49.90718079
18 10 2018 15:10
                 164.0399017 4.38446188 197.936436 45.64818954
18 10 2018 15:20 96.59825134 3.889409065 107.7449689 48.9005394
18 10 2018 15:30
                 154.254303 4.166316032 154.512312 45.51984024
18 10 2018 15:40 286.9473877 4.953076839 324.5552558 43.64669037
18 10 2018 15:50 414.8633118 5.538477898 480.137163 44.25268936
18 10 2018 16:00
                 289.5758972 4.96290493 326.9385914 45.20679092
18 10 2018 16:10
                 264.6539917 4.847159863 299.3205124 52.35366058
18 10 2018 16:20
                 326.995697 5.221711159 392.3927598 52.55569077
18 10 2018 16:30
                 185.6578979 4.455846786 212.7119839 58.38552094
                 117.7584991 4.156494141 152.6148719 59.56227112
18 10 2018 16:40
                 140.3106995 4.198390007 160.7418148 60.35858154
18 10 2018 16:50
18 10 2018 17:00
                 169.0346069 4.386833191 198.4225885 57.13451004
                 173.0975037 4.368190765 194.6091434 51.36845016
18 10 2018 17:10
18 10 2018 17:20
                 58.22351074 3.628920078 67.76867969 52.86888123
18 10 2018 17:30
                 56.02416992 3.682725906 75.13640206 59.35750961
18 10 2018 17:40
                 25.93374062 3.241750002 28.41144513 61.25967026
                 27.2689991 3.472851038 49.01828154 62.88042068
18 10 2018 17:50
18 10 2018 18:00
                 0.439334095 3.366241932 38.45039404 68.07821655
18 10 2018 18:10
                 31.74671936 3.426017046 44.15178735 53.89260864
18 10 2018 18:20
                 28.73567009 3.370502949 38.83788916 44.4228096
18 10 2018 18:30
                 0.142066702 2.703236103 0
                                             51.34635925
18 10 2018 18:40
                 0
                       3.036933899 17.2910138 57.78916168
18 10 2018 18:50
                 0
                       2.76244998 0
                                         66.50665283
18 10 2018 19:00
                 0
                       2.938245058 0
                                         72.00666809
                       3.344712019 36.53689469 73.4838562
18 10 2018 19:10
                 0
18 10 2018 19:20
                 45.42136002 3.98487401 125.1141136 60.45682144
18 10 2018 19:30
                 31.95414925 3.682051897 75.04124393 66.8456192
18 10 2018 19:40
                 12.12234974 3.255773067 29.41832712 75.04086304
18 10 2018 19:50
                 37.4088707 3.675153017 74.07142426 82.73085785
18 10 2018 20:00
                 44.60153961 3.817984104 95.70333091 85.95349121
18 10 2018 20:10
                 0.074066348 2.765546083 0
                                               90.18763733
18 10 2018 20:20 0
                       2.488399982 0
                                         114.606102
18 10 2018 20:30 0
                       2.323620081 0
                                         136.7465973
18 10 2018 20:40 0
                       2.582854033 0
                                         161.8235016
```

18	10	2018	20:50	0	2.848686934 0	167.6526947
18	10	2018	21:00	0	2.416855097 0	213.2984924
18	10	2018	21:10	0	2.701900005 0	247.4172974
18	10	2018	21:20	0	2.618884087 0	245.9017944
18	10	2018	21:30	0	2.200879097 0	213.3751984
18	10	2018	21:40	0	2.73712492 0	244.6490021
18	10	2018	21:50	0	2.283611059 0	257.8778992
18	10	2018	22:00	0	2.071293116 0	263.6929016
18	10	2018	22:10	0	1.833209991 0	241.7247925
18	10	2018	22:20	0	1.898071051 0	192.7418976
18	10	2018	22:30	0	2.154089928 0	209.1950073
18	10	2018	22:40	0	2.289220095 0	231.9801941
18	10	2018	22:50	0	2.458950043 0	222.6793976
18	10	2018	23:00	0	2.430003881 0	215.3887024
18	10	2018	23:10	0	2.387722969 0	227.5536041
18	10	2018	23:20	0	2.038938999 0	241.7386932
18	10	2018	23:30	0	2.238692045 0	216.3484039
18	10	2018	23:40	0	2.606487989 0	201.4315033
18	10	2018	23:50	0	2.570408106 0	222.2243958
19	10	2018	00:00	0	2.134171009 0	206.3471985
19	10	2018	00:10	0	1.122432947 0	257.6216125
19	10	2018	00:10	0	1.361134052 0	275.7063904
19	10	2018	00:20	0	1.68462801 0	249.9922943
	10					
19 19	10	2018	00:40 00:50	0		254.8076935
	_	2018		0		265.3857117
19	10	2018	01:00	0	1.503499985 0	250.9526062
19	10	2018	01:10	0	1.320443034 0	236.5207977
19	10	2018	01:20	0	1.550176024 0	249.8049927
19	10	2018	01:30	0	1.881034017 0	256.2774963
19	10	2018	01:40	0	1.711886048 0	239.578598
19	10	2018	01:50	0	1.59069097 0	254.401001
19	10	2018	02:00	0	1.323240995 0	262.6749878
19	10	2018	02:10	0	1.34662199 0	271.0455017
19	10	2018	02:20	0	1.273785949 0	273.9512939
19	10	2018	02:30	0	1.424232006 0	272.0708008
19	10	2018	02:40	0	2.010374069 0	287.6812134
19	10	2018	02:50	0	1.813434005 0	296.9580078
19	10	2018	03:00	0	0.989804029 0	293.4740906
19			03:10	0	1.314823031 0	219.0476074
19			03:20	0	0.555333018 0	220.0892029
19	10	2018	03:30	0	0.786244571 0	196.6165009
19	10	2018	03:40	0	1.285164952 0	190.6537933
19	10	2018	03:50	0	0.931954324 0	162.7223969
19	10	2018	04:00	0	0.864215612 0	187.9974976
19	10	2018	04:10	0	1.259649038 0	199.421402
19	10	2018	04:20	0	1.031231999 0	210.9284973
19	10	2018	04:30	0	1.330513954 0	224.8222961
19	10	2018	04:40	0	1.988070965 0	211.9134979
19	10	2018	04:50	0	1.814046979 0	252.103302
19	10	2018	05:00	0	1.722764969 0	257.295105
19	10	2018	05:10	0	1.434607983 0	241.1699066
19	10	2018	05:20	0	1.31754899 0	257.884613
19	10	2018	05:30	0	1.242964983 0	281.7983093
19	10	2018	05:40	0	1.01266396 0	277.6095886
19	10	2018	05:50	0	0.554919899 0	277.2318115
19	10	2018	06:00	0	0.801105201 0	313.0125122
19	10	2018	06:10	0	0.442661285 0	59.72592926
19	10	2018	06:20	0	0.746405125 0	56.39299011
19	10	2018	06:30	0	0.945652127 0	47.07957077

```
19 10 2018 06:40
                        0.710085213 0
                                           32.38275146
                  0
19 10 2018 06:50
                  0
                        0.519311011 0
                                           22.89200974
19 10 2018 07:00
                        1.076598048 0
                                           34.95785904
                  0
19 10 2018 07:10
                  0
                        0.563929081 0
                                           19.58995056
19 10 2018 07:20
                  0
                        0.707524717 0
                                           14.44143963
19 10 2018 07:30
                        0.725674391 0
                                           51.61940002
19 10 2018 07:40
                  0
                        0.51014632 0
                                           34.96751022
                        0.751008987 0
19 10 2018 07:50
                  0
                                           15.67444038
19 10 2018 08:00
                  0
                        0.4417454
                                     0
                                           33.5581398
19 10 2018 08:10
                  0
                        0.686493993 0
                                           337,4237061
19 10 2018 08:20
                  Θ
                        0.912371695 0
                                           344.2110901
19 10 2018 08:30
                        0.839542627 0
                                           280.5714111
19 10 2018 08:40
                        0.614193678 0
                                           303.1130066
19 10 2018 08:50
                        1.346578956 0
                                           29.90151024
19 10 2018 09:00
                        1.629822016 0
                  0
                                           9.263930321
19 10 2018 09:10
                  0
                        1.554134011 0
                                           351.752594
19 10 2018 09:20
                  0
                        1.210086942 0
                                           45.00518036
19 10 2018 09:30
                  0
                                           25,2897892
                        1.161563039 0
19 10 2018 09:40
                  0
                        1.470293045 0
                                           35.69020844
19 10 2018 09:50
                  0
                        1.346423984 0
                                           31.37184906
19 10 2018 10:00
                        1.623350024 0
                                           37.05509949
                  0
19 10 2018 10:10
                  0
                        0.95150882 0
                                           50.56201172
19 10 2018 10:20
                        1.131217003 0
                                           31.48277092
                                           18.13825035
19 10 2018 10:30
                  0
                        0.794345915 0
19 10 2018 10:40
                        1.124518037 0
                                           27.49633026
19 10 2018 10:50
                        1.670225978 0
                                           19.08019066
19 10 2018 11:00
                        1.313861012 0
                                           16.18877029
19 10 2018 11:10
                        1.289327979 0
                                           22.8413105
                  0
19 10 2018 11:20
                  0
                        1.246235967 0
                                           38.07939911
19 10 2018 11:30
                  0
                        0.998374701 0
                                           41.04648972
19 10 2018 11:40
                  0
                        1.631773949 0
                                           38.53144836
19 10 2018 11:50
                  0
                                           37.29605103
                        1.787202954 0
19 10 2018 12:00
                  0
                        1.983808041 0
                                           40.20373917
                                           43.33160019
19 10 2018 12:10
                        1.948536038 0
                  0
19 10 2018 12:20
                        1.975054979 0
                                           42.61590958
                  0
19 10 2018 12:30
                  0
                        1.320340037 0
                                           37.51449966
19 10 2018 12:40
                  0
                        1.724972963 0
                                           11.75922966
                                           30.04402924
19 10 2018 12:50
                  0
                        2.002160072 0
19 10 2018 13:00
                        2.223707914 0
                                           53.65074921
19 10 2018 13:10
                        2.962510109 0
                                           38.84891129
19 10 2018 13:20
                        2.822331905 0
                                           32.63816071
                  0
19 10 2018 13:30
                        3.372881889 39.05549273 38.21369171
                  0
19 10 2018 13:40
                        2.909230947 0
                  0
                                           56.83345032
19 10 2018 13:50
                  17.69595909 3.686336994 75.64746138 72.58609009
19 10 2018 14:00
                  83.496521
                             4.047409058 131.852266 67.5615387
                  18.65467072 3.376537085 39.39160079 61.33147812
19 10 2018 14:10
19 10 2018 14:20
                  1.723335981 3.435164928 45.07475891 70.28497314
                  117.5720978 4.247506142 170.382048 66.76685333
19 10 2018 14:30
                  251.8607941 4.924129009 317.5770351 70.98877716
19 10 2018 14:40
19 10 2018 14:50
                  126.4298019 4.177612782 156.7005576 63.71158981
19 10 2018 15:00
                  52.17061996 3.537137985 56.26979274 59.58882904
19 10 2018 15:10
                  49.14569092 3.451406956 46.74648176 70.99038696
19 10 2018 15:20
                  111.946701 3.884697914 106.9255652 68.98142242
19 10 2018 15:30
                  355.1654968 5.382279873 435.7643949 72.41396332
19 10 2018 15:40
                  219.9868011 4.438734055 209.1431506 85.49575806
19 10 2018 15:50
                  5.422548771 2.460114002 0
                                                 104.5865021
19 10 2018 16:00
                  0
                        1.483566999 0
                                           125.0755005
                        3.122154951 21.102705
19 10 2018 16:10
                  0
                                               78.78372192
19 10 2018 16:20 6.255736828 3.198307037 25.49187968 51.10374832
```

```
16.91459084 3.207600117 26.09102841 58.17658997
19 10 2018 16:30
                  185.8047028 4.389722824 199.0154329 72.74575043
19 10 2018 16:40
19 10 2018 16:50
                  87.53662872 3.769999981 88.07199704 76.8335495
19 10 2018 17:00
                  7.117669106 2.912127018 0
                                                 81.34732056
19 10 2018 17:10
                  11.82653046 3.082499027 19.18445603 85.48935699
19 10 2018 17:20
                  1.105738044 2.530479908 0
                                                 83.69378662
19 10 2018 17:30
                  0
                        2.599287987 0
                                           69.80928802
19 10 2018 17:40
                  0
                        3.24387598 28.56207088 54.07720184
19 10 2018 17:50
                  0
                        3.338540077 36.00203318 52.42990875
19 10 2018 18:00
                  23.75317955 3.715065002 79.7875167 71.60738373
19 10 2018 18:10
                  8.015541077 2.945321083 0
                                                 58.92963028
19 10 2018 18:20
                        2.765307903 0
                                           65.243927
19 10 2018 18:30
                        3.247236967 28.80167238 59.10723114
19 10 2018 18:40
                  0
                        3.036036015 17.25704001 68.35207367
19 10 2018 18:50
                        2.92156291 0
                                           62.68605042
                  0
19 10 2018 19:00
                  0
                        3.183470011 24.56393993 73.38461304
19 10 2018 19:10
                  0
                        3.004698038 16.15210294 65.04657745
19 10 2018 19:20
                  0
                        2.896621943 0
                                           55.86355972
19 10 2018 19:30
                  0
                        2.999459982 0
                                           70.77261353
19 10 2018 19:40
                  0
                        3.004667044 16.1510879 61.17652893
                        3.097601891 19.88535082 54.82529831
19 10 2018 19:50
                  0
19 10 2018 20:00
                        3.011780977 16.38809459 55.2779007
                  0
19 10 2018 20:10
                  25.62170029 4.028604984 128.3290992 53.56388092
19 10 2018 20:20
                  18.82666016 3.451605082 46.76713459 57.3053093
19 10 2018 20:30
                  1.429265976 2.921438932 0
                                                 59.47433853
19 10 2018 20:40
                        2.824969053 0
                                           69.10917664
19 10 2018 20:50
                        2.689884901 0
                                           64.11839294
19 10 2018 21:00
                                           60.43041992
                        2.227936983 0
                  0
19 10 2018 21:10
                  0
                        2.340150118 0
                                           85.31590271
19 10 2018 21:20
                  0
                        1.665863037 0
                                           102.0830994
                                           123.594101
19 10 2018 21:30
                  0
                        2.055583954 0
19 10 2018 21:40
                  0
                        1.131392956 0
                                           139.9806976
19 10 2018 21:50
                        0.872155011 0
                                           134.471405
                  0
19 10 2018 22:00
                        1.754935026 0
                                           117,1660995
                  0
19 10 2018 22:10
                        1.684664011 0
                                           86.89321899
                  0
19 10 2018 22:20
                  0
                        0.768185675 0
                                           71.33428192
19 10 2018 22:30
                  0
                        1.059942007 0
                                           81.20201874
19 10 2018 22:40
                        2.142597914 0
                                           71.99194336
19 10 2018 22:50
                        1.752300978 0
                                           99.0057373
19 10 2018 23:00
                        1.274857044 0
                                           107,2806015
19 10 2018 23:10
                        1.899932981 0
                                           68.86810303
                  0
19 10 2018 23:20
                  0
                        1.645516038 0
                                           80.92371368
19 10 2018 23:30
                        1.582636952 0
                                           111.1082993
                  0
                        1.494097948 0
19 10 2018 23:40
                  0
                                           150.8247986
19 10 2018 23:50
                  0
                        1.779607058 0
                                           159.6260986
20 10 2018 00:00
                  0
                        2.188426018 0
                                           192.658905
20 10 2018 00:10
                  0
                        1.727102995 0
                                           202.3029938
20 10 2018 00:20
                                           228.0319061
                  0
                        1.489966035 0
20 10 2018 00:30
                  0
                        1.557715058 0
                                           241.3674927
20 10 2018 00:40
                  0
                        1.505661011 0
                                           273.0828857
20 10 2018 00:50
                  0
                        1.656088948 0
                                           252.469696
20 10 2018 01:00
                        1.841719031 0
                                           275.2715149
20 10 2018 01:10
                        1.527402997 0
                                           273.8709106
20 10 2018 01:20
                        0.991571128 0
                                           307.968689
                  0
20 10 2018 01:30
                        0.903370976 0
                                           27.93522072
                  0
20 10 2018 01:40
                  0
                        1.483876944 0
                                           1.532618999
20 10 2018 01:50
                  0
                        1.770516992 0
                                           17.26041985
20 10 2018 02:00
                  0
                        1.98092401 0
                                           32.03741837
20 10 2018 02:10
                        2.128093004 0
                                           35.54840088
```

```
20 10 2018 02:20 0
                        2.055722952 0
                                          35.68638992
20 10 2018 02:30
                 0
                        1.921499968 0
                                          51.24687958
20 10 2018 02:40
                        1.902562976 0
                                          44.72764969
                 0
20 10 2018 02:50
                 0
                        2.866008043 0
                                          75,60095215
20 10 2018 03:00
                 0
                        2.446851015 0
                                          77.82627869
20 10 2018 03:10
                        1.796233058 0
                                          49.17699814
20 10 2018 03:20
                 0
                        2.171036005 0
                                          47.37012863
                        2.406141996 0
20 10 2018 03:30
                 0
                                          57.28524017
20 10 2018 03:40
                 0
                        2.846332073 0
                                          60.40209961
20 10 2018 03:50
                 0
                        2.882956982 0
                                          61.56726074
20 10 2018 04:00
                 0
                        2.515007019 0
                                          54.85966873
20 10 2018 04:10
                 0
                        2.586210012 0
                                          50.65512085
20 10 2018 04:20
                        2.523354053 0
                                          37.67926025
20 10 2018 04:30
                        3.212905884 26.43930151 22.29676056
20 10 2018 04:40
                        3.382937908 39.98532838 54.29700089
                 0
20 10 2018 04:50
                 0
                        3.080471039 19.09312029 68.4988327
20 10 2018 05:00
                 0
                        2.453938961 0
                                          63.34778976
20 10 2018 05:10 0
                        2.390433073 0
                                          70.59320831
20 10 2018 05:20 0
                        2.967772007 0
                                          78.85209656
20 10 2018 05:30
                 0
                        2.982194901 0
                                          63.97874832
20 10 2018 05:40
                        3.276272058 30.9468059 61.95256042
                 0
20 10 2018 05:50
                 160.9528046 4.509765148 224.0695176 58.92723083
                  188.3883057 4.67113018 259.1274829 67.78199768
20 10 2018 06:00
20 10 2018 06:10
                  186.5503998 4.696352005 264.7577978 71.92246246
20 10 2018 06:20
                  182.7677002 4.565515995 235.9974937 73.17739868
20 10 2018 06:30
                  52.25059128 3.591886997 62.96680131 74.83161163
20 10 2018 06:40
                 44.16053009 3.507018089 52.78996629 82.16777802
20 10 2018 06:50
                                          85.31604767
                        2.497018099 0
20 10 2018 07:00
                 0
                        2.4695189
                                          61.98373032
20 10 2018 07:10
                 0
                        2.611377954 0
                                          77.65390778
20 10 2018 07:20 0
                        2.402005911 0
                                          61.02523041
20 10 2018 07:30 0
                        2.007006884 0
                                          51.26089859
20 10 2018 07:40 0
                        2.953572989 0
                                          27.62054062
20 10 2018 07:50 0
                        2.706240892 0
                                          60.42086029
20 10 2018 08:00 0
                        2.961075068 0
                                          73.25089264
20 10 2018 08:10
                 0
                        2.938457966 0
                                          57.49055099
20 10 2018 08:20
                 0
                        2.514436007 0
                                          49.36283875
20 10 2018 08:30
                 0
                        2.624283075 0
                                          62.59347153
20 10 2018 08:40
                        2.964709044 0
                                          64.90440369
20 10 2018 08:50 0
                        2,663986921 0
                                          40.89862061
20 10 2018 09:00 0
                        2.768163919 0
                                          37.2069397
20 10 2018 09:10
                        2.791260958 0
                                          18.10956001
                 0
20 10 2018 09:20
                        3.718262911 80.25654187 11.48314953
                 0
20 10 2018 09:30
                 18.24502945 3.143762112 22.25379115 8.397145271
20 10 2018 09:40
                 0
                        2.79648304 0
                                          7.014079094
20 10 2018 09:50
                        3.438173056 45.38118792 23.24085999
20 10 2018 10:00
                 63.3121109 3.468352079 48.53556016 14.53979015
20 10 2018 10:10
                 83.5940094 3.823216915 96.55782843 8.124087334
                 84.13400269 3.807523012 94.0082096 9.826997757
20 10 2018 10:20
20 10 2018 10:30
                  71.89964294 3.778223038 89.35362492 24.60650063
20 10 2018 10:40
                  14.05768967 3.267940998 30.31750221 16.24614906
20 10 2018 10:50
                        3.179841995 24.34239531 30.33620071
20 10 2018 11:00
                        3.309494019 33.5667324 23.39213943
20 10 2018 11:10
                 68.16970062 3.760428905 86.5938946 15.52750015
20 10 2018 11:20
                 63.91091919 3.624885082 67.23483191 19.45709991
20 10 2018 11:30
                 64.22119141 3.643348932 69.69899372 20.41222954
20 10 2018 11:40
                 20.99193001 3.187203884 24.79414783 16.48879051
20 10 2018 11:50 10.43412971 2.911017895 0
                                             18.25756073
20 10 2018 12:00 45.25106049 3.413218021 42.88290734 14.68074989
```

```
20 10 2018 12:10 16.0194397 3.170532942 23.78357288 20.38434029
20 10 2018 12:20 0.187934101 2.874099016 0 17.49032974
20 10 2018 12:30 0
                       2.126648903 0
                                         12.16184044
20 10 2018 12:40 0
                       3.003386021 16.10926987 5.511906147
20 10 2018 12:50 0
                       2.809015036 0
                                         6.678585052
20 10 2018 13:00 0
                       2.691508055 0
                                         24.45454025
20 10 2018 13:10 0
                       3.246197939 28.72740806 33.11803055
20 10 2018 13:20 0
                       3.059668064 18.19420028 12.74969006
20 10 2018 13:30
                 0
                       3.301601887 32.92835622 14.14181042
                 20.35391998 3.748226881 84.73073743 1.989256024
20 10 2018 13:40
20 10 2018 13:50
                 163.8184967 4.391409874 199.3617703 8.252342224
20 10 2018 14:00
                 137.0540924 4.129064083 147.3407445 12.29424
20 10 2018 14:10
                 205.3166962 4.666635036 258.1284117 20.82814026
20 10 2018 14:20
                 186.452301 4.528142929 227.9804868 15.57087994
20 10 2018 14:30 177.7872925 4.430719852 207.477655 16.48015976
20 10 2018 14:40 142.976593 4.184407234 158.0197329 5.066683769
20 10 2018 14:50 232.2127991 4.713377953 268.5823397 20.25617027
20 10 2018 15:00 193.101593 4.636944771 251.5626008 17.43622971
20 10 2018 15:10 196.2229004 4.580843925 239.3105195 20.06959915
20 10 2018 15:20 82.4464035 3.855336905 101.8988786 21.93596077
20 10 2018 15:30
                 192.7191925 4.482181072 218.2375306 24.71031952
                 162.3394012 4.205760002 162.1805171 24.08618927
20 10 2018 15:40
20 10 2018 15:50
                 156.3771057 4.307938099 182.4155481 5.658538818
20 10 2018 16:00
                 112.6303024 3.940325975 116.8274664 13.61620045
20 10 2018 16:10 272.1296997 4.913784981 315.0984752 9.15066433
20 10 2018 16:20 436.5057068 5.681091785 522.6344247 11.91664028
20 10 2018 16:30 364.8445129 5.324129105 419.8013362 4.02240181
20 10 2018 16:40 435.7539063 5.649947166 513.1871514 356.5828857
20 10 2018 16:50 433.4266052 5.496138096 467.8896403 0.662187219
20 10 2018 17:00 598.2008057 6.270362854 719.0575709 15.17504025
20 10 2018 17:10 391.1806946 5.37164402 432.8226203 27.91782951
20 10 2018 17:20 446.8984985 5.723889828 535.7715386 31.92486954
20 10 2018 17:30
                 679.6710205 6.277687073 721.7418709 71.06786346
20 10 2018 17:40
                 976.5275879 7.017515182 1023.893011 69.28634644
                 1024.317993 7.369795799 1191.549291 59.83766174
20 10 2018 17:50
                 967.9108887 7.126532078 1073.980938 55.6566391
20 10 2018 18:00
20 10 2018 18:10
                 999.0983276 7.241360188 1128.449444 52.39342117
20 10 2018 18:20
                 1101.639038 7.425623894 1219.723777 50.79840851
20 10 2018 18:30 1360.360962 7.927978039 1489.026309 50.52919006
20 10 2018 18:40
                 1150.515991 7.419946194 1216.83726 51.24792099
20 10 2018 18:50 1102.310059 7.36159277 1187.448259 52.34794998
20 10 2018 19:00 1003.958984 7.077065945 1051.061626 54.32928085
20 10 2018 19:10
                 1035.416016 7.192208767 1104.914936 43.65383911
20 10 2018 19:20
                 1550.944946 8.312378883 1713.632748 44.56330109
20 10 2018 19:30
                 1213.208008 7.642549992 1332.430575 44.59032822
20 10 2018 19:40
                 1165.660034 7.668933868 1346.494841 51.03532028
                 1233.781006 7.828400135 1433.313415 52.1649704
20 10 2018 19:50
                 1210.248047 7.768819809 1400.519916 49.5298996
20 10 2018 20:00
20 10 2018 20:10 1241.459961 7.709840775 1368.472669 47.07751083
20 10 2018 20:20
                 1081.237061 7.239947796 1127.768512 44.98036957
                 570.2681885 6.128743172 668.2866435 45.06130981
20 10 2018 20:30
20 10 2018 20:40
                 777.8032227 6.670361042 874.258604 38.385849
20 10 2018 20:50
                 1136.439941 7.527185917 1271.987175 38.91495895
20 10 2018 21:00
                 1135.602051 7.394465923 1203.942468 40.81908035
20 10 2018 21:10 1493.439941 8.191123962 1641.270809 37.13312149
20 10 2018 21:20 1061.572021 7.393797874 1203.605687 41.80155945
20 10 2018 21:30 443.9146118 5.455412865 456.2645951 32.78977966
20 10 2018 21:40 516.8770142 5.668481827 518.7980005 12.93957996
20 10 2018 21:50 207.4544067 4.442965984 210.0241248 20.39834023
```

```
20 10 2018 22:00 370.9992065 5.159636021 376.2069675 14.80852985
20 10 2018 22:10 403.5682068 5.38224411 435.7544865 21.30828094
                 689.8068237 6.180873871 686.725674 33.15903091
20 10 2018 22:20
20 10 2018 22:30
                 1163.134033 7.336283207 1174.856759 33.69829941
                 1332.521973 7.745451927 1387.772426 33.01103973
20 10 2018 22:40
20 10 2018 22:50
                 1157.964966 6.999855042 1015.923546 27.7665596
20 10 2018 23:00 884.1074219 6.410510063 771.4280729 19.83910942
                 878.5447998 6.843842983 947.2144087 17.03091049
20 10 2018 23:10
20 10 2018 23:20 898.5847778 6.800218105 928.533579 15.66823959
20 10 2018 23:30
                 982.7886963 7.187027931 1102.453567 11.27388954
                 722.4074707 6.520537853 814.0479635 16.44388962
20 10 2018 23:40
20 10 2018 23:50
                 1087.192017 7.375304222 1194.308711 11.70654964
21 10 2018 00:00
                 1018.502991 7.224216938 1120.203165 5.897436142
21 10 2018 00:10
                 1412.321045 8.047397614 1557.255112 6.231452942
21 10 2018 00:20
                 1338.647949 8.070195198 1570.447232 10.60101986
21 10 2018 00:30 1203.11499 7.710769176 1368.973863 9.579100609
21 10 2018 00:40
                 1363.26001 8.023385048 1543.416687 6.58864212
21 10 2018 00:50
                 1273.68103 7.954473019 1504.033998 8.401287079
                 793.2432251 6.816111088 935.3127788 10.85184956
21 10 2018 01:00
                 680.7772217 6.496973038 804.8073764 19.51902962
21 10 2018 01:10
21 10 2018 01:20
                 752.0059814 6.645434856 864.064532 14.15898037
                 886.3292847 7.065112114 1045.571159 13.26725006
21 10 2018 01:30
21 10 2018 01:40
                 810.4417114 6.826386929 939.7120582 10.16549015
21 10 2018 01:50
                 827.5698242 6.764526844 913.4188607 8.317601204
21 10 2018 02:00
                 1102.157959 7.466098785 1240.441908 4.850327969
21 10 2018 02:10 911.8605957 7.034152031 1031.437148 6.867129803
21 10 2018 02:20 883.8471069 6.947066784 992.3370688 18.90847969
21 10 2018 02:30 1280.703003 7.857310772 1449.373985 15.60540009
21 10 2018 02:40 1515.256958 8.278165817 1693.08521 7.319190979
21 10 2018 02:50
                 1479.432983 8.305315971 1709.382795 11.3532896
21 10 2018 03:00
                 1013.559998 7.213736057 1115.181638 18.65792084
21 10 2018 03:10 1148.370972 7.520134926 1268.349852 12.5509901
21 10 2018 03:20 853.2155762 6.730725765 899.2431904 16.08782959
21 10 2018 03:30 891.9854126 6.903582096 973.1689443 17.35841942
21 10 2018 03:40 747.9213257 6.592847824 842.7906991 17.14608955
21 10 2018 03:50 907.4644775 6.917928219 979.4668736 8.030267715
                 1374.218018 7.977600098 1517.195379 4.379796982
21 10 2018 04:00
                 1290.894043 7.808677197 1422.411889 9.910287857
21 10 2018 04:10
21 10 2018 04:20 1128.301025 7.441775799 1227.961831 11.50026035
21 10 2018 04:30
                 1299.144043 7.991713047 1525.254669 12.53339958
21 10 2018 04:40 810.2122803 6.720750809 895.0854184 20.27452087
21 10 2018 04:50 990.8643188 7.238080025 1126.868461 6.627254009
21 10 2018 05:00 960.7175293 7.316953182 1165.302479 17.75235939
21 10 2018 05:10
                 734.0437012 6.695630074 884.6658931 26.01898003
21 10 2018 05:20 659.7479858 6.442237854 783.5811126 21.73996925
21 10 2018 05:30 667.963623 6.425799847 777.2709041 15.88282013
21 10 2018 05:40
                 785.3259888 6.58772707 840.7358871 15.90095997
21 10 2018 05:50
                 589.1895142 6.066089153 646.5097971 27.86421967
21 10 2018 06:00
                 716.2564697 6.562703133 830.7370361 39.87195969
21 10 2018 06:10
                 382.0772095 5.02816391 342.9487992 24.23605919
21 10 2018 06:20 544.2709961 5.936411858 603.7460243 1.814512968
21 10 2018 06:30 648.5571899 6.487670898 801.1766568 9.462693214
21 10 2018 06:40 820.5480957 6.635601997 860.0627603 9.576005936
21 10 2018 06:50 437.9432983 5.589779854 495.2013219 16.81048012
21 10 2018 07:00 438.2962952 5.704996109 529.9497537 25.27803993
21 10 2018 07:10 379.0971985 5.513510227 472.8947669 21.75362015
21 10 2018 07:20 290.5892944 5.124810219 367.2636578 16.38095093
21 10 2018 07:30 229.2839966 4.674049854 259.7771056 19.61758995
21 10 2018 07:40 671.7177124 6.355285168 750.5370872 13.67730999
```

```
21 10 2018 07:50 569.0756836 6.029961109 634.1433212 16.21320915
21 10 2018 08:00 601.8557129 6.24303484 709.092907 9.672970772
21 10 2018 08:10 457.3157043 5.763556957 548.1097415 19.67761993
21 10 2018 08:20 495.9194031 5.895163059 590.1879684 18.76940918
21 10 2018 08:30 403.7336121 5.464776993 458.9242138 16.84104919
21 10 2018 08:40 550.5432739 6.029714108 634.0592537 14.87244987
21 10 2018 08:50
                 209.5236969 4.57703495 238.4858674 19.29355049
21 10 2018 09:00 592.3031006 6.028412819 633.6164653 12.7398901
21 10 2018 09:10 617.3823242 6.381556988 760.4339849 21.73720932
21 10 2018 09:20
                 339.7785034 5.355059147 428.2552297 19.73641968
21 10 2018 09:30
                 115.7553024 3.786216974 90.60991363 25.25951958
21 10 2018 09:40 349.3471069 4.885665894 308.4002917 29.13805962
21 10 2018 09:50 750.3931885 6.528217793 817.0728912 44.24414063
21 10 2018 10:00 473.8586121 5.841444016 572.7976675 43.84156036
21 10 2018 10:10 417.1160889 5.630690098 507.3928344 43.06317902
21 10 2018 10:20 421.0679016 5.817262173 565.066599 38.75938034
21 10 2018 10:30 381.8931885 5.61072588 501.4233955 39.15504074
21 10 2018 10:40 320.899292 5.273663998 406.1850273 44.17330933
21 10 2018 10:50 180.2227936 4.46616888 214.8729258 46.82735062
21 10 2018 11:00 174.4564056 4.336843014 188.2403322 24.30574989
21 10 2018 11:10 387.9086914 5.354144096 428.0039303 16.79227066
21 10 2018 11:20 682.5709229 6.349884033 748.5117155 22.61809921
21 10 2018 11:30 505.7460938 5.893085957 589.5099737 28.49175072
21 10 2018 11:40 414.7464905 5.561162949 486.7678174 25.73306084
21 10 2018 11:50 548.414917 6.088521957 654.2586341 24.85065079
21 10 2018 12:00 474.7178955 5.795276165 558.0894091 26.46684074
21 10 2018 12:10 360.0533142 5.446169853 453.6471651 26.58065033
                           5.550796032 483.7316758 26.51715088
21 10 2018 12:20 390.4375
21 10 2018 12:30 236.8025055 4.889437199 309.2953087 31.87668037
21 10 2018 12:40 44.91801834 3.534204006 55.92444182 37.97817993
21 10 2018 12:50 194.1551971 4.259140015 172.6836842 26.40343094
21 10 2018 13:00 199.2245026 4.54896307 232.4360754 21.92806053
21 10 2018 13:10 604.7822876 5.998441219 624.474579 18.82262993
21 10 2018 13:20 482.3237915 5.75967598 546.8956463 14.89375019
21 10 2018 13:30 161.8583069 4.328920841 186.6393724 23.15838051
21 10 2018 13:40 228.5207977 4.725376129 271.2891194 24.39361
                 355.0437927 5.390795231 438.1268538 27.12652969
21 10 2018 13:50
21 10 2018 14:00 460.2945862 5.902053833 592.4404462 39.86169052
21 10 2018 14:10 352.223114 5.489844799 466.0833141 41.64189148
21 10 2018 14:20 407.9603882 5.58062315 492.4943913 39.0777092
21 10 2018 14:30 452.1578064 5.712091923 532.1320734 41.07221985
21 10 2018 14:40 406.4885864 5.783304214 554.3107925 36.20664978
21 10 2018 14:50 376.2694092 5.512993813 472.74558
                                                     30.5832901
21 10 2018 15:00 259.243103 5.004868984 337.1966493 29.6938591
21 10 2018 15:10 337.4482117 5.284628868 409.125031 24.50245094
21 10 2018 15:20 263.1604004 4.893445969 310.2478116 24.98730087
21 10 2018 15:30 364.3252869 5.372786999 433.1382797 26.26563072
21 10 2018 15:40 385.6223145 5.478171825 462.7424997 26.9657402
21 10 2018 15:50 568.1567993 6.045198917 639.342149 28.27889061
21 10 2018 16:00
                 903.8939209 7.051588058 1039.381865 37.39326859
21 10 2018 16:10 470.5462952 5.665104866 517.7732336 33.09553909
21 10 2018 16:20
                 1111.949951 7.41410017 1213.870211 39.95093918
21 10 2018 16:30 965.3796997 7.090333939 1057.177541 44.43302917
21 10 2018 16:40 826.8286133 6.867978096 957.6479485 45.67567062
21 10 2018 16:50 815.8139038 6.667856216 873.2309793 40.19720078
21 10 2018 17:00 867.4957275 7.061728954 1044.020628 46.09975815
21 10 2018 17:10 826.255188 6.857822895 953.2492821 46.51311111
21 10 2018 17:20 755.104187 6.793810844 925.809064 49.36751938
21 10 2018 17:30 940.1668701 7.234232903 1125.016117 50.20095825
```

```
21 10 2018 17:40 842.0269165 6.8558321 952.3884476 49.10686874
                 717.1074219 6.658049107 869.2144753 49.49552917
21 10 2018 17:50
21 10 2018 18:00
                 769.5797119 6.624829769 855.691353 44.2075882
21 10 2018 18:10
                 792.117981 6.708133221 889.8427556 44.36124039
                 714.0078125 6.553575039 827.107242 45.05038071
21 10 2018 18:20
21 10 2018 18:30 561.3676147 6.065960884 646.4656444 45.88798904
21 10 2018 18:40 603.7219238 6.21748209 699.8481602 44.05147934
21 10 2018 18:50 682.0598145 6.477006912 797.0261849 48.45751953
21 10 2018 19:00 687.3933105 6.600102901 845.7070307 59.50312042
21 10 2018 19:10 867.0313721 7.026638031 1028.025461 58.00839996
21 10 2018 19:20
                 1036.442993 7.339170933 1176.288704 57.42377853
21 10 2018 19:30 737.5015869 6.601690769 846.3461024 54.26128006
21 10 2018 19:40 654.6868896 6.228798866 703.9338171 48.98147964
21 10 2018 19:50 745.8151245 6.657954216 869.1756668 52.32091904
21 10 2018 20:00 842.1262207 6.896121025 969.9035563 54.02333832
21 10 2018 20:10 618.7619019 6.314461231 735.3069078 52.01774979
21 10 2018 20:20 620.8596191 6.358234882 751.6445384 55.60799026
21 10 2018 20:30 687.5009155 6.41483593 773.0785608 51.02143097
21 10 2018 20:40 813.1359253 6.812355995 933.7083094 49.96480942
21 10 2018 20:50 728.1776733 6.541646957 822.3781108 50.44445038
21 10 2018 21:00 698.416687 6.612012863 850.5074201 53.95624924
21 10 2018 21:10 866.1381226 6.894853115 969.3493263 53.44060898
21 10 2018 21:20 932.2293701 7.023372173 1026.544875 53.16053009
21 10 2018 21:30 921.9321289 6.972045898 1003.454355 50.72735977
21 10 2018 21:40 844.4661865 6.850858212 950.2397997 56.2572403
21 10 2018 21:50 829.6917725 6.896782875 970.1929431 49.99110031
21 10 2018 22:00 880.9332275 6.984937191 1009.222461 49.96944046
21 10 2018 22:10 739.0952759 6.610719204 849.9852232 54.50542831
21 10 2018 22:20 917.0410156 7.144248962 1082.268578 58.60852051
21 10 2018 22:30 1068.014038 7.49683094 1256.339844 58.69623184
21 10 2018 22:40 1277.765991 7.853264809 1447.120627 61.83319092
21 10 2018 22:50 1317.761963 7.784636974 1409.185254 60.19141006
21 10 2018 23:00
                 1391.125
                             8.067152023 1568.683251 57.97185135
21 10 2018 23:10 1259.128052 7.754823208 1392.876741 58.37002945
21 10 2018 23:20 1054.415039 7.490334034 1252.966834 58.39957809
21 10 2018 23:30
                 778.5930176 6.709185123 890.2791181 60.39962006
21 10 2018 23:40 823.8192139 6.781806946 920.7178672 63.62443924
21 10 2018 23:50
                 728.4182739 6.625257015 855.8644791 61.32904053
22 10 2018 00:00 895.4539795 6.945270061 991.540422 55.52056122
22 10 2018 00:10 806.612793 6.748720169 906.7730742 57.94041061
22 10 2018 00:20 873.8464966 6.917518139 979.2864965 61.81705856
22 10 2018 00:30 986.9401855 7.288207054 1151.193024 66.22982788
22 10 2018 00:40 978.2426147 7.316239834 1164.950919 64.55449677
22 10 2018 00:50 996.4196777 7.325510979 1169.52572 64.46630096
22 10 2018 01:00 1103.724976 7.630493164 1326.032859 60.67148972
22 10 2018 01:10 1245.255981 7.830708981 1434.592525 64.2247467
22 10 2018 01:20 925.5750732 7.065612793 1045.80075 58.47974014
22 10 2018 01:30 948.0637817 7.079008102 1051.95543 65.7006073
22 10 2018 01:40 1096.85498 7.643860817 1333.127253 63.99728012
22 10 2018 01:50
                 1010.15802 7.219984055 1118.173313 61.35462189
22 10 2018 02:00
                 1111.140991 7.536386013 1276.743168 66.93096924
22 10 2018 02:10
                 1301.73999 8.059833527 1564.444859 67.93652344
22 10 2018 02:20
                 1187.764038 7.829947948 1434.170842 67.11856842
22 10 2018 02:30 1265.081055 7.968637943 1512.088374 60.60369873
22 10 2018 02:40 1383.055054 8.05820179 1563.500594 60.7929306
22 10 2018 02:50 1348.593018 7.929145813 1489.68618 61.64556885
22 10 2018 03:00 1106.271973 7.352232933 1182.780894 59.68547058
22 10 2018 03:10 1159.600952 7.478662014 1246.923404 58.15279007
22 10 2018 03:20 1468.646973 8.276206017 1691.911232 60.03619003
```

```
22 10 2018 03:30 1393.843994 8.121891022 1600.552112 61.38335037
                 1130.21106 7.477053165 1246.092033 61.38967133
22 10 2018 03:40
22 10 2018 03:50
                 1411.047974 8.05791378 1563.333955 62.52492905
22 10 2018 04:00 1297.55896 7.932639122 1491.661017 60.97792053
22 10 2018 04:10 1466.300049 8.219805717 1658.269787 59.68989182
22 10 2018 04:20 1325.369019 7.944108963 1498.154429 60.77830887
22 10 2018 04:30 1454.880005 8.256094933 1679.88335 63.32197952
22 10 2018 04:40 1443.339966 8.091968536 1583.094954 63.82263947
22 10 2018 04:50 1428.730957 8.173134804 1630.647501 62.03532028
22 10 2018 05:00
                 1497.230957 8.238916397 1669.637385 65.23893738
22 10 2018 05:10
                 1737.52002 8.754199028 1986.899243 66.21549225
22 10 2018 05:20 1938.204956 9.189953804 2267.095446 64.72187042
22 10 2018 05:30 2159.041016 9.616018295 2529.285134 63.66236115
22 10 2018 05:40 2065.289063 9.477871895 2455.460163 61.63034058
22 10 2018 05:50 1804.82605 8.8865242 2071.110523 64.29113007
22 10 2018 06:00 2112.845947 9.547439575 2477.035353 69.82478333
22 10 2018 06:10 2293.063965 9.936929703 2752.259
                                                   71.23761749
22 10 2018 06:20 2085.809082 9.513730049 2450.732029 67.30377197
22 10 2018 06:30 1740.687988 8.779465675 2002.908017 66.01818085
22 10 2018 06:40
                 1670.725952 8.5860672 1881.327746 70.9471283
22 10 2018 06:50
                 1694.542969 8.691937447 1947.604746 67.493927
                 1516.026978 8.304463387 1708.870055 71.71085358
22 10 2018 07:00
                 1650.088989 8.647373199 1919.620631 71.17434692
22 10 2018 07:10
22 10 2018 07:20
                 1719.660034 8.757121086 1988.748839 67.72962189
22 10 2018 07:30 1815.697021 8.971691132 2125.757525 64.68177795
22 10 2018 07:40 1412.661011 7.983944893 1520.816027 62.79064941
22 10 2018 07:50 1540.265991 8.314011574 1714.615781 67.76384735
22 10 2018 08:00 1910.894043 9.102178574 2210.058966 68.87538147
22 10 2018 08:10 1761.714966 8.817200661 2026.880655 71.14929962
22 10 2018 08:20 1974.694946 9.264555931 2315.742382 70.87140656
22 10 2018 08:30 1732.139038 8.766046524 1994.401367 71.24716949
22 10 2018 08:40 1540.284058 8.342578888 1731.851932 69.48365021
22 10 2018 08:50 1205.064941 7.648304939 1335.490834 70.08061218
22 10 2018 09:00 1090.76001 7.343904018 1178.638325 66.76506042
22 10 2018 09:10 1397.406006 8.029524803 1546.949435 63.05329895
                 1337.251953 7.862809181 1452.439236 61.30662918
22 10 2018 09:20
                 1441.349976 8.057692528 1563.205946 57.16439819
22 10 2018 09:30
22 10 2018 09:40
                 1675.500977 8.640725136 1915.456493 59.70787048
22 10 2018 09:50 1423.944946 8.065354347 1567.64166 61.20671082
22 10 2018 10:00 1198.709961 7.668996811 1346.528498 59.81386948
22 10 2018 10:10 1049.779053 7.278377056 1146.3951
                                                   58.8889389
22 10 2018 10:20 1353.430054 7.884225845 1464.410997 57.65959167
22 10 2018 10:30 863.8270264 6.654539108 867.7796383 56.04875183
22 10 2018 10:40 817.3295288 6.266136169 717.5111348 42.02920151
22 10 2018 10:50
                 853.4310303 6.611660957 850.3653514 37.70491028
                 734.1444702 6.412543774 772.2037582 36.97829056
22 10 2018 11:00
                 727.6400757 6.515891075 812.2209106 33.44276047
22 10 2018 11:10
22 10 2018 11:20 910.0390015 6.972150803 1003.501209 40.06858826
                 745.4453125 6.384533882 761.5601547 34.83493042
22 10 2018 11:30
22 10 2018 11:40
                 849.5181274 6.638676167 861.3126969 32.51005936
22 10 2018 11:50
                 907.0322876 6.878765106 962.3340167 30.90055084
22 10 2018 12:00
                 950.7034302 7.11202383 1067.225334 35.58763885
22 10 2018 12:10
                 1219.297974 7.910575867 1479.210516 39.81499863
22 10 2018 12:20
                 1135.38501 7.524987221 1270.852239 37.32875824
22 10 2018 12:30 814.882019 6.655928135 868.3472835 33.08715057
22 10 2018 12:40 970.8961792 7.169613838 1094.207017 36.39131927
22 10 2018 12:50 958.8972778 7.152637005 1086.206991 39.16746902
22 10 2018 13:00 987.4102783 7.160357952 1089.840535 37.04055023
22 10 2018 13:10 1012.955017 7.280474186 1147.417542 39.39902878
```

```
22 10 2018 13:20 1247.14502 7.691439152 1358.560488 38.95161057
                 1220.954956 7.724010944 1376.13385 40.41302109
22 10 2018 13:30
22 10 2018 13:40
                 1187.740967 7.491964817 1253.812877 38.38983154
22 10 2018 13:50 1420.958008 8.071393967 1571.142353 37.6268692
22 10 2018 14:00 1392.713989 8.095457077 1585.125722 37.40008163
22 10 2018 14:10 1153.906982 7.454173088 1234.311625 38.4550209
22 10 2018 14:20
                 1176.084961 7.419569016 1216.645675 36.15076065
                 1596.942017 8.322001457 1719.429661 34.18180847
22 10 2018 14:30
                 1671.115967 8.471144676 1810.229885 36.76216125
22 10 2018 14:40
                 1715.396973 8.649758339 1921.115282 38.58282852
22 10 2018 14:50
22 10 2018 15:00
                 1285.206055 7.67757082 1351.11787 42.56689835
22 10 2018 15:10
                 1768.64502 8.592681885 1885.447638 43.29209137
22 10 2018 15:20
                 1894.858032 8.934519768 2101.867049 48.62701035
22 10 2018 15:30
                 1619.276001 8.280396461 1694.421833 45.47325134
22 10 2018 15:40 1332.594971 7.624003887 1322.597128 47.50078964
22 10 2018 15:50 1518.417969 8.150440216 1617.288394 50.82279968
22 10 2018 16:00
                 1496.977051 8.096035957 1585.462818 50.11346054
22 10 2018 16:10 1331.098022 7.62972784 1325.627381 45.28121948
22 10 2018 16:20 1327.652954 7.840722084 1440.146899 54.8813591
                 1724.359009 8.545070648 1855.859056 61.29238892
22 10 2018 16:30
22 10 2018 16:40
                 2652.793945 10.19810963 2909.255459 58.22026062
                 2611.280029 10.37895966 3006.090685 57.75775909
22 10 2018 16:50
                 2652.500977 10.61357975 3118.237622 58.6509285
22 10 2018 17:00
22 10 2018 17:10
                 2031.912964 9.318443298 2350.962934 59.10639954
22 10 2018 17:20
                 1863.409058 8.80047226 2016.24399 60.16043854
22 10 2018 17:30 1647.76001 8.446697235 1795.227775 59.41553879
22 10 2018 17:40 1651.911987 8.562063217 1866.401673 58.55648041
22 10 2018 17:50 1575.977051 8.509008408 1833.551646 61.27180099
22 10 2018 18:00 1304.942017 7.83505106 1436.999712 63.99634933
                 1643.000977 8.582671165 1879.213689 68.119133
22 10 2018 18:10
22 10 2018 18:20 1589.894043 8.710661888 1959.398469 68.4174881
22 10 2018 18:30 1552.442993 8.616939545 1900.580882 68.88408661
22 10 2018 18:40 2073.172119 9.594763756 2513.270826 67.77741241
22 10 2018 18:50
                 1681.590942 8.690615654 1946.772992 65.17205048
22 10 2018 19:00 1632.001953 8.4942379 1824.441536 65.44930267
22 10 2018 19:10
                 1400.728027 8.119508743 1599.159082 67.40798187
                 1370.927002 8.069267273 1569.909261 66.6218338
22 10 2018 19:20
                 1544.227051 8.448554039 1796.365628 68.26260376
22 10 2018 19:30
22 10 2018 19:40 1439.963989 8.128294945 1604.29949 69.49790955
22 10 2018 19:50
                 1569.495972 8.462188721 1804.728913 70.80930328
22 10 2018 20:00 1746.378052 8.810312271 2022.49894 69.49603271
22 10 2018 20:10 1645.932983 8.582478523 1879.09379 70.10566711
22 10 2018 20:20
                 1665.790039 8.650871277 1921.812828 72.88205719
22 10 2018 20:30
                 1889.107056 9.13730526 2232.855822 75.17867279
22 10 2018 20:40
                 2306.697021 10.16326046 2889.505757 76.05383301
22 10 2018 20:50
                 2184.775879 9.920918465 2741.942868 75.29216003
                 2293.52002 10.08603954 2844.449057 73.05059814
22 10 2018 21:00
22 10 2018 21:10
                 2286.089111 10.10715961 2856.951035 68.39363098
22 10 2018 21:20 2013.363037 9.284141541 2328.536229 68.13710785
22 10 2018 21:30
                 1984.956055 9.303560257 2341.229321 66.73787689
22 10 2018 21:40
                 1740.583008 8.879152298 2066.395929 65.57047272
22 10 2018 21:50
                 1954.756958 9.230122566 2293.271334 64.85211945
22 10 2018 22:00
                 2042.927979 9.41444397 2413.843274 68.90680695
22 10 2018 22:10
                 2255.116943 9.982043266 2780.886369 70.30407715
22 10 2018 22:20
                 2065.237061 9.415752411 2414.701289 72.88095093
22 10 2018 22:30
                 2104.76709 9.743304253 2621.884005 72.24733734
22 10 2018 22:40 2193.875
                             9.891239166 2722.602104 69.97812653
22 10 2018 22:50 2289.158936 10.15110016 2882.529382 69.8991394
22 10 2018 23:00 1999.848999 9.30412674 2341.599722 70.16882324
```

```
22 10 2018 23:10 2102.914063 9.659236908 2561.357017 70.07613373
                 2257.996094 9.943172455 2756.259006 71.00411224
22 10 2018 23:20
22 10 2018 23:30 2317.37793 10.06540012 2832.100128 70.51878357
22 10 2018 23:40 2410.503906 10.24118996 2933.176059 68.68495941
22 10 2018 23:50 2487.668945 10.35235023 2992.426088 68.76065826
23 10 2018 00:00 2712.12793 10.94789028 3253.731765 65.98683167
23 10 2018 00:10 2389.206055 10.27569962 2951.94851 68.67471313
                             10.67803001 3146.511464 68.17700958
23 10 2018 00:20 2557.7229
23 10 2018 00:30 2559.189941 10.60519981 3114.483117 68.72219849
23 10 2018 00:40 2381.410889 10.18515015 2901.953046 69.32185364
23 10 2018 00:50
                 2392.062988 10.30303001 2966.572637 69.51216125
23 10 2018 01:00 2195.471924 9.722371101 2607.039483 71.57556915
23 10 2018 01:10 2328.055908 10.1072197 2856.986407 72.47528076
23 10 2018 01:20 2467.610107 10.37611008 3004.636798 72.35913849
23 10 2018 01:30 2431.033936 10.25393963 2940.151675 71.10473633
23 10 2018 01:40 2196.285889 9.655165672 2558.363742 69.46867371
23 10 2018 01:50 1848.026001 8.87803936 2065.68439 69.20522308
23 10 2018 02:00 2200.833008 9.649420738 2554.130075 67.18778992
23 10 2018 02:10 2153.033936 9.604317665 2520.489076 68.0318222
23 10 2018 02:20 2022.387939 9.29229641 2333.865704 69.22614288
23 10 2018 02:30 2471.022949 10.43319988 3033.336518 67.39346313
23 10 2018 02:40 2642.144043 10.78048038 3189.302304 68.35401917
23 10 2018 02:50 2679.433105 10.85498047 3218.800528 68.13194275
23 10 2018 03:00 2618.326904 10.6361599 3128.264245 68.27546692
23 10 2018 03:10 2956.529053 11.38879013 3393.109902 67.7730484
23 10 2018 03:20 3068.385986 11.64251995 3455.071912 66.31749725
23 10 2018 03:30 2999.230957 11.55723953 3435.645047 68.34686279
23 10 2018 03:40 3005.936035 11.67720032 3462.578028 65.06359863
23 10 2018 03:50 2676.907959 10.73099041 3168.957639 67.03205872
23 10 2018 04:00 2805.104004 11.12257957 3314.0256
                                                    65.53079224
23 10 2018 04:10 2807.434082 11.05825043 3292.622981 66.8764267
23 10 2018 04:20 3014.947021 11.38129044 3391.084341 67.5893631
23 10 2018 04:30 2915.426025 11.25349045 3354.787419 65.80853271
23 10 2018 04:40 2442.701904 10.16456032 2890.248879 66.14154816
23 10 2018 04:50 2476.326904 10.10828018 2857.610568 65.89008331
23 10 2018 05:00 2181.717041 9.603161812 2519.617519 67.0192337
23 10 2018 05:10
                 2372.883057 10.00559998 2795.578995 65.77823639
23 10 2018 05:20 2501 10.16985989 2893.273412 67.86228943
23 10 2018 05:30 2914.5271 11.16057014 3326.236455 69.13303375
23 10 2018 05:40 2979.549072 11.08557987 3301.828024 67.87036133
23 10 2018 05:50 2740.376953 10.65256977 3135.468956 69.92353058
23 10 2018 06:00 3156.475098 11.69540977 3466.429188 71.55526733
23 10 2018 06:10 3138.281982 11.72383976 3472.318881 72.77150726
23 10 2018 06:20 2770.36499 10.80519009 3199.235118 74.34662628
23 10 2018 06:30 2772.679932 10.9580698 3257.436019 73.24529266
23 10 2018 06:40 2825.033936 11.31577969 3372.901534 75.56876373
23 10 2018 06:50 2762.506104 11.05976009 3293.135825 74.56360626
23 10 2018 07:00 2570.187988 10.62602997 3123.782306 75.53936768
23 10 2018 07:10 2649.145996 10.66644001 3141.505101 74.5372467
23 10 2018 07:20 2392.74707 10.18620014 2902.546544 75.39772797
23 10 2018 07:30
                 2231.346924 9.845503807 2692.237889 74.51634216
23 10 2018 07:40
                 1659.185059 8.473994255 1811.981411 70.16741943
23 10 2018 07:50
                 1511.935059 8.105476379 1590.964826 70.23578644
23 10 2018 08:00
                 1694.042969 8.651470184 1922.188231 70.28346252
23 10 2018 08:10 1698.937988 8.542645454 1854.356025 69.15354156
23 10 2018 08:20 1781.104004 8.730044365 1971.628266 69.55020142
23 10 2018 08:30 1518.640015 8.237350464 1668.704697 68.95275879
23 10 2018 08:40 1693.833008 8.705664635 1956.248889 65.48097992
23 10 2018 08:50 1660.843018 8.61771965 1901.068189 69.71658325
```

```
23 10 2018 09:00 1107.031006 7.365571022 1189.435922 64.04585266
                 1717.360962 8.768035889 1995.661841 64.16525269
23 10 2018 09:10
23 10 2018 09:20
                 1161.468018 7.474318027 1244.679563 64.45372772
23 10 2018 09:30
                 1166.43396 7.505589008 1260.867383 62.41244125
23 10 2018 09:40
                 1190.44104 7.558825016 1288.390368 62.29521179
23 10 2018 09:50
                 1308.859985 7.849687099 1445.129605 60.91569138
23 10 2018 10:00
                 1290.510986 7.701231003 1363.829756 60.3603096
                 1028.53894 7.208413124 1112.637138 58.1161499
23 10 2018 10:10
23 10 2018 10:20
                 1067.280029 7.343092918 1178.235444 58.62836075
23 10 2018 10:30
                 1013.219971 7.18584919 1101.894068 64.04802704
23 10 2018 10:40
                 1236.41394 7.652749062 1337.856914 61.61001968
23 10 2018 10:50
                 1125.963013 7.408267021 1210.914783 58.86925888
23 10 2018 11:00
                 1636.275024 8.496990204 1826.137903 62.02613831
23 10 2018 11:10
                 1411.968018 8.120583534 1599.787495 62.71207047
23 10 2018 11:20 913.871521 6.934901237 986.9508557 59.96297073
23 10 2018 11:30
                 1245.624023 7.795749187 1415.290651 60.8807106
23 10 2018 11:40
                 1330.196045 7.941191196 1496.50125 62.10432053
23 10 2018 11:50
                 1448.470947 8.17610836 1632.401439 65.15164948
                 1215.25
23 10 2018 12:00
                             7.665305138 1344.555304 65.8610611
                 1412.313965 8.143515587 1613.221873 68.15899658
23 10 2018 12:10
23 10 2018 12:20
                 1130.839966 7.555143833 1286.475026 69.98384857
                 900.6380005 7.012625217 1021.682345 71.3523407
23 10 2018 12:30
23 10 2018 12:40
                 784.7161865 6.671216965 874.6099186 70.11560822
23 10 2018 12:50
                 1047.656006 7.331924915 1172.69788 63.91704941
23 10 2018 13:00
                 490.4754944 5.631683826 507.6909656 50.86246109
23 10 2018 13:10
                 348.9002991 5.167970181 378.3617271 54.06240845
23 10 2018 13:20 229.3840027 4.612308979 246.1576746 49.56595993
23 10 2018 13:30 529.1525879 6.187238216 688.9967096 54.19168091
23 10 2018 13:40 510.4942017 5.938392162 604.401448 50.42052841
23 10 2018 13:50
                 379.686615 5.489693165 466.0398363 51.80059052
23 10 2018 14:00 456.6643066 5.880555153 585.4293096 55.13645172
23 10 2018 14:10 677.6923218 6.499594212 805.8321802 55.81280899
23 10 2018 14:20
                 709.7130737 6.607686996 848.7619904 54.3989296
23 10 2018 14:30
                 388.2525024 5.455624104 456.3245039 54.01580811
23 10 2018 14:40 416.211792 5.609991074 501.2044116 54.97883987
23 10 2018 14:50
                 403.8098145 5.571086884 489.6836833 61.70877838
                 384.0557861 5.497581959 468.3045763 56.87921906
23 10 2018 15:00
                 337.1922913 5.322450161 419.3448152 60.5688591
23 10 2018 15:10
23 10 2018 15:20
                 344.7383118 5.446965218 453.8720922 73.67980957
23 10 2018 15:30 446.6282959 5.827498913 568.3320236 65.96478271
23 10 2018 15:40 337.0932007 5.302795887 414.0186843 60.84447098
23 10 2018 15:50 415.6653137 5.669760227 519.1862315 60.84492874
23 10 2018 16:00 275.821106 4.994613171 334.6773367 63.31742859
23 10 2018 16:10
                 291.7973938 5.155702114 375.1918319 65.13253784
23 10 2018 16:20
                 235.9980927 4.843727112 298.5162104 61.8340416
23 10 2018 16:30
                 163.3986053 4.383323193 197.7031015 64.57058716
                 234.9024963 4.861155987 302.6085262 71.36036682
23 10 2018 16:40
                 219.7057037 4.898198128 311.3784586 76.02085114
23 10 2018 16:50
                 69.41412354 3.793940067 91.83334859 77.48873138
23 10 2018 17:00
23 10 2018 17:10
                 29.5702095 3.355854034 37.51789661 71.97899628
23 10 2018 17:20
                 0
                       2.82448101 0
                                         84.93816376
23 10 2018 17:30
                 0
                       2.228598118 0
                                         99.05046844
23 10 2018 17:40
                       2.192121029 0
                                         122.905098
23 10 2018 17:50
                       1.681107998 0
                                         193.2205048
                 0
23 10 2018 18:00
                       2.107536077 0
                                         189.2221985
                 0
23 10 2018 18:10
                 0
                       1.829975009 0
                                         193.2794952
23 10 2018 18:20
                 0
                       1.693058014 0
                                         209.0404053
23 10 2018 18:30 0
                       1.933233976 0
                                         182.1790924
                       3.002845049 16.09168911 201.0670929
23 10 2018 18:40 0
```

```
23 10 2018 18:50 0
                       2.925683975 0
                                         227.401001
                                         231.9566956
23 10 2018 19:00 0
                       2.958005905 0
23 10 2018 19:10 0
                       3,647138119 70,21143938 227,3880005
23 10 2018 19:20 0
                       2.834394932 0
                                        235.7082062
23 10 2018 19:30 0
                       2.577708006 0
                                         267.1388855
23 10 2018 19:40 0
                       1.733098984 0
                                         257.9302063
23 10 2018 19:50 0
                       1.567209959 0
                                         255.6705017
                                         269.9382019
23 10 2018 20:00 0
                       2.195090055 0
23 10 2018 20:10 0
                       1.766710997 0
                                         263.4732971
23 10 2018 20:20 0
                       2.430080891 0
                                         271.841095
23 10 2018 20:30 0
                       3.326435089 34.97071224 277.5103149
23 10 2018 20:40 0
                       3.001590014 16.05108268 282.0636902
23 10 2018 20:50 0
                       2.748287916 0
                                         288.4504089
23 10 2018 21:00 0
                       2.517724037 0
                                         275.3934021
23 10 2018 21:10 0
                       3.024380922 16.82774386 268.8916931
23 10 2018 21:20 0
                       3.657836914 71.67073369 266.5109863
23 10 2018 21:30 114.4348984 4.2620821 173.2668633 261.089386
23 10 2018 21:40 162.141098 4.585289955 240.274244 258.1864929
23 10 2018 21:50 153.6840973 4.588245869 240.9156561 246.276001
23 10 2018 22:00 128.3027039 4.234776974 167.8717685 250.6513062
23 10 2018 22:10 60.33267975 3.678062916 74.47955873 242.9226074
23 10 2018 22:20 41.32270813 3.448507071 46.44491364 242.851593
23 10 2018 22:30 111.7546005 4.046535015 131.6881488 248.6822968
23 10 2018 22:40 86.0117569 3.980876923 124.3576245 247.9490967
23 10 2018 22:50 143.7962952 4.407662868 202.706639 245.0184937
23 10 2018 23:00 181.218399 4.701489925 265.9098983 233.2117004
23 10 2018 23:10 273.756897 5.249637127 399.7782895 224.8941956
23 10 2018 23:20 459.3941956 5.892289162 589.2500087 227.3701019
23 10 2018 23:30 439.9537048 5.841267109 572.7408915 219.5274963
23 10 2018 23:40 394.0304871 5.464632988 458.883253 222.8551025
23 10 2018 23:50 352.1651917 5.326590061 420.4709342 227.4853973
24 10 2018 00:00 461.2058105 5.867814064 581.2969383 223.2286987
24 10 2018 00:10 838.5239868 7.183094978 1100.587496 215.9010925
24 10 2018 00:20 1570.479004 8.64993763 1921.227649 196.2868958
24 10 2018 00:30 1099.067993 7.471077919 1243.007802 196.9588013
24 10 2018 00:40 710.7800293 6.520247936 813.9339015 197.280899
24 10 2018 00:50 858.6729736 6.911240101 976.5276416 193.6858063
24 10 2018 01:00 741.1837769 6.636974812 860.620804 196.6378021
24 10 2018 01:10 572.3306274 6.120748043 665.4844052 198.3144989
24 10 2018 01:20 606.5778198 6.276329041 721.2437205 198.4571075
24 10 2018 01:30 1298.780029 7.981181145 1519.238378 203.8954926
24 10 2018 01:40 1957.514038 9.265749931 2316.522087 203.8993988
24 10 2018 01:50 2561.157959 10.51677036 3073.746552 200.0388947
24 10 2018 02:00 2316.981934 9.796047211 2658.628157 204.822998
24 10 2018 02:10 1566.327026 8.406218529 1770.487666 206.8439941
24 10 2018 02:20 1528.918945 8.392769814 1762.296047 210.3334961
24 10 2018 02:30 1646.319946 8.908734322 2085.33011 212.9535065
24 10 2018 02:40 1458.396973 8.534748077 1849.464398 212.5628052
24 10 2018 02:50 1266.750977 7.918962002 1483.936635 215.0545959
24 10 2018 03:00 1394.652954 8.468200684 1808.420955 215.5852051
                 1130.217041 7.55953598 1288.760493 219.368103
24 10 2018 03:10
24 10 2018 03:20 792.5057983 6.760455132 911.7041293 227.7476959
24 10 2018 03:30 405.1489868 5.496354103 467.9517041 230.3639984
24 10 2018 03:40 252.3800049 4.803475857 289.147317 237.891098
24 10 2018 03:50 300.4126892 5.09945488 360.8134852 234.4891052
24 10 2018 04:00 96.66538239 3.825093985 96.86541418 235.2996979
24 10 2018 04:10 201.277298 4.591965199 241.7235039 233.5594025
24 10 2018 04:20 444.5429077 5.716445923 533.4736092 232.4936066
24 10 2018 04:30 178.490799 4.407744884 202.723556 233.3457947
```

```
24 10 2018 04:40 166.289505 4.447701931 211.0112573 245.9488068
24 10 2018 04:50
                 255.3939056 4.844161034 298.6178331 237.2991028
24 10 2018 05:00
                493.398407 5.8385849
                                        571.8804638 230.8825989
24 10 2018 05:10 696.477417 6.277057171 721.510787 229.7480927
24 10 2018 05:20 600.6168213 5.87172699 582.5642386 227.3834991
24 10 2018 05:30
                 1067.636963 7.481162071 1248.216096 221.4635925
24 10 2018 05:40
                 1015.586975 7.360349178 1186.827395 219.7660065
                 1137.436035 7.704295158 1365.481091 215.2675018
24 10 2018 05:50
                 1064.199951 7.349854946 1181.597122 207.3894958
24 10 2018 06:00
24 10 2018 06:10
                 1370.496948 7.825193882 1431.538154 205.3695984
24 10 2018 06:20
                 1266.708008 7.741786003 1385.778556 205.2389984
24 10 2018 06:30
                 1030.633057 7.071530819 1048.516995 206.5868988
24 10 2018 06:40
                 466.4256897 5.745094776 542.3476615 217.745697
24 10 2018 06:50
                 589.4874878 6.207862854 696.3861621 215.571106
24 10 2018 07:00
                 776.1588135 6.641973019 862.6543746 210.9613953
24 10 2018 07:10 775.7188721 6.569198132 833.325477 209.0310974
24 10 2018 07:20
                 1225.30603 7.778508186 1405.824124 213.4839935
24 10 2018 07:30 983.7097168 7.085967064 1055.162075 209.7897034
24 10 2018 07:40 679.3549194 6.294168949 727.8035626 208.767395
24 10 2018 07:50 889.1937866 6.996148109 1014.255762 215.019104
24 10 2018 08:00 901.2293091 6.999351978 1015.697111 211.4636993
                 1429.133057 8.189741135 1640.453137 207.3840942
24 10 2018 08:10
24 10 2018 08:20
                 1327.057983 7.996907234 1528.226094 201.8161011
24 10 2018 08:30
                 638.1132202 6.055192947 642.7653822 202.4420013
                 961.5615845 7.097845078 1060.650049 205.6804962
24 10 2018 08:40
24 10 2018 08:50 935.213623 7.029632092 1029.384028 207.0800934
24 10 2018 09:00 833.5620117 6.698660851 885.9191055 199.6665955
24 10 2018 09:10 948.4293213 6.908965111 975.5291076 202.5110016
24 10 2018 09:20 2035.484985 9.384430885 2394.168726 201.238205
24 10 2018 09:30
                 1591.899048 8.355148315 1739.457032 197.960495
24 10 2018 09:40
                 1312.071045 7.625058174 1323.154951 198.3999939
24 10 2018 09:50
                 1441.989014 7.855341911 1448.277217 198.8325043
24 10 2018 10:00
                 1785.833008 8.590683937 1884.20293 200.2330017
24 10 2018 10:10
                 1894.811035 8.749622345 1984.003264 199.6970062
                 1375.796997 7.76888895 1400.55773 202.0619965
24 10 2018 10:20
                 1978.874023 9.044795036 2172.907724 205.9757996
24 10 2018 10:30
                             9.232575417 2294.871091 205.9322052
24 10 2018 10:40
                 2048.75
                 1481.917969 7.877955914 1460.900832 206.7409058
24 10 2018 10:50
24 10 2018 11:00
                 1864.509033 8.901456833 2080.668318 212.9835968
                 2126.933105 9.40669632 2408.763207 217.5110016
24 10 2018 11:10
24 10 2018 11:20 2436.936035 10.17269039 2894.8854
                                                     211.3715973
24 10 2018 11:30 3152.927002 11.64375973 3455.34414 211.9250031
24 10 2018 11:40 2783.055908 10.7966404 3195.81515 214.2626953
24 10 2018 11:50
                 2345.398926 9.872463226 2710.219207 215.1425018
24 10 2018 12:00
                 1216.717041 7.325315952 1169.429358 220.0399017
24 10 2018 12:10 837.906311 6.509765148 809.8159485 240.0545044
                 1926.225952 9.159259796 2247.123825 246.5935059
24 10 2018 12:20
                 1483.687012 8.196128845 1644.231687 248.8139954
24 10 2018 12:30
                 1090.36499 7.243513107 1129.487928 257.3243103
24 10 2018 12:40
24 10 2018 12:50
                 1436.821045 7.976936817 1516.817124 258.2662048
24 10 2018 13:00
                 1193.832031 7.646999836 1334.796463 261.4899902
24 10 2018 13:10
                 1576.887939 8.246458054 1674.132326 265.3283081
24 10 2018 13:20
                 2077.666992 9.466357231 2447.901767 268.7795105
24 10 2018 13:30
                 1841.473999 8.654992104 1924.396271 264.0654907
24 10 2018 13:40
                 1179.249023 7.365569115 1189.434968 268.4468079
24 10 2018 13:50
                 1288.365967 7.667077065 1345.502183 263.541687
24 10 2018 14:00 1364.112061 7.980455875 1518.8245
                                                     266.9596863
24 10 2018 14:10 2324.586914 10.14955044 2881.637135 271.2919922
24 10 2018 14:20 1829.887939 8.686689377 1944.302951 268.6694031
```

```
24 10 2018 14:30 1966.281006 9.076506615 2193.424088 268.5560913
                 2835.11792 11.18830013 3334.951008 272.4924011
24 10 2018 14:40
24 10 2018 14:50
                 3213.958008 11.75282001 3478.169278 269.6141968
24 10 2018 15:00 2889.660889 11.00370026 3273.746878 268.9830017
24 10 2018 15:10 2350.528076 9.755571365 2630.513849 266.5028076
24 10 2018 15:20 2186.538086 9.649226189 2553.986502 266.0072021
                 1929.904053 8.897773743 2078.309948 263.7229919
24 10 2018 15:30
                 2153.388916 9.232950211 2295.115547 270.3963013
24 10 2018 15:40
24 10 2018 15:50
                 2065.016113 9.201730728 2274.765383 267.6217957
                             9.192726135 2268.900634 262.3138123
24 10 2018 16:00
                 2089.8479
24 10 2018 16:10
                 2330.822998 9.684940338 2580.121669 262.7692871
24 10 2018 16:20 2196.116943 9.442116737 2431.994467 260.5263977
24 10 2018 16:30 2444.094971 9.806452751 2665.767039 257.2857056
24 10 2018 16:40 2369.860107 9.767009735 2638.514786 257.7272034
24 10 2018 16:50 2504.611084 10.21728039 2919.967177 263.5078125
24 10 2018 17:00 2565.033936 10.32732964 2979.396309 266.7004089
24 10 2018 17:10 2774.587891 10.99773979 3271.643409 269.6254883
24 10 2018 17:20 3255.479004 11.82089043 3491.309305 272.5974121
24 10 2018 17:30 3245.204102 11.67216015 3461.501146 271.9648132
24 10 2018 17:40 2930.688965 11.13350964 3317.571093 268.1893005
24 10 2018 17:50 3168.768066 12.15034962 3543.418241 272.1978149
24 10 2018 18:00 3408.952881 12.70269966 3591.181748 277.7593994
24 10 2018 18:10
                 3594.977051 13.78334999 3600 283.3035889
24 10 2018 18:20
                 3601.269043 13.86273956 3600 284.3248901
24 10 2018 18:30 3585.437012 13.61240959 3600 286.5232849
24 10 2018 18:40 3589.793945 13.6363802 3600 286.9057007
24 10 2018 18:50 3581.775879 13.0261097 3600 284.4195862
24 10 2018 19:00 3570.825928 12.64015007 3588.119754 282.7246094
24 10 2018 19:10 3599.64209 13.63681984 3600 285.6494141
24 10 2018 19:20 3520.400879 13.02571964 3600 285.4678955
24 10 2018 19:30 3589.177002 13.45462036 3600 287.0203857
24 10 2018 19:40 3482.353027 12.88411045 3596.818571 295.0734863
24 10 2018 19:50 3061.292969 11.46310997 3412.569605 291.0990906
24 10 2018 20:00 2989.753906 11.01651955 3278.243394 286.9945984
24 10 2018 20:10 2350.456055 10.11935997 2864.11135 289.3363953
24 10 2018 20:20 1942.140991 8.842681885 2043.110459 287.0513
24 10 2018 20:30
                 2101.072998 9.071428299 2190.136155 291.0293884
24 10 2018 20:40
                 1853.581055 8.5719347
                                         1872.535229 282.7786865
24 10 2018 20:50
                 1718.465942 8.629242897 1908.270949 280.1223145
24 10 2018 21:00 2289.054932 9.632639885 2541.697414 296.2936096
24 10 2018 21:10 1783.026001 8.821270943 2029.470922 305.8338013
24 10 2018 21:20 2590.474121 10.40256977 3018.050178 306.9656982
24 10 2018 21:30 2765.23999 10.06235981 2830.270021 290.1413879
24 10 2018 21:40 3512.415039 13.32812977 3600 286.1182861
24 10 2018 21:50 3598.920898 14.28283978 3600 304.2009888
24 10 2018 22:00
                 3544.687988 14.6510601 3600 296.291687
                 3602.054932 15.62432957 3600 305.2524109
24 10 2018 22:10
                 3599.670898 16.16072083 3600 303.1802063
24 10 2018 22:20
24 10 2018 22:30
                 3601.654053 17.03219032 3600
                                               302.5870056
24 10 2018 22:40
                 3601.560059 14.81519032 3600
                                               312.9784851
                 3513.11792 14.09657001 3600
24 10 2018 22:50
                                               313.2756042
24 10 2018 23:00
                 3600.49292 14.55280972 3600
                                               309.6188965
24 10 2018 23:10
                 3601.068115 14.81262016 3600
                                               309.9404907
24 10 2018 23:20
                 3565.034912 14.81663036 3600
                                               348.7242126
24 10 2018 23:30
                 3531.241943 13.38187981 3600
                                               348.7781067
24 10 2018 23:40
                 3542.437988 12.81602955 3595.263582 348.7510071
24 10 2018 23:50 3590.7771
                           13.03812981 3600 348.0198975
25 10 2018 00:00 3601.708984 14.2933197 3600 349.8776855
25 10 2018 00:10 3540.363037 12.40785027 3571.590372 348.675293
```

```
25 10 2018 00:20 3546.331055 12.78761959 3594.416404 347.5166016
25 10 2018 00:30 3585.115967 13.06044006 3600 345.5360107
25 10 2018 00:40 3600.326904 14.23781013 3600 338.1369019
25 10 2018 00:50 3534.678955 12.66446972 3589.37922 344.8362122
25 10 2018 01:00 3366.900879 11.4826498 3417.502806 344.3971863
25 10 2018 01:10 3233.544922 11.21302032 3342.579859 346.677002
25 10 2018 01:20 3429.76709 12.03085041 3526.665973 353.3523865
25 10 2018 01:30 3479.688965 12.02147961 3525.250653 351.0794067
25 10 2018 01:40 3562.568115 15.07118988 3600 352.2094116
25 10 2018 01:50 3331.039063 11.5919199 3443.712796 342.4674072
25 10 2018 02:00 2653.12793 9.473075867 2452.311821 341.2615051
25 10 2018 02:10 3345.079102 11.28180027 3363.120845 337.1188965
25 10 2018 02:20 3372.913086 11.71364975 3470.225056 330.3757019
25 10 2018 02:30 2600.843994 9.921877861 2742.563329 337.2135925
25 10 2018 02:40 3334.841064 11.82371044 3491.835625 330.9814148
25 10 2018 02:50 3373.240967 11.99376965 3520.977855 332.4787903
25 10 2018 03:00 2551.230957 9.833676338 2684.273873 332.7298889
25 10 2018 03:10 2142.029053 8.740571022 1978.279337 319.1205139
25 10 2018 03:20 2109.553955 9.264724731 2315.85261 314.5047913
25 10 2018 03:30 832.0045166 6.031398773 634.6327623 338.5379944
25 10 2018 03:40 277.2687073 4.743741989 275.4512036 331.6253052
25 10 2018 03:50 381.0315857 5.164628983 377.4971976 330.5371094
25 10 2018 04:00 1367.880981 7.721149921 1374.585048 339.3662109
25 10 2018 04:10 2254.968994 9.108890533 2214.411853 338.8504028
25 10 2018 04:20 2472.373047 9.888875008 2721.049228 350.3157959
25 10 2018 04:30 2781.802979 10.02923965 2810.1488
                                                     349.7105103
25 10 2018 04:40 2793.99292 10.25014019 2938.077849 345.7958984
25 10 2018 04:50 3492.477051 13.28547001 3600 357.2792053
25 10 2018 05:00 3563.949951 13.7349596 3600 12.17086029
25 10 2018 05:10 2712.406982 9.652892113 2556.689646 358.1322937
25 10 2018 05:20 2695.458008 10.19258976 2906.15118 342.8398132
25 10 2018 05:30 3052.731934 10.92341042 3244.725034 348.1896973
25 10 2018 05:40 3193.552002 11.14525986 3321.353414 343.8893127
25 10 2018 05:50 3430.108887 12.2729702 3558.159007 340.9779968
25 10 2018 06:00 3359.072021 11.84661007 3496.056844 344.5994873
25 10 2018 06:10 2847.123047 10.42702961 3030.277869 344.3442993
25 10 2018 06:20 3588.483887 12.82252979 3595.440955 336.1209106
25 10 2018 06:30 3429.601074 12.62932968 3587.531075 344.4978027
25 10 2018 06:40 3406.01001 12.21557999 3551.564209 340.4067078
25 10 2018 06:50 3235.199951 11.30469036 3369.736013 344.9798889
25 10 2018 07:00 3179.425049 11.24522972 3352.323883 346.594696
25 10 2018 07:10 3350.764893 11.44394016 3407.65616 351.1323853
25 10 2018 07:20 3569.26709 12.79951954 3594.785526 352.1160889
25 10 2018 07:30 3539.952881 14.56315994 3600 355.2979126
25 10 2018 07:40 3598.962891 14.18945026 3600 355.6169128
25 10 2018 07:50 3602.266113 14.86561012 3600 10.36513996
25 10 2018 08:00 3430.388916 12.3470602 3565.89259 355.0123901
25 10 2018 08:10 3374.650879 11.0397501 3286.296685 350.7828064
25 10 2018 08:20 2788.707031 10.39381981 3013.635966 351.1072083
25 10 2018 08:30 3152.353027 11.4923296 3419.918708 353.4115906
25 10 2018 08:40 2510.351074 10.07746029 2839.33177 3.458213091
25 10 2018 08:50 2327.204102 9.327070236 2356.607015 0.618852377
25 10 2018 09:00 2949.11792 10.93739033 3249.885689 7.939626217
25 10 2018 09:10 3371.014893 11.00926971 3275.705031 10.19145012
25 10 2018 09:20 3302.7229 11.68649006 3464.550452 355.2214966
25 10 2018 09:30 3267.408936 11.23394966 3348.936552 358.7864075
25 10 2018 09:40 3279.749023 11.35836983 3384.822787 359.6202087
25 10 2018 09:50 3290.258057 11.24754047 3353.014457 358.413208
25 10 2018 10:00 3082.903076 10.39676952 3015.126413 358.9024048
```

```
25 10 2018 10:10 3174.200928 11.14115047 3320.034066 0.02955539
                 3353.087891 11.60498047 3446.691345 351.7572021
25 10 2018 10:20
25 10 2018 10:30
                 3526.177002 12.44361019 3574.67271 359.9975891
25 10 2018 10:40 3179.922119 10.56023979 3094.027962 2.974025965
25 10 2018 10:50
                 3221.788086 10.87320042 3225.811504 0.453004599
25 10 2018 11:00
                 3391.23291 11.42625999 3403.059491 353.6904907
                 2909.976074 10.30158997 2965.807412 354.9473877
25 10 2018 11:10
                 2707.830078 9.932496071 2749.410611 1.944529057
25 10 2018 11:20
25 10 2018 11:30
                 3194.166016 11.00821018 3275.333057 358.2283936
                 3364.830078 11.7325201 3474.087408 353.6818848
25 10 2018 11:40
25 10 2018 11:50
                 2273.626953 9.288071632 2331.104494 359.7091064
25 10 2018 12:00 2813.375
                             10.21074009 2916.324887 9.193059921
25 10 2018 12:10 2354.520996 9.46378231 2446.211732 5.830954075
25 10 2018 12:20 2598.37793 9.797426224 2659.576327 359.3974915
25 10 2018 12:30 1728.510986 8.319149017 1717.710462 4.789782047
25 10 2018 12:40 1896.760986 8.78813076 2008.406163 0.167316407
25 10 2018 12:50 2342.39209 9.724935532 2608.866057 355.206604
25 10 2018 13:00 2109.985107 9.016525269 2154.649523 349.5751038
25 10 2018 13:10 1901.261963 8.762577057 1992.203612 347.0158081
                 1387.078979 7.957138062 1505.547746 348.824707
25 10 2018 13:20
25 10 2018 13:30 1406.744019 7.85821104 1449.875633 347.8111877
25 10 2018 13:40 1418.869995 7.799635887 1417.429542 345.4349976
25 10 2018 13:50
                 1886.696045 8.779745102 2003.085255 350.1311035
25 10 2018 14:00
                 1084.656006 7.33434391 1173.89579 344.4670105
25 10 2018 14:10 1012.955017 7.000089169 1016.028941 343.1252136
25 10 2018 14:20 1245.531006 7.546960831 1282.223797 345.860199
25 10 2018 14:30 1903.561035 9.039385796 2169.411793 351.8536987
25 10 2018 14:40 1507.688965 8.16850853 1627.920349 3.360893965
                 1187.505981 7.462628841 1238.655983 0.778747618
25 10 2018 14:50
25 10 2018 15:00
                 1401.110962 8.005077362 1532.905642 350.9819031
25 10 2018 15:10
                 1331.956055 7.864152908 1453.188856 355.9955139
                            8.000279427 1530.156721 1.956760049
25 10 2018 15:20
                 1498.375
25 10 2018 15:30
                 1434.307007 8.030208588 1547.343115 3.544903994
25 10 2018 15:40 1546.656006 8.263246536 1684.156493 3.514204025
25 10 2018 15:50 890.1065063 6.938476086 988.5316844 5.856221199
25 10 2018 16:00 826.2282715 6.820982933 937.3969284 8.80814743
25 10 2018 16:10
                 1012.926025 7.300126076 1157.028947 6.632311821
                 1050.291992 7.257987022 1136.486343 4.902746201
25 10 2018 16:20
25 10 2018 16:30 1183.003052 7.486376762 1250.915524 2.0326159
25 10 2018 16:40 851.5848999 6.792415142 925.2162273 359.2721863
25 10 2018 16:50 704.6373901 6.525175095 815.8736652 0.4187392
25 10 2018 17:00 806.7653809 6.818388939 936.2868775 0.475346208
25 10 2018 17:10 681.6571045 6.426787853 777.6493416 0.482282996
25 10 2018 17:20
                 239.6864014 4.822844028 293.6412312 2.84947896
25 10 2018 17:30 440.473999 5.723211765 535.5619939 353.3804016
                 392.1017151 5.498057842 468.4413772 350.8833008
25 10 2018 17:40
                 168.1921997 4.384399891 197.9237317 350.1463013
25 10 2018 17:50
                 246.8782959 4.898347855 311.4141087 348.5855103
25 10 2018 18:00
25 10 2018 18:10 287.5101929 5.032611847 344.0518482 339.6766052
25 10 2018 18:20
                 291.8656921 5.134860992 369.8346897 335.4205017
25 10 2018 18:30
                 405.7276917 5.564577103 487.7699237 327.2297058
25 10 2018 18:40
                 210.7651978 4.686789036 262.6181033 313.3517151
25 10 2018 18:50
                 135.4019012 4.201766014 161.4005074 314.7416077
25 10 2018 19:00
                 71.66031647 3.850784063 101.1317718 295.9054871
25 10 2018 19:10
                 96.29620361 4.071064949 136.307364 297.6137085
25 10 2018 19:20
                 68.26740265 3.834961891 98.49168929 284.5924072
25 10 2018 19:30
                 48.63825989 3.596575975 63.56266277 278.2421875
25 10 2018 19:40 -0.01886672 2.729336977 0 263.2211914
25 10 2018 19:50 78.14929199 4.0927248 140.4092484 257.4776001
```

```
25 10 2018 20:00 151.4037018 4.318222046 184.4827247 265.8700867
                 203.516098 4.604908943 244.5417166 268.550293
25 10 2018 20:10
25 10 2018 20:20
                 302,5697937 5,069626808 353,2906193 270,9075928
25 10 2018 20:30 382.6296997 5.406898022 442.6118919 272.7190857
25 10 2018 20:40 456.3999023 5.706905842 530.5366041 274.3038025
25 10 2018 20:50 327.1716919 5.14144516 371.523345 271.6599121
25 10 2018 21:00 262.6964111 4.86709404 304.0077426 255.6685944
25 10 2018 21:10 359.324585 5.295578003 412.0710262 241.8495026
25 10 2018 21:20 443.7988892 5.561954021 486.9999118 246.0841064
25 10 2018 21:30
                 568.4879761 6.050148964 641.0363436 254.5437012
25 10 2018 21:40
                 722.8114014 6.552614212 826.7257122 249.2626038
25 10 2018 21:50 770.4251709 6.730200768 899.0240706 246.4828949
25 10 2018 22:00 623.7846069 6.230147839 704.4217487 244.8500977
25 10 2018 22:10 714.7451172 6.470581055 794.5312839 236.2848053
25 10 2018 22:20 1137.906006 7.377638817 1195.47956 231.0883026
25 10 2018 22:30 1240.291992 7.425682068 1219.753377 235.5986938
25 10 2018 22:40
                 1212.630005 7.270095825 1142.363699 230.1692963
25 10 2018 22:50 1241.317017 7.600271225 1310.077986 220.5368042
25 10 2018 23:00 1413.612061 8.060373306 1564.757281 218.0074005
25 10 2018 23:10 1551.087036 7.948799133 1500.813754 225.7727051
25 10 2018 23:20 2080.314941 9.382016182 2392.58639 218.4965973
25 10 2018 23:30 2329.299072 9.487486839 2461.772515 224.2590027
25 10 2018 23:40 2374.829102 9.615542412 2528.928329 220.3016968
25 10 2018 23:50 2697.769043 10.69812012 3155.109093 218.6880035
26 10 2018 00:00 2894.623047 11.20767021 3340.939894 215.7332001
26 10 2018 00:10 3090.893066 11.53946972 3431.421347 209.4994049
26 10 2018 00:20 3168.420898 11.21076965 3341.89071 209.7422943
26 10 2018 00:30 2714.784912 10.22517967 2924.349595 209.3856964
26 10 2018 00:40 2304.813965 9.477620125 2455.294883 210.2106018
26 10 2018 00:50 2163.113037 9.127323151 2226.373499 212.0048981
26 10 2018 01:00 2383.004883 9.551971436 2480.540157 216.3368073
26 10 2018 01:10 2527.827881 10.17901039 2898.476091 212.8403015
26 10 2018 01:20 2574.947998 10.06320953 2830.781796 213.9371948
26 10 2018 01:30 2796.218018 10.7575798 3179.963286 208.4645996
26 10 2018 01:40 2965.936035 10.53954029 3084.432533 212.677002
26 10 2018 01:50 2756.332031 10.24129963 2933.236264 215.8251953
26 10 2018 02:00 2337.589111 9.230516434 2293.528205 227.9160004
26 10 2018 02:10 2025.720947 8.802256584 2017.377845 238.5899048
26 10 2018 02:20 1679.739014 8.094773293 1584.727579 233.4765015
26 10 2018 02:30 1864.375977 8.409223557 1772.319964 226.0341034
26 10 2018 02:40 1947.06897 8.623599052 1904.742125 227.9302063
26 10 2018 02:50 1926.866943 8.531592369 1847.510971 236.3849945
26 10 2018 03:00 1578.839966 8.088337898 1580.982735 227.6338959
26 10 2018 03:10 2013.057983 8.757154465 1988.769969 227.0747986
26 10 2018 03:20 2337.906006 9.238349915 2298.637835 230.5447998
26 10 2018 03:30 2433.198975 9.692975044 2585.940383 230.9868011
26 10 2018 03:40 2237.412109 9.290600777 2332.757434 231.278595
26 10 2018 03:50 2394.553955 9.438552856 2429.656306 230.6629944
26 10 2018 04:00 2706.662109 9.997450829 2790.515978 229.9098969
26 10 2018 04:10
                 2637.998047 9.931217194 2748.587826 224.0453033
26 10 2018 04:20
                 2324.780029 9.30853653 2344.483341 224.6687927
26 10 2018 04:30 2206.531006 8.889866829 2073.249101 229.449295
26 10 2018 04:40
                 1828.883057 8.331892014 1725.396062 226.0314026
26 10 2018 04:50 1963.240967 8.49323082 1823.820965 223.5010986
26 10 2018 05:00 2095.50293 9.028562546 2162.420151 217.1535034
26 10 2018 05:10 2467.479004 9.606294632 2521.978684 217.894104
26 10 2018 05:20 2758.424072 10.01632977 2802.213665 219.5634003
26 10 2018 05:30 2940.833984 10.61100006 3117.083764 215.446106
26 10 2018 05:40 2814.88501 10.79582977 3195.489969 213.9429932
```

```
26 10 2018 05:50 3028.819092 11.28983974 3365.456701 208.8659973
                 3175.551025 11.65614033 3458.046783 209.6392975
26 10 2018 06:00
                 3073.662109 11.28382015 3363.708991 210.9420013
26 10 2018 06:10
26 10 2018 06:20 2839.141113 10.50998974 3070.537771 214.021698
26 10 2018 06:30 2857.448975 10.48945045 3060.743072 211.1177979
26 10 2018 06:40 2573.049072 10.22929955 2926.628015 209.6502075
26 10 2018 06:50 2654.770996 10.19079018 2905.137183 214.7064972
26 10 2018 07:00 3052.409912 11.1600399 3326.068193 213.8191986
26 10 2018 07:10 2902.477051 10.8277998 3208.193806 214.1907959
26 10 2018 07:20
                 2672.479004 10.21899033 2920.917375 214.6506042
26 10 2018 07:30
                 2477.87207 10.07573986 2838.302874 212.4181976
26 10 2018 07:40 2755.226074 10.44241047 3037.882919 210.7169037
26 10 2018 07:50 2860.335938 10.59270954 3108.853295 213.4832001
26 10 2018 08:00 2549.979004 10.07917976 2840.359191 212.0514069
26 10 2018 08:10 2323.964111 9.470280647 2450.477009 216.4812927
26 10 2018 08:20 1968.588013 8.906093597 2083.638241 209.3318024
26 10 2018 08:30
                 1502.655029 7.861734867 1451.84006 204.8074951
26 10 2018 08:40 1624.807007 8.105903625 1591.214037 210.1838074
26 10 2018 08:50 1360.430054 7.514545918 1265.471465 210.6212006
26 10 2018 09:00 1252.774048 7.347805023 1180.577321 215.6712036
26 10 2018 09:10 1273.29895 7.559987068 1288.995362 207.9698944
26 10 2018 09:20 1234.333008 7.427340984 1220.59769 205.3168945
26 10 2018 09:30
                 1029.935059 6.983926773 1008.7696
                                                     207.2324982
26 10 2018 09:40
                 1263.457031 7.531054974 1273.985903 204.1242065
26 10 2018 09:50
                 1179.285034 7.268126965 1141.406655 202.7404022
26 10 2018 10:00
                 1536.01001 8.046833992 1556.929626 200.9445038
26 10 2018 10:10
                 1309.828979 7.655043125 1339.079264 208.6566925
                 1070.855957 7.08301115 1053.799235 207.1495972
26 10 2018 10:20
26 10 2018 10:30 1081.906982 7.196927071 1107.159743 210.0337982
                 1069.46106 7.18073988 1099.471077 207.9884949
26 10 2018 10:40
26 10 2018 10:50
                 1045.390015 7.105535984 1064.213356 202.7263031
26 10 2018 11:00 896.690918 6.711753845 891.3452456 204.3258057
26 10 2018 11:10
                 850.7180176 6.709503174 890.4110807 205.7142029
26 10 2018 11:20
                 903.958374 6.897519112 970.5149178 199.3381958
26 10 2018 11:30 864.2872925 6.595332146 843.7886541 206.8289948
26 10 2018 11:40
                 869.5587158 6.634077072 859.4431363 206.3226929
                 809.4337769 6.58885622 841.1887282 206.9508972
26 10 2018 11:50
26 10 2018 12:00
                 646.3552856 6.090568066 654.9680853 209.4331055
26 10 2018 12:10 659.2728271 6.284498215 724.2433165 205.2931061
26 10 2018 12:20 635.6224976 6.104347229 659.7574103 207.6058044
26 10 2018 12:30 603.477417 6.091494083 655.2893123 206.1116028
26 10 2018 12:40 559.3568115 5.859893799 578.7366202 211.884903
26 10 2018 12:50 622.1710205 6.12493515 666.9511057 208.1255035
26 10 2018 13:00 802.7460938 6.643848896 863.4183311 204.6217957
26 10 2018 13:10 812.9017944 6.772656918 916.8485543 202.0908051
26 10 2018 13:20 639.5031128 6.218861103 700.3452853 205.3034058
26 10 2018 13:30 815.6287231 6.756517887 910.0478849 201.1811066
26 10 2018 13:40 890.4815063 6.922927856 981.6676772 198.4187012
26 10 2018 13:50 925.9047241 7.14073801 1080.622889 198.9989929
26 10 2018 14:00 693.0465698 6.371658802 756.6964075 205.2418976
26 10 2018 14:10
                 683.5308228 6.476270199 796.7399173 197.8450012
26 10 2018 14:20
                 782.4733276 6.691693783 883.0398431 199.7221069
26 10 2018 14:30
                 1125.01001 7.641012192 1331.613544 203.7662964
26 10 2018 14:40
                 1499.093994 8.393803596 1762.925221 200.6062927
26 10 2018 14:50
                 1293.171997 7.956307888 1505.076125 202.889801
26 10 2018 15:00 1244.733032 7.834816933 1436.86986 204.697998
26 10 2018 15:10
                 1284.390991 7.98324585 1520.416912 206.277298
26 10 2018 15:20 1158.775024 7.755801201 1393.410037 208.884903
26 10 2018 15:30 1138.265991 7.768578053 1400.387701 203.9824982
```

```
26 10 2018 15:40 1275 7.922171116 1485.747208 203.884201
                 1336.878052 8.03476429 1549.967222 201.6463013
26 10 2018 15:50
                 1303.229004 8.007005692 1534.011129 201.5830994
26 10 2018 16:00
26 10 2018 16:10 1322.499023 8.06844902 1569.434945 201.6965027
26 10 2018 16:20 1209.227051 7.759208202 1395.268757 200.2966003
26 10 2018 16:30 1170.333008 7.824069977 1430.916143 195.8276978
26 10 2018 16:40 1107.837036 7.56489706 1291.553602 192.7102966
                 1297.583008 7.949559212 1501.24494 191.4779968
26 10 2018 16:50
26 10 2018 17:00 1365.464966 8.236436844 1668.160635 191.5545044
26 10 2018 17:10
                 1605.765991 8.685991287 1943.863876 193.6687927
26 10 2018 17:20
                 1623.822998 8.660435677 1927.810592 194.4922943
26 10 2018 17:30 1903.572998 9.108887672 2214.409997 195.5832062
26 10 2018 17:40 2043.791992 9.343907356 2367.62657 194.0166931
26 10 2018 17:50 2121.274902 9.496031761 2467.383067 193.2942963
26 10 2018 18:00 2041.832031 9.296235085 2336.440267 194.1524963
26 10 2018 18:10 2047.51001 9.392585754 2399.513207 192.4205933
26 10 2018 18:20 2008.958008 9.288022995 2331.072708 192.5635071
26 10 2018 18:30 2316.586914 9.895195961 2725.197033 191.0467072
26 10 2018 18:40 2393.346924 9.990717888 2786.317125 192.097702
26 10 2018 18:50 2459.749023 10.27332973 2950.670335 190.1634979
26 10 2018 19:00 2304.297119 9.936841011 2752.202082 189.6268005
26 10 2018 19:10 2186.802002 9.696469307 2588.463964 190.3058014
26 10 2018 19:20
                 2249.13208 9.876851082 2713.123312 189.1719971
26 10 2018 19:30
                 2639.389893 10.52814007 3079.099567 191.3332062
26 10 2018 19:40 2796.198975 10.69219971 3152.586001 193.2232056
26 10 2018 19:50 2991.726074 11.01795006 3278.742843 193.7503967
26 10 2018 20:00 2971.001953 11.03497982 3284.652949 195.5523987
26 10 2018 20:10 2912.885986 10.94540024 3252.821995 197.4951935
26 10 2018 20:20 2954.563965 10.96868038 3261.271596 198.107605
26 10 2018 20:30 2926.743896 10.83491039 3210.985724 196.8087006
26 10 2018 20:40 2931.021973 10.85105038 3217.277848 197.066803
26 10 2018 20:50 2799.008057 10.60074997 3112.482047 196.9687958
26 10 2018 21:00 2701.047119 10.40458965 3019.066172 194.8753967
26 10 2018 21:10 2894.25708 10.95975971 3258.048641 191.5514984
26 10 2018 21:20 3022.510986 11.30473995 3369.750226 191.7024994
26 10 2018 21:30
                 3037.974121 11.28547955 3364.191532 190.9909973
26 10 2018 21:40
                 2967.532959 11.17591
                                         3331.077802 189.9506989
26 10 2018 21:50
                             11.53606987 3430.60626 189.033493
                 3124.75
26 10 2018 22:00 3471.289063 12.18682957 3548.059689 186.7165985
26 10 2018 22:10 3501.753906 12.09259987 3535.620884 186.9709015
26 10 2018 22:20 3476.749023 12.14881992 3543.21883 188.1228943
26 10 2018 22:30 3116.950928 11.40250015 3396.783293 189.4756012
26 10 2018 22:40 2969.756104 10.99392986 3270.294616 188.7929993
26 10 2018 22:50 3032.303955 11.25510025 3355.265817 189.5341949
26 10 2018 23:00 3088.802979 11.40538025 3397.550137 189.8444977
26 10 2018 23:10 3073.774902 11.23359966 3348.831017 188.9346008
26 10 2018 23:20 2916.436035 10.89266014 3233.212383 187.6759033
26 10 2018 23:30 2554.309082 10.17675018 2897.19332 187.0946045
26 10 2018 23:40 2188.599121 9.492656708 2465.16695 188.5249023
26 10 2018 23:50
                 1945.571045 9.002462387 2145.578428 189.8072968
27 10 2018 00:00
                 2295.968994 9.688545227 2582.735079 194.9313049
27 10 2018 00:10 2161.019043 9.422680855 2419.245016 192.9732056
27 10 2018 00:20
                 2288.727051 9.674724579 2572.691181 195.2006989
27 10 2018 00:30 2379.397949 9.843082428 2690.611208 194.6246033
27 10 2018 00:40 2329.562012 9.689652443 2583.536868 194.8448029
27 10 2018 00:50 2360.214111 9.778418541 2646.451089 196.1291046
27 10 2018 01:00 2411.12793 9.964227676 2769.658436 199.5659027
27 10 2018 01:10 2557.814941 10.42181969 3027.687157 196.7575073
27 10 2018 01:20 2576.893066 10.60385036 3113.876819 194.6009979
```

```
27 10 2018 01:30 2680.695068 10.62236023 3122.152142 192.3000031
27 10 2018 01:40 2660.068115 10.80949974 3200.952292 189.1396942
27 10 2018 01:50 2620.593994 10.54988956 3089.244131 186.7765961
27 10 2018 02:00 2369.158936 9.971117973 2774.012816 188.5195007
27 10 2018 02:10 2290.266113 9.810051918 2668.227901 189.2245941
27 10 2018 02:20 2478.438965 10.14943027 2881.567921 187.8993073
27 10 2018 02:30 2624.760986 10.52416992 3077.234268 188.699707
27 10 2018 02:40 2633.743896 10.55725002 3092.648996 190.5979004
27 10 2018 02:50 2713.937988 10.63607025 3128.224697 194.4006958
27 10 2018 03:00
                 2616.437988 10.66423035 3140.54676 191.9105988
27 10 2018 03:10 2540.680908 10.54362965 3086.337138 189.6278992
27 10 2018 03:20 2453.169922 10.21263981 2917.384132 184.0868988
27 10 2018 03:30 2331.6521
                             9.788038254 2653.108849 187.0970001
27 10 2018 03:40 2441.935059 10.10394001 2855.053953 186.8231964
27 10 2018 03:50 2521.441895 10.19857979 2909.519454 187.1430969
27 10 2018 04:00 2734.281006 10.65038967 3134.515751 185.7987061
27 10 2018 04:10 2454.147949 10.12693024 2868.53169 185.7489014
27 10 2018 04:20 2227.031006 9.77510643 2644.151599 184.9243927
27 10 2018 04:30 2178.635986 9.715175629 2601.902331 185.2210999
27 10 2018 04:40 2055.648926 9.491533279 2464.429309 186.5679932
27 10 2018 04:50 1977 9.267145157 2317.433237 188.656601
27 10 2018 05:00 1908.391968 9.15531826 2244.561188 188.8365021
27 10 2018 05:10 1871.225952 9.03036499 2163.584192 190.1708984
27 10 2018 05:20 1806.485962 8.911450386 2087.070582 189.135498
27 10 2018 05:30 1750.30603 8.834492683 2037.8909
                                                     188.4761963
27 10 2018 05:40 1785.363037 8.871011734 2061.192763 189.2324066
27 10 2018 05:50 1522.817017 8.335790634 1727.750102 190.9062958
27 10 2018 06:00 1455.92395 8.189509392 1640.316123 189.6728973
27 10 2018 06:10 1493.94397 8.275614738 1691.557104 188.3195953
27 10 2018 06:20 1309.78894 7.861826897 1451.891382 186.3838959
27 10 2018 06:30 1189.459961 7.567905903 1293.122863 185.9427948
27 10 2018 06:40 1226.963989 7.560667992 1289.349952 186.0735931
27 10 2018 06:50 1038.987061 7.147267818 1083.684927 187.3052979
27 10 2018 07:00 1108.401001 7.272129059 1143.352607 191.6139984
27 10 2018 07:10 1452.869995 8.098690987 1587.009326 190.3367004
27 10 2018 07:20 1529.447021 8.127150536 1603.629528 190.7494049
                 1197.97998 7.452299118 1233.350297 187.1029968
27 10 2018 07:30
                 1235.70105 7.53298521 1274.983801 183.0410004
27 10 2018 07:40
27 10 2018 07:50 1351.918945 7.706758022 1366.809215 180.9302979
27 10 2018 08:00 1016.29303 6.832480907 942.3269917 178.0301971
27 10 2018 08:10 1307.985962 7.708865166 1367.946104 180.053299
27 10 2018 08:20 1531.810059 7.892126083 1468.840108 183.1804962
27 10 2018 08:30 1190.427002 7.291770935 1152.935897 184.1423035
27 10 2018 08:40 1124.572998 7.103898048 1063.453823 187.0709991
27 10 2018 08:50
                 1112.737061 7.371230125 1192.267382 188.054306
27 10 2018 09:00
                 1278.578003 7.674757004 1349.610719 190.1701965
27 10 2018 09:10
                 1771.32605 8.657233238 1925.801735 192.3025055
                 1682.487061 8.48105526 1816.324115 189.4291992
27 10 2018 09:20
27 10 2018 09:30 2393.503906 9.879600525 2714.939834 190.3787994
27 10 2018 09:40
                 2027.64502 9.224886894 2289.857119 188.3811035
27 10 2018 09:50
                 1704.787964 8.442369461 1792.576716 187.0009003
27 10 2018 10:00
                 2357.226074 9.996139526 2789.699329 187.0287933
27 10 2018 10:10
                 2215.134033 9.778508186 2646.513275 185.4743042
27 10 2018 10:20 2025.146973 8.978758812 2130.306644 185.9476929
27 10 2018 10:30 2268.26709 9.556306839 2483.886097 185.0422974
27 10 2018 10:40 1902.057983 8.910794258 2086.6501
                                                     185.3863983
27 10 2018 10:50 2056.969971 9.267894745 2317.922773 183.1091003
27 10 2018 11:00 2436.954102 10.13218975 2871.592599 187.6430969
27 10 2018 11:10 1785.920044 8.673190117 1935.817584 186.2205048
```

```
27 10 2018 11:20
                 1377.463989 7.742516994 1386.176008 187.1813965
                 1117.078979 7.416943073 1215.312439 190.5953064
27 10 2018 11:30
                 1427.090942 7.977560997 1517.173079 189.9219971
27 10 2018 11:40
27 10 2018 11:50
                 1401.225952 8.057383537 1563.027183 191.3690033
27 10 2018 12:00
                 1249.871948 7.696845055 1361.468092 193.3177032
27 10 2018 12:10
                 1211.491943 7.588336945 1303.810098 193.1374969
27 10 2018 12:20
                 1867.588989 8.763851166 1993.010627 190.5643005
                 1794.838013 8.699978828 1952.667127 190.5455017
27 10 2018 12:30
27 10 2018 12:40
                 1703.949951 8.462881088 1805.15397 192.2714996
                 1431.654053 8.035511971 1550.398092 197.002594
27 10 2018 12:50
27 10 2018 13:00
                 1236.438965 7.539583206 1278.398609 199.5632019
27 10 2018 13:10
                 1460.281982 8.035106659 1550.164514 196.6233063
27 10 2018 13:20
                 1701.796997 8.347328186 1734.723966 195.396698
27 10 2018 13:30
                 1833.314941 8.877878189 2065.581353 194.8970947
27 10 2018 13:40
                 1953.927979 8.917233467 2090.77754 193.7590027
27 10 2018 13:50
                 2125.137939 9.419727325 2417.307991 193.8023987
27 10 2018 14:00 2512.217041 10.32106972 2976.108764 193.7203064
27 10 2018 14:10 3068.762939 11.90485001 3506.372784 196.8843994
27 10 2018 14:20
                 2995.500977 11.75129986 3477.866223 195.6246948
                 3134.218018 12.09883022 3536.488818 196.1293945
27 10 2018 14:30
                 3556.066895 13.16786957 3600 196.4936066
27 10 2018 14:40
                 3603.792969 13.74728966 3600 195.1136932
27 10 2018 14:50
27 10 2018 15:00
                 3604.121094 13.8489399 3600
                                               196.4837952
27 10 2018 15:10
                 3604.283936 13.84208965 3600
                                               197.2292023
27 10 2018 15:20
                 3604.22998 14.1080904 3600 196.4004059
27 10 2018 15:30
                 3604.333984 14.06151962 3600 198.2794952
27 10 2018 15:40
                 3604.207031 14.11188984 3600 201.1277008
27 10 2018 15:50
                 3604.291016 14.34854984 3600
                                               202.5464935
27 10 2018 16:00
                 3604.211914 13.87127972 3600
                                               200.7330933
                 3604.437012 14.28376007 3600
27 10 2018 16:10
                                               200.7619934
27 10 2018 16:20
                 3604.260986 14.90793037 3600 202.6598969
27 10 2018 16:30
                 3604.366943 15.13374996 3600 202.9761047
27 10 2018 16:40
                 3604.170898 14.72033024 3600
                                               203.2127991
27 10 2018 16:50
                 3604.238037 14.56820965 3600
                                               201.7911987
                 3604.043945 14.20302963 3600
27 10 2018 17:00
                                               201.0406036
27 10 2018 17:10
                 3604.184082 14.53151035 3600
                                               201.1000977
27 10 2018 17:20
                 3604.47998 14.99201965 3600
                                               200.8670959
                                               201.2321014
27 10 2018 17:30
                 3604.322998 15.00349998 3600
27 10 2018 17:40
                 3604.148926 16.28450966 3600
                                               201.0070953
27 10 2018 17:50
                 3603.968018 17.36149025 3600
                                               199.3182983
27 10 2018 18:00
                 3603.831055 17.78700066 3600
                                               198.2846069
27 10 2018 18:10
                 3603.964111 18.00081062 3600
                                               198.4942017
27 10 2018 18:20
                 3603.568115 18.53075981 3600
                                               197.184494
27 10 2018 18:30
                 3603.605957 18.55154991 3600
                                               198.5570984
27 10 2018 18:40
                 3603.509033 18.2570591 3600 201.1183929
27 10 2018 18:50
                 3603.422119 18.31818962 3600 203.1914978
27 10 2018 19:00
                 3603.726074 18.47750092 3600
                                               201.4593964
                 3603.768066 17.85326958 3600
                                               196.5942993
27 10 2018 19:10
27 10 2018 19:20
                 3603.949951 18.11927986 3600
                                               195.5155945
                                               196.410202
27 10 2018 19:30
                 3603.895996 18.27791023 3600
27 10 2018 19:40
                 3603.738037 18.20969963 3600
                                               199.1376038
27 10 2018 19:50
                 3603.500977 18.22953987 3600
                                               200.9575958
27 10 2018 20:00
                 3603.510986 18.10845947 3600
                                               202.3614044
27 10 2018 20:10
                 3603.574951 17.92708015 3600
                                               202.820694
27 10 2018 20:20
                 3603.604004 18.38174057 3600
                                               202.5673065
27 10 2018 20:30
                 3603.168945 18.77494049 3600
                                               201.7353973
27 10 2018 20:40
                 3602.750977 18.95727921 3600 199.9595032
27 10 2018 20:50
                 3602.801025 19.19765091 3600 200.1911011
27 10 2018 21:00 3603.079102 19.09687042 3600 199.2447968
```

```
27 10 2018 21:10
                 3603.211914 19.59872055 3600
                                                200.1356049
27 10 2018 21:20
                 3602.955078 19.28226089 3600
                                                197.1734009
  10 2018 21:30
                 3603.313965 18.86260986 3600
                                               197.1905975
  10 2018 21:40
                 3603.050049 19.28360939 3600
                                               199.9062042
27 10 2018 21:50
                 3603.072998 18.49728012 3600
                                               202.4602966
27 10 2018 22:00
                  3603.089111 18.87932968 3600
                                                200.0437012
27 10 2018 22:10
                 3602.977051 18.38727951 3600
                                               199.3325958
27 10 2018 22:20
                 3603.145996 18.22212982 3600
                                                198.8849945
27 10 2018 22:30
                 3603.00708 17.82255936 3600
                                                198.2696075
                  3603.187012 17.62401962 3600
                                                199.2214966
27 10 2018 22:40
                  3603.019043 18.2425499 3600
27 10 2018 22:50
                                                202.4161072
27 10 2018 23:00
                 3602.885986 18.09872055 3600
                                                203.0722046
27 10 2018 23:10
                  3603.279053 17.74402046 3600
                                                204.3509979
27 10 2018 23:20
                 3603.262939 17.70875931 3600
                                               205.6320038
27 10 2018 23:30
                 3603.399902 17.74461937 3600
                                                204.7212067
27 10 2018 23:40
                 3603.218018 17.5202198 3600
                                                204.1600037
27 10 2018 23:50
                 3602.913086 16.77002907 3600
                                               205.0921021
28 10 2018 00:00
                 3602.985107 16.16231918 3600
                                               206.8717957
                 3602.920898 15.92366028 3600
                                               208.9472046
28 10 2018 00:10
28 10 2018 00:20
                  3603.125
                             16.31032944 3600
                                                209.6513977
28 10 2018 00:30
                 3603.069092 16.33429909 3600
                                                208.0041046
                 3602.878906 16.11364937 3600
                                                208.0930939
28 10 2018 00:40
28 10 2018 00:50
                  3602.965088 15.64929008 3600
                                                207.8506012
28 10 2018 01:00
                 3603.196045 15.34860039 3600
                                                208.7902985
28 10 2018 01:10
                 3603.042969 15.53886986 3600
                                                208.8880005
28 10 2018 01:20
                  3602.886963 15.88051987 3600
                                                210.9228058
28 10 2018 01:30
                 3602.711914 15.3596096 3600
                                                208.0953979
                                         3600
28 10 2018 01:40
                 3603.162109 14.7962904
                                                206.9304962
28 10 2018 01:50
                 3603.156982 14.57221985 3600
                                                206.1708984
28 10 2018 02:00
                 3602.957031 14.34449005 3600
                                               206.8276978
                 3603.176025 14.2698698 3600
                                               205.7550049
28 10 2018 02:10
28 10 2018 02:20
                 3603.095947 14.2027998 3600 204.1134033
28 10 2018 02:30
                 3602.87793 14.72412968 3600
                                                206.0498047
28 10 2018 02:40
                 3603.145996 14.77447987 3600
                                                204.8446045
                 3603.010986 14.88008976 3600
                                                204.9532013
28 10 2018 02:50
28 10 2018 03:00
                  3603.016113 14.51611042 3600
                                                201.4705048
28 10 2018 03:10
                  3602.927979 14.44637012 3600
                                                198.6562042
28 10 2018 03:20
                  3603.012939 14.46407032 3600
                                                198.7169952
28 10 2018 03:30
                 3603.062988 15.16530991 3600
                                                202.4515991
                 3603.065918 14.99201012 3600
28 10 2018 03:40
                                                202.9597015
                                               198.8544006
28 10 2018 03:50
                 3603.228027 15.12637997 3600
28 10 2018 04:00
                 3603.259033 15.06359959 3600
                                               199.2290039
28 10 2018 04:10
                 3603.041016 15.0912199
                                         3600
                                                201.2964935
28 10 2018 04:20
                 3602.853027 14.6574297 3600
                                               203.0345001
28 10 2018 04:30
                 3602.093994 13.96506023 3600
                                               201.7463074
28 10 2018 04:40
                 3596.356934 13.95248985 3600
                                               201.5811005
28 10 2018 04:50
                 3601.780029 13.85505962 3600
                                                201.2415924
28 10 2018 05:00
                 3601.104004 13.52015972 3600
                                                200.5498962
28 10 2018 05:10
                 3602.335938 13.85816002 3600
                                                202.947998
                                                202.4376068
28 10 2018 05:20
                  3603.073975 14.45565033 3600
                  3603.288086 14.94182014 3600
28 10 2018 05:30
                                                201.7077026
28 10 2018 05:40
                  3603.35498 15.02729988 3600
                                                202.4488983
28 10 2018 05:50
                  3603.191895 14.36569023 3600
                                                201.6970062
28 10 2018 06:00
                 3603.397949 15.05239964 3600
                                                203.1383057
28 10 2018 06:10
                 3603.488037 15.5544796 3600
                                                200.4333954
28 10 2018 06:20
                 3603.475098 15.56937027 3600
                                                200.5605011
28 10 2018 06:30
                 3603.388916 15.46685982 3600
                                               200.3778992
28 10 2018 06:40
                 3603.375977 14.58203983 3600
                                               196.4512024
28 10 2018 06:50 3601.799072 13.91329956 3600
                                               196.3318939
```

```
28 10 2018 07:00 3603.329102 14.09961987 3600 198.7283936
                 3603.462891 13.73239994 3600 199.2590027
28 10 2018 07:10
28 10 2018 07:20
                 3602.875977 13.79467964 3600 200.0236053
28 10 2018 07:30 3601.5979
                             14.04496002 3600 202.5478058
28 10 2018 07:40 3592.099121 13.51515961 3600 202.6492004
28 10 2018 07:50 2975.393066 11.16501045 3327.643094 196.5726929
28 10 2018 08:00 3317.018066 12.12314034 3539.81347 197.8406067
28 10 2018 08:10 3559.520996 12.84082031 3595.907243 195.0917969
28 10 2018 08:20 3443.894043 12.71399021 3591.672802 192.7850037
28 10 2018 08:30
                 2759.331055 10.7372303 3171.556133 190.6773987
28 10 2018 08:40 3326.238037 11.7657299 3480.725961 194.9985046
28 10 2018 08:50 3407.157959 12.15909958 3544.551468 193.0753021
28 10 2018 09:00 3242.235107 11.88918972 3503.657792 195.672699
28 10 2018 09:10 2525.965088 10.13879967 2875.427617 185.6074982
28 10 2018 09:20
                 2190.191895 9.297509193 2337.273174 187.6296997
28 10 2018 09:30 2176.952881 9.419101715 2416.897709 187.5110016
28 10 2018 09:40
                 1631.36499 8.317079544 1716.463592 186.4306946
28 10 2018 09:50 920.3499756 6.673205853 875.426586 183.434494
28 10 2018 10:00 635.0123901 6.244084835 709.4742854 188.769104
28 10 2018 10:10 458.1279907 5.51913023 474.5199234 193.7436981
28 10 2018 10:20
                 620.6818848 6.060937881 644.7380129 184.9434967
                 980.4221802 7.131923199 1076.498377 182.8218994
28 10 2018 10:30
28 10 2018 10:40
                 830.4036865 6.643332005 863.2077854 187.3766022
28 10 2018 10:50
                 849.5596924 6.712830067 891.7921508 190.7803955
28 10 2018 11:00 622.1508179 5.977941036 617.5783872 191.9949036
28 10 2018 11:10 835.8804932 6.831011772 941.6961756 190.3816986
28 10 2018 11:20 381.0252991 5.157579899 375.6762335 195.732193
28 10 2018 11:30 361.4081116 5.209690094 389.2335632 188.5021057
28 10 2018 11:40 270.7579956 4.834301949 296.3121694 200.739502
28 10 2018 11:50
                 327.8334961 5.238652229 396.8653572 200.8195038
28 10 2018 12:00 360.8920898 5.333436966 422.3366544 196.2342072
28 10 2018 12:10 302.450592 4.993638992 334.4384478 195.7790985
28 10 2018 12:20
                 258.5716858 4.641691208 252.6084117 192.8892059
28 10 2018 12:30 346.4833069 5.032383919 343.995287 189.5480042
28 10 2018 12:40 506.8051147 5.767146111 549.2338909 193.0924988
28 10 2018 12:50
                 210.5372925 4.594453812 242.2645231 195.0836029
                 139.4942932 4.146900177 150.7660286 190.9264984
28 10 2018 13:00
28 10 2018 13:10
                 144.0617065 3.888122082 107.5207732 189.6493073
28 10 2018 13:20 99.29115295 3.633090973 68.32324553 186.6506042
28 10 2018 13:30 232.4602051 4.779697895 283.6659539 186.1197052
28 10 2018 13:40 139.3159027 4.205925941 162.2129418 187.5722961
28 10 2018 13:50 268.3096008 4.917338848 315.9491412 189.2290955
28 10 2018 14:00 384.2763977 5.429175854 448.8549236 195.5133972
28 10 2018 14:10 433.680603 5.652092934 513.8350163 194.8166046
28 10 2018 14:20 222.5433044 4.672091007 259.3412037 196.6914063
28 10 2018 14:30 363.5379028 5.446968079 453.8729014 198.0186005
28 10 2018 14:40 990.2236938 7.25941515 1137.178457 197.5397949
28 10 2018 14:50
                 1989.280029 9.240838051 2300.261118 197.9976959
28 10 2018 15:00 2469.481934 10.36888981 3000.942813 203.6629028
28 10 2018 15:10 2324.885986 9.879103661 2714.611745 205.6636963
28 10 2018 15:20
                 2090.937988 9.494224548 2466.196409 203.0254974
28 10 2018 15:30
                 2033.123047 9.1689291 2253.412393 200.6443939
28 10 2018 15:40
                 2162.264893 9.539792061 2471.104179 203.0894928
28 10 2018 15:50 2170.702881 9.577106476 2499.844704 200.7153015
28 10 2018 16:00 2397.645996 10.05173016 2823.849185 201.4598999
28 10 2018 16:10 2546.876953 10.3366003 2984.244681 203.4255066
28 10 2018 16:20 2446.304932 10.09648037 2850.646433 204.1932068
28 10 2018 16:30 2257.335938 9.732190132 2614.021145 203.9826965
28 10 2018 16:40 2314.674072 9.873211861 2710.715135 202.9091034
```

```
28 10 2018 16:50 1912.844971 8.938714027 2104.559754 204.3121948
28 10 2018 17:00 1850.676025 8.941493988 2106.344908 207.6891022
28 10 2018 17:10
                 1458.051025 8.241666794 1671.27608 206.3742065
28 10 2018 17:20 1304.506958 7.94648695 1499.502451 204.8708038
28 10 2018 17:30 1246.796997 7.962556839 1508.627956 203.7033997
28 10 2018 17:40 1224.364014 7.908047199 1477.786964 205.4243927
28 10 2018 17:50
                 1069.552979 7.519024849 1267.777818 204.4832001
                 1102.754028 7.633553982 1327.655269 203.472702
28 10 2018 18:00
28 10 2018 18:10 1215.571045 7.938907146 1495.207769 201.8141937
                 1486.307007 8.494750023 1824.757139 201.0886993
28 10 2018 18:20
28 10 2018 18:30
                 1602.248047 8.721046448 1965.948129 195.3589935
28 10 2018 18:40
                 1977.958984 9.352230072 2373.075522 194.614502
28 10 2018 18:50
                 1845.852051 9.102841377 2210.488745 195.5131989
28 10 2018 19:00
                 1879.072998 9.218741417 2285.850511 193.9609985
28 10 2018 19:10
                 1740.415039 8.943155289 2107.411876 194.0910034
28 10 2018 19:20
                 1547.853027 8.499486923 1827.677215 191.4463959
28 10 2018 19:30
                 1711.459961 8.707772255 1957.577064 193.5720978
28 10 2018 19:40 1515.025024 8.4016819 1767.722819 195.8634949
28 10 2018 19:50 1406.458008 8.109599113 1593.370335 195.2375946
28 10 2018 20:00 1439.047974 8.289694786 1699.998085 194.5513
28 10 2018 20:10 1390.109985 8.107868195 1592.360188 196.675705
28 10 2018 20:20 1282.083984 7.824910164 1431.38112 197.1127014
28 10 2018 20:30
                 1063.017944 7.413437843 1213.53438 202.9992981
28 10 2018 20:40
                 1134.537964 7.573410034 1295.996623 204.1280975
28 10 2018 20:50 1439.331055 8.215806007 1655.894783 207.1858978
28 10 2018 21:00 1410.024048 8.085172653 1579.142329 210.0285034
28 10 2018 21:10 992.7426147 7.232126236 1124.002652 215.6970978
28 10 2018 21:20 1245.963989 7.968036175 1511.745766 216.6985016
28 10 2018 21:30 1683.603027 9.060448647 2183.030562 215.8083954
                 1879.758057 9.318840981 2351.223081 213.3592072
28 10 2018 21:40
28 10 2018 21:50 1854.95105 9.185571671 2264.242482 211.7021942
28 10 2018 22:00 1722.391968 8.932435989 2100.529556 210.0737
28 10 2018 22:10 1306.180054 7.702823162 1364.687658 213.9261017
28 10 2018 22:20 1226.499023 7.64164114 1331.947667 224.5258026
28 10 2018 22:30 1239.730957 7.634296894 1328.049235 224.1170959
                 1632.36499 8.417951584 1777.645805 223.478302
28 10 2018 22:40
                 2059.954102 9.400476456 2404.685501 221.6688995
28 10 2018 22:50
28 10 2018 23:00
                 1523.671997 8.323020935 1720.044277 223.0541992
28 10 2018 23:10 1412.483032 8.011852264 1536.791307 226.8598938
28 10 2018 23:20
                 1481.182007 8.200429916 1646.778021 232.6497955
28 10 2018 23:30 1860.334961 8.971857071 2125.864308 231.040802
28 10 2018 23:40 2121.802002 9.559948921 2486.69172 227.8824005
28 10 2018 23:50 2078.25
                             9.419079781 2416.883324 223.7015076
29 10 2018 00:00
                 1902.157959 9.200600624 2274.029218 221.9290009
29 10 2018 00:10
                 1951.307983 9.457701683 2442.221018 217.8625946
29 10 2018 00:20
                 1810.28894 9.250750542 2306.72962 212.9028015
                 1528.296021 8.560294151 1865.303178 209.8231049
29 10 2018 00:30
29 10 2018 00:40 1439.78894 8.393961906 1763.021578 207.5274048
29 10 2018 00:50 1279.754028 8.095306396 1585.037982 199.1790009
29 10 2018 01:00
                 1123.98999 7.635104179 1328.477418 198.4328003
29 10 2018 01:10
                 1037.95105 7.357553005 1185.432228 203.4505005
29 10 2018 01:20
                 1168.172974 7.947142124 1499.87396 199.9732056
29 10 2018 01:30
                 1074.984009 7.745872021 1388.001015 202.1389008
29 10 2018 01:40 1354.130981 8.3141222 1714.682396 196.2490997
29 10 2018 01:50
                 2313.387939 10.27873039 2953.580784 191.891098
29 10 2018 02:00 2320.27002 10.44999981 3041.611689 190.4837036
29 10 2018 02:10 1429.899048 8.357952118 1741.155221 184.0012054
29 10 2018 02:20 995.5056152 7.448087215 1231.191578 180.024704
29 10 2018 02:30 1411.849976 8.420119286 1778.96945 179.8816986
```

```
29 10 2018 02:40 950.3939819 7.377765179 1195.542956 175.6166992
29 10 2018 02:50 673.1002197 6.617805958 852.8481851 179.5059967
29 10 2018 03:00 866.2836304 7.110805035 1066.659084 173.017807
29 10 2018 03:10 856.098877 6.969286919 1002.222591 175.539093
29 10 2018 03:20 1054.07605 7.477972031 1246.566807 184.9620972
29 10 2018 03:30 1128.386963 7.686040878 1355.660597 190.7344971
29 10 2018 03:40 912.960083 7.190812111 1104.251037 186.713501
29 10 2018 03:50 484.8819885 5.948963165 607.9071849 192.0081024
29 10 2018 04:00 349.8291016 5.521790981 475.2903624 189.0662994
29 10 2018 04:10 426.1827087 5.906611919 593.9331435 184.2174072
29 10 2018 04:20 610.0106812 6.45571804 788.7780391 185.131897
29 10 2018 04:30 319.2260132 5.385024071 436.525032 185.1320038
29 10 2018 04:40 376.3731995 5.590593815 495.4423319 189.7682037
29 10 2018 04:50 321.8877869 5.315040112 417.3328558 183.1242981
29 10 2018 05:00 425.642395 5.666245937 518.119377 184.6826935
29 10 2018 05:10 736.2938843 6.699279785 886.175163 182.7516937
29 10 2018 05:20 820.9904785 6.911909103 976.8214002 183.6656036
29 10 2018 05:30 991.4741211 7.345030785 1179.198158 183.4149017
29 10 2018 05:40 1244.162964 7.878726959 1461.332258 182.7962036
29 10 2018 05:50 1346.234009 8.06280899 1566.167406 185.1977997
29 10 2018 06:00 1057.365967 7.569190025 1293.792959 184.6363068
29 10 2018 06:10 873.9116821 6.9329772 986.1006868 183.5447998
29 10 2018 06:20 539.9365234 5.911812782 595.6390045 181.8928986
29 10 2018 06:30 80.11106873 3.557424068 58.69529756 170.2765961
29 10 2018 06:40 0
                       1.231598973 0
                                         154.5664978
29 10 2018 06:50 0
                       1.169868946 0
                                         152.9971008
29 10 2018 07:00 0
                       2.311990023 0
                                         150.1374969
29 10 2018 07:10 10.1237402 3.74039793 83.54786136 162.4185944
29 10 2018 07:20 106.1802979 3.871032
                                         104.5687635 160.7516937
29 10 2018 07:30 57.54409027 3.460275888 47.67713991 160.1011963
29 10 2018 07:40 0.781596899 2.714922905 0
                                             161.428299
29 10 2018 07:50 0 1.851575971 0
                                     161.3009949
29 10 2018 08:00 0
                       2.304723978 0
                                         201.2261963
29 10 2018 08:10 0
                       1.96291101 0
                                         168.5852051
                       2.729137897 0
29 10 2018 08:20 0
                                         156.8661041
29 10 2018 08:30 0
                       1.828768015 0
                                         186.3963928
29 10 2018 08:40 0
                       1.382447004 0
                                         239.1197968
29 10 2018 08:50 0
                       1.852324009 0
                                         203.3202057
29 10 2018 09:00 0
                       2.567862988 0
                                         185.3787994
29 10 2018 09:10 36.8447113 3.427340984 44.28453685 192.1835022
29 10 2018 09:20 10.65299988 2.805435896 0
                                               197.7308044
29 10 2018 09:30 8.843427658 2.789326906 0
                                               196.4676971
29 10 2018 09:40 0
                       2.055901051 0
                                         224.5234985
29 10 2018 09:50 0
                       2.324579954 0
                                         204.5373993
29 10 2018 10:00 45.02584076 3.575505018 60.91264266 201.4931946
29 10 2018 10:10 88.20690155 3.77519989 88.88118606 200.3043976
                 105.7982025 4.014022827 125.607903 209.0657959
29 10 2018 10:20
29 10 2018 10:30 43.07955933 3.362776995 38.13743566 199.7817993
29 10 2018 10:40 2.189197063 2.757328987 0
                                               192.6325989
29 10 2018 10:50 6.378258228 2.810710907 0
                                               204.2767029
29 10 2018 11:00
                 107.9969025 3.483819008 50.20867484 202.1916962
29 10 2018 11:10
                 155.3654022 4.225573063 166.0618973 207.2332001
29 10 2018 11:20 254.8258972 4.76091814 279.3643668 208.9297028
29 10 2018 11:30 146.6710968 4.280693054 176.9664603 208.7711029
29 10 2018 11:40 250.7633972 4.725214005 271.2524798 210.6802063
29 10 2018 11:50 376.0488892 5.332530022 422.089287 209.6833954
29 10 2018 12:00 168.9889069 4.226644993 166.2724595 214.0272064
29 10 2018 12:10 84.24279785 3.793055058 91.69266778 209.4741058
29 10 2018 12:20 221.6163025 4.561131954 235.0526019 210.7436981
```

```
29 10 2018 12:30 435.6636047 5.434947014 450.4794543 211.5980988
29 10 2018 12:40 558.1890259 5.899009228 591.4446027 206.3871002
29 10 2018 12:50
                 209.979599 4.460209846 213.6246317 204.3262024
29 10 2018 13:00 311.1228027 5.151144028 374.0171955 203.8600006
29 10 2018 13:10
                 344.603302 5.385931969 436.7768296 199.6911011
29 10 2018 13:20
                 199.9550934 4.465734005 214.7817577 201.6345978
29 10 2018 13:30
                 174.1248016 4.259809971 172.8164429 210.054306
                 316.9266968 5.12349081 366.9267481 209.4369965
29 10 2018 13:40
29 10 2018 13:50
                 440.7886963 5.798364162 559.0664073 210.2073059
                 532.8347778 6.064644814 646.0127292 205.9328003
29 10 2018 14:00
29 10 2018 14:10
                 906.5432129 7.018404007 1024.295161 204.3244934
29 10 2018 14:20
                 1246.545044 7.724141121 1376.204345 206.6631927
29 10 2018 14:30
                 1296.142944 7.976026058 1516.297812 207.7689056
29 10 2018 14:40
                 1121.370972 7.545691013 1281.564899 200.3869934
29 10 2018 14:50
                 1290.365967 8.182910919 1636.416976 195.641098
29 10 2018 15:00
                 1348.810059 8.333440781 1726.331078 187.7418976
29 10 2018 15:10
                 1512.428955 8.731910706 1972.807018 186.4602966
29 10 2018 15:20
                 1346.761963 8.354688644 1739.178682 187.229599
29 10 2018 15:30 1117.250977 7.784405231 1409.058082 187.9196014
                 1157.166992 8.022006035 1542.623749 191.2830963
29 10 2018 15:40
29 10 2018 15:50
                 1152.753052 7.836547852 1437.830013 195.5630035
29 10 2018 16:00
                 1035.073975 7.394597054 1204.008582 197.6329956
29 10 2018 16:10
                 1028.223999 7.450242996 1232.296141 200.7156067
29 10 2018 16:20
                 1091.411011 7.665709019 1344.771095 200.6961975
29 10 2018 16:30
                 1234.83606 8.025867462 1544.844576 200.4886017
29 10 2018 16:40 1357.025024 8.284454346 1696.854455 200.6419067
29 10 2018 16:50 1492.926025 8.539131165 1852.178742 198.953598
29 10 2018 17:00 1311.22998 8.19220829 1641.9121
                                                     198.8327942
                 1270.126953 8.104768753 1590.552111 199.1152954
29 10 2018 17:10
29 10 2018 17:20
                 1169.935059 7.791128159 1412.749952 198.5178986
29 10 2018 17:30
                 1137.793945 7.821948051 1429.742187 198.0554047
29 10 2018 17:40
                 1090.203979 7.765692234 1398.810004 194.7568054
29 10 2018 17:50
                 1067.730957 7.888364792 1466.73055 191.9006042
29 10 2018 18:00 858.9451904 7.357542992 1185.427234 191.3336029
29 10 2018 18:10 951.9760132 7.453144073 1233.783685 196.3258972
29 10 2018 18:20
                 801.7402954 6.976020813 1005.230665 201.7510986
29 10 2018 18:30
                 619.3535767 6.517961979 813.034866 198.4969025
29 10 2018 18:40
                 617.7628174 6.489359856 801.8351614 196.7919006
29 10 2018 18:50
                 539.5081787 6.244349957 709.5706013 195.7216949
29 10 2018 19:00
                 572.2949829 6.345716
                                         746.950909 197.2754974
29 10 2018 19:10 571.1641846 6.447135925 785.4671207 196.2635956
29 10 2018 19:20 507.5221863 6.267168999 717.8888431 198.8936005
29 10 2018 19:30 422.3568115 5.893017769 589.487724 205.5063934
29 10 2018 19:40
                 323.229187 5.369044781 432.105209 207.0139008
29 10 2018 19:50
                 299.859314 5.260005951 402.5371514 206.3054962
29 10 2018 20:00
                 249.4756927 4.972109795 329.1773462 206.419693
29 10 2018 20:10 225.427002 4.906855106 313.4423757 207.6967926
29 10 2018 20:20 259.8016968 5.303937912 414.3272546 207.8674927
29 10 2018 20:30 258.5158997 5.201108932 386.9857053 206.4420013
                 314.213501 5.602127075 498.864042 205.6360931
29 10 2018 20:40
29 10 2018 20:50
                 317.4931946 5.666913986 518.3220881 202.3408051
29 10 2018 21:00
                 360.9248962 5.914175034 596.4147522 197.7241058
29 10 2018 21:10
                 348.8569946 5.644802094 511.6355302 194.2664948
29 10 2018 21:20
                 282.8774109 5.303454876 414.1967267 194.6652069
29 10 2018 21:30
                 255.5690002 5.315775871 417.532416 187.6038055
29 10 2018 21:40 225.5395966 5.201747894 387.1528736 182.9945068
29 10 2018 21:50 211.759201 5.120520115 366.1686931 176.3936005
29 10 2018 22:00 292.9216919 5.433098793 449.9588708 168.7095947
29 10 2018 22:10 372.2817993 5.724709988 536.0250574 163.2389984
```

```
29 10 2018 22:20 328.8392944 5.452745914 455.5085767 161.8479004
29 10 2018 22:30 233.4264984 5.169117928 378.6589144 161.240799
29 10 2018 22:40 82.4803772 4.213246822 163.6448382 162.7991028
29 10 2018 22:50 16.08407974 3.470649004 48.78160692 165.229599
29 10 2018 23:00 108.1028976 4.379646778 196.9502455 163.5196991
29 10 2018 23:10 237.466507 4.952881813 324.5080343 164.3170929
                 196.523407 4.792043209 286.5069376 162.5440979
29 10 2018 23:20
                 186.7545013 4.603877068 244.3166602 161.725296
29 10 2018 23:30
29 10 2018 23:40
                 187.2870026 4.594991207 242.381403 159.0108948
                 105.2133026 4.170969963 155.4130403 158.5
29 10 2018 23:50
30 10 2018 00:00 9.74698925 3.157124043 23.00300654 157.4766998
30 10 2018 00:10 0
                       3.009871006 16.32366713 164.5834961
30 10 2018 00:20 0
                       3.376410007 39.37987974 173.3565979
30 10 2018 00:30 0
                       3.263161898 29.96151548 167.3518066
30 10 2018 00:40 0
                       2.634450912 0
                                         168.6573029
30 10 2018 00:50 0
                       3.475548029 49.30921115 182.1006927
30 10 2018 01:00 166.2834015 4.435835838 208.5404196 173.6112976
30 10 2018 01:10 237.9468994 4.91257906 314.810032 175.6307068
30 10 2018 01:20 139.1253967 4.394171238 199.9290027 179.1988068
30 10 2018 01:30 198.3890991 4.730165958 272.3724005 179.4718933
30 10 2018 01:40 143.6916046 4.633676052 250.8432281 179.5688019
30 10 2018 01:50 214.4949951 4.892663002 310.0616834 172.8497925
30 10 2018 02:00 497.6951904 6.014492989 628.8913034 174.177597
30 10 2018 02:10 576.7529907 6.340555191 745.0209488 181.0859985
30 10 2018 02:20 574.1812744 6.221516132 701.3029805 183.8515015
30 10 2018 02:30 460.7296143 5.723093033 535.5253061 185.0644073
30 10 2018 02:40 38.95867157 2.852833033 0
                                               192.8730011
30 10 2018 02:50 0
                       1.852892995 0
                                         170.3858948
30 10 2018 03:00 124.8302002 4.722754002 270.6967451 180.3074036
30 10 2018 03:10 434.9005127 5.802134991 560.2607567 182.7740936
30 10 2018 03:20 313.5335999 5.188391209 383.6654229 182.2402039
30 10 2018 03:30 178.868103 4.548477173 232.3317886 185.0592041
30 10 2018 03:40 155.5135956 4.428174019 206.9493624 182.8190002
30 10 2018 03:50 377.9585876 5.550477982 483.6386882 188.9499969
30 10 2018 04:00 582.2506714 6.215937138 699.2914573 196.6403961
30 10 2018 04:10 647.8945923 6.471607208 794.9293918 198.1228943
30 10 2018 04:20
                 727.5314941 6.801552773 929.1017256 201.4803925
30 10 2018 04:30
                 1050.047974 7.958279133 1506.196108 206.2662048
30 10 2018 04:40 949.8099976 7.477131844 1246.13268 206
30 10 2018 04:50 1184.842041 8.195185661 1643.673526 210.8862
30 10 2018 05:00 951.5791016 7.454973221 1234.722247 215.1360016
30 10 2018 05:10 933.4470215 7.409554958 1211.566893 212.447403
30 10 2018 05:20 781.428772 7.011899948 1021.354724 209.8916931
30 10 2018 05:30 845.9954224 7.225040913 1120.598584 210.1324005
30 10 2018 05:40 906.8983154 7.465370178 1240.066753 207.8816986
30 10 2018 05:50 888.352417 7.416512012 1215.093681 207.5366058
30 10 2018 06:00 720.1680908 6.988803864 1010.956661 206.9411011
30 10 2018 06:10
                 709.9909058 7.049263
                                         1038.320187 205.6231995
30 10 2018 06:20
                 781.5153198 6.963645935 999.7071138 200.5095978
                 668.680481 6.740904808 903.4980205 198.5010986
30 10 2018 06:30
30 10 2018 06:40
                 375.510498 5.692668915 526.1703142 200.3692932
30 10 2018 06:50 331.2307129 5.285573959 409.3789161 198.8390961
30 10 2018 07:00
                 337.9205933 5.290077209 410.5896941 202.7113953
30 10 2018 07:10 354.7000122 5.384100914 436.2690771 205.134201
30 10 2018 07:20 295.4010925 5.16317606 377.1215393 201.1775055
30 10 2018 07:30 314.0339966 5.218301773 391.4955385 199.6811981
30 10 2018 07:40 388.1972961 5.330673218 421.5830693 198.1996002
30 10 2018 07:50 430.3765869 5.589734077 495.1877696 196.7286072
30 10 2018 08:00 503.3776855 5.676136017 521.124842 195.963501
```

```
30 10 2018 08:10
                 209.1403046 4.252462864 171.3618199 198.625
30 10 2018 08:20
                 363.5455017 5.203132153 387.5151455 195.6421051
30 10 2018 08:30
                 126.7370987 3.495816946 51.53289779 201.8439941
30 10 2018 08:40 119.9117966 4.004349232 123.807921 205.0072021
30 10 2018 08:50 130.9174957 4.220120907 164.9918248 202.6936035
30 10 2018 09:00 198.0130005 4.408094883 202.7957526 203.2055969
30 10 2018 09:10
                 103.2102966 3.908344984 111.0742883 209.5962982
                 275.7009888 4.870493889 304.8100063 205.7471924
30 10 2018 09:20
30 10 2018 09:30
                 336.8139038 5.085343838 357.2458444 206.3267975
30 10 2018 09:40 419.4552917 5.612108231 501.835498 211.5278015
30 10 2018 09:50 451.1834106 5.842907906 573.2676088 209.9564056
30 10 2018 10:00 448.0588989 5.847980022 574.8975788 209.1694946
30 10 2018 10:10 393.0185852 5.525152206 476.2645667 211.6493073
30 10 2018 10:20 379.0805054 5.518344879 474.2926449 210.0874939
30 10 2018 10:30 440.6513062 5.637132168 509.3272265 208.1233063
30 10 2018 10:40 415.6918945 5.522716999 475.5586511 211.5812073
30 10 2018 10:50 141.0041046 5.037930965 345.3729439 218.6842041
30 10 2018 11:00 0
                       6.535000801 819.7500144 224.8249054
30 10 2018 14:30 0
                       7.637321949 1329.654147 0
30 10 2018 14:40 0
                       8.9535532
                                   2114.09264 221.3863983
30 10 2018 14:50 102.0261993 8.863044739 2056.103632 222.277298
30 10 2018 15:00 1937.334961 9.701325417 2591.964093 217.8791046
30 10 2018 15:10
                 2379.530029 10.3776598 3005.427763 214.7870026
30 10 2018 15:20 2473.774902 10.70814037 3159.359351 216.8105011
30 10 2018 15:30 2699.99707 11.56144047 3436.634639 220.1912994
30 10 2018 15:40 2788.881104 11.6613903 3459.184137 218.1934052
30 10 2018 15:50 3006.677002 11.65408993 3457.601179 216.6967926
30 10 2018 16:00 2939.334961 11.88465977 3502.864394 221.5605927
30 10 2018 16:10 2794.962891 11.48536015 3418.181121 221.2485046
30 10 2018 16:20 2800.01709 11.34562016 3381.293249 221.4311981
30 10 2018 16:30 2947.0979
                            11.75269032 3478.143438 220.7752991
30 10 2018 16:40 3214.308105 12.34617043 3565.804881 220.577301
30 10 2018 16:50 3248.281006 12.4458704 3574.86087 220.2556
30 10 2018 17:00 3282.879883 12.54016018 3582.011047 219.9817047
30 10 2018 17:10 3293.416992 12.61765957 3586.87657 217.0265961
30 10 2018 17:20 3402.269043 12.88799
                                         3596.887082 214.1929016
30 10 2018 17:30
                 3498.712891 13.04724026 3600 213.5596008
30 10 2018 17:40 3591.841064 13.36585045 3600 212.4924011
30 10 2018 17:50 3505.187988 12.89087963 3596.936708 211.3921051
30 10 2018 18:00 3488.249023 12.89955997 3597.078581 211.1614075
30 10 2018 18:10 3387.934082 12.74075031 3592.761778 211.3339996
30 10 2018 18:20 3279.824951 12.51280022 3580.076324 209.6414948
30 10 2018 18:30 3258.128906 12.1986599 3549.518062 209.1063995
30 10 2018 18:40 3212.087891 12.22014999 3552.108874 210.8182983
30 10 2018 18:50 3369.333008 12.65622044 3588.961863 213.2108002
30 10 2018 19:00 3193.580078 12.10779953 3537.726923 210.7368927
                 3061.064941 11.85391045 3497.382892 207.8202972
30 10 2018 19:10
                 3025.011963 11.86153984 3498.758573 211.029007
30 10 2018 19:20
30 10 2018 19:30 3021.470947 11.43585968 3405.563078 211.2655945
30 10 2018 19:40
                 3085.991943 11.60416985 3446.507424 210.0263062
30 10 2018 19:50
                 3088.462891 11.48847008 3418.957655 209.7350006
30 10 2018 20:00
                 3156.044922 11.72556973 3472.67245 212.342804
30 10 2018 20:10
                 3085.455078 11.77079964 3481.721666 212.6210022
30 10 2018 20:20 2923.662109 11.11365986 3311.112748 210.1018066
30 10 2018 20:30
                 2847.037109 10.98630047 3267.583659 210.7608948
30 10 2018 20:40 2629.264893 11.08125973 3300.384019 215.0401001
30 10 2018 20:50 2675.400879 11.00203037 3273.158389 213.0529938
30 10 2018 21:00 2837.605957 11.17282963 3330.109714 210.8881989
30 10 2018 21:10 2958.940918 11.67134953 3461.327505 211.3020935
```

```
30 10 2018 21:20 3008.104004 11.6634903 3459.637631 209.8880005
                 3141.302002 11.8787899 3501.830931 207.6024933
30 10 2018 21:30
30 10 2018 21:40 2865.477051 11.36903
                                         3387.74832 207.4192963
30 10 2018 21:50 2873.996094 11.60439968 3446.559584 208.2637939
30 10 2018 22:00 2652.76001 11.26473045 3358.116283 205.7445068
                 2765.312012 11.45118046 3409.520533 203.6260986
30 10 2018 22:10
30 10 2018 22:20 2938.179932 11.5248003 3427.888392 202.3103027
                 2969.498047 11.61876965 3449.800784 202.2946014
30 10 2018 22:30
                 2916.37207 11.51492023 3425.485258 203.5749969
30 10 2018 22:40
30 10 2018 22:50
                 3067.006104 11.87884045 3501.839856 205.5619049
30 10 2018 23:00
                 3043.052002 12.08864021 3535.0659
                                                     206.7173004
30 10 2018 23:10 3219.173096 12.02600002 3525.935259 209.976593
30 10 2018 23:20 3113.149902 11.60756016 3447.275812 209.8961029
30 10 2018 23:30 2808.983887 11.24717999 3352.906799 206.6365051
30 10 2018 23:40 2713.342041 10.81130981 3201.672169 207.0511017
30 10 2018 23:50 2876.134033 11.5724802 3439.218989 208.954895
31 10 2018 00:00 2527.545898 10.85585976 3219.140694 204.8639069
31 10 2018 00:10 2095.085938 9.676231384 2573.789438 206.5838013
31 10 2018 00:20 1845.052979 9.275897026 2323.149643 205.6463013
                             9.162179947 2249.022695 201.7583008
31 10 2018 00:30
                 1751.5
31 10 2018 00:40
                 1691.666016 8.92240715 2094.095157 204.1589966
                 1880.373047 9.263895988 2315.311441 206.5617065
31 10 2018 00:50
31 10 2018 01:00
                 1992.012939 9.520190239 2455.804849 205.764801
31 10 2018 01:10 2240.898926 10.15375996 2884.059081 202.2955933
31 10 2018 01:20 2131.956055 10.0649004 2831.799515 198.5283966
31 10 2018 01:30 2067.319092 9.803262711 2663.582301 193.8692932
31 10 2018 01:40 2188.50293 9.938321114 2753.151617 195.6539001
31 10 2018 01:50 1960.228027 9.456488609 2441.424926 197.8379059
31 10 2018 02:00 1382.722046 8.278231621 1693.124634 199.1833038
31 10 2018 02:10 1115.592041 7.725584984 1376.986375 199.7357025
31 10 2018 02:20 837.402771 7.005180836 1018.322727 199.9378052
31 10 2018 02:30 728.050293 6.752697945 908.4427288 201.5523987
31 10 2018 02:40 663.2020264 6.358962059 751.9176974 202.9109955
31 10 2018 02:50
                 1058.97998 7.674675941 1349.567314 208.0588989
31 10 2018 03:00 1646.588013 9.083848
                                       2198.178833 208.6210022
31 10 2018 03:10
                 1631.317017 9.381313324 2392.125829 205.9261932
                 1110.41394 7.714293003 1370.877148 203.7850952
31 10 2018 03:20
                 707.0488281 6.562591076 830.6924199 204.6121979
31 10 2018 03:30
31 10 2018 03:40 668.9993286 6.559449196 829.4420326 205.3650055
31 10 2018 03:50 432.6975098 5.842497826 573.1359418 203.5240936
31 10 2018 04:00 661.5831909 6.523900986 815.3718042 201.7364044
31 10 2018 04:10 887.8131714 6.949001789 993.1954791 203.947998
31 10 2018 04:20 945.8497925 7.24362278 1129.540846 205.7848053
31 10 2018 04:30
                 1044.166016 7.433900833 1223.940406 203.1309967
31 10 2018 04:40 1060.483032 7.402444839 1207.969966 204.1508942
31 10 2018 04:50 1222.845947 7.960894108 1507.682473 207.2998962
                 1074.48999 7.646395206 1334.474847 212.733902
31 10 2018 05:00
                 1051.312988 7.595200062 1307.412348 212.4624939
31 10 2018 05:10
31 10 2018 05:20 1185.708984 7.790687084 1412.507575 218.8580017
31 10 2018 05:30
                 1046.265991 7.415410995 1214.535053 223.1338959
31 10 2018 05:40
                 724.5598145 6.747467041 906.2474641 221.3347015
31 10 2018 05:50 515.3607788 5.954391956 609.7121908 227.0326996
31 10 2018 06:00
                 698.3873291 6.832664013 942.4056316 223.1840057
31 10 2018 06:10
                 702.6544189 6.846558094 948.3846234 226.5368958
31 10 2018 06:20 597.668396 6.310606003 733.8779622 228.3704071
31 10 2018 06:30 374.5024109 5.597902775 497.6093002 221.842804
31 10 2018 06:40 522.7785034 6.286585808 725.0110028 211.2221985
31 10 2018 06:50 501.519104 6.116374969 663.9545628 220.4346008
31 10 2018 07:00 292.6720886 5.15981102 376.2521548 230.2371063
```

```
119.2558975 4.213963985 163.785255 231.4423981
31 10 2018 07:10
31 10 2018 07:20
                   3.892591
                               2.859518051 0
                                                  251.1985931
31 10 2018 07:30
                         2,604929924 0
                                            246.0462952
                   0
31 10 2018 07:40
                   0
                         2.053864002 0
                                            233.7866058
31 10 2018 07:50
                   0
                         2.294442892 0
                                            208.5522003
31 10 2018 08:00
                   0
                         2.183895111 0
                                            210.3670044
31 10 2018 08:10
                   0
                         2.467499971 0
                                            224.8538971
31 10 2018 08:20
                   0
                         2.032831907 0
                                            230.8522034
31 10 2018 08:30
                   0
                         1.526803017 0
                                            241.3679962
31 10 2018 08:40
                   0
                         1.829028964 0
                                            258.5793152
31 10 2018 08:50
                   0
                         1.49750495
                                      0
                                            241.0726013
31 10 2018 09:00
                   0
                         1.760215998 0
                                            221.4584961
31 10 2018 09:10
                         1.542368054 0
                                            228.7940063
                         1.661720991 0
31 10 2018 09:20
                   0
                                            277.8938904
31 10 2018 09:30
                         1.436923981 0
                                            261.2533875
                   0
31 10 2018 09:40
                   0
                         1.156054974 0
                                            229.4432068
31 10 2018 09:50
                   0
                         1.679383993 0
                                            232,2272034
31 10 2018 10:00
                   0
                                            248.6959991
                         1.045120955 0
31 10 2018 10:10
                   0
                         0.762840271 0
                                            357.1771851
31 10 2018 10:20
                   0
                         1.492704034 0
                                            258.0144958
31 10 2018 10:30
                         1.924291015 0
                                            251.8092957
                   0
31 10 2018 10:40
                   0
                         1.757611036 0
                                            239.1622925
31 10 2018 10:50
                   0
                         1.201367974 0
                                            243.7310944
31 10 2018 11:00
                   0
                         1.584853053 0
                                            241.7825928
31 10 2018 11:10
                         1.365453005 0
                                            254.4853058
31 10 2018 11:20
                         1.306231022 0
                                            245.0592041
31 10 2018 11:30
                         0.799649119 0
                                            262.4689941
31 10 2018 11:40
                         0.82453382
                                            244.5858002
                   0
                                      0
31 10 2018 11:50
                   0
                         1.188652039 0
                                            260.2022095
31 10 2018 12:00
                   0
                         0.676877916 0
                                            262.3916931
31 10 2018 12:10
                   0
                         1.087378025 0
                                            209.1134949
31 10 2018 12:20
                   0
                         1.723564982 0
                                            215.3096008
31 10 2018 12:30
                         1.399757028 0
                                            225.4792023
31 10 2018 12:40
                         1.177418947 0
                                            274,4263
                   0
31 10 2018 12:50
                         0.679503083 0
                                            280.9294128
                   0
31 10 2018 13:00
                   0
                         0.704075396 0
                                            122.0477982
31 10 2018 13:10
                   0
                         1.165812016 0
                                            214.6139069
31 10 2018 13:20
                   0
                         1.563102007 0
                                            200.4584961
31 10 2018 13:30
                         2.466181993 0
                                            193.5453949
31 10 2018 13:40
                         2.313904047 0
                                            215.959198
31 10 2018 13:50
                         1.827720046 0
                                            229.4532013
                   0
31 10 2018 14:00
                   0
                         1.63440299
                                      0
                                            231.8204041
31 10 2018 14:10
                         2.210309982 0
                                            264.3080139
                   0
                                            262.134613
31 10 2018 14:20
                   0
                         2.248856068 0
31 10 2018 14:30
                   0
                         1.993430972 0
                                            276.6841125
31 10 2018 14:40
                   0
                         1.620062947 0
                                            307.069397
31 10 2018 14:50
                   0
                         1.471500993 0
                                            262.2365112
31 10 2018 15:00
                   0
                         0.997080088 0
                                            238.4754944
31 10 2018 15:10
                   0
                         0.908211887 0
                                            256.1397095
31 10 2018 15:20
                   0
                         0.875833571 0
                                            319.8539124
31 10 2018 15:30
                   0
                         1.075373054 0
                                            334.8295898
31 10 2018 15:50
                         1.657732964 0
                                            0
31 10 2018 16:00
                         1.994832039 0
                                            341.8518066
31 10 2018 16:10
                                            338.4590149
                   0
                         1.610602975 0
31 10 2018 16:20
                   0
                         1.727990031 0
                                            340.6366882
31 10 2018 16:30
                   0
                         2.080523968 0
                                            347.8085022
31 10 2018 16:40
                   0
                         1.654986024 0
                                            355.0109863
31 10 2018 16:50
                   0
                         1.505025983 0
                                            33.77465057
31 10 2018 17:00
                         2.273758888 0
                                            48.78693008
```

```
31 10 2018 17:10 0
                        2.674745083 0
                                          53.16165161
                        3.11628294 20.80279185 47.02891922
31 10 2018 17:20
                 0
31 10 2018 17:30
                 0
                        2.219710112 0
                                          35.29249954
31 10 2018 17:40 0
                        2.518985987 0
                                          46.58470917
31 10 2018 17:50
                 0
                        2.694489002 0
                                          33.35015106
31 10 2018 18:00
                        2.961019039 0
                                          48.4048996
31 10 2018 18:10
                 0
                        3.46765089 48.46061691 51.79119873
31 10 2018 18:20
                        3.047041893 17.68237575 45.49230957
                 0
31 10 2018 18:30
                  0
                        2.314161062 0
                                          28.92974091
31 10 2018 18:40
                  0
                        2.009162903 0
                                          345.2571106
31 10 2018 18:50
                 0
                        1.69572103 0
                                          1.984424949
31 10 2018 19:00
                        2.195738077 0
                                          352.1200867
31 10 2018 19:10
                        3.262660027 29.92434401 333.4603882
31 10 2018 19:20
                        2.746073961 0
                                          296.5354919
31 10 2018 19:30
                        2.804742098 0
                                          316.2468872
                 0
31 10 2018 19:40
                 0
                        2.758639097 0
                                          343.7702942
31 10 2018 19:50
                 0
                        2.587652922 0
                                          0.823043227
31 10 2018 20:00
                 0
                                          357.3977051
                        2.265981913 0
31 10 2018 20:10
                 0
                        2.454232931 0
                                          353.2030945
31 10 2018 20:20
                 0
                        2.181341887 0
                                          356.8262024
31 10 2018 20:30
                                          20.32019043
                        1.981469989 0
                 0
31 10 2018 20:40
                                          24.92679024
                 0
                        1.937715054 0
31 10 2018 20:50
                 0
                        1.76887095 0
                                          46.88953018
31 10 2018 21:00
                 0
                        1.765812039 0
                                          36.30825043
31 10 2018 21:10
                        2.09758091 0
                                          39.90121841
31 10 2018 21:20
                        1.943493962 0
                                          25.72096062
31 10 2018 21:30
                        2.065195084 0
                                          39.83597183
31 10 2018 21:40
                        2.481031895 0
                                          55.58335114
                 0
31 10 2018 21:50
                 0
                        3.128170013 21.41564462 64.64871216
31 10 2018 22:00
                 0
                        2.672888041 0
                                          58.0235405
31 10 2018 22:10
                 0
                        2.355470896 0
                                          52.45301819
31 10 2018 22:20
                 0
                        2.477229118 0
                                          72.60012817
31 10 2018 22:30
                        2.872697115 0
                                          70.5697403
                                          65.03256989
31 10 2018 22:40
                       2.961169958 0
                 0
31 10 2018 22:50
                        2.843822956 0
                                          55.24951935
                 0
                        3.19086194 25.02184452 46.19561005
31 10 2018 23:00
                 0
31 10 2018 23:10
                 0
                        3.237371922 28.10353582 41.42110062
31 10 2018 23:20
                 0
                       2.364923954 0
                                          41.69485092
31 10 2018 23:30
                        2.147475958 0
                                          40.10538864
31 10 2018 23:40 0
                        2.453860998 0
                                          52.04362106
31 10 2018 23:50 0
                        3.319379091 34.38037124 73.50660706
                        3.354468107 37.39479055 70.85565948
01 11 2018 00:00 0
01 11 2018 00:10
                        3.35094595 37.08331515 64.06635284
01 11 2018 00:20 58.17111969 4.115755081 144.7948387 62.47047043
01 11 2018 00:30
                 78.05568695 4.067509174 135.6360641 57.38381958
01 11 2018 00:40 83.602211
                            4.157823086 152.8713266 47.68029022
                 99.33585358 4.251974106 171.2651526 47.44969177
01 11 2018 00:50
01 11 2018 01:00
                 106.3102036 4.216201782 164.2235719 47.08612823
                 127.3240967 4.441936016 209.8096172 47.55831909
01 11 2018 01:10
01 11 2018 01:20
                 137.5431061 4.522643089 226.8079201 45.3829689
01 11 2018 01:30
                 135.6622009 4.434268951 208.2147629 51.02880096
                 172.3545074 4.750261784 276.9342142 54.5558815
01 11 2018 01:40
01 11 2018 01:50
                 184.9844055 4.833404064 296.1025304 54.9226799
01 11 2018 02:00
                 261.9327087 5.385502815 436.6577985 54.00725937
01 11 2018 02:10
                 348.3265991 5.741458893 541.2169132 55.41392899
01 11 2018 02:20 422.785614 6.019457817 630.5742643 57.68009186
01 11 2018 02:30 428.7329102 5.980854988 618.555875 60.38581085
01 11 2018 02:40 570.8098755 6.369318962 755.8144373 60.9115715
01 11 2018 02:50 519.0817871 6.000520229 624.1690154 65.98449707
```

```
01 11 2018 03:00 496.4035034 5.945703983 606.8250536 65.84622192
01 11 2018 03:10 496.4298096 6.214416027 698.7435956 70.26029968
01 11 2018 03:20
                 442,4772034 6,025313854 632,5627122 66,32319641
01 11 2018 03:30 458.9606018 6.203948975 694.9803821 54.71427917
01 11 2018 03:40
                 399.5284119 5.831842899 569.7209584 54.12469864
01 11 2018 03:50
                 555.4135132 6.460169792 790.4986882 55.46805954
01 11 2018 04:00
                 480.6348877 6.154911995 677.5064241 56.91849899
01 11 2018 04:10
                 520.861084 6.297595978 729.0676321 57.49394989
01 11 2018 04:20
                 531.1375122 6.298127174 729.263679 62.26475143
01 11 2018 04:30
                 582.8076172 6.478047848 797.4307677 64.59377289
01 11 2018 04:40
                 651.2584229 6.673340797 875.482013 63.67303085
01 11 2018 04:50
                 591.0980225 6.432971001 780.020113 67.13905334
01 11 2018 05:00
                 572.0496216 6.176228046 685.0706091 68.01376343
01 11 2018 05:10
                 467.9390869 5.960680008 611.8068153 66.10610962
01 11 2018 05:20
                460.4657898 5.86353302 579.9122335 64.92912292
01 11 2018 05:30
                426.6416931 5.778119087 552.6787487 61.99020004
01 11 2018 05:40
                 440.9913025 5.536543846 479.5740805 61.71158981
01 11 2018 05:50
                 549.781311 6.048394203 640.4354625 69.72879791
01 11 2018 06:00 457.978302 5.898437977 591.2578635 65.93070221
                 384.822998 5.575128078 490.873732 67.79271698
01 11 2018 06:10
01 11 2018 06:20
                 443.538208 5.855689049 577.3800256 68.7840271
                 682.7263794 6.783911228 921.6091172 67.9343338
01 11 2018 06:30
01 11 2018 06:40
                 982.2545166 7.308786869 1161.282224 68.01944733
01 11 2018 06:50
                 1008.163025 7.485243797 1250.328679 73.51470184
01 11 2018 07:00
                 971.0197754 7.586762905 1302.984795 75.73314667
01 11 2018 07:10
                 826.291626 7.053739071 1040.364692 74.28489685
01 11 2018 07:20 689.6538086 6.527942181 816.964221 68.44970703
01 11 2018 07:30 791.7158813 7.051696777 1039.431526 60.7342186
01 11 2018 07:40 889.494873 7.26049614 1137.702527 70.81625366
01 11 2018 07:50
                 939.6835938 7.307319164 1160.560687 75.0800705
01 11 2018 08:00
                 1042.646973 7.954681873 1504.1526
                                                     77.40209198
01 11 2018 08:10
                 1009.091003 8.030650139 1547.597358 76.94374847
01 11 2018 08:20
                 708.9118042 6.831489086 941.9010959 78.47310638
01 11 2018 08:30
                 643.8734131 6.432431221 779.812981 78.33495331
                 688.0103149 6.766005039 914.0418608 72.87355804
01 11 2018 08:40
                 188.6799927 4.556849957 234.1308531 60.61991882
01 11 2018 08:50
01 11 2018 09:00
                 408.5762939 5.473845005 461.5073234 67.96278381
                 645.5349731 6.409811974 771.1619162 73.2885437
01 11 2018 09:10
01 11 2018 09:20
                 674.8098755 6.814878941 934.7861231 75.65812683
01 11 2018 09:30
                 741.328186 7.152201176 1086.002125 75.90013885
01 11 2018 09:40 846.8267822 7.548121929 1282.826469 75.37142944
01 11 2018 09:50 800.4290161 7.417729855 1215.711793 75.37631226
01 11 2018 10:00
                 731.9055786 7.081546783 1053.124504 76.12967682
01 11 2018 10:10
                 701.1350708 7.082269192 1053.45733 74.62114716
01 11 2018 10:20
                 732.4453125 7.129284859 1075.265894 75.65447235
                 854.9697876 7.595194817 1307.409593 75.5683136
01 11 2018 10:30
01 11 2018 10:40
                 938.3673706 7.844647884 1442.32771 76.00081635
                 972.4833984 7.528430939 1272.630126 71.95723724
01 11 2018 10:50
01 11 2018 11:00 582.4711304 6.402482986 768.3708513 72.81916046
01 11 2018 11:10
                 472.2867126 5.899878025 591.7286738 73.42614746
01 11 2018 11:20
                 617.4735718 6.456841946 789.2122343 73.70070648
01 11 2018 11:30
                 668.789978 6.627472878 856.7627109 72.78230286
01 11 2018 11:40
                 774.083313 6.937685966 988.1821501 74.7477417
01 11 2018 11:50
                 807.40448
                             6.983387947 1008.528156 72.85227203
01 11 2018 12:00
                 1259.047974 8.303530693 1708.309209 77.03125763
01 11 2018 12:10
                 1311.583984 8.662118912 1928.866722 77.24033356
01 11 2018 12:20 1127.599976 8.351685524 1737.360592 78.44743347
01 11 2018 12:30 1223.68103 8.392144203 1761.915334 77.89331055
01 11 2018 12:40 1475.418945 8.786744118 2007.526043 77.58867645
```

```
01 11 2018 12:50 1648.312988 9.240701675 2300.172141 76.58718109
                 1398.449951 8.482952118 1817.491355 71.31104279
01 11 2018 13:00
                 1227.036987 7.954776764 1504.206487 68.83624268
01 11 2018 13:10
01 11 2018 13:20 1073.421997 7.58993578 1304.648732 65.31999969
01 11 2018 13:30 1024.259033 7.500654221 1258.335422 65.8379364
01 11 2018 13:40 1548.53894 8.609519005 1895.947474 70.04472351
01 11 2018 13:50 2014.859009 9.972018242 2774.580638 73.19223022
                 2290.13501 9.981864929 2780.774472 75.27826691
01 11 2018 14:00
01 11 2018 14:10 2059.090088 9.874024391 2711.253184 77.08661652
                 1920.343018 9.584635735 2505.583355 75.97869873
01 11 2018 14:20
01 11 2018 14:30
                 2037.499023 9.853695869 2697.727012 75.45815277
01 11 2018 14:40 2245.957031 10.55377007 3091.040983 77.13619232
01 11 2018 14:50 2239.883057 10.2292099 2926.578491 74.51830292
01 11 2018 15:00 2498.540039 10.74899006 3176.427028 65.42053223
01 11 2018 15:10 2578.885986 11.08263969 3300.845724 60.59941101
01 11 2018 15:20 2536.736084 11.41147995 3399.168691 65.5700531
01 11 2018 15:30 2764.262939 11.03351021 3284.145516 66.03302002
01 11 2018 15:40 2978.801025 11.79053974 3485.554174 69.96634674
01 11 2018 15:50 2957.645996 11.59167957 3443.657683 70.54476929
01 11 2018 16:00 3029.174072 11.37586021 3389.610576 69.14069366
01 11 2018 16:10 3282.141113 11.81357002 3489.93638 68.74118042
01 11 2018 16:20 3290.865967 12.05212021 3529.823155 69.64277649
01 11 2018 16:30 3260.770996 12.05383968 3530.075039 71.58973694
01 11 2018 16:40 3285.587891 12.07734966 3533.468995 71.20839691
01 11 2018 16:50 3348.173096 12.10910988 3537.906677 69.36006927
01 11 2018 17:00 3333.326904 12.17259026 3546.273985 71.42778778
01 11 2018 17:10 3151.447998 12.24612045 3555.139834 74.13973236
01 11 2018 17:20 2889.358887 11.49083042 3419.545749 73.30687714
01 11 2018 17:30 2798.159912 11.33104038 3377.216109 72.13751984
01 11 2018 17:40 2613.440918 11.03526974 3284.752995 72.20845795
01 11 2018 17:50 2747.623047 11.16448975 3327.478361 71.36112976
01 11 2018 18:00 2771.553955 11.23056984 3347.916349 72.26030731
01 11 2018 18:10 2769.297119 11.22933006 3347.541511 72.11279297
01 11 2018 18:20 2576.621094 10.74108982 3173.158525 70.75241089
01 11 2018 18:30 2593.700928 10.66184044 3139.50885 70.2477417
                 2475.113037 10.47772026 3055.098459 72.16001129
01 11 2018 18:40
                 2462.915039 10.61913967 3120.718658 72.79982758
01 11 2018 18:50
01 11 2018 19:00
                 2419.090088 10.39914989 3016.327425 67.09739685
01 11 2018 19:10 2330.624023 10.12852955 2869.463331 70.49285126
01 11 2018 19:20 2169.694092 9.901758194 2729.48947 72.93801117
01 11 2018 19:30 1804.827026 9.170668602 2254.543994 72.2279129
01 11 2018 19:40 1618.321045 8.818257332 2027.553023 72.00216675
01 11 2018 19:50 1191.446045 7.921126842 1485.157909 73.67463684
01 11 2018 20:00 597.4630737 6.437236786 781.6581665 75.25727844
01 11 2018 20:10 413.577301 5.53077507 477.8966202 77.62832642
01 11 2018 20:20 82.9283905 3.358345985 37.74001915 89.17743683
01 11 2018 20:30 56.26821136 2.952197075 0
                                               84.80039215
01 11 2018 20:40 45.53680038 3.122683048 21.12994797 93.50331879
01 11 2018 20:50 126.3924026 3.585855007 62.20544738 86.30287933
01 11 2018 21:00
                 185.1963959 4.281456947 177.1187023 77.46581268
01 11 2018 21:10
                 180.1327972 4.081334114 138.2493846 75.72263336
01 11 2018 21:20
                 170.5527954 4.502943039 222.6229019 75.17394257
01 11 2018 21:30
                 115.1079025 3.843481064 99.90821845 83.65585327
01 11 2018 21:40 218.9819031 5.024953842 342.1536763 75.24259186
01 11 2018 21:50
                 117.9971008 4.336411953 188.1531325 76.4824295
01 11 2018 22:00
                 20.91675949 2.844530106 0
                                               96.47374725
01 11 2018 22:10 9.321328163 2.846093893 0
                                               106.2994003
01 11 2018 22:20 0 2.285891056 0 92.21675873
01 11 2018 22:30 21.59452057 3.863329887 103.253636 78.65615082
```

```
01 11 2018 22:40 33.2938385 3.13041997 21.5341885 84.94486237
01 11 2018 22:50 0
                                         87.18657684
                       2.069262028 0
01 11 2018 23:00 0
                       2.84780407 0
                                         89.08146667
01 11 2018 23:10 0
                       2.096316099 0
                                         95.52799988
01 11 2018 23:20 0
                       1.984699011 0
                                         96.10334015
01 11 2018 23:30 27.60220909 3.579298973 61.38455116 74.94184113
01 11 2018 23:40 94.05140686 4.147941113 150.966409 69.05198669
01 11 2018 23:50 241.7832947 5.275362015 406.6396476 68.14064789
02 11 2018 00:00 331.0819092 5.419675827 446.1872562 71.91210175
02 11 2018 00:10 318.2513123 5.456467152 456.5636385 70.5428009
02 11 2018 00:20 349.1427002 5.740779877 541.0058874 73.93366241
02 11 2018 00:30 496.5617065 6.212203979 697.9473204 72.67754364
02 11 2018 00:40 394.7192993 5.868657112 581.5698464 78.19532013
02 11 2018 00:50 357.8894958 5.697243214 527.5710213 77.34047699
02 11 2018 01:00 318.586792 5.305391788 414.7202477 76.28637695
02 11 2018 01:10 253.8527985 5.044023037 346.8887003 66.19220734
02 11 2018 01:20 475.7441101 6.093295097 655.9143297 68.41195679
02 11 2018 01:30 613.9694824 6.438692093 782.2174589 75.0625
02 11 2018 01:40 457.7232056 6.136950016 671.1701927 75.40457153
02 11 2018 01:50 577.7382813 6.296451092 728.6451966 74.78379822
02 11 2018 02:00 932.458313 7.279386997 1146.887413 75.29749298
02 11 2018 02:10 1001.057983 7.498466015 1257.189757 73.36234283
02 11 2018 02:20 939.3890991 7.200014114 1108.630098 67.69703674
02 11 2018 02:30 909.6555176 7.270099163 1142.365322 68.22776794
02 11 2018 02:40 883.1646118 7.25742197 1136.212581 64.06413269
02 11 2018 02:50 674.4683838 6.634662151 859.6808406 58.71031189
02 11 2018 03:00 727.6098022 6.947597027 992.5722496 58.69240189
02 11 2018 03:10 948.6035156 7.31829977 1165.966318 59.81632996
02 11 2018 03:20 1274.442017 8.299284935 1705.757085 65.1149826
02 11 2018 03:30 1576.73999 8.717047691 1963.425325 66.9613266
02 11 2018 03:40 1620.338013 8.864729881 2057.179805 68.17796326
02 11 2018 03:50 1567.368042 8.820589066 2029.036926 69.16325378
02 11 2018 04:00 1593.26001 8.716192245 1962.885748 75.85765839
02 11 2018 04:10 1234.991943 8.192207336 1641.911536 79.44259644
02 11 2018 04:20 1053.131958 7.80683279 1421.394729 79.55808258
02 11 2018 04:30 1035.848999 7.773355961 1403.001991 78.14125824
02 11 2018 04:40 975.1864014 7.48695612 1251.215691 77.34229279
02 11 2018 04:50
                 1367.682983 8.370336533 1748.663743 76.31568146
02 11 2018 05:00 1707.965942 9.062520027 2184.370746 75.3734436
02 11 2018 05:10 1882.119995 9.108967781 2214.461959 76.76072693
02 11 2018 05:20 1776.112061 9.074235916 2191.953822 77.11077881
02 11 2018 05:30 1814.838989 9.229590416 2292.924283 76.34809113
02 11 2018 05:40 2000.334961 9.91597271 2738.739654 78.52635956
02 11 2018 05:50 1817.338989 9.575742722 2498.803109 77.42196655
02 11 2018 06:00 1736.859009 9.541136742 2472.148603 79.10310364
02 11 2018 06:10 1498.385986 8.726041794 1969.100978 78.23510742
02 11 2018 06:20 1282.262939 8.37604332 1752.127851 78.1776123
02 11 2018 06:30 484.4045105 5.366669178 431.4500422 80.20394135
02 11 2018 06:40 35.07875061 3.070663929 18.660717
                                                     79.49320221
02 11 2018 06:50
                 311.1867981 4.715466022 269.0527137 76.7440033
02 11 2018 07:00 609.3372192 5.229337215 394.4031476 74.35671234
02 11 2018 07:10 740.8787231 5.524075031 475.9522483 80.02117157
02 11 2018 07:20 1010.349976 6.389431
                                        763.4148537 78.38041687
02 11 2018 07:30 878.9041748 6.487176895 800.9841104 78.74697876
02 11 2018 07:40 492.1485901 4.880309105 307.1307714 84.03186035
02 11 2018 07:50 565.4022827 4.973472118 329.5092229 85.77545166
02 11 2018 08:00 356.8796082 4.499282837 221.8479162 91.14626312
02 11 2018 08:10 479.1271057 4.924630165 317.6973181 86.87516022
02 11 2018 08:20 623.8914795 5.531200886 478.0203341 86.19915009
```

```
02 11 2018 08:30 755.5961304 5.9677701 614.1736718 87.93280029
02 11 2018 08:40 858.5584717 6.421696186 775.7002188 83.81385803
02 11 2018 08:50
                 1200.647949 7.361207008 1187.255643 79.9104538
02 11 2018 09:00 944.1616211 6.808572769 932.0935246 75.18096161
02 11 2018 09:10 1054.151978 7.240745068 1128.152853 76.0917511
02 11 2018 09:20 942.4946289 6.532761097 818.865478 74.71058655
02 11 2018 09:30
                 1602.459961 9.232007027 2294.500372 77.69680786
02 11 2018 09:40 2196.365967 10.73746967 3171.655623 77.27902985
02 11 2018 09:50 1924.479004 10.49018002 3061.092918 78.40155792
02 11 2018 10:00 2076.63501 10.8431797 3214.217301 78.57375336 02 11 2018 10:10 1687.428955 9.70894146 2597.437149 77.34156036
02 11 2018 10:20 1608.465942 9.208301544 2279.046387 77.77037811
02 11 2018 10:30 2074.844971 10.63823986 3129.181259 78.111763
02 11 2018 10:40 2084.344971 10.41055965 3022.062487 78.73996735
02 11 2018 10:50 1873.661011 9.843678474 2691.011811 78.4671936
02 11 2018 11:00 1893.469971 9.6899786 2583.772973 75.8944931
02 11 2018 11:10 1868.025024 9.779788971 2647.401455 76.14251709
02 11 2018 11:20 2381.124023 10.83477974 3210.934534 76.36665344
02 11 2018 11:30 2447.431885 11.18540001 3334.04739 75.13007355
02 11 2018 11:40 1931.31897 9.247988701 2304.927112 78.690979
02 11 2018 11:50 1650.43396 9.040999413 2170.454541 77.06079102
02 11 2018 12:00 2494.133057 11.1820097 3332.988738 76.03756714
02 11 2018 12:10 2293.175049 10.65299988 3135.656868 78.7831192
02 11 2018 12:20 3004.376953 12.70001984 3591.062436 75.05580902
02 11 2018 12:30 3548.625
                             13.81383038 3600 69.82288361
02 11 2018 12:40 3592.102051 14.06381035 3600 71.8480835
02 11 2018 12:50 3588.677002 14.69587994 3600 72.63552856
02 11 2018 13:00 3600.726074 14.40355015 3600 71.97734833
02 11 2018 13:10 3603.535889 14.1668396 3600 67.88066101
02 11 2018 13:20 3599.474121 13.84016037 3600 67.76091766
02 11 2018 13:30 3602.066895 13.84712982 3600 69.10011292
02 11 2018 13:40 3603.724121 13.85433006 3600 71.24240875
02 11 2018 13:50 3603.818115 14.06725979 3600 73.17485809
02 11 2018 14:00 3440.137939 13.4236002 3600 73.44281769
02 11 2018 14:10 3507.39502 13.58623028 3600 73.03835297
                 3207.623047 12.71411037 3591.677927 73.82615662
02 11 2018 14:20
                 2500.468018 10.72397041 3166.02271 74.01894379
02 11 2018 14:30
02 11 2018 14:40 2421.886963 10.19820976 2909.31169 74.67504883
02 11 2018 14:50 2417.699951 9.896348953 2725.952229 74.23381042
02 11 2018 15:00 2667.931885 10.58934975 3107.332002 71.83661652
02 11 2018 15:10 3062.322998 11.77301979 3482.156236 72.38303375
02 11 2018 15:20 2844.054932 11.08782959 3302.578345 73.89543152
02 11 2018 15:30 2154.977051 9.405871391 2408.222357 73.4039917
02 11 2018 15:40 2470.156006 10.08959007 2846.560276 73.66615295
02 11 2018 15:50 3125.467041 12.55101013 3582.746796 70.63011932
02 11 2018 16:00 3595.790039 13.15964031 3600 66.44999695
02 11 2018 16:10 3558.820068 12.75086021 3593.145846 64.76120758
02 11 2018 16:20 3507.444092 12.18583012 3547.935435 63.91481018
02 11 2018 16:30 3602.654053 13.48696041 3600 70.05683136
02 11 2018 16:40
                 3600.49292 13.49617004 3600 70.55181122
02 11 2018 16:50
                 3602.495117 13.34440041 3600 67.49485016
                 3603.36792 13.52684975 3600 67.66264343
02 11 2018 17:00
02 11 2018 17:10
                 3603.291992 13.47904968 3600 67.61115265
02 11 2018 17:20
                 3603.410889 12.90972996 3597.231067 66.23078156
02 11 2018 17:30
                 3603.523926 13.05298996 3600 66.16943359
02 11 2018 17:40 3603.733887 13.02482033 3600 65.85069275
02 11 2018 17:50 3603.593018 12.76632977 3593.704575 65.12580109
02 11 2018 18:00 3603.600098 12.58514977 3584.945706 63.62997055
02 11 2018 18:10 3603.629883 13.19939995 3600 63.77484894
```

```
02 11 2018 18:20 3602.314941 13.32322979 3600 64.40457153
                 3601.683105 13.34243965 3600 63.07965088
02 11 2018 18:30
02 11 2018 18:40
                 3601.979004 13.39221954 3600
                                               64.99465179
02 11 2018 18:50
                 3601.916016 13.38827991 3600 65.12590027
02 11 2018 19:00
                 3603.419922 13.60871983 3600 65.18482208
02 11 2018 19:10
                 3603.374023 13.46164989 3600
                                              65.47724152
02 11 2018 19:20
                 3603.262939 13.90281963 3600
                                               67.80283356
                 3603.531982 13.78866959 3600
                                               68.39167786
02 11 2018 19:30
                 3603.491943 14.63613033 3600
02 11 2018 19:40
                                               71.53566742
02 11 2018 19:50
                 3603.086914 14.70137978 3600
                                               70.73983002
02 11 2018 20:00
                 3603.128906 15.00788975 3600
                                               73.13121796
02 11 2018 20:10
                 3603.093994 14.38755035 3600 74.20588684
02 11 2018 20:20
                 3256.00293 12.78530979 3594.342369 72.61216736
02 11 2018 20:30 2462.460938 10.21625996 2919.399724 75.01602936
02 11 2018 20:40 1945.953003 9.110179901 2215.248213 73.6385498
02 11 2018 20:50 2080.229004 9.424592972 2420.499107 72.29747009
02 11 2018 21:00
                 2707.718018 10.80278015 3198.272918 72.11834717
02 11 2018 21:10 2768.314941 10.76198006 3181.767748 71.87689972
02 11 2018 21:20 2612.612061 10.43525982 3034.355325 71.6496582
02 11 2018 21:30 2475.349121 10.15112972 2882.546397 74.0235672
02 11 2018 21:40 2347.806885 9.758234978 2632.380948 73.65558624
                 2017.472046 9.105613708 2212.286556 71.68765259
02 11 2018 21:50
02 11 2018 22:00
                 2285.478027 9.790440559 2654.766633 73.53338623
02 11 2018 22:10
                 2252.749023 9.33121109 2359.316631 72.87502289
02 11 2018 22:20
                 2007.177002 9.066856384 2187.17687 71.17397308
02 11 2018 22:30 2060.553955 9.002759933 2145.770276 71.35928345
02 11 2018 22:40 2038.682007 9.103919983 2211.188173 70.80448151
02 11 2018 22:50 2138.935059 9.154905319 2244.292736 72.39600372
02 11 2018 23:00 1847.008057 8.737362862 1976.251653 70.38126373
02 11 2018 23:10
                 1749.343018 8.638430595 1914.019911 71.17935944
02 11 2018 23:20 1588.833008 7.978038788 1517.44558 74.25364685
02 11 2018 23:30 1661.561035 8.275970459 1691.770148 75.05660248
02 11 2018 23:40
                 1569.375977 8.260714531 1682.643088 74.46556854
02 11 2018 23:50
                 2076.269043 9.28798008 2331.044662 72.36650848
                 1916.11499 8.915464401 2089.643406 72.58068848
03 11 2018 00:00
03 11 2018 00:10
                 1878.114014 8.965296745 2121.643571 69.03096008
                 1952.583008 9.076340675 2193.316637 67.70020294
03 11 2018 00:20
                 1740.223022 8.682127953 1941.434498 67.31124878
03 11 2018 00:30
03 11 2018 00:40 2117.631104 9.40176487 2405.530133 67.32092285
03 11 2018 00:50 2244.062988 9.606232643 2521.931997 66.06822968
03 11 2018 01:00 2034.892944 9.154636383 2244.117905 66.47936249
03 11 2018 01:10 1886.526001 8.814196587 2024.969456 63.8951416
                 1693.305054 8.49252224 1823.384376 62.6297493
03 11 2018 01:20
                 1866.884033 8.707009315 1957.096246 59.80879974
03 11 2018 01:30
03 11 2018 01:40
                 2245.4729
                            9.510289192 2448.023907 58.9343605
03 11 2018 01:50
                 2516.009033 10.19301033 2906.388018 58.8157196
                 2760.364014 10.76148987 3181.566967 60.11759186
03 11 2018 02:00
                 2844.864014 10.85093975 3217.234934 60.89838028
03 11 2018 02:10
03 11 2018 02:20
                 2708.260986 10.78205013 3189.937746 60.36806107
03 11 2018 02:30
                 2561.606934 10.23713017 2930.944958 58.61740875
03 11 2018 02:40
                 2796.010986 10.76443005 3182.770377 60.01602936
03 11 2018 02:50
                 2831.485107 10.81933022 3204.852378 57.59426117
03 11 2018 03:00
                 2354.138916 9.694981575 2587.390029 55.75561905
03 11 2018 03:10 2492.366943 9.914334297 2737.676769 52.92575073
03 11 2018 03:20
                 2615.322998 10.33747005 2984.698299 54.15092087
03 11 2018 03:30 2816.501953 10.91685963 3242.291097 56.22793961
03 11 2018 03:40 2625.784912 10.19260979 2906.162459 53.84365082
03 11 2018 03:50 2800.047119 10.88171005 3229.058915 55.88180161
03 11 2018 04:00 2570.657959 10.25061989 2938.339911 56.72304916
```

```
03 11 2018 04:10 2575.743896 10.2155304 2918.993834 53.41212082
                 2794.820068 10.7024498 3156.94869 54.37913895
03 11 2018 04:20
03 11 2018 04:30
                 2597.75708 10.14105988 2876.735961 53.78253937
03 11 2018 04:40 2641.673096 10.38131046 3007.288394 51.19216156
03 11 2018 04:50 3148.051025 11.55702972 3435.595534 56.13135147
03 11 2018 05:00 3460.376953 12.70287037 3591.189312 59.63249969
03 11 2018 05:10
                 3138.708008 11.80018044 3487.40025 60.06113815
                 3154.570068 11.36367989 3386.282962 54.98598099
03 11 2018 05:20
03 11 2018 05:30 3448.148926 12.35181999 3566.359663 58.06520081
03 11 2018 05:40
                 3298.245117 11.86635017 3499.620628 55.06639099
03 11 2018 05:50 3416.910889 12.33498001 3564.691118 56.67156982
03 11 2018 06:00 3413.655029 12.24785995 3555.338952 56.74847031
03 11 2018 06:10 3410.040039 12.35114956 3566.29409 56.72898102
03 11 2018 06:20 3369.089111 12.12975025 3540.700448 57.26868057
03 11 2018 06:30 3391.585938 12.47751045 3577.412131 58.65898895
03 11 2018 06:40 3384.312012 12.53684998 3581.783023 59.33143997
03 11 2018 06:50 2865.312988 10.92471027 3245.2068
                                                    59.9042511
03 11 2018 07:00 3031.635986 11.19379997 3336.659665 64.41413116
03 11 2018 07:10 3251.612061 11.87644958 3501.417192 64.16059113
03 11 2018 07:20 3251.538086 11.92210007 3509.313588 70.44367218
03 11 2018 07:30 3401.261963 12.20831966 3550.691926 70.11628723
03 11 2018 07:40 3473.400879 12.48254013 3577.803504 67.03502655
03 11 2018 07:50 3185.553955 11.42628002 3403.064733 66.4923172
03 11 2018 08:00 3159.513916 11.5336504 3430.024843 66.01434326
03 11 2018 08:10 3151.717041 11.49610996 3420.857207 63.32727814
03 11 2018 08:20 3086.126953 11.62382984 3450.932792 64.27472687
03 11 2018 08:30 3098.610107 11.58627987 3442.416471 66.69724274
03 11 2018 08:40 3301.10791 11.59187031 3443.701424 64.47779846
03 11 2018 08:50
                 3117.754883 11.49927998 3421.642017 61.89459991
03 11 2018 09:00
                 2784.2229 10.36931992 3001.163269 60.84545135
03 11 2018 09:10 2537.837891 10.03820992 2815.631926 57.71532059
03 11 2018 09:20
                 2361.112061 9.91149807 2735.834783 62.35599899
03 11 2018 09:30
                 2371.061035 9.789334297 2654.003463 63.86478043
03 11 2018 09:40 2259.155029 9.526766777 2460.953425 60.68692017
                 2522.98291 10.1858902 2902.371386 64.16078949
03 11 2018 09:50
                 2481.861084 10.0825901 2842.394265 62.51465988
03 11 2018 10:00
                             9.629289627 2539.203421 64.75956726
03 11 2018 10:10
                 2252.0979
                 1937.853027 9.016583443 2154.687064 63.84643936
03 11 2018 10:20
03 11 2018 10:30 2497.866943 10.13465977 2873.027217 58.85417938
03 11 2018 10:40 2294.236084 9.815237999 2671.766207 59.88344955
03 11 2018 10:50 1987.724976 9.048054695 2175.01493 60.75431061
03 11 2018 11:00 1650.810059 8.311415672 1713.052909 59.32284927
03 11 2018 11:10
                 1057.741943 6.879165173 962.5080854 55.60009003
03 11 2018 11:20
                 1693.827026 8.48346138 1817.804777 55.47420883
03 11 2018 11:30
                 1325.963989 7.734504223 1381.822854 56.8039093
                 1858.098022 8.839170456 2040.871963 61.63542938
03 11 2018 11:40
                 2125.231934 9.249995232 2306.23665 57.71620941
03 11 2018 11:50
                 1519.444946 8.054609299 1561.422609 56.21136856
03 11 2018 12:00
03 11 2018 12:10 2064.896973 9.250127792 2306.323168 58.82358932
03 11 2018 12:20
                 1670.478027 8.526076317 1844.098133 58.4500618
03 11 2018 12:30
                 1416.901001 7.938339233 1494.886242 56.05313873
03 11 2018 12:40
                 1422.999023 7.975822926 1516.181998 56.19282913
03 11 2018 12:50
                 1937.262939 9.103406906 2210.855461 54.74626923
03 11 2018 13:00
                 1881.237061 8.745218277 1981.217618 52.80963898
03 11 2018 13:10
                 1600.572021 8.135518074 1608.530956 51.61555099
03 11 2018 13:20
                 2153.462891 9.436120033 2428.060286 53.16704941
03 11 2018 13:30 1898.602051 8.780582428 2003.616388 50.9200592
03 11 2018 13:40 2239.186035 9.506097794 2444.719231 51.52434158
03 11 2018 13:50 2239.971924 9.461978912 2445.028122 49.74274063
```

```
03 11 2018 14:00 2356.812988 9.688364983 2582.604516 49.59727097
                 2305.979004 9.720750809 2605.884234 48.90034103
03 11 2018 14:10
03 11 2018 14:20
                 2284.819092 9.721668243 2606.538464 48.4244194
03 11 2018 14:30 2272.230957 9.749938011 2626.557152 54.75453949
03 11 2018 14:40 1942.250977 8.863690376 2056.515936 56.0989418
03 11 2018 14:50 1933.13501 8.849943161 2047.741396 53.68721008
03 11 2018 15:00 2382.999023 9.785532951 2651.37793 47.88262939
                 1948.022949 8.841846466 2042.577833 48.56789017
03 11 2018 15:10
03 11 2018 15:20 1925.324951 8.933304787 2101.087179 50.89450836
03 11 2018 15:30
                 1993.498047 9.35082531 2372.155727 60.03752136
03 11 2018 15:40
                 1840.982056 8.729035378 1970.991088 58.21591187
03 11 2018 15:50 2295.181885 9.811914444 2669.499675 60.23508072
03 11 2018 16:00 2515.006104 9.953179359 2762.644931 57.61994934
03 11 2018 16:10 2986.927979 11.16493034 3327.617754 60.48572922
03 11 2018 16:20 3140.711914 11.5865097 3442.469416 61.40441132
03 11 2018 16:30 2569.055908 10.21156025 2916.782321 59.6891098
03 11 2018 16:40 2911.435059 10.97054958 3261.944592 61.56669998
03 11 2018 16:50 3441.281982 12.55663967 3583.121515 61.31697083
03 11 2018 17:00 3591.299072 13.68144989 3600 62.61473083
03 11 2018 17:10 3573.105957 13.33154964 3600 64.47438049
03 11 2018 17:20 3592.750977 13.26103973 3600 66.16567993
03 11 2018 17:30
                 3591.701904 13.06974983 3600 64.90492249
03 11 2018 17:40
                 3597.881104 12.86748981 3596.500586 60.23394012
03 11 2018 17:50
                 3602.626953 14.35140991 3600 63.74396896
03 11 2018 18:00
                 3601.225098 13.78522015 3600 62.91947174
03 11 2018 18:10 3602.610107 14.37215042 3600 62.35366058
03 11 2018 18:20 3602.676025 14.33854008 3600 62.71617126
03 11 2018 18:30 3597.208984 13.42768002 3600 63.54106903
03 11 2018 18:40 3600.378906 13.99555969 3600 62.59653854
03 11 2018 18:50
                             13.49120998 3600 65.12867737
                 3590.375
03 11 2018 19:00
                 3561.8479
                             13.37016964 3600 65.98573303
03 11 2018 19:10
                 3525.105957 12.85583019 3596.253796 67.05545807
03 11 2018 19:20
                 3518.361084 13.03744984 3600 67.28466797
                                               69.27095032
03 11 2018 19:30
                 3583.782959 13.3625803 3600
                 3602.216064 14.02873993 3600
03 11 2018 19:40
                                               69.06105804
03 11 2018 19:50
                 3567.551025 13.24755955 3600
                                               66.92253113
03 11 2018 20:00
                 3597.813965 13.33090019 3600
                                              66.16145325
03 11 2018 20:10
                 3586.668945 12.92341995 3597.412965 65.30097961
03 11 2018 20:20 3518.495117 12.70588017 3591.321976 64.31735992
03 11 2018 20:30 3299.346924 11.97661018 3518.265956 63.85519028
03 11 2018 20:40 3219.939941 11.83183956 3493.344847 62.09759903
03 11 2018 20:50 2912.849121 11.02791023 3282.207458 62.14051056
03 11 2018 21:00 2665.404053 10.65641975 3137.149325 66.68588257
03 11 2018 21:10 3513.49707 12.64503002 3588.379535 67.68041992
03 11 2018 21:20 3527.125
                             12.99174976 3597.921466 67.93531036
03 11 2018 21:30 3043.655029 11.61658001 3449.309439 71.82778168
                 3270.099121 11.90703011 3506.747327 67.79747009
03 11 2018 21:40
03 11 2018 21:50 3448.966064 12.65837955 3589.072076 69.25779724
03 11 2018 22:00 3243.976074 11.73303986 3474.192862 65.79709625
03 11 2018 22:10
                 2584.071045 10.31180954 2971.225205 63.75188065
03 11 2018 22:20
                 2710.495117 10.53005981 3080.000024 60.30992889
03 11 2018 22:30
                 2549.090088 10.37092972 3001.98793 59.48591995
03 11 2018 22:40
                 2705.529053 10.63486958 3127.694811 60.85612106
03 11 2018 22:50 2532.021973 10.39163971 3012.532847 59.20709991
03 11 2018 23:00 2475.975098 10.22634029 2924.991956 60.33592987
03 11 2018 23:10 2842.594971 11.15291977 3323.802842 64.94702148
03 11 2018 23:20 2952.217041 11.50578022 3423.245129 65.1865921
03 11 2018 23:30 2852.164063 10.98927021 3268.640485 64.44719696
03 11 2018 23:40 2913.718994 11.22241974 3345.446225 64.79414368
```

```
2504.961914 10.17146015 2894.185064 61.98575974
03 11 2018 23:50
                 1981.93396 9.060023308 2182.755387 63.75276947
04 11 2018 00:00
04 11 2018 00:10
                 1987.599976 9.11523056 2218.524898 64.52324677
04 11 2018 00:20
                 1935.134033 9.167899132 2252.742408 68.16036224
04 11 2018 00:30
                 1381.401001 8.014806747 1538.487301 71.36229706
04 11 2018 00:40
                 1443.57605 8.236534119 1668.218558 71.36936951
04 11 2018 00:50
                 1655.984009 8.614890099 1899.300845 73.5045166
                 1465.149048 8.086406708 1579.859743 75.86103821
04 11 2018 01:00
04 11 2018 01:10
                 2083.531982 9.470509529 2450.627247 72.81199646
                 1503.029053 8.410720825 1773.233177 74.52709961
04 11 2018 01:20
04 11 2018 01:30
                 938.9111938 6.531548023 818.3866273 80.70381927
04 11 2018 01:40
                 880.5714722 6.568653107 833.1080869 77.79852295
04 11 2018 01:50
                 558.3643799 5.04507494 347.1507128 87.69199371
04 11 2018 02:00
                 442.2261047 5.046862125 347.5960693 105.7848969
04 11 2018 02:10
                447.221405 5.094305992 359.5098894 109.6471024
04 11 2018 02:20
                 828.7642212 6.742139816 904.0150783 119.7959976
04 11 2018 02:30
                 787.5081177 6.855172157 952.1031896 119.7214966
04 11 2018 02:40
                 281.2311096 4.751159191 277.1385671 109.6947021
04 11 2018 02:50
                 292.1879883 4.912321091 314.7483425 113.3210983
                 234.1035004 4.393453121 199.7814475 99.70018005
04 11 2018 03:00
04 11 2018 03:10
                 513.7844849 5.315289021 417.4003622 84.59384155
04 11 2018 03:20 870.3347168 7.235811234 1125.775817 78.49011993
04 11 2018 03:30
                 1117.598022 7.858390808 1449.975814 77.66452789
04 11 2018 03:40
                 1096.438965 7.870653152 1456.817989 73.8579483
04 11 2018 03:50
                 1103.499023 7.598555088 1309.175532 72.65512848
04 11 2018 04:00 1115.51001 7.664135933 1343.930722 71.60434723
04 11 2018 04:10
                 1133.061035 7.627870083 1324.643427 72.32922363
04 11 2018 04:20
                 1149.260986 7.569385052 1293.894749 74.98004913
                 1203.348022 7.945312977 1498.836879 76.82813263
04 11 2018 04:30
                 648.6719971 6.313307762 734.8792045 83.90595245
04 11 2018 04:40
                 530.8502808 5.355588913 428.4007523 91.98610687
04 11 2018 04:50
                 747.5380859 5.785033226 554.8556111 96.49321747
04 11 2018 05:00
04 11 2018 05:10
                 849.0015259 5.664241791 517.5115042 95.93240356
04 11 2018 05:20
                 695.1334839 5.403113842 441.5558313 96.74269867
04 11 2018 05:30 631.7647095 5.478676796 462.8867649 95.00404358
04 11 2018 05:40
                 484.013092 4.972611904 329.2996493 91.0063324
                 474.9285889 5.15414381 374.7900619 92.30045319
04 11 2018 05:50
                 703.5803833 6.220092773 700.7894669 85.41687775
04 11 2018 06:00
04 11 2018 06:10
                 729.5526733 6.676888943 876.9401219 78.51499176
04 11 2018 06:20
                825.9050293 7.312263012 1162.992353 75.75509644
04 11 2018 06:30 682.477417 6.723080158 896.0553011 75.22335815
04 11 2018 06:40 458.8420105 5.964521885 613.0886667 73.78151703
04 11 2018 06:50
                 304.3356934 4.8746171 305.7840766 80.01978302
04 11 2018 07:00
                 308.4108887 4.706709862 267.0821861 98.92067719
04 11 2018 07:10
                 342.8020935 4.682496071 261.6595252 101.4484024
04 11 2018 07:20
                 295.7749023 4.764748096 280.2396717 99.58142853
04 11 2018 07:30
                 504.3139038 5.420724869 446.4814368 100.1492996
                 698.0358276 5.901292801 592.1914332 96.68543243
04 11 2018 07:40
04 11 2018 07:50
                 759.9462891 6.204669952 695.2392182 98.76754761
04 11 2018 08:00
                 630.8582764 5.856767178 577.727692 99.65525818
04 11 2018 08:10
                 554.6392212 5.538832188 480.2403493 100.4197006
04 11 2018 08:20
                 732.3218994 6.11659193 664.0304146 100.6032028
04 11 2018 08:30
                 807.4780884 6.302172184 730.7575557 97.82824707
04 11 2018 08:40
                 509.4360962 5.285307884 409.3074312 97.24313354
04 11 2018 08:50
                 675.8695068 5.763073921 547.9585498 93.01558685
04 11 2018 09:00
                 574.8546753 5.366876125 431.5070964 96.18032074
04 11 2018 09:10 511.8916016 5.336931229 423.290375 91.9620285
04 11 2018 09:20 351.211792 4.580821991 239.305768 94.74655151
04 11 2018 09:30 454.8334045 4.985877991 332.5378547 96.43817902
```

```
04 11 2018 09:40
                 418.6986084 4.940002918 321.3959466 96.10806274
                 436.0393982 4.711256027 268.1046377 89.87729645
04 11 2018 09:50
04 11 2018 10:00
                 566.7537231 5.358241081 429.129651 82.02242279
04 11 2018 10:10
                 538.465271 5.167199135 378.1621397 83.59809113
04 11 2018 10:20
                 595.3814087 5.246956825 399.0666045 81.52642059
04 11 2018 10:30
                 597.7307129 5.861854076 579.3696974 78.24163055
04 11 2018 10:40
                 626.9378052 6.528588772 817.2191768 75.36052704
                 573.6651001 6.229704857 704.2614979 70.56046295
04 11 2018 10:50
04 11 2018 11:00
                  677.729126 6.530253887 817.8759591 67.39787292
                 700.8118286 6.436004162 781.1846359 63.72740173
04 11 2018 11:10
04 11 2018 11:20
                  562.6160889 6.130932808 669.0552879 59.28329086
04 11 2018 11:30
                 617.8823853 6.042630196 638.4640146 59.64976883
04 11 2018 11:40
                 628.5114136 6.140157223 672.2990306 63.28361893
04 11 2018 11:50
                 747.4613037 6.653531075 867.3678297 65.1818924
04 11 2018 12:00
                 488.3548889 5.925115108 600.0150661 56.07963943
04 11 2018 12:10
                 385.4100037 5.344545841 425.3723722 55.49285126
04 11 2018 12:20
                 424.760498 5.375867844 433.9896969 53.92417908
04 11 2018 12:30
                 291.0440063 4.935434818 320.2950554 48.526371
                 538.0819092 5.823659897 567.1061566 55.98075867
04 11 2018 12:40
04 11 2018 12:50
                 786.0278931 6.616971016 852.5105823 61.2711792
                 1108.350952 7.396551132 1204.994102 62.53115082
04 11 2018 13:00
                 999.7097168 7.243730068 1129.592617 66.56030273
04 11 2018 13:10
04 11 2018 13:20
                  1069.390015 7.415715218 1214.689389 65.65522766
04 11 2018 13:30
                 1236.053955 7.715613842 1371.590949 66.82676697
04 11 2018 13:40
                 1526.719971 8.315224648 1715.34631 66.94200897
04 11 2018 13:50
                 1351.659058 7.976823807 1516.752681 62.55030823
04 11 2018 14:00
                 1373.357056 8.103071213 1589.562237 65.35273743
                 1821.120972 9.001717567 2145.098209 69.91618347
04 11 2018 14:10
                 1920.520996 9.28002739 2325.848044 73.47062683
04 11 2018 14:20
                 1527.387939 8.365274429 1745.593155 73.85164642
04 11 2018 14:30
04 11 2018 14:40
                 1501.35498 8.316405296 1716.057431 71.27967072
04 11 2018 14:50
                 1414.147949 8.165708542 1626.270748 73.13955688
04 11 2018 15:00
                 895.2188721 7.052886963 1039.975281 74.22509766
04 11 2018 15:10
                 911.1203003 6.487708092 801.1911546 78.82016754
04 11 2018 15:20
                 791.8400269 6.214130878 698.6409206 76.23314667
04 11 2018 15:30
                  730.4467773 6.734857082 900.9686148 76.19332886
04 11 2018 15:40
                  699.0401001 6.6036129
                                        847.1200875 76.37756348
                 793.817627 6.887283802 966.0447205 72.45584869
04 11 2018 15:50
04 11 2018 16:00
                 1153.322998 7.699398994 1362.843001 68.53479767
                 1209.337036 7.731801033 1380.356024 68.76998138
04 11 2018 16:10
04 11 2018 16:20
                 916.5880127 6.77513504 917.8955105 76.20393372
                 1142.240967 7.380898952 1197.115929 75.03662872
04 11 2018 16:30
04 11 2018 16:40
                 1204.432983 7.687222958 1356.295288 75.89057159
04 11 2018 16:50
                 1528.797974 8.194527626 1643.28416 75.60758209
04 11 2018 17:00
                 1639.093018 8.618585587 1901.609158 70.30505371
                  1610.399048 8.428863525 1784.312543 71.06385803
04 11 2018 17:10
04 11 2018 17:20
                 1378.906006 7.742680073 1386.264685 75.75891876
                 1850.983032 9.434675217 2427.112468 73.60530853
04 11 2018 17:30
04 11 2018 17:40
                 1735.628052 9.064463615 2185.628389 74.7178421
04 11 2018 17:50
                  2293.297119 10.44993973 3041.582232 75.25534058
04 11 2018 18:00
                  2996.814941 11.87901974 3501.871511 72.15136719
04 11 2018 18:10
                 2889.415039 11.69793987 3466.959403 71.48394012
04 11 2018 18:20
                  3080.691895 12.19089031 3548.562851 73.68786621
04 11 2018 18:30
                 3052.620117 12.47257996 3577.024704 77.89547729
04 11 2018 18:40
                 3057.260986 12.34928989 3566.111832 78.6934967
04 11 2018 18:50
                 3259.946045 12.22737026 3552.962496 78.26796722
04 11 2018 19:00
                 2996.301025 11.79051971 3485.550321 78.48049164
04 11 2018 19:10 2936.106934 12.12178993 3539.631369 75.12684631
04 11 2018 19:20 2820.27002 11.50949955 3424.158675 78.18016815
```

```
04 11 2018 19:30 2875.980957 10.93188
                                         3247.857011 79.73181915
                 3190.86792 11.54940987 3433.791553 76.58875275
04 11 2018 19:40
                 3404.88501 12.16051006 3544.732963 75.63172913
04 11 2018 19:50
04 11 2018 20:00 3354.779053 12.20252037 3549.989014 77.72174072
04 11 2018 20:10 3098.798096 11.97041988 3517.275198 80.63967896
04 11 2018 20:20 3322.981934 12.73785973 3592.649214 80.001297
                 3191.294922 12.40709019 3571.5227
04 11 2018 20:30
                                                     81.38818359
                            12.39422035 3570.363183 80.06096649
04 11 2018 20:40 3350.0979
04 11 2018 20:50 3212.590088 12.19174957 3548.668975 76.8232193
04 11 2018 21:00
                 3110.680908 12.11345959 3538.501323 73.28006744
04 11 2018 21:10 3125.774902 12.38652992 3569.657962 72.99080658
04 11 2018 21:20 3071.112061 11.93653011 3511.733695 72.03298187
04 11 2018 21:30 3269.164063 12.45586014 3575.683051 71.92906189
04 11 2018 21:40 3063.126953 12.0596199 3530.91812 76.40061188
04 11 2018 21:50 3346.092041 12.83078957 3595.657516 75.244133
04 11 2018 22:00 3370.904053 12.73593998 3592.573778 72.35237885
04 11 2018 22:10 3126.98291 12.58640957 3585.023487 75.84575653
04 11 2018 22:20 2886.556885 11.70347023 3468.114227 76.32998657
04 11 2018 22:30 2652.691895 10.31908035 2975.061679 77.16300201
04 11 2018 22:40 2879.739014 11.10083961 3306.895371 78.462677
04 11 2018 22:50 2905.819092 11.25994015 3356.700835 80.11554718
04 11 2018 23:00 2508.665039 10.31760979 2974.286939 79.07189178
04 11 2018 23:10 3044.976074 11.50076008 3422.007774 78.2454071
04 11 2018 23:20 3122.792969 11.8900404 3503.806381 81.16677094
04 11 2018 23:30 3343.229004 12.4068203 3571.498649 80.45332336
04 11 2018 23:40 2497.479004 10.31163979 2971.135454 79.81989288
04 11 2018 23:50 2703.499023 11.08372974 3301.210129 78.65213776
05 11 2018 00:00 2505.229004 10.48921967 3060.632372 76.92442322
05 11 2018 00:10 1838.334961 9.017513275 2155.287117 76.30821228
05 11 2018 00:20 2656.312988 10.89659977 3234.699783 77.52114868
05 11 2018 00:30 3018.118896 11.27490997 3361.108102 73.59557343
05 11 2018 00:40 2946.909912 11.10270023 3307.509699 72.9433136
05 11 2018 00:50 2912.458984 10.8612299 3221.214209 72.11213684
05 11 2018 01:00 3359.176025 11.92683983 3510.112513 72.10178375
05 11 2018 01:10 3534.034912 12.53297043 3581.513661 72.09088135
                 3438.61792 12.42870045 3573.41168 74.29669189 3596.76709 13.43117046 3600 73.74234009
05 11 2018 01:20
05 11 2018 01:30
                 3550.334961 12.76060009 3593.501709 73.29987335
05 11 2018 01:40
05 11 2018 01:50 3216.177002 11.8136301 3489.947687 72.44138336
05 11 2018 02:00 3018.574951 11.5692997 3438.476855 75.14552307
05 11 2018 02:10 2354.938965 9.754738808 2629.929763 72.98770905
05 11 2018 02:20 2300.11499 9.722676277 2607.25697 70.61164856
05 11 2018 02:30 3010.903076 11.31225014 3371.896773 71.24636841
05 11 2018 02:40 2973.770996 11.00302029 3273.507325 69.47013092
05 11 2018 02:50 3526.720947 12.41388988 3572.1249 69.97442627
05 11 2018 03:00 3349.64502 11.80185986 3487.720122 70.2073822
05 11 2018 03:10 3450.649902 12.25529957 3556.185048 68.87393951
05 11 2018 03:20 3526.089111 12.43435955 3573.894367 70.39006805
05 11 2018 03:30 3475.395996 12.25024986 3555.611725 68.35310364
05 11 2018 03:40
                 3373.094971 12.3010397 3561.191733 67.55579376
05 11 2018 03:50
                 3439.895996 12.57404041 3584.249467 69.1634903
05 11 2018 04:00
                 3526.272949 12.85233021 3596.175892 69.21958923
05 11 2018 04:10
                 3589.516113 13.43507004 3600 70.92765808
05 11 2018 04:20
                 3578.113037 13.12053967 3600 70.12016296
05 11 2018 04:30 3595.587891 13.12154961 3600 70.60119629
05 11 2018 04:40 3581.407959 12.6530304 3588.797757 69.74562836
05 11 2018 04:50 3487.407959 12.3547802 3566.648343 69.06815338
05 11 2018 05:00 3471.318115 12.30850029 3561.976646 67.78701019
05 11 2018 05:10 3522.773926 12.87662983 3596.680366 68.27351379
```

```
2877.791016 11.17084026 3329.483411 65.15924072
05 11 2018 05:20
                 2734.86499 10.71483994 3162.187049 64.85222626
05 11 2018 05:30
05 11 2018 05:40
                 3481,081055 12,58290958 3584,806807 65,95771027
05 11 2018 05:50
                 3551.73291 12.96751022 3597.817063 68.28038025
                 3566.987061 12.56900024 3583.927457 65.36038971
05 11 2018 06:00
05 11 2018 06:10
                 3549.731934 13.23546028 3600 67.68871307
05 11 2018 06:20
                 3601.685059 13.12228966 3600
                                              68.26087952
                 3588.12207 13.20359993 3600
05 11 2018 06:30
                                               68.77394867
05 11 2018 06:40
                 3525.378906 13.63543034 3600
                                               71.15016937
05 11 2018 06:50
                 3593.773926 13.40289021 3600 65.1267395
05 11 2018 07:00 3485.918945 12.67243958 3589.772847 68.13230896
05 11 2018 07:10 3218.490967 11.5601902 3436.340476 66.57032776
05 11 2018 07:20 3488.729004 12.59072018 3585.287818 65.34417725
05 11 2018 07:30 3469.846924 12.58292961 3584.808052 66.14372253
05 11 2018 07:40 3476.471924 12.99705029 3597.933196 70.39031219
05 11 2018 07:50 2912.856934 11.09943008 3306.42947 71.73734283
05 11 2018 08:00 3023.870117 11.36081028 3385.494586 68.87316132
05 11 2018 08:10 2233.545898 9.450011253 2437.174362 65.08084869
05 11 2018 08:20 2517.437988 9.972559929 2774.92217 61.97912979
                             11.29821014 3367.874349 60.60401154
05 11 2018 08:30
                 3135.5
05 11 2018 08:40
                 3103.219971 11.17134953 3329.643821 60.1781311
                 3131.957031 11.50592041 3423.279611 59.51050949
05 11 2018 08:50
05 11 2018 09:00
                 3026.166992 11.0791502 3299.677401 62.44343948
05 11 2018 09:10 2924.378906 10.88949966 3232.016499 59.26504135
05 11 2018 09:20 2485.521973 10.08812046 2845.68688 55.17089844
05 11 2018 09:30 3128.443115 11.41024017 3398.840324 57.81793976
05 11 2018 09:40 2838.24292 10.63687992 3128.581814 58.65068817
05 11 2018 09:50 2588.812988 9.957709312 2765.525249 57.74190903
05 11 2018 10:00 2943.371094 11.03277016 3283.889803 59.16411972
05 11 2018 10:10 2799.680908 10.79304981 3194.373572 60.11259842
05 11 2018 10:20 2811.811035 10.8190403 3204.737693 58.97090912
05 11 2018 10:30 2841.834961 10.96611023 3260.344909 63.80561829
05 11 2018 10:40
                 2723.61792 10.61553955 3119.113065 61.53514099
05 11 2018 10:50 2725.808105 10.58345985 3104.658011 58.24069977
05 11 2018 11:00 2593.154053 10.45516968 3044.142765 62.05514145
                 2101.219971 9.435873032 2427.898248 66.74198151
05 11 2018 11:10
05 11 2018 11:20
                 1790.582031 8.736332893 1975.600796 62.37265015
                 2525.528076 10.23134995 2927.760106 61.14966965
05 11 2018 11:30
05 11 2018 11:40 2558.920898 10.44886017 3041.052765 65.18536377
05 11 2018 11:50 2362.790039 9.860922813 2702.551164 58.91040039
05 11 2018 12:00 2595.375977 10.35867977 2995.694396 57.58340073
05 11 2018 12:10 2033.234985 9.047766685 2174.828731 55.36045837
05 11 2018 12:20 1798.805054 8.635792732 1912.368789 52.98527908
05 11 2018 12:30 1937.871948 9.0374403 2168.154709 54.9507103
05 11 2018 12:40
                 1137.708008 7.284799099 1149.528087 54.56531906
05 11 2018 12:50
                 1053.277954 7.100695133 1061.969612 41.14640045
                 1424.214966 7.835482121 1437.238804 39.24306107
05 11 2018 13:00
                 1355.130005 7.61218977 1316.356031 42.68669128
05 11 2018 13:10
                 1628.682983 8.15055275 1617.354517 45.41598892
05 11 2018 13:20
05 11 2018 13:30
                 1916.333008 8.793858528 2012.042741 49.80889893
05 11 2018 13:40
                 1993.646973 8.878024101 2065.674635 50.40272903
05 11 2018 13:50
                 2275.360107 9.324515343 2354.935354 48.24256897
05 11 2018 14:00
                 2471.743896 9.713699341 2600.846155 50.32843018
05 11 2018 14:10
                 1862.411987 8.679199219 1939.593424 52.61112976
05 11 2018 14:20
                 1748.536987 8.318829536 1717.51795 50.49728012
05 11 2018 14:30 2158.728027 9.244729996 2302.800563 52.4270401
05 11 2018 14:40 2286.323975 9.324151039 2354.697001 50.58037186
05 11 2018 14:50 2205.204102 9.419794083 2417.351771 51.34309006
05 11 2018 15:00 2459.940918 9.931937218 2749.051129 55.6108017
```

```
05 11 2018 15:10 2294.763916 9.437410355 2428.906775 54.4529686
                 2475.085938 9.696032524 2588.148747 52.63129044
05 11 2018 15:20
05 11 2018 15:30
                 2478.441895 9.637992859 2545.674076 52.39167023
05 11 2018 15:40 2432.711914 9.70904541 2597.511712 49.99509048
                 2903.108887 10.6644001 3140.620427 48.41764069
05 11 2018 15:50
                 2846.062988 10.70374012 3157.496012 50.96775818
05 11 2018 16:00
                 2875.079102 10.51426983 3072.564655 50.53379822
05 11 2018 16:10
                 3292.733887 11.72239971 3472.024145 50.82556915
05 11 2018 16:20
05 11 2018 16:30
                 3487.134033 12.39151001 3570.115696 54.53253937
                 3296.89502 11.89960003 3505.46741 54.90935898
05 11 2018 16:40
05 11 2018 16:50
                 2922.710938 10.95538044 3256.459715 59.33868027
05 11 2018 17:00 3191.965088 11.3365097 3378.750704 60.1803894
05 11 2018 17:10 3245.209961 11.56556034 3437.601828 60.95399094
05 11 2018 17:20 3104.065918 11.34657001 3381.557352 59.23579025
05 11 2018 17:30 2345.625977 9.594292641 2512.914046 56.40908051
05 11 2018 17:40 2187.704102 9.391731262 2398.953149 55.21635818
05 11 2018 17:50 2910.149902 10.76943016 3184.812031 54.28565979
05 11 2018 18:00 3098.099121 11.0900898 3303.331032 55.63162994
05 11 2018 18:10 3390.426025 12.20246983 3549.982864 54.95431137
05 11 2018 18:20 3416.343018 12.17356968 3546.397876 55.74169922
05 11 2018 18:30 3347.064941 11.90005016 3505.545227 59.28398895
                 2740.539063 10.50434971 3067.859411 60.6330719
05 11 2018 18:40
05 11 2018 18:50
                 2864.305908 10.82544994 3207.268476 60.04943848
05 11 2018 19:00
                 2962.926025 11.11489964 3311.518663 61.70349121
05 11 2018 19:10
                 2818.148926 10.59309006 3109.025405 60.07276917
05 11 2018 19:20
                 2910.740967 10.70510006 3158.072413 59.2276001
05 11 2018 19:30 3268.115967 11.71370029 3470.235489 60.24541855
05 11 2018 19:40 3459.398926 12.46140003 3576.13236 61.8490181
05 11 2018 19:50 3557.528076 13.2409296 3600 65.00505066
05 11 2018 20:00
                 3381.594971 12.29084969 3560.105328 67.77179718
05 11 2018 20:10 3279.843994 11.78083038 3483.677953 68.84938049
05 11 2018 20:20
                 3206.97998 11.70695019 3468.83799 70.42027283
05 11 2018 20:30
                 2961.091064 11.09539032 3305.091741 69.02884674
05 11 2018 20:40 2967.695068 11.19513988 3337.074954 68.88490295
05 11 2018 20:50 2262.083984 9.478078842 2455.596018 63.98785019
05 11 2018 21:00
                 2427.3479
                             9.991943359 2787.082424 64.54741669
                 2518.012939 10.24365997 2934.531139 66.95350647
05 11 2018 21:10
05 11 2018 21:20
                 3016.22998 11.05568981 3291.751954 64.60473633
05 11 2018 21:30
                 3256.096924 11.67164993 3461.391869 64.12628174
05 11 2018 21:40 3203.697998 11.76233959 3480.057486 67.37528229
05 11 2018 21:50 3025.916992 11.24009991 3350.786781 67.2372818
05 11 2018 22:00 3049.910889 11.49098015 3419.583017 69.72628784
05 11 2018 22:10 3176.471924 11.74497032 3476.599832 69.54853821
05 11 2018 22:20
                 2874.271973 11.12499046 3314.8099 70.17624664
05 11 2018 22:30 2848.959961 10.94017029 3250.906471 69.99820709
                 2428.554932 9.831918716 2683.086441 68.04226685
05 11 2018 22:40
05 11 2018 22:50
                 2635.106934 10.55056
                                         3089.554856 72.16876984
                 2900.449951 11.20365047 3339.703691 73.89762878
05 11 2018 23:00
                 3059.408936 11.2456398 3352.446519 68.775383
05 11 2018 23:10
05 11 2018 23:20
                 3095.064941 11.17150021 3329.691273 68.80538177
05 11 2018 23:30
                 2567.543945 10.19186974 2905.745588 67.25750732
05 11 2018 23:40
                 2662.790039 10.37469959 3003.916317 65.25845337
05 11 2018 23:50
                 2792.855957 10.73515987 3170.695012 63.97454071
06 11 2018 00:00
                 2884.568115 10.97725964 3264.353877 66.18115997
06 11 2018 00:10
                 3118.385986 11.54841995 3433.556369 70.25570679
06 11 2018 00:20 3368.978027 12.01331997 3524.006084 69.542099
06 11 2018 00:30 2934.770996 10.9738903 3263.145395 67.61929321
06 11 2018 00:40 2534.013916 10.29909039 2964.477762 66.18824005
06 11 2018 00:50 2339.141113 9.75166893 2627.774041 63.45738983
```

```
06 11 2018 01:00
                 2388.1521
                             10.03822994 2815.644139 62.67153931
                 2475.637939 10.40126038 3017.390956 67.38401031
06 11 2018 01:10
06 11 2018 01:20
                 2705.89502 10.82341003 3206.464115 67.53486633
06 11 2018 01:30 2574.184082 10.46109962 3047.03703 67.19415283
06 11 2018 01:40 2795.395996 11.03775024 3285.608203 67.54254913
06 11 2018 01:50 2322.86792 9.924395561 2744.190171 67.71653748
06 11 2018 02:00 2540.395996 10.55107021 3089.791246 69.22501373
                             11.02917004 3282.644074 67.3787384
06 11 2018 02:10 2779.625
06 11 2018 02:20
                 2790.210938 11.16273022 3326.921276 70.7593689
                 2800.860107 10.87679005 3227.18346 67.43109131
06 11 2018 02:30
06 11 2018 02:40
                 2607.273926 10.51912975 3074.86021 68.46508789
06 11 2018 02:50 2602.019043 10.66699028 3141.743563 70.49815369
06 11 2018 03:00 2490.803955 10.32328033 2977.270989 70.22376251
06 11 2018 03:10 2046.737061 9.284564018 2328.812297 66.81194305
                 2165.14209 9.533224106 2465.993385 67.65366364
06 11 2018 03:20
06 11 2018 03:30
                 2049.129883 9.297316551 2337.147238 66.96785736
06 11 2018 03:40 2193.25293 9.561130524 2487.600925 64.57002258
06 11 2018 03:50 2176.97998 9.553906441 2482.034375 64.97757721
06 11 2018 04:00 2705.291992 10.74520016 3174.86099 64.76172638
06 11 2018 04:10 2585.551025 10.52332973 3076.838986 67.50409698
06 11 2018 04:20
                 2857.829102 10.98604965 3267.494309 65.97863007
                 3095.793945 11.49903965 3421.582588 66.13964081
06 11 2018 04:30
                 3037.145996 11.38745975 3392.75142 65.82292175
06 11 2018 04:40
06 11 2018 04:50
                 2887.394043 11.08310986 3301.002932 68.00434875
06 11 2018 05:00 2748.812012 10.85645962 3219.372654 68.09934235
06 11 2018 05:10 3040.537109 11.41191006 3399.282536 66.07836914
06 11 2018 05:20 3077.575928 11.50839043 3423.886534 67.20118713
06 11 2018 05:30 3351.86499 12.07406998 3533.001116 67.75240326
                             12.3669796 3567.823475 65.19551849
06 11 2018 05:40 3504.9021
06 11 2018 05:50 3522.793945 12.51756954 3580.421782 64.69193268
06 11 2018 06:00 3523.60791 12.40246964 3571.109381 62.24137115
06 11 2018 06:10 3353.044922 12.02847004 3526.307869 65.30863953
06 11 2018 06:20 3158.788086 11.52186966 3427.177559 65.57517242
06 11 2018 06:30 2428.668945 9.900050163 2728.373568 63.4333992
06 11 2018 06:40 2927.281006 11.23209953 3348.37839 66.63407898
06 11 2018 06:50 2492.084961 10.19801998 2909.205115 65.79942322
06 11 2018 07:00 2952.419922 11.43527031 3405.409903 67.83724976
06 11 2018 07:10
                 2961.889893 11.31161022 3371.71433 66.86492157
06 11 2018 07:20 2819.312012 10.86847973 3224.002593 66.27526855
06 11 2018 07:30 2920.795898 11.13805008 3319.036216 67.56469727
06 11 2018 07:40 2897.792969 11.08827972 3302.728338 64.82026672
06 11 2018 07:50 2126.354004 9.364752769 2381.276505 64.00385284
06 11 2018 08:00 2364.788086 9.955526352 2764.138053 62.08166885
06 11 2018 08:10 2688.896973 10.56832027 3097.743176 59.68852997
06 11 2018 08:20
                 2505.426025 10.24682999 2936.267651 59.6769104
06 11 2018 08:30
                 2611.163086 10.68107986 3147.823213 61.24250031
                 2898.089111 11.36515045 3386.686322 63.55289078
06 11 2018 08:40
                 2913.290039 11.10647011 3308.752066 61.36661911
06 11 2018 08:50
06 11 2018 09:00 2673.303955 10.44974041 3041.484501 59.34941101
06 11 2018 09:10
                 2715.785889 10.51745987 3074.07216 59.20014954
06 11 2018 09:20
                 2942.874023 11.24427032 3352.036833 59.96583176
06 11 2018 09:30
                 2913.248047 11.1045599 3308.122947 59.17802048
06 11 2018 09:40
                 3287.474121 12.18437004 3547.753621 60.76916885
06 11 2018 09:50
                 3273.429932 12.06424046 3531.588003 60.16534042
06 11 2018 10:00
                 2528.976074 10.14990044 2881.838708 56.75019073
06 11 2018 10:10 2897.423096 10.97204971 3262.484123 57.50749969
06 11 2018 10:20 2925.108887 11.18749046 3334.698915 58.04534912
06 11 2018 10:30 2845.504883 11.05313969 3290.883031 58.33494949
06 11 2018 10:40 2805.141113 10.75646973 3179.50731 56.16566086
```

```
06 11 2018 10:50 2934.50293 11.03326988 3284.062489 56.79901123
                 2902.055908 11.12956047 3316.29309 58.88034058
06 11 2018 11:00
                 3053.602051 11.42475986 3402.666589 58.50181961
06 11 2018 11:10
06 11 2018 11:20 2981.177979 11.26976013 3359.597258 60.5655899
06 11 2018 11:30 2935.611084 10.91364002 3241.091169 58.53342056
06 11 2018 11:40
                 2728.542969 10.34794044 2990.142419 55.91392136
                 2828.585938 10.91800976 3242.719154 58.06966019
06 11 2018 11:50
                 2525.735107 10.2080698 2914.8342
06 11 2018 12:00
                                                     55.70981979
06 11 2018 12:10 1964.08606 9.022268295 2158.35622 54.64825821
                 2791.085938 10.87380028 3226.040984 56.65082932
06 11 2018 12:20
06 11 2018 12:30
                 2893.415039 11.06095982 3293.543014 55.87929153
06 11 2018 12:40 2609.862061 10.35365963 2993.103126 56.14604187
06 11 2018 12:50 2767.016113 10.90719986 3238.683653 57.3868103
06 11 2018 13:00 2524.407959 10.41722012 3025.393764 57.77444077
06 11 2018 13:10 2556.724121 10.28684044 2957.935619 56.47372055
06 11 2018 13:20 2543.878906 10.43295956 3033.217581 56.51776886
06 11 2018 13:30 2616.156982 10.47097015 3051.833485 55.49703979
06 11 2018 13:40 2113.876953 9.209667206 2279.936285 54.30324936
06 11 2018 13:50 2247.416992 9.772366524 2642.246584 56.59600067
06 11 2018 14:00 2513.37207 10.16683006 2891.545275 56.40658951
06 11 2018 14:10
                 1689.692017 8.298974037 1705.570264 54.79465866
                 1782.963013 8.583219528 1879.554997 58.24552917
06 11 2018 14:20
                 2494.437012 10.04751015 2821.290434 56.25836945
06 11 2018 14:30
06 11 2018 14:40
                 2741.083984 10.64155006 3130.638376 58.10884094
06 11 2018 14:50 2529.513916 10.11577988 2862.014881 58.11063004
06 11 2018 15:00 2837.272949 10.88965034 3232.073568 58.49663925
06 11 2018 15:10 2926.827881 11.03102016 3283.28463 59.1705513
06 11 2018 15:20 3297.318115 11.80805969 3488.896575 61.85681915
06 11 2018 15:30 2863.425049 10.6739502 3144.753046 60.12413025
06 11 2018 15:40 2468.446045 9.6766119 2574.066659 57.63805008
06 11 2018 15:50 2794.083984 10.69906044 3155.509018 59.43946075
06 11 2018 16:00 3020.333984 11.37543964 3389.496183 59.16931915
06 11 2018 16:10 3138.97998 11.35529995 3383.975989 57.37047958
06 11 2018 16:20 3364.284912 12.06997013 3532.413689 58.7645607
06 11 2018 16:30 3050.925049 11.31890011 3373.787676 58.78218842
                 2557.959961 10.12106037 2865.105733 57.44285965
06 11 2018 16:40
06 11 2018 16:50
                 2142.552979 9.172662735 2255.841348 57.12429047
06 11 2018 17:00
                 2913.261963 10.94305038 3251.962124 57.48308182
06 11 2018 17:10 3191.564941 12.00798988 3523.186966 59.1921196
06 11 2018 17:20 3276.915039 11.99551964 3521.251585 59.30887985
06 11 2018 17:30 2856.39209 10.69190979 3152.462222 58.30327988
06 11 2018 17:40 3231.312012 11.46168995 3412.208145 59.34897995
06 11 2018 17:50 2792.396973 10.73208046 3169.412269 57.55382919
06 11 2018 18:00 2778.455078 10.76879025 3184.551083 53.69279099
06 11 2018 18:10 2142.73999 9.208295822 2279.042659 52.16865158
06 11 2018 18:20 2916.281006 11.02670956 3281.790999 57.11957169
06 11 2018 18:30
                 3073.772949 11.33111
                                        3377.235682 55.05342102
                 2883.238037 11.01331043 3277.121272 56.19295883
06 11 2018 18:40
06 11 2018 18:50
                 3068.918945 11.27031994 3359.761763 57.11883926
06 11 2018 19:00
                 3010.178955 10.84624004 3215.409093 56.56147003
06 11 2018 19:10
                 3315.509033 11.94371033 3512.9244
                                                    58.57482147
06 11 2018 19:20
                 3056.406006 11.3845396 3391.963299 58.85596085
06 11 2018 19:30
                 2954.675049 11.16742992 3328.407752 57.52532959
06 11 2018 19:40 2460.124023 9.938411713 2753.209716 55.47333145
06 11 2018 19:50
                 2489.935059 10.07629967 2838.637764 55.93891907
06 11 2018 20:00 2855.62207 10.93978977 3250.766854 59.4960289
06 11 2018 20:10 2842.947998 10.81511021 3203.181023 57.76359177
06 11 2018 20:20 2920.885986 11.13337994 3317.529175 59.88394928
06 11 2018 20:30 3029.52002 11.24392986 3351.93492 58.75836945
```

```
06 11 2018 20:40 3109.885986 11.34253025 3380.432833 60.09611893
                 2584.02002 10.25004959 2938.028347 60.14978027
06 11 2018 20:50
06 11 2018 21:00
                 2819.284912 10.80677986 3199.869086 60.3614502
06 11 2018 21:10 2403.710938 9.966353416 2771.003419 61.00714111
06 11 2018 21:20 2734.556885 10.65927029 3138.391042 60.12469864
06 11 2018 21:30 2437.791016 9.937995911 2752.943048 58.69800949
06 11 2018 21:40 2450.133057 10.09844971 2851.811656 61.82896042
                 2432.540039 10.03637028 2814.50947 60.9523201
06 11 2018 21:50
06 11 2018 22:00 2349.824951 9.935177803 2751.134243 62.84712982
                 1624.894043 8.257866859 1680.941674 59.82324982
06 11 2018 22:10
06 11 2018 22:20
                 2167.336914 9.429109573 2423.461575 65.21105194
06 11 2018 22:30 2062.639893 9.073794365 2191.66794 58.81299973
06 11 2018 22:40
                 1728.767944 8.694490433 1949.21154 64.51226807
06 11 2018 22:50
                 1850.667969 8.649659157 1921.053122 61.90779877
06 11 2018 23:00 1785.353027 8.723423958 1967.448532 60.18732071
06 11 2018 23:10 1977.962036 9.229807854 2293.066088 59.74417877
06 11 2018 23:20
                 1359.505981 7.73646307 1382.886334 60.8470993
06 11 2018 23:30 1706.949951 8.546909332 1856.998865 62.44276047
06 11 2018 23:40 1558.185059 8.199691772 1646.340903 59.53889847
                 2079.717041 9.293824196 2334.864321 60.05741882
06 11 2018 23:50
07 11 2018 00:00 2115.190918 9.304688454 2341.967012 61.69758987
07 11 2018 00:10 2062.519043 9.208868027 2279.415515 62.39822006
07 11 2018 00:20
                 2139.927002 9.369949341 2384.680459 61.76934814
07 11 2018 00:30 2003.30896 9.211785316 2281.316595 62.79159927
07 11 2018 00:40 1849.279053 8.846540451 2045.570964 59.12440872
07 11 2018 00:50 2176.121094 9.477631569 2455.302396 56.87886047
07 11 2018 01:00 2078.706055 9.474969864 2453.555105 63.37868118
07 11 2018 01:10 2003.133057 9.085431099 2199.204394 59.24687958
07 11 2018 01:20 1686.552002 8.503512383 1830.159992 60.5647583
                 1962.668945 9.174793243 2257.227554 61.93840027
07 11 2018 01:30
07 11 2018 01:40 2061.072998 9.20063591 2274.052203 62.11513138
07 11 2018 01:50 2320.51001 9.878310204 2714.087642 65.59274292
07 11 2018 02:00 2779.120117 10.78728008 3192.050506 64.43744659
07 11 2018 02:10 2691.790039 10.38006973 3006.656448 61.77096939
07 11 2018 02:20 2728.823975 10.49977016 3065.678407 61.69364166
                 2496.053955 10.29714966 2963.444164 66.2919693
07 11 2018 02:30
07 11 2018 02:40
                 2550.365967 10.4594202 3046.218312 62.66878128
07 11 2018 02:50
                 2640.812012 10.27960968 2954.053844 62.93865967
07 11 2018 03:00 2873.653076 10.79067039 3193.416532 60.17108917
07 11 2018 03:10 2767.76001 10.70330048 3157.309573 58.48696136
07 11 2018 03:20 2986.483887 11.35070038 3382.703623 61.82088852
07 11 2018 03:30 2886.133057 11.09669971 3305.525731 62.67387009
07 11 2018 03:40 2484.048096 10.07328033 2836.830389 62.11623001
07 11 2018 03:50 2481.926025 9.975074768 2776.506553 61.25376892
07 11 2018 04:00
                 2646.299072 10.47262001 3052.632643 63.0542984
07 11 2018 04:10
                 2482.51709 10.01636982 2802.238365 64.23565674
                 3173.391113 11.60795975 3447.366231 65.61605835
07 11 2018 04:20
07 11 2018 04:30
                 2857.204102 10.79405975 3194.77937 63.57651901
                 2568.646973 10.39480972 3014.136423 66.69155121
07 11 2018 04:40
07 11 2018 04:50
                 2238.218018 9.615154266 2528.637249 67.00215912
07 11 2018 05:00
                 2591.593018 10.2402401 2932.654483 66.71781921
07 11 2018 05:10 2127.711914 9.461611748 2444.787148 66.48243713
07 11 2018 05:20
                 1812.392944 8.687378883 1944.736656 65.36550903
07 11 2018 05:30
                 2049.696045 9.210001945 2280.154417 67.07924652
07 11 2018 05:40
                 2161.24707 9.351181984 2372.389263 63.18452072
07 11 2018 05:50 2140.756104 9.464385033 2446.607319 68.00907135
07 11 2018 06:00 1675.968018 8.381398201 1755.380716 65.69724274
07 11 2018 06:10 2155.604004 9.402441978 2405.974027 68.79625702
07 11 2018 06:20 2180.73291 9.465597153 2447.402887 67.09954834
```

```
07 11 2018 06:30 2680.27002 10.6516304 3135.058384 65.52493286
07 11 2018 06:40 2442.756104 10.1468401 2880.074936 63.44392014
07 11 2018 06:50
                 1532.30603 8.229910851 1664.276556 64.89071655
07 11 2018 07:00 2198.157959 9.592190742 2511.321294 62.48704147
07 11 2018 07:10 1449.730957 7.97793293 1517.385204 57.99235916
07 11 2018 07:20 1207.369995 7.564517975 1291.355975 58.04238129
07 11 2018 07:30
                 1501.813965 8.187962532 1639.401698 58.70159912
07 11 2018 07:40 943.1688843 6.89279604 968.450555 54.63404083
07 11 2018 07:50 802.1248779 6.512982845 811.0786555 55.48192978
07 11 2018 08:00
                 1375.090942 7.864471912 1453.366847 58.73173141
07 11 2018 08:10
                 1513.786011 7.949009895 1500.933311 54.73200989
07 11 2018 08:20 1649.311035 8.316484451 1716.105111 55.30514145
07 11 2018 08:30 1841.656006 8.716587067 1963.134778 58.59593964
07 11 2018 08:40 2323.39502 9.796999931 2659.283289 57.02383041
07 11 2018 08:50
                 1475.447998 8.004686356 1532.68153 54.8927803
07 11 2018 09:00
                 1696.44104 8.411225319 1773.540917 57.70421982
07 11 2018 09:10
                 2352.76709 9.745250702 2623.256729 60.63711166
07 11 2018 09:20 2340.717041 9.726222038 2609.781554 57.48574829
07 11 2018 09:30 2122.562988 9.530633926 2463.973562 57.66411972
07 11 2018 09:40 2078.106934 9.319815636 2351.860674 56.71780014
07 11 2018 09:50
                 1595.130005 8.087629318 1580.570651 56.50503922
                 1483.188965 7.919744015 1484.377741 55.48683929
07 11 2018 10:00
                 1337.895996 7.785278797 1409.537496 60.08906174
07 11 2018 10:10
07 11 2018 10:20
                 1558.44104 8.23521328 1667.432116 60.74935913
07 11 2018 10:30 1463.323975 8.059785843 1564.417261 60.81937027
07 11 2018 10:40 1129.682007 7.247166157 1131.25149 57.45254898
07 11 2018 10:50 1216.42395 7.546413898 1281.939972 55.95941925
07 11 2018 11:00 840.8925171 6.533742905 819.2531587 48.66550064
07 11 2018 11:10 1367.088989 7.718418121 1373.107131 51.53162003
07 11 2018 11:20
                 1322.687012 7.760311127 1395.870764 52.12010956
07 11 2018 11:30
                 1151.376953 7.47139883 1243.173308 53.1944809
07 11 2018 11:40 966.8297119 6.977232933 1005.772734 53.79122925
07 11 2018 11:50
                 905.6287231 6.741965771 903.9422002 47.88562012
07 11 2018 12:00
                 1017.992981 6.956550121 996.5485533 41.95264816
07 11 2018 12:10
                 1311.069946 7.829983234 1434.190393 45.55113983
07 11 2018 12:20
                 965.7749023 6.926766872 983.359683 46.10189819
07 11 2018 12:30
                 1190.078003 7.416512012 1215.093681 48.8032608
07 11 2018 12:40
                 1187.171997 7.376626968 1194.971998 46.79288101
07 11 2018 12:50 1121.708008 7.328239918 1170.874655 52.41397095
07 11 2018 13:00
                 938.0426025 6.84716177 948.6449291 52.70524979
07 11 2018 13:10
                 1443.592041 7.869623184 1456.242634 41.969841
07 11 2018 13:20 1481.21106 8.14440155 1613.741906 44.89294815
07 11 2018 13:30
                 1070.697998 7.255459785 1135.262268 53.34315109
07 11 2018 13:40
                 1072.854004 7.301540852 1157.723007 53.38119125
07 11 2018 13:50
                 1054.840942 7.100665092 1061.955697 49.25561905
07 11 2018 14:00
                 546.6843872 6.843968868 947.2686456 54.70679855
                 812.3375244 7.199875832 1108.564207 49.35446167
07 11 2018 14:10
07 11 2018 14:20
                             8.156552315 1620.881513 53.13861847
                 1460.625
07 11 2018 14:30
                 1582.666016 8.291069031 1700.822854 54.95080185
07 11 2018 14:40
                 1861.880005 8.955936432 2115.624548 56.09968948
07 11 2018 14:50
                 903.2183228 6.905056
                                         973.8148175 53.61687088
07 11 2018 15:00
                 1115.927002 7.437205791 1225.626974 55.29082108
07 11 2018 15:10
                 1032.66394 7.280851841 1147.601732 54.64075089
07 11 2018 15:20
                 1169.532959 7.484931946 1250.167183 55.56399155
07 11 2018 15:30
                 1218.297974 7.617077827 1318.936092 57.07941818
07 11 2018 15:40
                 1457.438965 8.207078934 1650.717712 57.79944992
07 11 2018 15:50 1503.911987 8.176102638 1632.398063 59.50616074
07 11 2018 16:00 1151.339966 7.479208946 1247.206122 55.55688095
07 11 2018 16:10 994.9296875 7.143422127 1081.880867 58.03818893
```

```
07 11 2018 16:20 1097.269043 7.42013216 1216.931728 57.66897964
                 1215.48999 7.718294144 1373.04008 60.81068039
07 11 2018 16:30
07 11 2018 16:40
                 1485.838989 8.16519165 1625.966303 62.41912079
07 11 2018 16:50
                 1347.203003 7.844741821 1442.379914 63.65845871
07 11 2018 17:00
                 1339.623047 7.965824127 1510.4867
                                                     65.4224472
07 11 2018 17:10
                 1328.629028 7.875247002 1459.385631 65.91372681
07 11 2018 17:20
                 1237.697021 7.733565807 1381.313542 66.83315277
                 1195.68103 7.648476124 1335.581927 69.87606049
07 11 2018 17:30
                 1253.92395 7.783232212 1408.414467 69.6020813
07 11 2018 17:40
07 11 2018 17:50
                 1331.485962 7.91728878 1482.993054 69.84100342
07 11 2018 18:00
                 1205.271973 7.683196068 1354.133851 71.88111115
07 11 2018 18:10
                 986.8319702 7.294096947 1154.074377 69.8440094
07 11 2018 18:20
                 1121.022949 7.524034023 1270.360413 69.84928894
07 11 2018 18:30
                 1047.333984 7.371203899 1192.254249 69.36959839
07 11 2018 18:40
                 799.1862793 6.791715145 924.9189847 70.0355072
07 11 2018 18:50
                 793.8577271 6.801715851 929.17116
                                                     69.58080292
07 11 2018 19:00
                 764.1044922 6.691580772 882.9931859 70.11222076
07 11 2018 19:10
                 800.762207 6.822742939 938.1505491 71.15218353
                 759.0618896 6.753359795 908.720718 69.05697632
07 11 2018 19:20
                 559.4536133 6.080402851 651.4478891 70.53743744
07 11 2018 19:30
07 11 2018 19:40
                 558.3336182 5.957694054 610.8116328 72.39971924
                 577.9102173 6.040270805 637.658063 72.69120026
07 11 2018 19:50
07 11 2018 20:00
                 606.8104858 6.378636837 759.3302197 72.88806915
07 11 2018 20:10
                 467.5401917 5.752099991 544.5299839 75.79189301
07 11 2018 20:20
                 706.4160156 6.773349762 917.1411937 74.89417267
07 11 2018 20:30
                 734.9243774 6.900893211 971.9913476 74.00640869
07 11 2018 20:40 729.9959717 6.658842087 869.53883
                                                    75.23581696
07 11 2018 20:50 716.6469727 6.879426956 962.6219979 78.77902985
07 11 2018 21:00 633.4769897 6.695941925 884.7947931 79.79885864
07 11 2018 21:10 459.5614929 6.024836063 632.4003385 82.63754272
07 11 2018 21:20 494.0351868 6.09301281 655.8163427 80.40525055
07 11 2018 21:30
                 619.633606 6.25837183 714.6753712 77.31672668
07 11 2018 21:40
                 718.020874 6.720647812 895.0425478 77.81474304
07 11 2018 21:50
                 783.367981 6.884260178 964.7266287 74.99739838
07 11 2018 22:00 861.8587036 7.108160019 1065.430892 76.83966064
                 915.5753174 7.189274788 1103.52058 76.8635788
07 11 2018 22:10
                 951.3480835 7.37954998 1196.438646 76.06860352
07 11 2018 22:20
                 1105.850952 7.725150108 1376.750809 76.30695343
07 11 2018 22:30
07 11 2018 22:40
                 1172.42395 7.768118858 1400.13659 76.11855316
07 11 2018 22:50
                 892.2056885 7.00289011 1017.290352 75.54725647
07 11 2018 23:00 699.3571777 6.665912151 872.4339087 75.17845154
07 11 2018 23:10 651.2197266 6.60521698 847.7663237 74.96569061
07 11 2018 23:20 691.2321167 6.725081921 896.8892904 75.83084106
07 11 2018 23:30
                 524.9807739 6.228507042 703.8282881 74.53321838
07 11 2018 23:40 495.4490051 6.250706196 711.8820194 72.6472168
07 11 2018 23:50
                 489.3688049 6.215382099 699.0915191 72.7559967
08 11 2018 00:00
                 437.6998901 6.080862999 651.6069989 74.5424881
08 11 2018 00:10
                 364.4014893 5.685735226 524.0510481 76.70852661
08 11 2018 00:20
                 416.118988 5.802324772 560.3209051 77.24936676
08 11 2018 00:30
                 487.2182922 6.201911926 694.2493686 75.40769958
08 11 2018 00:40
                 516.2365723 6.168614864 682.3634243 76.79812622
08 11 2018 00:50
                 565.5258789 6.281722069 723.2231514 74.75144958
08 11 2018 01:00
                 591.2617188 6.427238941 777.8221581 73.0174408
08 11 2018 01:10
                 698.286377 6.609745979 849.5924977 71.26442719
08 11 2018 01:20
                 697.7648926 6.565663815 831.9163635 71.06513214
08 11 2018 01:30
                 740.0375977 6.708768845 890.1064171 71.50546265
08 11 2018 01:40 694.7600098 6.58245182 838.6221775 72.32465363
08 11 2018 01:50 807.2910156 6.88217783 963.8195185 75.71334839
08 11 2018 02:00 910.4766846 7.119300842 1070.610305 76.46874237
```

```
1036.380005 7.313260078 1163.483191 75.77017975
08 11 2018 02:10
                 1089.598022 7.462585926 1238.633907 75.39151001
08 11 2018 02:20
08 11 2018 02:30
                 1332.831055 8.040849686 1553.475735 74.74727631
08 11 2018 02:40
                 1317.207031 8.025667191 1544.729356 73.1159668
08 11 2018 02:50
                 1293.897949 8.076693535 1574.217084 75.92339325
08 11 2018 03:00
                 1325.812012 8.091143608 1582.614916 76.22168732
08 11 2018 03:10
                 1330.375
                             8.238891602 1669.622615 75.64330292
                 1209.33606 8.076274872 1573.974081 75.96900177
08 11 2018 03:20
                 1289.156982 8.12724781 1603.68647 74.0996933
08 11 2018 03:30
                 1144.130981 7.778306007 1405.713321 75.00502014
08 11 2018 03:40
08 11 2018 03:50
                 1132.671997 8.100008965 1587.777282 76.53117371
08 11 2018 04:00
                 1543.31897 9.033227921 2165.433363 76.50940704
08 11 2018 04:10
                 1620.707031 8.593490601 1885.951537 73.49121094
08 11 2018 04:20
                 1286.677002 7.972895145 1514.513244 73.97498322
08 11 2018 04:30
                 1135.979004 7.892758846 1469.195154 76.03714752
08 11 2018 04:40
                 1158.720947 7.794353008 1414.52275 74.57086182
08 11 2018 04:50
                 1028.949951 7.654586792 1338.836062 75.1220932
08 11 2018 05:00
                 1158.939941 7.819953918 1428.639405 73.73338318
08 11 2018 05:10
                 1232.959961 7.816858768 1426.928656 71.73483276
08 11 2018 05:20
                 1291.704956 7.941287994 1496.55608 72.77815247
08 11 2018 05:30
                 1451.812012 8.458068848 1802.200386 74.43965912
                 1685.869019 8.887798309 2071.925622 73.47862244
08 11 2018 05:40
08 11 2018 05:50
                 1554.32605 8.386300087 1758.360405 70.20223236
08 11 2018 06:00
                 1345.733032 8.05136013 1559.544327 68.46099854
08 11 2018 06:10
                 983.072876 7.358891964 1186.100167 68.43639374
08 11 2018 06:20
                 1017.013977 7.364674091 1188.987584 70.18032074
08 11 2018 06:30
                 1051.121948 7.425669193 1219.746826 70.59388733
08 11 2018 06:40
                 1011.567993 7.418601036 1216.154095 70.4369812
                 1049.754028 7.541633129 1279.460736 68.39563751
08 11 2018 06:50
08 11 2018 07:00
                 1105.983032 7.609020233 1314.6847
                                                     69.35056305
08 11 2018 07:10 872.682312 6.978630066 1006.39777 66.13020325
08 11 2018 07:20 599.5081177 6.183039188 687.4978532 64.82235718
08 11 2018 07:30
                 514.1356812 5.868590832 581.5483877 66.32717133
08 11 2018 07:40
                 780.6917114 6.779279232 919.6479706 68.56474304
08 11 2018 07:50
                 967.9609985 7.060057163 1043.254981 69.58138275
08 11 2018 08:00
                  1068.766968 7.362711906 1188.007182 69.46772003
08 11 2018 08:10
                 979.6574097 7.175023079 1096.764195 67.75010681
08 11 2018 08:20
                 877.1868286 6.841187
                                         946.0705392 70.22963715
08 11 2018 08:30
                 1027.483032 7.278542995 1146.47598 70.17286682
08 11 2018 08:40
                 768.1837158 6.643321991 863.2037068 68.509552
08 11 2018 08:50
                 788.0557861 6.678552151 877.6241162 69.12346649
                 698.1002197 6.46637392 792.9002939 71.55139923
08 11 2018 09:00
                 601.3936768 6.304821014 731.7367619 73.06178284
08 11 2018 09:10
08 11 2018 09:20
                 610.8770752 6.355371952 750.5696563 70.75614166
08 11 2018 09:30
                 644.0452881 6.45593214 788.860741 75.50370026
08 11 2018 09:40
                 644.3032227 6.474397182 796.012382 75.16838074
08 11 2018 09:50
                 468.2297058 5.815236092 564.4215682 71.49497223
08 11 2018 10:00
                 373.4743042 5.403278828 441.6018477 67.98808289
                 321.2586975 5.113146782 364.2902273 70.56703949
08 11 2018 10:10
08 11 2018 10:20
                  346.4497986 5.151656151 374.1490878 65.94172668
08 11 2018 10:30
                 695.093689 6.302451134 730.8606407 63.84064865
08 11 2018 10:40
                 902.7921143 7.016450882 1023.4116
                                                     69.60826874
08 11 2018 10:50
                 695.6217041 6.51639986 812.4208411 71.87902832
08 11 2018 11:00
                 674.0952759 6.372456074 756.9970641 66.4707489
08 11 2018 11:10
                 723.3358154 6.602837086 846.8076398 69.73365784
08 11 2018 11:20
                 868.9298706 6.871988773 959.3886026 66.41517639
08 11 2018 11:30
                 931.2244263 6.930860043 985.1657162 58.9744606
08 11 2018 11:40 840.1115112 6.857917786 953.2903255 60.50759888
08 11 2018 11:50 669.4238892 6.248014927 710.9028214 56.49625015
```

```
08 11 2018 12:00 468.0187988 5.569090843 489.0964587 57.67422867
                 586.0322266 5.919291019 598.0968222 59.06185913
08 11 2018 12:10
08 11 2018 12:20
                 616.1566162 6.264770031 717.0117108 55.74354935
08 11 2018 12:30
                 754.7398071 6.569930077 833.6174753 57.89677048
                 866.1503296 6.795791149 926.6506134 55.84589005
08 11 2018 12:40
08 11 2018 12:50
                 788.6533813 6.582285881 838.5557391 57.90621185
08 11 2018 13:00
                 646.9921265 6.181334019 686.8897265 59.55765915
                 657.4951172 6.145250797 674.0940719 61.01773071
08 11 2018 13:10
08 11 2018 13:20
                 688.9197998 6.366223812 754.6486785 58.46343994
                 559.2789917 6.006783009 626.2830259 53.00785828
08 11 2018 13:30
08 11 2018 13:40
                 894.3493042 6.869370937 958.2522268 53.21057892
08 11 2018 13:50 619.7824097 6.140114784 672.2840864 58.7107811
08 11 2018 14:00
                 495.234314 5.850161076 575.5992952 56.63225937
08 11 2018 14:10 475.5516968 5.571086884 489.6836833 55.89662933
08 11 2018 14:20 663.6060181 6.135541916 670.6749323 50.56832123
08 11 2018 14:30
                 1227.767944 7.573377132 1295.979432 57.28057098
08 11 2018 14:40
                 1256.526001 7.682957172 1354.005687 55.02524948
08 11 2018 14:50
                 1350.91394 7.664023876 1343.870871 52.27154922
08 11 2018 15:00 1030.109009 7.019854069 1024.95146 46.9585495
                 1235.911987 7.559529781 1288.757266 51.0698204
08 11 2018 15:10
08 11 2018 15:20 816.3953857 6.64727211 864.8134823 56.20198822
                 1424.577026 7.852487087 1446.687696 54.9382782
08 11 2018 15:30
08 11 2018 15:40
                 1640.338013 8.114491463 1596.227033 55.16083908
08 11 2018 15:50
                 1266.687988 7.296004772 1155.008746 49.20344925
08 11 2018 16:00
                 1115.469971 7.237771034 1126.71961 51.71070099
08 11 2018 16:10 1842.593994 8.787180901 2007.803263 61.63938141
08 11 2018 16:20 1156.008057 7.315367222 1164.520968 62.27090073
08 11 2018 16:30 1395.404053 7.791059017 1412.711956 55.9287796
08 11 2018 16:40 511.6141968 5.606592178 500.1921576 50.21300888
08 11 2018 16:50
                 1299.180054 7.655711174 1339.435347 58.48237991
08 11 2018 17:00 668.5336304 5.987978935 620.949451 52.95946884
08 11 2018 17:10 1107.625977 7.13176918 1076.426403 54.05506134
08 11 2018 17:20
                 1718.886963 8.596076012 1887.56276 61.97299957
08 11 2018 17:30 1485.702026 8.176632881 1632.71091 63.24206161
08 11 2018 17:40
                 1291.781006 7.763977051 1397.872771 57.18067932
08 11 2018 17:50
                 1487.234985 7.892809868 1469.223784 54.98637009
                 2034.036987 9.121807098 2222.792764 56.24029922
08 11 2018 18:00
                 2134.092041 9.388183594 2396.628024 61.77305984
08 11 2018 18:10
08 11 2018 18:20 1913.125
                             9.043820381 2172.277735 62.39509964
08 11 2018 18:30
                 1729.146973 8.676466942 1937.876316 65.19550323
08 11 2018 18:40 1730.626953 8.566813469 1869.352375 64.01735687
08 11 2018 18:50 1873.541992 8.986262321 2135.138546 65.96640778
08 11 2018 19:00
                 1301.928955 7.848256111 1444.333656 66.74565887
08 11 2018 19:10
                 1771.474976 8.714104652 1961.569164 69.04025269
08 11 2018 19:20
                 1075.561035 7.185991764 1101.961732 70.71485901
                 1068.334961 7.33141613 1172.446032 68.10196686
08 11 2018 19:30
                 1464.703003 8.252023697 1677.452753 68.05111694
08 11 2018 19:40
                 1538.135986 8.347395897 1734.764926 65.00153351
08 11 2018 19:50
                 1358.490967 8.006567955 1533.760147 65.97093201
08 11 2018 20:00
08 11 2018 20:10
                 1471.739014 8.218233109 1657.335809 67.87985992
08 11 2018 20:20
                 1236.838013 7.745727062 1387.922135 71.32910156
08 11 2018 20:30
                 1546.35498 8.476008415 1813.219799 71.32958984
08 11 2018 20:40
                 1634.207031 8.529346466 1846.12115 71.62071228
08 11 2018 20:50
                 1804.339966 9.069190025 2188.687284 74.82113647
08 11 2018 21:00
                 1822.813965 8.966284752 2122.279112 71.24246979
08 11 2018 21:10
                 1851.062988 8.895228386 2076.680465 70.85691071
08 11 2018 21:20
                 1540.10498 8.39637661 1764.491555 69.2258606
08 11 2018 21:30 1552.744995 8.350625992 1736.719326 67.44494629
08 11 2018 21:40 1869.520996 8.977871895 2129.735665 70.33866882
```

```
1984.077026 9.323983192 2354.587185 72.51200104
08 11 2018 21:50
08 11 2018 22:00
                 1613.442017 8.55091095 1859.480291 71.623703
08 11 2018 22:10
                 1861.003052 8.926782608 2096.901853 67.90115356
08 11 2018 22:20
                 1789.770996 8.814962387 2025.456616 69.44982147
08 11 2018 22:30
                 1800.551025 8.87398243 2063.09116 67.68518066
08 11 2018 22:40
                 1287.307983 7.929480076 1489.875088 68.2491684
08 11 2018 22:50
                 1071.649048 7.503831863 1259.965441 67.05375671
                 1119.953979 7.485935211 1250.686789 62.73365021
08 11 2018 23:00
08 11 2018 23:10
                 1492.317017 8.275689125 1691.601654 65.80114746
                 1491.105957 8.285722733 1697.615118 67.52065277
08 11 2018 23:20
08 11 2018 23:30
                 1470.370972 8.177747726 1633.368762 65.59031677
08 11 2018 23:40
                 1322.963013 7.899693012 1473.088847 64.39861298
08 11 2018 23:50
                 1322.187988 7.909173012 1478.42067 68.42878723
09 11 2018 00:00
                 1240.873047 7.78225708 1407.879554 69.88522339
09 11 2018 00:10
                 1466.119019 8.432525635 1786.551985 65.75025177
09 11 2018 00:20
                 1392.737061 8.190408707 1640.847853 61.81782913
09 11 2018 00:30
                 1027.678955 7.327980042 1170.74615 61.70072174
09 11 2018 00:40
                 1068.150024 7.437524796 1225.789854 61.54660034
                 1147.927979 7.480490208 1247.868605 62.05049133
09 11 2018 00:50
                 1003.896973 7.207240105 1112.076928 59.30752182
09 11 2018 01:00
                 990.5217285 7.207763195 1112.326722 58.45993042
09 11 2018 01:10
                 749.1207886 6.611341953 850.2365777 57.85202026
09 11 2018 01:20
09 11 2018 01:30
                  672.1984253 6.455037117 788.5150475 61.68112183
09 11 2018 01:40
                 575.6983032 6.009879112 627.3296703 62.30292892
09 11 2018 01:50
                 496.4395142 5.808283806 562.2113968 60.73677826
09 11 2018 02:00
                 499.9299011 5.952379227 609.0426171 56.01134109
09 11 2018 02:10 683.7564697 6.510931015 810.2733316 53.14680862
09 11 2018 02:20 849.3666992 6.866799831 957.1369476 51.72901154
                 668.7567749 6.454214096 788.1972421 51.92042923
09 11 2018 02:30
                 463.8995972 5.811751842 563.3132893 51.79042816
09 11 2018 02:40
09 11 2018 02:50
                 394.015686 5.578536034 491.8785028 46.29822922
09 11 2018 03:00
                 508.1293945 5.816714764 564.8922824 42.9286499
09 11 2018 03:10
                  443.5521851 5.817079067 565.0082876 51.31628036
09 11 2018 03:20
                 375.0234985 5.46708107 459.579843 51.44301987
                 382.7908936 5.510852814 472.1273301 50.57181931
09 11 2018 03:30
09 11 2018 03:40
                 535.9638062 6.091211796 655.1913796 54.16962814
09 11 2018 03:50
                 479.4876099 5.890245914 588.5836753 52.86360931
                 431.2914124 5.66831398 518.7470398 48.86251068
09 11 2018 04:00
09 11 2018 04:10
                 647.1066284 6.405632019 769.5693636 57.79027176
                 536.0626221 6.061334133 644.8742033 50.09909821
09 11 2018 04:20
                 576.8560791 6.169169903 682.5605818 60.47797012
09 11 2018 04:30
09 11 2018 04:40
                 702.1948242 6.614318848 851.4387223 57.15597153
09 11 2018 04:50
                 590.4691162 6.220571041 700.9619901 55.82817841
09 11 2018 05:00
                 519.1539917 6.015930176 629.3782052 55.75329971
09 11 2018 05:10
                 754.8460083 6.721114159 895.2366666 52.0525589
09 11 2018 05:20
                 732.68573
                              6.667139053 872.9368904 52.59064102
09 11 2018 05:30
                 869.2022705 6.98332119 1008.498245 52.01192093
                 947.9661865 7.259791851 1137.361065 60.1410408
09 11 2018 05:40
09 11 2018 05:50
                 1151.300049 7.674938202 1349.707743 58.85277939
09 11 2018 06:00
                 926.2816162 7.1254282
                                         1073.465948 58.22602844
09 11 2018 06:10
                 901.2573242 7.047725201 1037.618374 57.62236023
09 11 2018 06:20
                 858.2523804 7.080698013 1052.733548 61.75614929
09 11 2018 06:30
                 744.4262695 6.760229111 911.6090018 61.77807999
09 11 2018 06:40
                 634.2349243 6.47151804 794.8947932 57.09666824
09 11 2018 06:50
                 679.8068848 6.452888966 787.6857064 55.47502899
09 11 2018 07:00
                 656.6384277 6.282802105 723.6199393 55.21495819
09 11 2018 07:10
                 344.8664856 5.256814957 401.6871507 58.36339951
09 11 2018 07:20 269.5628967 4.820799828 293.1656827 56.35068893
09 11 2018 07:30 371.1294861 5.4491992 454.5041626 61.13240051
```

```
09 11 2018 07:40 292.3710938 4.949995041 323.8093957 53.74842834
09 11 2018 07:50
                 257.5848999 4.87488699 305.8478782 56.39342117
09 11 2018 08:00
                 81.04216003 3.627127886 67.53124316 41.64871979
09 11 2018 08:10
                 199.344101 4.419353008 205.1217808 34.40267181
09 11 2018 08:20
                 249.8226929 4.650420189 254.5355184 30.14209938
09 11 2018 08:30
                 312.0252991 5.128540039 368.2168174 33.9463501
                 253.5189056 4.793612957 286.8689342 26.68304062
09 11 2018 08:40
                 269.5354919 4.893918037 310.3600541 23.15422058
09 11 2018 08:50
09 11 2018 09:00
                 265.4390869 4.902347088 312.3669339 22.41988945
                 236.8930969 4.775160789 282.6244897 27.83094025
09 11 2018 09:10
09 11 2018 09:20
                 169.7472992 4.396667004 200.442048 35.70877838
09 11 2018 09:30
                 105.8988037 4.073272228 136.7243737 53.33797073
09 11 2018 09:40
                 31.26671982 3.402252913 41.81668565 51.47602081
09 11 2018 09:50 0
                       3.621373892 66.77240561 48.1160202
09 11 2018 10:00
                 290.6622009 5.096337795 360.024051 49.03470993
09 11 2018 10:10
                 249.8683014 4.849627972 299.8993143 45.35282898
09 11 2018 10:20
                 207.5182953 4.588276863 240.9223845 55.5698204
09 11 2018 10:30
                 186.024704 4.238073826 168.5211268 48.32910919
09 11 2018 10:40 411.4205017 5.378627777 434.753137 57.36251831
                 640.2490234 5.977024078 617.2709813 55.07141876
09 11 2018 10:50
                 388.0492859 5.219127178 391.7126653 59.34183884
09 11 2018 11:00
09 11 2018 11:10
                 313.1549072 5.113028049 364.2600139 64.58712006
09 11 2018 11:20
                 378.4527893 5.429689884 448.9994973 61.74494934
09 11 2018 11:30
                 385.1972961 5.174745083 380.1175118 51.60507965
09 11 2018 11:40
                 325.5264893 5.089486122 358.2914928 44.00030136
09 11 2018 11:50
                 381.7495117 5.06791687 352.8614774 51.61772919
09 11 2018 12:00 545.0618286 5.771006107 550.4443163 56.22491837
09 11 2018 12:10 474.5629883 5.534055233 478.8500549 58.83103943
09 11 2018 12:20 487.8391113 5.665429115 517.8715816 60.09381866
09 11 2018 12:30
                 810.2418823 6.6611619 870.4881234 60.6171608
                 575.5806885 6.012430191 628.1928383 62.52822876
09 11 2018 12:40
09 11 2018 12:50
                 521.0667114 5.723779202 535.7373482 50.55347824
09 11 2018 13:00
                 663.7045898 6.312934875 734.7409699 50.98897171
09 11 2018 13:10
                 737.8469238 6.513040066 811.1011207 56.18716049
                 866.9136963 6.881886005 963.6924367 55.46632004
09 11 2018 13:20
09 11 2018 13:30
                 784.1978149 6.649217129 865.6067838 58.55823135
                 1036.146973 7.31345892 1163.581094 58.42102814
09 11 2018 13:40
09 11 2018 13:50
                 845.7741699 6.779679775 919.8174567 57.8326683
09 11 2018 14:00
                 900.1528931 7.031246185 1030.116907 58.81343079
09 11 2018 14:10
                 950.6328735 7.067378044 1046.610485 61.27059937
09 11 2018 14:20
                 1026.583984 7.185955048 1101.944307 63.94527054
09 11 2018 14:30 948.9274292 7.071777821 1048.630462 59.95793915
09 11 2018 14:40
                 1293.587036 7.782502174 1408.013991 64.95044708
09 11 2018 14:50
                 1207.812012 7.643352032 1332.856818 63.06594086
09 11 2018 15:00
                 1296.131958 7.757666111 1394.427283 58.23841095
09 11 2018 15:10
                 1225.05603 7.502852917 1259.463129 51.41307068
                 1020.171997 7.074284077 1049.782234 52.74964142
09 11 2018 15:20
09 11 2018 15:30
                 816.6254883 6.626493931 856.3658118 53.99179077
09 11 2018 15:40
                 953.526123 6.821208954 937.4936879 54.81431961
09 11 2018 15:50
                 1619.852051 8.416516304 1776.769592 62.73654938
09 11 2018 16:00
                 1425.519043 7.984132767 1520.923302 63.62073898
09 11 2018 16:10
                 1835.85498 8.861890793 2055.366775 62.63302994
09 11 2018 16:20
                 1565.081055 8.227189064 1662.657751 65.29499054
09 11 2018 16:30
                 1593.237061 8.365195274 1745.545158 67.48638916
09 11 2018 16:40
                 1131.469971 7.377598763 1195.459465 65.64082336
09 11 2018 16:50
                 1071.704956 7.364584923 1188.943019 65.11884308
09 11 2018 17:00 1124.724976 7.396049023 1204.740814 67.53925323
09 11 2018 17:10 1401.093018 7.968536854 1512.030817 64.6011734
09 11 2018 17:20 1246.411987 7.654910088 1339.008359 65.34657288
```

```
09 11 2018 17:30 1187.417969 7.519896984 1268.227224 67.30079651
09 11 2018 17:40
                 630.8092041 6.245868206 710.1223112 71.1139679
09 11 2018 17:50
                 801.6724854 6.61554718 851.9350471 72.6861496
09 11 2018 18:00
                 561.4509888 5.932859898 602.5714692 72.54498291
09 11 2018 18:10
                 637.9968262 6.305770874 732.0880858 68.60822296
09 11 2018 18:20
                 999.3718872 7.163927078 1091.522908 69.38244629
                 1052.152954 7.049757957 1038.546138 73.51717377
09 11 2018 18:30
                 1151.203003 7.645214081 1333.846713 69.56694031
09 11 2018 18:40
09 11 2018 18:50
                 1013.934998 7.268232822 1141.458097 69.07354736
                 1126.849976 7.459619999 1237.108866 67.29093933
09 11 2018 19:00
09 11 2018 19:10
                 1423.958984 8.062293053 1565.868657 68.50206757
09 11 2018 19:20
                 1279.135986 7.841198921 1440.411692 65.09322357
09 11 2018 19:30
                 1363.151978 7.93948698 1495.536082 69.94774628
09 11 2018 19:40
                 1443.19104 8.134156227 1607.732775 69.02989197
09 11 2018 19:50
                 1405.624023 8.041139603 1553.642979 70.99714661
09 11 2018 20:00
                 1607.837036 8.372383118 1749.905752 70.64071655
09 11 2018 20:10
                 1381.60498 8.04783535 1557.507922 72.58322906
09 11 2018 20:20 910.4790039 7.021101952 1025.516468 72.23191833
09 11 2018 20:30 860.0473022 6.86756897 957.4704956 72.55069733
                 735.1065063 6.434687138 780.6788662 75.66610718
09 11 2018 20:40
09 11 2018 20:50
                 826.6137085 6.594079018 843.2851838 73.36580658
09 11 2018 21:00 817.2645874 6.620114803 853.7821632 74.90676117
09 11 2018 21:10
                 533.510376 5.620047092 504.2057476 79.29309845
09 11 2018 21:20
                 642.9968872 6.02243185 631.5836546 76.97545624
09 11 2018 21:30
                 435.5880127 5.254772186 401.1434582 79.48684692
09 11 2018 21:40 584.0435791 5.930998802 601.9565791 74.96674347
09 11 2018 21:50 860.7072754 6.758338928 910.8136986 75.2611618
09 11 2018 22:00 730.6500854 6.438095093 781.9879963 73.02498627
09 11 2018 22:10 737.3220825 6.547883987 824.8489206 74.75125885
09 11 2018 22:20
                 1064.407959 7.310682774 1162.214722 71.9884491
09 11 2018 22:30
                 1133.594971 7.456552982 1235.533256 70.64196014
09 11 2018 22:40
                 1079.129028 7.404347897 1208.931963 70.48948669
09 11 2018 22:50
                 1286,426025 7,682579041 1353,802839 72,21202087
09 11 2018 23:00
                 1455.13501 8.070575714 1570.667863 71.72596741
                 1633.406006 8.436349869 1788.891661 73.49915314
09 11 2018 23:10
09 11 2018 23:20
                 1623.078003 8.46996212 1809.503189 75.58701324
09 11 2018 23:30
                 1470.907959 8.2905159
                                         1700.490867 76.29633331
                 1385.884033 8.164764404 1625.714678 74.89507294
09 11 2018 23:40
09 11 2018 23:50
                 1074.821045 7.144557953 1082.413491 77.78352356
10 11 2018 00:00 854.4588013 6.694375038 884.1472532 76.48001862
10 11 2018 00:10 950.6292725 6.935918808 987.4006724 76.10122681
                 779.4165039 6.411291122 771.7259262 75.97366333
10 11 2018 00:20
10 11 2018 00:30
                 585.1707764 5.926889896 600.6003288 78.13236237
10 11 2018 00:40
                 405.0856934 5.062036037 351.3873131 83.9389267
10 11 2018 00:50
                 443.1080017 5.002087116 336.5125008 86.20929718
10 11 2018 01:00
                 372.0701904 4.956915855 325.4853683 86.23343658
10 11 2018 01:10
                 713.7420044 6.406341076 769.839378 79.53444672
                 696.2756958 6.27643013 721.2807951 78.77761078
10 11 2018 01:20
                 731.0593262 6.55741787 828.634207 75.11064148
10 11 2018 01:30
                 532.5831909 5.624186039 505.4438781 77.66329193
10 11 2018 01:40
10 11 2018 01:50
                 943.7097778 7.187279224 1102.57287 76.02044678
10 11 2018 02:00
                 830.7753296 6.987083912 1010.18503 72.74376678
10 11 2018 02:10
                 1239.043945 7.745232105 1387.652821 72.11446381
10 11 2018 02:20
                 1267.390991 7.939671993 1495.640847 74.12645721
10 11 2018 02:30
                 1420.213013 8.168478012 1627.902366 73.02340698
10 11 2018 02:40
                 1527.93396 8.315612793 1715.580082 69.11784363
10 11 2018 02:50
                 1370.088989 8.183122635 1636.542021 64.74958801
10 11 2018 03:00 1066.057007 7.391225815 1202.30966 67.33113098
10 11 2018 03:10 1093.147949 7.477090836 1246.111494 66.54187775
```

```
10 11 2018 03:20 1008.575989 7.202702999 1109.911873 65.77216339
                 941.7984009 7.062488079 1044.368412 65.61171722
10 11 2018 03:30
10 11 2018 03:40
                 885,508606 6,974365234 1004,490579 68,32775116
10 11 2018 03:50
                 1272.598999 7.826098919 1432.039142 65.71473694
10 11 2018 04:00
                 1624.965942 8.458712578 1802.595385 65.75302887
10 11 2018 04:10
                 1261.69104 7.822562218 1430.081921 67.41426849
10 11 2018 04:20
                 1848.23999 9.037149429 2167.966774 67.65862274
                 1635.870972 8.611084938 1896.924951 67.22174835
10 11 2018 04:30
10 11 2018 04:40
                 1648.834961 8.575805664 1874.942214 65.62409973
                 2016.762939 9.294511795 2335.313777 65.67289734
10 11 2018 04:50
10 11 2018 05:00
                             9.476520538 2454.573046 65.37722778
                 2101.3479
10 11 2018 05:10
                 1974.149048 9.183609009 2262.964876 64.86325073
10 11 2018 05:20
                 1897.791016 9.09909153 2208.05744 68.64427948
10 11 2018 05:30
                 1783.123047 8.822369576 2030.170222 70.72589111
10 11 2018 05:40
                 1223.149048 7.75512886 1393.0434
                                                     73.29963684
10 11 2018 05:50
                 1130.741943 7.470073223 1242.489748 69.1957016
10 11 2018 06:00
                 1058.871948 7.181125164 1099.653667 69.65088654
10 11 2018 06:10
                 1356.594971 7.851705074 1446.252444 70.15222168
10 11 2018 06:20 1321.144043 7.847073078 1443.675801 65.18079376
                 1137.81897 7.481610775 1248.448207 63.44681931
10 11 2018 06:30
10 11 2018 06:40 872.5864258 6.834503174 943.1957355 62.88906097
10 11 2018 06:50
                 1321.246948 7.893145084 1469.411896 66.74777222
10 11 2018 07:00
                 1646.522949 8.631211281 1909.502162 69.42263031
10 11 2018 07:10
                 1208.292969 7.641854763 1332.061164 66.57626343
10 11 2018 07:20
                 1241.969971 7.617071152 1318.932567 71.35166931
10 11 2018 07:30
                 1218.69104 7.696649075 1361.362619 70.21169281
10 11 2018 07:40
                 1394.94397 8.053819656 1560.966034 72.78835297
10 11 2018 07:50
                 1132.574951 7.431080818 1222.502612 73.63300323
10 11 2018 08:00 814.5360107 6.646337986 864.4326415 74.56449127
10 11 2018 08:10 994.6917114 7.27171278 1143.150093 72.8692627
10 11 2018 08:20
                 898.2421265 6.964335918 1000.014583 72.9352417
10 11 2018 08:30
                 1026.145996 7.316720009 1165.187556 73.87882233
10 11 2018 08:40
                 912.9874878 6.990938187 1011.914714 75.75784302
10 11 2018 08:50
                 901.7103271 6.978478909 1006.330135 72.9954071
                 1006.749023 7.160945892 1090.117553 73.9331131
10 11 2018 09:00
10 11 2018 09:10
                 712.4389038 6.373188019 757.2731464 72.04488373
10 11 2018 09:20
                 534.7706299 5.978371143 617.7226097 69.96362305
                 691.2609863 6.395431995 765.6911947 67.28063965
10 11 2018 09:30
10 11 2018 09:40
                 700.7440796 6.53031683 817.900792 62.75790024
                 460.2022095 5.662827969 517.0829163 66.17067719
10 11 2018 09:50
10 11 2018 10:00
                 766.6207886 6.659401894 869.7678527 71.21344757
10 11 2018 10:10
                 686.1893921 6.394461155 765.322662 69.7694931
10 11 2018 10:20
                 491.4108887 5.744589806 542.1905383 69.1960907
10 11 2018 10:30
                 600.9442749 6.158067226 678.6230199 66.22149658
10 11 2018 10:40
                 892.6848755 7.035120964 1031.877614 67.77310944
10 11 2018 10:50
                 762.2149048 6.617649078 852.784746 63.3611908
10 11 2018 11:00
                 810.9249878 6.754786968 909.3203327 64.16223907
                 632.6265869 6.331544876 741.6583302 66.56434631
10 11 2018 11:10
                 589.4655151 6.145821095 674.2952247 71.04683685
10 11 2018 11:20
10 11 2018 11:30
                 708.0469971 6.543595791 823.1496767 64.8361969
10 11 2018 11:40
                 785.7559814 6.716256142 893.2157396 66.78130341
10 11 2018 11:50
                 636.6533203 6.364533901 754.0126294 66.28733826
10 11 2018 12:00
                 470.7694092 5.570011139 489.3671582 64.68765259
10 11 2018 12:10
                 865.2072144 6.909954071 975.9631017 62.57878113
10 11 2018 12:20
                 961.2786865 7.11342907 1067.878448 65.96354675
10 11 2018 12:30
                 817.387207 6.844148159 947.3458953 65.42417145
10 11 2018 12:40
                 775.3817749 6.716450214 893.2964208 65.5058136
10 11 2018 12:50 669.8010254 6.321856976 738.0526492 62.48487091
10 11 2018 13:00 498.9715881 5.760560036 547.1720746 63.04008102
```

```
10 11 2018 13:10 835.9857788 6.889987946 967.224488 57.4333992
                 624.8372192 6.161797047 679.9443289 50.51081085
10 11 2018 13:20
10 11 2018 13:30
                 639.6013184 6.170475006 683.0243027 49.41218948
10 11 2018 13:40
                 584.9296265 6.017793179 630.009697 53.60076904
10 11 2018 13:50
                 653.0363159 6.293217182 727.4527255 56.2681694
10 11 2018 14:00
                  901.1055298 6.97766304 1005.965125 58.06090927
                 1005.302002 7.307674885 1160.735534 61.89028931
10 11 2018 14:10
10 11 2018 14:20
                  1077.199951 7.331892014 1172.681592 61.75328064
                 954.7905884 7.095645905 1059.632572 64.59378052
10 11 2018 14:30
                  1167.01001 7.41506815 1214.361139 60.99924088
10 11 2018 14:40
10 11 2018 14:50
                 1251.94104 7.644371033 1333.398481 59.78079987
10 11 2018 15:00
                 1307.281006 7.867365837 1454.982063 57.90719986
10 11 2018 15:10
                 933.2619019 6.944580078 991.234598 50.50040054
10 11 2018 15:20
                 715.1204834 6.313332081 734.8882203 54.22098923
10 11 2018 15:30 820.6279297 6.777945042 919.0835577 56.59247971
10 11 2018 15:40 635.4052124 6.191691875 690.5885209 56.57926941
10 11 2018 15:50
                 1044.974976 7.245381832 1130.389849 59.7938118
10 11 2018 16:00
                 1166.53894 7.537755013 1277.451841 58.56093979
                 1281.618042 7.638510227 1330.284895 56.7665596
10 11 2018 16:10
10 11 2018 16:20
                 1621.165039 8.37815094 1753.407869 60.82382965
                 1289.47998 7.658896923 1341.134184 62.24866867
10 11 2018 16:30
10 11 2018 16:40
                 1336.420044 7.817024231 1427.020083 64.03752136
10 11 2018 16:50
                 1351.823975 7.835492134 1437.244358 63.54724121
10 11 2018 17:00
                 1340.536011 7.818782806 1427.991979 66.5980835
10 11 2018 17:10
                 1291.113037 7.721901894 1374.992028 70.26009369
10 11 2018 17:20
                 810.699585 6.585663795 839.9087914 75.1830368
10 11 2018 17:30 462.3128967 5.316723824 417.7895979 82.1791687
10 11 2018 17:40 655.3572998 5.976191998 616.9921081 81.04017639
                 887.5369263 6.921328068 980.9631257 77.84339905
10 11 2018 17:50
                 936.9559937 7.162875175 1091.026896 76.58413696
10 11 2018 18:00
10 11 2018 18:10 604.8375244 6.089651108 654.6500914 78.04128265
10 11 2018 18:20
                 509.5296021 5.536499023 479.5610349 81.17794037
10 11 2018 18:30
                 497.1672974 5.633708954 508.2988237 78.92077637
10 11 2018 18:40
                 553.5753784 5.470495224 460.5522345 82.93937683
                 497.1408081 5.501666069 469.4793021 82.01194
10 11 2018 18:50
10 11 2018 19:00
                 525.7672729 5.658223152 515.6883528 80.87332153
10 11 2018 19:10
                  230.7276001 4.309310913 182.6911673 81.47180176
                  207.0204926 4.229275227 166.7893734 83.56513977
10 11 2018 19:20
                 350.433197 4.897154808 311.1300884 81.82312775
10 11 2018 19:30
10 11 2018 19:40
                 136.8793945 3.946106911 117.8848841 83.27406311
10 11 2018 19:50
                 318.3257141 4.729753017 272.2789478 85.60710907
10 11 2018 20:00
                 137.0330963 3.755445004 85.83001238 94.60368347
10 11 2018 20:10
                 107.6272964 3.272627115 30.67011121 90.09060669
10 11 2018 20:20
                 56.38835144 2.885030031 0
                                               89.8837204
10 11 2018 20:30
                 23.8241806 2.635890961 0
                                                88.94687653
10 11 2018 20:40
                 8.07100296 2.121481895 0
                                                103.0541992
10 11 2018 20:50
                 0
                        1.788128018 0
                                         129.6468964
10 11 2018 21:00
                 0
                        1.242318988 0
                                         161.5151062
10 11 2018 21:10
                 0
                       0.953999996 0
                                         151.6631927
14 11 2018 12:00
                 0
                       7.488448143 1251.988953 0
                        8.258516312 1681.329644 22.73006058
14 11 2018 12:10
                 0
14 11 2018 12:20
                        9.464104652 2446.423295 19.42822075
14 11 2018 12:30
                        11.61071968 3447.989922 16.97263908
14 11 2018 12:40
                        11.76595974 3480.771203 17.56734085
                 0
14 11 2018 12:50
                        10.82363033 3206.55103 22.2729702
                 0
14 11 2018 13:00
                 0
                        11.42558956 3402.883952 19.21248055
14 11 2018 13:10
                 0
                       11.27029991 3359.755879 21.12811089
14 11 2018 13:20 0
                       11.36357021 3386.252862 0
14 11 2018 13:30 0
                       9.396669388 2402.189884 27.91153908
```

```
6.581978798 838.4327982 30.81994057
14 11 2018 13:40
                  0
                        6.522029877 814.6351179 28.84901047
14 11 2018 13:50
                  0
14 11 2018 14:00
                  0
                        7,223227978 1119,728694 38,81658936
14 11 2018 14:10
                  0
                        6.27794981 721.8382705 33.94197083
                  0
14 11 2018 14:20
                        6.155620098 677.75692
                                                40.34156036
14 11 2018 14:30
                        6.664878845 872.0104279 38.83396912
14 11 2018 14:40
                  0
                        5.958827972 611.1894422 36.03757858
                        6.421336174 775.5625114 38.96652985
14 11 2018 14:50
                  0
14 11 2018 15:00
                  0
                        7.209797859 1113.298703 42.88891983
                        6.346927166 747.404261 37.93038177
14 11 2018 15:10
                  0
                                   792.9108245 34.87662888
14 11 2018 15:20
                  0
                        6.4664011
14 11 2018 15:30
                        6.641270161 862.3682373 35.51976013
14 11 2018 15:40
                        7.444169998 1229.186307 39.2818718
14 11 2018 15:50
                        6.353375912 749.8207732 36.23307037
                        6.449629784 786.4283977 36.81914139
14 11 2018 16:00
                  0
14 11 2018 16:10
                  0
                        5.386382103 436.9016975 33.83533859
14 11 2018 16:20
                  0
                        5.936800957 603.8747721 24.60758972
14 11 2018 16:30
                  0
                        5.959259987 611.3334208 32.64186859
                  0
14 11 2018 16:40
                        5.891263008 588.9153102 36.43019104
14 11 2018 16:50
                  0
                        7.166248798 1092.618215 41.7327919
14 11 2018 17:00
                  814.4440918 7.531210899 1274.066496 41.36391068
                  1239.80896 7.54930687 1283.4417
14 11 2018 17:10
                                                      41.05495071
                  1718.452026 8.610402107 1896.498699 40.42295074
14 11 2018 17:20
14 11 2018 17:30
                  1764.375
                              8.772939682 1998.769842 42.34449005
14 11 2018 17:40
                  1607.208984 8.18965435 1640.401826 42.25207901
14 11 2018 17:50
                  1607.300049 8.224061966 1660.798702 38.77178955
14 11 2018 18:00
                  1597.722046 8.156653404 1620.94097 41.97303009
                 1662.767944 8.44289875 1792.900866 40.74274063
14 11 2018 18:10
                  1571.524048 8.078617096 1575.333795 39.68534088
14 11 2018 18:20
                 826.2012939 6.523115158 815.0623635 40.22777939
14 11 2018 18:30
14 11 2018 18:40
                 679.0067749 6.291141987 726.6881128 40.20148087
14 11 2018 18:50
                  752.6450195 6.473023891 795.4792012 39.42279053
14 11 2018 19:00
                  761.3859253 6.479762077 798.0973023 42.54460144
14 11 2018 19:10
                  653.0831299 6.243625164 709.3073095 42.2826004
                  897.6591187 6.821288109 937.5275756 38.67391968
14 11 2018 19:20
14 11 2018 19:30
                  802.1533813 6.613586903 851.1430512 36.86634064
                  674.1668701 6.346457958 747.2286128 44.77069092
14 11 2018 19:40
                  820.5405884 6.76245594 912.5464911 45.06338882
14 11 2018 19:50
14 11 2018 20:00
                 794.5595703 6.731881142 899.7255267 46.62149048
14 11 2018 20:10
                 691,1948853 6,421124935 775,4817175 50,98884964
14 11 2018 20:20
                 847.6182861 6.864838123 956.2865499 51.22462082
14 11 2018 20:30 932.927124 7.021412849 1025.657265 50.84368134
14 11 2018 20:40
                 991.1298218 7.171436787 1095.06836 44.62591934
14 11 2018 20:50
                 938.8892822 7.129621983 1075.423328 49.25785065
14 11 2018 21:00
                  933.1870117 6.977207184 1005.761217 49.16912079
14 11 2018 21:10
                  801.1140137 6.70145607 887.0758598 47.75281906
                  807.6773071 6.789709091 924.0674683 50.89981842
14 11 2018 21:20
                  734.1536255 6.619741917 853.6312814 50.65446091
14 11 2018 21:30
14 11 2018 21:40
                  975.6210938 7.106291771 1064.563943 43.53842163
14 11 2018 21:50
                  1037.093018 7.238156796 1126.905447 41.7928009
14 11 2018 22:00
                  920.9796753 7.054132938 1040.544721 45.719841
14 11 2018 22:10
                  884.1660156 6.969354153 1002.252597 46.47822189
14 11 2018 22:20
                  791.4719849 6.635457993 860.0042354 38.34717178
14 11 2018 22:30
                  652.3624878 6.314693928 735.3932085 41.07965088
14 11 2018 22:40
                  510.0903015 5.928791046 601.2276304 44.82070923
14 11 2018 22:50
                 430.8895874 5.653594017 514.288499 51.27080917
14 11 2018 23:00 416.4769897 5.604102135 499.451276 53.7649498
14 11 2018 23:10 319.5692139 5.19310379 384.8942103 56.76551819
14 11 2018 23:20 358.9721069 5.452774048 455.5165485 66.48230743
```

```
14 11 2018 23:30 322.4424133 5.202736855 387.4116766 58.89693069
14 11 2018 23:40
                 240.1705933 4.754547119 277.9105425 43.06148911
14 11 2018 23:50
                 247.7012024 4.798355103 287.9635508 43.99720001
15 11 2018 00:00
                 189.1873016 4.540996075 230.7279718 39.35662842
                 271.9341125 4.980374813 331.1929387 35.41530991
15 11 2018 00:10
                  266.4761047 4.930391788 319.0814999 44.31169891
15 11 2018 00:20
15 11 2018 00:30
                  428.0730896 5.70169878 528.9373488 37.06357956
15 11 2018 00:40
                  366.6387939 5.501320839 469.3799431 44.37578964
                  330.9299011 5.228054047 394.0645388 46.85786057
15 11 2018 00:50
15 11 2018 01:00
                  476.4942017 5.687293053 524.5267839 49.27936935
15 11 2018 01:10
                  477.1644897 5.735221863 539.2802861 47.65742111
15 11 2018 01:20
                  430.8135071 5.692977905 526.2648662 52.80490112
15 11 2018 01:30
                 333.0292053 5.298964024 412.9841475 48.77854919
15 11 2018 01:40
                 355.5557861 5.361980915 430.1585198 61.19271851
15 11 2018 01:50 343.7099915 5.316034794 417.6026547 57.65452957
15 11 2018 02:00
                 176.4364014 4.531983852 228.8004644 46.5092392
15 11 2018 02:10
                 10.99442959 3.248380899 28.88363448 53.34640884
15 11 2018 02:20
                 110.0645981 4.265296936 173.9046255 71.40223694
                 187.2879944 4.802627087 288.9509803 72.65061951
15 11 2018 02:30
                 255.8334961 5.066915989 352.6103931 72.47968292
15 11 2018 02:40
15 11 2018 02:50
                 138.1929932 4.240217209 168.9435951 74.79853821
15 11 2018 03:00
                 2.701268911 2.531707048 0
                                                96.8850174
15 11 2018 03:10
                 110.427002 3.773224115 88.5732143 75.83651733
15 11 2018 03:20
                 74.02218628 3.844959021 100.1551484 69.02731323
15 11 2018 03:30
                  40.87361908 3.493038893 51.22423255 71.33084106
15 11 2018 03:40
                 14.65472984 3.136718035 21.87032279 77.0403595
15 11 2018 03:50
                 22.92260933 3.29548192 32.44018666 75.39070129
                 141.6300049 4.235029221 167.921432 70.26248932
15 11 2018 04:00
                 252.8580017 4.993360043 334.3700568 56.24908829
15 11 2018 04:10
                 199.0993042 4.668210983 258.4785244 49.84017181
15 11 2018 04:20
                 26.89654922 3.34228301 36.32566908 46.43476105
15 11 2018 04:30
15 11 2018 04:40
                 3.144126892 3.104562998 20.22068957 55.0435791
15 11 2018 04:50
                        2.594985008 0
                                          83.52374268
15 11 2018 05:00
                        2.59544301 0
                                          89.83010864
                 0
15 11 2018 05:10
                        3.034996986 17.21788669 95.23140717
                 0
15 11 2018 05:20
                 0
                        3.111354113 20.55531068 92.81139374
15 11 2018 05:30
                 0
                        2.721936941 0
                                          92.9329834
15 11 2018 05:40
                 0
                        2.730149031 0
                                          112.1374969
15 11 2018 05:50
                        3.106719017 20.32612443 109.7768021
15 11 2018 06:00
                        2.811695099 0
                                          113.8808975
15 11 2018 06:10
                        3.140882015 22.09604386 119.7477036
                 0
15 11 2018 06:20
                 0
                        2.7883389
                                   0
                                          121.4079971
15 11 2018 06:30
                        3.203562975 25.82904598 130.7805023
                  0
15 11 2018 06:40
                 7.318676949 3.466517925 48.33969158 137.6605072
15 11 2018 06:50
                        3.144423008 22.29017667 156.0848999
                 0
15 11 2018 07:00
                  0
                        3.027960062 16.95726319 146.2577057
15 11 2018 07:10
                 109.2916031 4.599999905 243.4716368 137.0133972
                  66.16100311 4.082159996 138.4057817 136.8983002
15 11 2018 07:20
15 11 2018 07:30
                  0.414201111 2.133964062 0
                                                156.7586975
15 11 2018 07:40
                 0
                        1.363613009 0
                                          189.5391998
15 11 2018 07:50
                  0
                        1.452934027 0
                                          197.8784027
15 11 2018 08:00
                        0.818999827 0
                                          15.93391037
                  0
15 11 2018 08:10
                        0.366717011 0
                                          250.740799
15 11 2018 08:20
                        0.564119816 0
                                          64.74086761
                 0
15 11 2018 08:30
                                          211.4593964
                 0
                        0.693224788 0
15 11 2018 08:40
                 0
                        0.877715409 0
                                          206.754303
15 11 2018 08:50
                 0
                       0.841866612 0
                                          209.6741028
15 11 2018 09:00 0
                        1.831948996 0
                                          211.1819
15 11 2018 09:10 0
                       2.543112993 0
                                          200.4091034
```

```
15 11 2018 09:20 3.767996073 3.49763298 51.73534202 197.4420013
                 2.57593298 3.719485998 80.43636006 198.4237976
15 11 2018 09:30
15 11 2018 09:40
                 57.97943115 3.86741209 103.9494856 191.7593994
15 11 2018 09:50
                 116.9816971 4.353547096 191.6272787 185.1779938
                 67.37664795 3.978291988 123.8697608 178.7714996
15 11 2018 10:00
15 11 2018 10:10
                  35.03145981 3.545346022 57.24325536 175.8838043
15 11 2018 10:20
                 6.368869781 3.028830051 16.98905539 176.889801
                       3.171705961 23.85322573 184.081604
15 11 2018 10:30
                 0
15 11 2018 10:40
                 0
                       2.584897995 0
                                         189.2386017
15 11 2018 10:50
                 0
                       2.616494894 0
                                         200.3889008
15 11 2018 11:00
                 0
                       1.996114969 0
                                         203.3968964
15 11 2018 11:10
                 0
                       1.98811698 0
                                         207.2066956
15 11 2018 11:20
                       1.608430028 0
                                         194.2940979
15 11 2018 11:30
                 0
                       0.942369699 0
                                         229.8612976
15 11 2018 11:40 0
                       1.649924994 0
                                         254.6298981
15 11 2018 11:50
                 0
                       2.0199821
                                  0
                                         283.6453857
15 11 2018 12:00 0
                       1.396126032 0
                                         283.8518982
15 11 2018 12:10 0
                       1.028329015 0
                                         259.7296143
15 11 2018 12:20 0
                       1.481076002 0
                                         333.6682129
15 11 2018 12:30 0
                       2.774866104 0
                                         325.5224915
15 11 2018 12:40
                       2.629121065 0
                 0
                                         351.4909973
15 11 2018 12:50
                       2.579348087 0
                 0
                                         342.513092
15 11 2018 13:00
                 0
                       3.115402937 20.75832101 344.9111938
15 11 2018 13:10
                 0
                       4.339932919 188.8656896 337.8337097
15 11 2018 13:20
                 265.9981079 4.919628143 316.4976054 359.6846008
15 11 2018 13:30
                 396.4804077 5.299868107 413.228121 4.316164017
15 11 2018 13:40 204.2498016 4.526844025 227.7033942 27.84544945
15 11 2018 13:50 100.1297989 4.022500992 127.1888684 22.08597946
15 11 2018 14:00 131.5863953 4.266394138 174.1224136 13.99295044
15 11 2018 14:10
                 113.9649963 3.953263044 119.201252 357.4475098
15 11 2018 14:20 387.0971985 5.123948097 367.0435001 358.2670898
15 11 2018 14:30 279.3456116 4.805613995 289.6421317 1.986477971
15 11 2018 14:40 553.90448
                             5.19627285 385.7215565 354.3540955
15 11 2018 14:50 885.0197144 6.487017155 800.9218546 357.5419006
15 11 2018 15:00 837.5784302 6.479259014 797.9016652 4.459900856
                 378.2442932 5.239253044 397.0244177 28.49629021
15 11 2018 15:10
                 643.5758057 6.05726099 643.4750772 31.44145012
15 11 2018 15:20
                 809.3195801 6.485873222 800.4761111 33.84934998
15 11 2018 15:30
15 11 2018 15:40
                 755.12677
                             6.35180378 749.2312385 42.79404068
15 11 2018 15:50 440.8326111 5.508024216 471.3111732 37.95354843
15 11 2018 16:00 678.5159912 6.095658779 656.7351392 26.00317955
15 11 2018 16:10 1234.531982 7.262842178 1138.840463 25.03272057
15 11 2018 16:20
                 1040.182007 6.865678787 956.6509193 23.11417961
15 11 2018 16:30
                 2351.600098 9.392631531 2399.54321 20.79150009
                 2164.021973 8.909275055 2085.676589 20.68221092
15 11 2018 16:40
15 11 2018 16:50
                 3226.26709 11.07384014 3297.894321 18.7459507
                 2379.306885 9.208255768 2279.016559 20.54700089
15 11 2018 17:00
                 2975.751953 10.62001991 3121.110722 15.09552956
15 11 2018 17:10
15 11 2018 17:20
                 2941.009033 10.10647011 2856.545023 8.611757278
15 11 2018 17:30
                 3467.579102 11.8982296 3505.230279 13.64118958
15 11 2018 17:40
                 3454.053955 11.14638996 3321.715596 9.504639626
15 11 2018 17:50
                 2449.197021 9.44335556 2432.807259 20.18391991
15 11 2018 18:00
                 3022.133057 10.13829041 2875.132614 21.05590057
15 11 2018 18:10
                 2175.909912 9.021125793 2157.618718 26.40519905
15 11 2018 18:20
                 2498.198975 9.610630989 2525.241197 21.2798996
15 11 2018 18:30 2366.897949 9.155880928 2244.926985 18.26839066
15 11 2018 18:40 3296.5271
                             11.2593298 3356.52014 10.31486988
15 11 2018 18:50 3523.677002 12.0230999 3525.496442 17.01227951
15 11 2018 19:00 2844.329102 10.22200966 2922.593104 15.32935047
```

```
15 11 2018 19:10 2328.870117 9.413579941 2413.276697 8.568129539
                 2244.059082 9.434209824 2426.80717 12.95252037
15 11 2018 19:20
15 11 2018 19:30
                 1832.462036 8.331133842 1724.938414 13.59815025
15 11 2018 19:40
                 2023.029053 8.788545609 2008.669492 4.030920029
15 11 2018 19:50
                 2221.525879 9.144236565 2237.358805 4.694692135
15 11 2018 20:00
                 2607.485107 9.802797318 2663.263288 358.2619019
                 2738.676025 10.25712967 2941.889652 11.39488029
15 11 2018 20:10
                 2303.904053 8.658333778 1926.492021 10.90941048
15 11 2018 20:20
                 2555.193115 9.18842411 2266.099486 6.62143898
15 11 2018 20:30
15 11 2018 20:40
                 2519.990967 9.850487709 2695.579999 13.57769012
15 11 2018 20:50
                 1352.546997 7.413834095 1213.73529 10.65275002
15 11 2018 21:00 2356.564941 9.235563278 2296.81999 11.84193039
15 11 2018 21:10 2566.854004 9.48641777 2461.070615 0.327061504
15 11 2018 21:20 2258.212891 9.285909653 2329.691626 356.5042114
15 11 2018 21:30 1900.078979 8.457146645 1801.634567 0.704953074
15 11 2018 21:40 1961.639038 8.900291443 2079.922023 5.956552029
15 11 2018 21:50 2715.460938 10.30815029 2969.28871 8.127449036
15 11 2018 22:00 2964.302979 10.63976002 3129.850764 14.22799969
15 11 2018 22:10 3185.112061 10.92866993 3246.671929 11.30305004
15 11 2018 22:20 2912.032959 10.67039967 3143.219323 12.54592037
15 11 2018 22:30 3140.906006 10.94423008 3252.393965 10.01410007
15 11 2018 22:40 2499.727051 9.605250359 2521.192016 16.0514698
                 2399.85791 9.178277016 2259.494537 13.51628971
15 11 2018 22:50
15 11 2018 23:00
                 2302.531006 8.760490417 1990.882137 12.14358997
15 11 2018 23:10 2241.053955 8.994679451 2140.561513 14.11769009
15 11 2018 23:20
                 2060.658936 8.80561161 2019.510261 16.02440071
15 11 2018 23:30 1544.490967 8.193622589 1642.748705 22.87446976
15 11 2018 23:40 1129.954956 7.302528858 1158.207871 25.14071083
15 11 2018 23:50 1346.480957 7.69651413 1361.289998 21.34778976
16 11 2018 00:00
                 1817.696045 8.628480911 1907.794397 13.55782032
16 11 2018 00:10 2499.784912 9.580752373 2502.626063 5.022819996
16 11 2018 00:20 2826.525879 10.00096989 2792.704901 5.024127007
16 11 2018 00:30 2671.076904 9.799096107 2660.723642 20.17148972
16 11 2018 00:40 1454.129028 7.779602051 1406.423692 26.56867027
                 3083.077881 11.03040028 3283.070097 8.667308807
16 11 2018 00:50
                 3578.954102 12.77433014 3593.979819 6.643783092
16 11 2018 01:00
16 11 2018 01:10
                 3590.718018 13.55344963 3600 4.749615192
                 3495.691895 12.13953972 3542.000781 10.17047977
16 11 2018 01:20
16 11 2018 01:30 3346.443115 11.7263298 3472.82762 20.06016922
16 11 2018 01:40 3535.666992 12.06760025 3532.072843 15.50706959
16 11 2018 01:50 2949.059082 9.653881073 2557.418072 6.5026021
16 11 2018 02:00 3462.821045 12.00051022 3522.029316 358.2056885
16 11 2018 02:10 2228.74292 8.652044296 1922.548114 353.6473083
16 11 2018 02:20 3449.922119 12.51204014 3580.020948 13.48746014
16 11 2018 02:30 3506.49292 13.08831024 3600 17.37405968
16 11 2018 02:40 3589.225098 13.60741043 3600 17.09428978
16 11 2018 02:50
                 3594.061035 12.76963043 3593.819263 11.63271999
                 3503.430908 12.61765957 3586.87657 11.08086014
16 11 2018 03:00
                 2982.707031 10.83847046 3212.378983 359.1763916
16 11 2018 03:10
16 11 2018 03:20
                 2857.783936 10.35383034 2993.191357 352.7130127
16 11 2018 03:30
                 3162.86792 10.96319008 3259.290177 5.375216961
16 11 2018 03:40
                 3259.334961 11.10993004 3309.889525 7.991939068
16 11 2018 03:50
                 3223.728027 11.37465
                                         3389.281305 20.92637062
16 11 2018 04:00 2197.542969 9.374662399 2387.768075 20.4347496
16 11 2018 04:10
                 1825.779053 8.166828156 1626.930276 11.29944992
16 11 2018 04:20 2739.093994 10.59652996 3110.579592 352.7041016
16 11 2018 04:30 3296.559082 11.46947002 3414.183622 354.9566956
16 11 2018 04:40 3121.462891 11.01299
                                       3277.009098 1.868203044
16 11 2018 04:50 2439.079102 9.515798569 2452.357975 4.639973164
```

```
16 11 2018 05:00
                 2254.00708 9.160123825 2247.685646 0.08636681
                 2613.36499 9.813204765 2670.380059 1.516592979
16 11 2018 05:10
16 11 2018 05:20
                 1929.583008 8.330202103 1724.376061 356.515686
16 11 2018 05:30
                 3302.719971 11.19561958 3337.223536 353.1330872
16 11 2018 05:40
                 2790.099121 9.949216843 2760.120059 351.9187012
16 11 2018 05:50
                 2808.690918 10.52754021 3078.818002 358.9065857
                 2556.569092 9.461782455 2444.899185 0.329345405
16 11 2018 06:00
                 2086.930908 8.601190567 1890.751435 2.546027899
16 11 2018 06:10
16 11 2018 06:20
                 2267.710938 8.983674049 2133.471561 1.100605965
16 11 2018 06:30
                 3212.187988 11.03312969 3284.01405 350.7246094
16 11 2018 06:40
                 3172.224121 11.21459007 3343.05987 354.8388977
16 11 2018 06:50 2218.677002 8.721703529 1966.362769 0.952104628
16 11 2018 07:00
                 2747.258057 10.26210022 2944.591814 3.23664999
16 11 2018 07:10
                 2841.500977 10.43733978 3035.382862 6.106894016
16 11 2018 07:20 3347.387939 11.4712801 3414.641506 11.7242403
16 11 2018 07:30
                 3508.315918 11.87119961 3500.485537 15.3735199
16 11 2018 07:40
                 3465.462891 12.05023003 3529.545687 11.68173027
16 11 2018 07:50
                 3253.447998 11.7196703 3471.464463 8.307907104
16 11 2018 08:00 3016.516113 10.5244503 3077.366137 8.101074219
16 11 2018 08:10 2220.854004 8.750529289 1984.577056 7.029662132
16 11 2018 08:20 2737.903076 10.00973988 2798.143128 8.583632469
16 11 2018 08:30 3121.532959 10.81357002 3202.569952 3.003916979
                 2487.826904 9.87041378 2708.860628 3.058576107
16 11 2018 08:40
16 11 2018 08:50
                 1872.76001 8.429607391 1784.767346 356.7753906
                 2887.520996 10.85219955 3217.723469 18.51055908
16 11 2018 09:00
16 11 2018 09:10 2258.085938 9.422990799 2419.448294 5.246604919
16 11 2018 09:20 2042.203003 8.799488068 2015.618654 7.12557888
                 1796.337036 8.553953171 1861.367527 358.1375122
16 11 2018 09:30
                 2116.987061 9.02286911 2158.744075 358.0192871
16 11 2018 09:40
                 2574.184082 9.897508621 2726.711363 11.65380955
16 11 2018 09:50
16 11 2018 10:00
                 1989.374023 8.791866302 2010.777672 7.984844208
16 11 2018 10:10
                 1773.113037 8.553053856 1860.809572 12.41339016
16 11 2018 10:20
                 1744.803955 8.299958229 1706.1617
                                                     8.456985474
16 11 2018 10:30
                 2142.758057 8.979640007 2130.873971 348.9490051
                 2854.350098 10.08924961 2846.357997 348.9625854
16 11 2018 10:40
16 11 2018 10:50
                 2881.826904 10.20948982 2915.627187 347.7327881
                 2992.718018 10.88245964 3229.344146 351.34021
16 11 2018 11:00
16 11 2018 11:10
                 1965.005981 8.554641724 1861.794757 355.306488
16 11 2018 11:20 2484.208008 9.574575424 2497.911034 357.7215881
16 11 2018 11:30 2446.081055 9.464584351 2446.738139 1.07564795
16 11 2018 11:40 2609.675049 9.969150543 2772.771016 352.1347961
16 11 2018 11:50 2476.187988 9.831796646 2683.003933 1.507812977
16 11 2018 12:00
                 1946.043945 8.427775383 1783.647323 0.634519577
16 11 2018 12:10
                 2637.430908 9.656611443 2559.427371 13.25586987
16 11 2018 12:20
                 2858.261963 10.42465973 3029.100333 15.24489021
16 11 2018 12:30
                 2435.879883 9.864211082 2704.740495 11.39181995
                 2834.076904 10.41092968 3022.247878 5.251431942
16 11 2018 12:40
                 3048.888916 10.61824036 3120.317891 8.555621147
16 11 2018 12:50
16 11 2018 13:00
                 3391.315918 11.18612003 3334.271904 13.91267014
16 11 2018 13:10
                 3404.324951 11.35595036 3384.155559 10.35737038
16 11 2018 13:20
                 3039.709961 10.62691021 3124.17281 10.32285976
16 11 2018 13:30
                 2617.24292 9.879389763 2714.800674 12.21315002
16 11 2018 13:40
                 3190.062988 10.67105961 3143.50464 5.513338089
16 11 2018 13:50
                 3272.566895 11.25977993 3356.65341 9.889744759
16 11 2018 14:00
                 3502.386963 11.80980968 3489.227392 10.96765041
16 11 2018 14:10
                 3018.148926 10.42391014 3028.72756 7.179225922
16 11 2018 14:20
                 3162.542969 11.07096958 3296.927786 9.753735542
16 11 2018 14:30 3561.138916 12.33932972 3565.126388 8.330931664
16 11 2018 14:40 3564.975098 11.9623003 3515.965634 8.362830162
```

```
16 11 2018 14:50 3473.443115 12.21947002 3552.028048 8.493286133
                 3191.033936 10.70880985 3159.642425 10.21432018
16 11 2018 15:00
                 2790.708008 10.39902973 3016.266835 10.57524014
16 11 2018 15:10
16 11 2018 15:20
                 2819.669922 10.10943031 2858.287106 11.08154964
                 2748.333984 9.988703728 2785.058269 10.13391972
16 11 2018 15:30
                 2922.980957 10.53302002 3081.386595 9.215001106
16 11 2018 15:40
16 11 2018 15:50
                 2812.643066 10.30513
                                         2967.687488 10.66952038
16 11 2018 16:00
                 2518.395996 9.334442139 2361.431129 10.42109966
16 11 2018 16:10
                 2356.978027 9.374430656 2387.616248 12.87401009
16 11 2018 16:20
                 1943.447998 8.594670296 1886.686666 9.031477928
16 11 2018 16:30
                 2036.416992 8.372983932 1750.270431 11.94952011
16 11 2018 16:40
                 1802.154053 8.145866394 1614.601887 11.27003002
16 11 2018 16:50
                 2396.051025 9.652580261 2556.459879 15.44569969
16 11 2018 17:00 2290.646973 9.208636284 2279.264507 16.64308929
16 11 2018 17:10 2141.908936 8.763368607 1992.704966 19.10573959
16 11 2018 17:20 2070.047119 8.292746544 1701.829852 13.69972992
16 11 2018 17:30
                 1607.671021 7.733967781 1381.531694 13.13152981
16 11 2018 17:40
                 1622.385986 8.039705276 1552.815643 24.00226974
16 11 2018 17:50
                 1432.014038 7.606265068 1313.232924 27.85046005
                 1495.750977 7.736093998 1382.685925 22.57410049
16 11 2018 18:00
                 1631.357056 8.059067726 1564.001667 19.46217918
16 11 2018 18:10
                 1621.458984 7.695644855 1360.822244 18.65661049
16 11 2018 18:20
16 11 2018 18:30
                 943.5767822 6.631585121 858.4311511 20.19339943
16 11 2018 18:40
                 1167.21106 7.123201847 1072.427784 24.94138908
16 11 2018 18:50
                 1235.526001 7.421278
                                         1217.51391 30.02177048
16 11 2018 19:00
                 1295.517944 7.696302891 1361.176322 34.19342041
16 11 2018 19:10
                 1422.959961 7.741512775 1385.630014 36.73685074
                 1275.339966 7.459887981 1237.246604 34.7262001
16 11 2018 19:20
16 11 2018 19:30
                 1167.47998 7.466440201 1240.617729 37.3157196
                 861.9060059 6.657573223 869.0198582 30.68107986
16 11 2018 19:40
16 11 2018 19:50
                 461.3158875 5.611549854 501.6690145 41.54410934
16 11 2018 20:00
                 1018.812988 6.78152895 920.6001637 34.77566147
16 11 2018 20:10
                 750,5062866 6,261929035 715,9737613 34,75093079
16 11 2018 20:20
                 562.0753174 5.816386223 564.7876768 38.81568909
16 11 2018 20:30 590.7459106 6.037574768 636.7378433 43.75931168
                 619.6052856 5.952885151 609.210882 39.32493973
16 11 2018 20:40
                 531.4135742 5.80236721 560.3343558 42.47951889
16 11 2018 20:50
16 11 2018 21:00
                 890.4675903 6.722446918 895.7915733 38.8355484
16 11 2018 21:10
                 758.3828125 6.464892864 792.3265942 44.53339005
                 657.8164063 6.23981905 707.9256077 50.29589844
16 11 2018 21:20
16 11 2018 21:30
                 903.9100952 6.76845789 915.0762082 44.93119049
16 11 2018 21:40 843.8676147 6.518995762 813.4413665 40.88565826
16 11 2018 21:50
                 695.9685059 6.279112816 722.2650725 44.4790802
16 11 2018 22:00
                 784.7843018 6.450554848 786.7851448 42.88562012
16 11 2018 22:10
                 581.5571289 6.087279797 653.8281554 44.53874969
16 11 2018 22:20
                 575.0402222 5.923499107 599.4824551 54.44718933
16 11 2018 22:30
                 975.5977173 6.928162098 983.9750663 55.07069016
                 1186.764038 7.417725086 1215.709373 47.09801865
16 11 2018 22:40
16 11 2018 22:50
                 914.364624 6.705829144 888.8874009 44.37773895
16 11 2018 23:00
                 1065.641968 7.072415829 1048.923587 53.69210052
16 11 2018 23:10
                 863.9396973 6.748794079 906.8040806 51.27737045
16 11 2018 23:20
                 1183.238037 7.325403214 1169.472473 54.90929031
16 11 2018 23:30
                 1240.730957 7.464808941 1239.777831 53.45941162
16 11 2018 23:40
                 1278.671997 7.243612766 1129.536015 48.01198959
16 11 2018 23:50 813.4193115 6.550104141 825.7294896 51.42242813
17 11 2018 00:00 1073.182007 6.934099197 986.5964047 51.86539078
17 11 2018 00:10
                 1942.868042 8.627491951 1907.175949 55.8597908
17 11 2018 00:20 2109.783936 9.03985405 2169.714377 57.21567154
17 11 2018 00:30 2010.838989 9.011036873 2151.108372 56.49328995
```

```
17 11 2018 00:40 1708.572998 8.331769943 1725.322374 56.53615952
                 1794.307983 8.504101753 1830.523595 51.86368942
17 11 2018 00:50
  11 2018 01:00
                 1215.271973 7.246122837 1130.747623 51.45872879
17 11 2018 01:10 1119.975952 7.373941898 1193.625847 52.31644821
17 11 2018 01:20 843.4528809 6.473513126 795.669123 48.20619965
17 11 2018 01:30 1170.206055 7.233825207 1124.819937 54.89360809
17 11 2018 01:40 1566.185059 8.005531311 1533.165851 53.17174149
                 1227.119019 7.308260918 1161.023626 51.52685165
17 11 2018 01:50
17 11 2018 02:00 1702.875977 8.354199409 1738.882449 55.01044083
17 11 2018 02:10
                 1782.258057 8.508126259 1833.007117 56.5471611
17 11 2018 02:20
                 2180.5271
                             9.28608036 2329.803181 56.56801987
17 11 2018 02:30 1924.952026 8.794539452 2012.475178 56.24721146
17 11 2018 02:40 2316.681885 9.377690315 2389.75191 53.92404938
17 11 2018 02:50 2160.095947 9.173448563 2256.352628 54.22431946
17 11 2018 03:00 2135.947021 9.296134949 2336.374808 56.90258026
17 11 2018 03:10 2094.070068 9.243508339 2302.003408 60.00876999
17 11 2018 03:20 2169.112061 9.217176437 2284.830363 58.10820007
17 11 2018 03:30 2467.092041 9.674547195 2572.56184 55.69565964
17 11 2018 03:40 2328.936035 9.53715992 2469.057878 56.10657883
17 11 2018 03:50 2021.307007 9.038791656 2169.027874 56.57944107
17 11 2018 04:00 2779.406006 10.5648098 3096.131246 62.11418915
17 11 2018 04:10 2791.096924 10.5149498 3072.886213 63.98332977
17 11 2018 04:20 2822.166992 10.36186981 2997.337349 63.88119888
17 11 2018 04:30 2866.343994 10.49882984 3065.229885 65.58014679
17 11 2018 04:40 2960.72998 10.89992046 3235.95066 66.92926025
17 11 2018 04:50 2659.669922 10.26741028 2947.470668 67.09082794
17 11 2018 05:00 2817.263916 10.55803967 3093.01343 67.43393707
17 11 2018 05:10 3197.363037 11.38253975 3391.422557 67.07778168
17 11 2018 05:20 3085.329102 11.12868023 3316.007766 67.78457642
17 11 2018 05:30 2715.677002 10.27433014 2951.210091 66.80407715
17 11 2018 05:40 2804.641113 10.45298004 3043.071644 66.78394318
17 11 2018 05:50 2606.284912 10.19913006 2909.828349 66.90297699
17 11 2018 06:00 2130.937012 9.265561104 2316.398777 65.20330811
17 11 2018 06:10 2210.73999 9.422369003 2419.040487 65.08696747
17 11 2018 06:20 1983.067017 8.853925705 2050.282408 64.14318848
17 11 2018 06:30 1985.484985 8.882631302 2068.620554 69.48253632
                 1898.18396 8.854272842 2050.503931 68.0532608
17 11 2018 06:40
17 11 2018 06:50 2343.228027 9.700157166 2591.122797 68.2392807
17 11 2018 07:00 2309.416992 9.524813652 2459.426023 67.52780151
17 11 2018 07:10 2492.096924 9.891976357 2723.08595 67.20319366
17 11 2018 07:20 2702.62207 10.14198017 2877.268245 65.90734863
17 11 2018 07:30 2506.930908 9.851452827 2696.226245 66.90077209
17 11 2018 07:40 2474.162109 9.804754257 2664.604227 69.00858307
17 11 2018 07:50 2513.98291 9.842995644 2690.552871 69.59378815
17 11 2018 08:00 2087.302002 9.183698654 2263.023229 70.89943695
17 11 2018 08:10 2139.020996 9.204874992 2276.813783 69.92769623
17 11 2018 08:20 1829.359009 8.611794472 1897.367903 68.81355286
17 11 2018 08:30 1457.863037 7.951571941 1502.387045 65.71913147
17 11 2018 08:40 1557.427002 8.110357285 1593.812888 65.9148407
17 11 2018 08:50
                 1549.008057 8.090376854 1582.168791 67.6151886
17 11 2018 09:00
                 1295.723999 7.709873199 1368.490171 71.36192322
17 11 2018 09:10
                 1010.633972 7.018633842 1024.399167 70.63654327
17 11 2018 09:20
                 939.1154785 6.837462902 944.4680904 70.83986664
17 11 2018 09:30
                 1316.243042 7.558300018 1288.117098 70.80763245
17 11 2018 09:40
                 1512.937988 8.044704437 1555.700121 71.91217804
17 11 2018 09:50 932.3380127 6.816998959 935.6923933 75.10527802
17 11 2018 10:00 761.760376 6.329978943 741.0748265 76.09654236
17 11 2018 10:10 1020.203003 7.011124134 1021.004344 73.59243774
17 11 2018 10:20 1174.728027 7.514616966 1265.508029 73.36753082
```

```
17 11 2018 10:30 1133.467041 7.503740788 1259.918703 73.04852295
                 793.9744873 6.421534061 775.6382031 74.83994293
17 11 2018 10:40
                 649.5006714 5.976737022 617.1747657 73.96071625
  11 2018 10:50
17 11 2018 11:00
                 730.2363281 6.34187603 745.5146209 72.728508
17 11 2018 11:10
                 707.4619751 6.18615818 688.6110069 72.95249939
17 11 2018 11:20
                 800.1785278 6.7214818
                                         895.3897168 73.43157959
                 966.9827271 7.009714127 1020.367741 74.05999756
17 11 2018 11:30
                 819.3961792 6.586595058 840.2820431 76.2545166
17 11 2018 11:40
                 781.6119995 6.67776823 877.3016892 73.06580353
17 11 2018 11:50
17 11 2018 12:00
                 884.4675903 6.859138012 953.8182118 72.45938873
17 11 2018 12:10
                 1029.890991 7.330042839 1171.766441 71.49485779
17 11 2018 12:20
                 1095.394043 7.295170784 1154.600232 70.49931335
17 11 2018 12:30 926.3516846 6.922823906 981.6218875 72.04929352
17 11 2018 12:40
                 1007.666992 7.09351778 1058.648572 70.32080078
17 11 2018 12:50
                 1293.100952 7.661602974 1342.57822 68.8021698
17 11 2018 13:00
                 1298.178955 7.664173126 1343.950588 68.43644714
17 11 2018 13:10
                 1301.796021 7.676064014 1350.310664 66.74963379
17 11 2018 13:20
                 1370.550049 7.859761238 1450.739648 68.75055695
17 11 2018 13:30 1074.29895 7.145343781 1082.78209 66.31626892
17 11 2018 13:40 894.531311 6.786201954 922.5799307 69.44116974
17 11 2018 13:50
                 933.0396729 6.870611191 958.7905042 68.26151276
17 11 2018 14:00
                 669.5778198 6.303358078 731.1958573 66.07523346
17 11 2018 14:10
                 796.7122192 6.654428959 867.7346337 66.03922272
17 11 2018 14:20
                 1105.07605 7.283380985 1148.835761 63.89990997
17 11 2018 14:30
                 902.2789917 6.837512016 944.489213 69.76161957
17 11 2018 14:40 1349.604004 7.710579872 1368.871659 67.97403717
17 11 2018 14:50 1380.682983 7.83280611 1435.754874 70.38733673
17 11 2018 15:00 1803.583984 8.69472599 1949.359814 72.17645264
17 11 2018 15:10 2024.541016 9.304389954 2341.77183 74.83432007
17 11 2018 15:20
                 2030.515991 9.297386169 2337.19275 76.14613342
17 11 2018 15:30
                 1594.952026 8.380866051 1755.057355 75.98155975
17 11 2018 15:40
                 1430.927979 8.096887589 1585.958803 73.13327789
17 11 2018 15:50
                 1258.494995 7.611128807 1315.796429 74.22575378
17 11 2018 16:00 1119.957031 7.100430012 1061.846817 73.07363892
17 11 2018 16:10 1288.426025 7.729485989 1379.100517 72.29521942
                 1131.840942 7.496035099 1255.926315 75.23091125
17 11 2018 16:20
17 11 2018 16:30 892.0808716 6.702245235 887.4026066 75.65305328
17 11 2018 16:40 547.3773804 5.142741203 371.8561549 80.46457672
17 11 2018 16:50 1263.925049 7.390607834 1201.998413 76.38568878
17 11 2018 17:00 2230.784912 9.65328598 2556.979793 75.63876343
17 11 2018 17:10 2715.25
                             10.64251995 3131.064779 74.79105377
17 11 2018 17:20 2383.27002 10.08102989 2841.463671 75.57171631
17 11 2018 17:30 2199.263916 8.912418365 2087.690952 81.46498871
                 2294.190918 8.990182877 2137.664113 80.41345978
17 11 2018 17:40
17 11 2018 17:50
                 2633.298096 9.773918152 2643.325718 81.48618317
                 2128.873047 8.833375931 2037.179376 80.95324707
17 11 2018 18:00
                 1873.56897 7.747862816 1389.084573 85.13208008
17 11 2018 18:10
                 2201.660889 8.817097664 2026.81512 80.54068756
17 11 2018 18:20
17 11 2018 18:30 2302.149902 8.915589333 2089.723494 82.39302063
17 11 2018 18:40
                 1788.912964 7.987977982 1523.119703 84.14935303
17 11 2018 18:50
                 1598.338989 7.564499855 1291.346529 83.40834045
17 11 2018 19:00
                 1734.332031 7.772539139 1402.554865 84.70821381
17 11 2018 19:10
                 1003.252991 6.20006609 693.5873572 84.47281647
17 11 2018 19:20
                 1149.639038 6.489459991 801.8742131 87.72572327
17 11 2018 19:30
                 1108.04895 6.73644495 901.6323113 83.7661438
17 11 2018 19:40 965.9556274 6.501967907 806.760885 81.78865814
17 11 2018 19:50 995.7905884 6.558012962 828.8708178 80.8983078
17 11 2018 20:00 1198.839966 6.774633884 917.6837238 83.15408325
17 11 2018 20:10 1318.030029 7.095918179 1059.758509 84.35388947
```

```
17 11 2018 20:20 1050.786011 6.304843903 731.7452264 88.88636017
                 1008.937012 6.342002869 745.5620376 91.06437683
17 11 2018 20:30
  11 2018 20:40
                 979.3654175 6.492878914 803.2082164 87.53265381
17 11 2018 20:50 910.1115723 6.044182777 638.9946906 90.75997162
17 11 2018 21:00 527.6303101 5.11027813 363.560566 95.1312027
                 934.9472046 6.381536007 760.4260512 82.87978363
17 11 2018 21:10
17 11 2018 21:20
                 729.0817261 5.545833111 482.2817572 86.40585327
                 610.6337891 5.428750992 448.7354469 100.0218964
17 11 2018 21:30
17 11 2018 21:40
                 1070.896973 6.557491779 828.6635916 101.8460007
17 11 2018 21:50
                 1167.343018 6.712741852 891.7555142 97.94078064
17 11 2018 22:00
                 1357.718994 7.564340115 1291.263258 105.7077026
17 11 2018 22:10
                 1182.026001 7.178671837 1098.491355 107.0029984
17 11 2018 22:20 689.4072266 6.146909237 674.6791261 107.7966995
17 11 2018 22:30 601.8701782 5.850903988 575.8384266 111.4638977
17 11 2018 22:40 553.8184204 5.902802944 592.6856179 110.151001
17 11 2018 22:50 949.8997192 7.077702999 1051.354751 112.0930023
17 11 2018 23:00 818.2733154 6.243099213 709.1162851 108.3684006
17 11 2018 23:10 242.1309967 4.089003086 139.7028815 106.8352966
17 11 2018 23:20 269.5578003 4.271140099 175.0651873 102.6669998
17 11 2018 23:30 469.3174133 5.023440838 341.7791847 98.33940125
17 11 2018 23:40 297.8623047 4.282018185 177.2305751 98.37516785
17 11 2018 23:50
                 198.7288971 3.948518991 118.3276699 104.6694031
                 123.278801 3.903275967 110.1774287 112.2217026
18 11 2018 00:00
18 11 2018 00:10
                 198.0559998 3.840981007 99.49131649 99.91996765
18 11 2018 00:20 318.2785034 4.261788845 173.2087141 80.79115295
18 11 2018 00:30 441.7926941 4.944139957 322.394288 76.56517792
18 11 2018 00:40 1163.802002 7.500264168 1258.135433 76.04955292
18 11 2018 00:50 1694.036011 9.191841125 2268.324341 75.59729004
18 11 2018 01:00 1362.597046 7.645812988 1334.165196 75.8286972
                 1158.475952 7.118411064 1070.19604 76.40792084
18 11 2018 01:10
18 11 2018 01:20 593.8850708 5.594565868 496.6193409 85.3704834
18 11 2018 01:30 715.9146729 5.838147163 571.7401122 78.3753891
18 11 2018 01:40 444.4968872 4.729312897 272.1793567 82.23970032
18 11 2018 01:50 421.4104919 4.790836811 286.2288485 83.1518631
                 357.5103149 4.583630085 239.9143045 83.8004837
18 11 2018 02:00
18 11 2018 02:10
                 785.4671021 6.492155075 802.9256791 74.65886688
18 11 2018 02:20
                 1211.119019 7.537347794 1277.241015 70.81815338
18 11 2018 02:30
                 1274.942017 7.595497131 1307.56841 71.9464035
18 11 2018 02:40 1015.734985 6.674099922 875.793853 77.64624786
18 11 2018 02:50
                 1203.31897 7.129724979 1075.471429 77.46556091
18 11 2018 03:00 786.1414185 5.599788189 498.1691139 82.3651123
18 11 2018 03:10 909.7824707 6.034033775 635.5304012 81.06414795
18 11 2018 03:20 1074.555054 6.623969078 855.3426521 80.15297699
18 11 2018 03:30
                 1447.77002 7.896495819 1471.292889 77.30586243
18 11 2018 03:40
                 1258.623047 7.375060081 1194.186316 80.26473236
18 11 2018 03:50 1025.217041 6.283905983 724.0256163 81.45332336
18 11 2018 04:00
                 1245.657959 6.854332924 951.7405099 80.95974731
                 1378.077026 7.425111771 1219.463217 80.78811646
18 11 2018 04:10
18 11 2018 04:20 1712.803955 8.447994232 1796.02255 77.32051849
18 11 2018 04:30
                 2249.993896 9.933592796 2750.115788 75.91256714
18 11 2018 04:40
                 2060.076904 9.46310997 2445.770456 75.46102142
18 11 2018 04:50
                 1624.234009 8.61550045 1899.682028 75.76455688
18 11 2018 05:00
                 1734.271973 8.620134354 1902.576826 74.85413361
18 11 2018 05:10 2302.881104 9.836006165 2685.846308 74.3940506
18 11 2018 05:20 2189.86792 9.769684792 2640.379568 76.81009674
18 11 2018 05:30 1992.36499 9.559741974 2486.532429 75.87644958
18 11 2018 05:40 2445.312988 10.58121967 3103.638605 76.44172668
18 11 2018 05:50 1979.142944 9.449382782 2436.761971 74.68200684
18 11 2018 06:00 1762.136963 8.823696136 2031.014685 76.09928131
```

```
18 11 2018 06:10 2091.945068 9.581085205 2502.879736 76.97155762
                 2171.230957 9.823852539 2677.623906 78.04521179
18 11 2018 06:20
18 11 2018 06:30
                 2101.254883 9.305977821 2342.81012 79.68641663
18 11 2018 06:40 2191.719971 9.511849403 2449.252405 79.65738678
18 11 2018 06:50
                 2363.783936 9.632212639 2541.379584 79.11221313
18 11 2018 07:00
                 1761.491943 7.670651913 1347.413701 80.70442963
18 11 2018 07:10
                 1615.784058 7.205539227 1111.264958 83.40783691
                 1299.738037 6.634444237 859.5923023 83.32750702
18 11 2018 07:20
18 11 2018 07:30
                 1108.759033 6.529873848 817.7260305 84.65461731
18 11 2018 07:40
                 1714.953979 8.038939476 1552.374006 80.72757721
18 11 2018 07:50
                 2056.349121 9.483781815 2459.340013 77.92588806
18 11 2018 08:00 1291.520996 7.368144035 1190.722714 79.95514679
18 11 2018 08:10 855.5714722 5.614719868 502.6145702 84.48748016
18 11 2018 08:20 878.4550781 5.791273117 556.8243418 88.03175354
18 11 2018 08:30 1093.599976 6.134290218 670.2348601 87.50002289
18 11 2018 08:40 904.8380127 5.872320175 582.7564956 91.08669281
18 11 2018 08:50 457.4146118 4.693405151 264.0978005 91.29503632
18 11 2018 09:00 260.9317932 4.179426193 157.0524153 101.2941971
18 11 2018 09:10 448.7969055 5.12612915 367.6005849 97.04163361
18 11 2018 09:20 481.7103882 5.015819073 339.8953515 97.38320923
18 11 2018 09:30
                 364.8410034 4.573896885 237.8071498 90.23947906
                 381.5682068 4.680453777 261.2039267 83.35012817
18 11 2018 09:40
18 11 2018 09:50
                 220.5240936 3.888312101 107.5538584 93.57958984
18 11 2018 10:00
                 189.6956024 3.902833939 110.0994157 98.82676697
18 11 2018 10:10 235.5928955 3.882359028 106.5200852 90.7869873
18 11 2018 10:20 316.9130859 4.479358196 217.6432636 88.2425766
18 11 2018 10:30 324.3529053 4.293588161 179.5405774 91.91396332
18 11 2018 10:40 262.1877136 4.193270206 159.7439852 85.14334869
18 11 2018 10:50 230.7696075 4.235984802 168.1096011 82.44764709
18 11 2018 11:00 689.355896 6.158707142 678.8496077 78.04016113
                 1117.671997 7.453989983 1234.21767 75.1548233
18 11 2018 11:10
18 11 2018 11:20
                 1212.728027 7.765201092 1398.541592 74.13471222
18 11 2018 11:30
                 733.4119263 5.970924854 615.2285387 80.5552597
18 11 2018 11:40 292.6478882 4.243319988 169.5555846 87.53205872
18 11 2018 11:50 609.180603 5.552062035 484.1019078 78.39710236
                 380.0452881 4.620687008 247.9914025 79.94394684
18 11 2018 12:00
                 320.5057983 4.229019165 166.7390346 82.64547729
18 11 2018 12:10
18 11 2018 12:20 212.1605072 3.949961901 118.5929898 90.50418091
18 11 2018 12:30 88.23420715 3.476788998 49.44346779 103.8637009
18 11 2018 12:40 299.7961121 5.019807816 340.8806737 118.9634018
18 11 2018 12:50 267.9682007 4.92482996 317.7452762 118.5970993
18 11 2018 13:00 344.1848145 5.084617138 357.0625409 123.2820969
18 11 2018 13:10 375.7286987 5.30429697 414.4242938 131.206604
18 11 2018 13:20 517.8762817 5.85492897 577.1349937 128.3278046
18 11 2018 13:30 400.3113098 5.576313972 491.2232458 126.2838974
                 314.4372864 5.084087849 356.9290587 132.6791992
18 11 2018 13:40
                 535.3671875 5.847466946 574.7325764 139.5180969
18 11 2018 13:50
                 820.6002808 6.678404808 877.5635086 144.5737
18 11 2018 14:00
18 11 2018 14:10 1105.607056 7.247928143 1131.619584 153.9055023
18 11 2018 14:20
                 1200.666992 7.421527863 1217.640888 158.4557037
18 11 2018 14:30
                 1204.651978 7.439778805 1226.941161 164.2718964
18 11 2018 14:40
                 1101.703979 7.30678606 1160.298685 169.4268951
18 11 2018 14:50
                 1058.817017 7.112355232 1067.379336 167.5883026
18 11 2018 15:00
                 1078.13501 7.125813007 1073.645453 167.7843018
18 11 2018 15:10
                 1174.737061 7.372336864 1192.821673 165.4747009
18 11 2018 15:20
                 1232.348022 7.550665855 1284.147528 168.3159943
18 11 2018 15:30
                 1037.605957 7.039455891 1033.849703 170.144104
18 11 2018 15:40 784.8535156 6.4897089 801.9712893 171.0227051
18 11 2018 15:50 788.4567261 6.725833893 897.2027035 173.7162933
```

```
18 11 2018 16:00 461.1712952 5.726599216 536.6092888 174.2167053
                 286.8062134 5.033192158 344.1958724 176.7274017
18 11 2018 16:10
18 11 2018 16:20
                 164.5243988 4.414646149 204.1484194 183.7169037
18 11 2018 16:30 209.6936951 4.821840763 293.4078019 183.1049042
18 11 2018 16:40 251.591507 5.096537113 360.0745074 176.084198
18 11 2018 16:50 140.267395 4.526756763 227.6847826 157.760498
18 11 2018 17:00
                 110.9220963 4.309175014 182.6638785 139.9082947
                 101.4408035 4.175899982 156.3683719 147.9235992
18 11 2018 17:10
18 11 2018 17:20
                 227.0278931 4.932182789 319.5122715 151.183197
18 11 2018 17:30
                 178.8352966 4.739761829 274.5472828 145.8289032
18 11 2018 17:40
                 77.13426208 4.096501827 141.1267787 135.2790985
18 11 2018 17:50
                 36.64471817 3.517026901 53.93020617 135.158493
18 11 2018 18:00
                 22.34445953 3.52760911 55.15320134 143.4833069
18 11 2018 18:10
                 343.5708923 5.418883801 445.9652151 133.5415039
18 11 2018 18:20 512.0993042 5.903037071 592.7622559 133.4178925
18 11 2018 18:30
                 1196.688965 7.722266197 1375.189221 131.667099
18 11 2018 18:40
                 1226.984009 7.586474895 1302.83382 136.827301
18 11 2018 18:50 1485.448975 8.266176224 1685.908294 141.9730072
18 11 2018 19:00 1763.280029 8.335595131 1727.632024 156.0677032
                 1776.557007 8.448145866 1796.115476 164.8197021
18 11 2018 19:10
18 11 2018 19:20
                 1825.44104 8.54488945 1855.746743 169.8809967
                 2824.715088 10.60760021 3115.560434 167.8728943
18 11 2018 19:30
18 11 2018 19:40
                 2972.274902 11.07349968 3297.779781 166.3045959
18 11 2018 19:50
                 3257.478027 11.52725983 3428.483663 169.5431976
18 11 2018 20:00
                 3602.73999 13.01653957 3600 172.5339966
18 11 2018 20:10 3599.648926 12.64227009 3588.233048 170.4528046
18 11 2018 20:20 3590.971924 12.50547981 3579.539332 166.4355927
18 11 2018 20:30 3549.900879 12.37448978 3568.535276 170.7382965
18 11 2018 20:40 3405.524902 11.69126034 3465.557043 174.4869995
18 11 2018 20:50 3591.845947 13.01887989 3600 178.3005981
18 11 2018 21:00 3569.312012 13.30550003 3600 178.1737061
18 11 2018 21:10
                 3521.268066 14.24192047 3600 181.5391998
18 11 2018 21:20
                 3488.394043 15.39898968 3600
                                              183.263504
18 11 2018 21:30
                 3460.76001 15.57304955 3600
                                              185.8249969
                 3463.949951 15.81138992 3600
18 11 2018 21:40
                                               185.221405
18 11 2018 21:50
                 3461.425049 15.8231802 3600
                                               185.0467072
18 11 2018 22:00
                 3461.949951 15.80935955 3600
                                               186.8542023
18 11 2018 22:10
                 3462.519043 16.33175087 3600
                                               188.3878937
18 11 2018 22:20
                 3461.631104 16.70886993 3600
                                               189.5877991
18 11 2018 22:30
                 3461.433105 16.17691994 3600
                                               188.2144012
18 11 2018 22:40 3462.424072 16.17971992 3600
                                               187.517395
18 11 2018 22:50 3462.5271 16.24262047 3600
                                               189.8184052
18 11 2018 23:00
                 3461.568115 15.68533993 3600
                                               188.5442047
18 11 2018 23:10
                 3461.666992 15.6454401 3600
                                               185.6815033
18 11 2018 23:20
                 3461.681885 16.25064087 3600
                                              185.6811981
18 11 2018 23:30
                 3461.149902 16.64208031 3600
                                               185.8648987
18 11 2018 23:40
                 3461.454102 16.18008041 3600
                                               186.7592926
                 3461.99292 16.47290039 3600
                                               185.2463989
18 11 2018 23:50
19 11 2018 00:00
                 3461.539063 16.94872093 3600
                                               186.0265961
19 11 2018 00:10
                 3461.398926 17.19055939 3600
                                               184.6109009
19 11 2018 00:20
                 3460.852051 17.54573059 3600
                                               185.7485962
19 11 2018 00:30
                 3460.909912 17.84065056 3600
                                               185.0037994
19 11 2018 00:40
                 3461.318115 17.43519974 3600
                                               184.5095062
19 11 2018 00:50
                 3461.770996 17.63139915 3600
                                               185.6703033
19 11 2018 01:00
                 3460.798096 17.59638977 3600
                                               187.4801025
19 11 2018 01:10 3461.409912 17.84690094 3600
                                               187.517395
19 11 2018 01:20 3461.633057 19.09872055 3600
                                               187.2238007
19 11 2018 01:30 3461.008057 19.89089012 3600 185.2489014
19 11 2018 01:40 3461.170898 20.46334076 3600 184.9347992
```

```
19 11 2018 01:50 3461.427002 19.69094086 3600
                                               183.0572968
19 11 2018 02:00
                 3461.406006 18.67878914 3600
                                               183.2207947
19 11 2018 02:10
                 3461.644043 19.17770004 3600
                                               183.6539001
                                               182.4373016
19 11 2018 02:20
                 3461.499023 19.19635963 3600
19 11 2018 02:30
                 3461.74707 18.66068077 3600
                                               181.6109009
19 11 2018 02:40
                 3461.149902 18.88083076 3600
                                               182.7857971
19 11 2018 02:50
                 3461.822021 18.68071938 3600
                                               181.1197968
                 3462.674072 18.35424995 3600
19 11 2018 03:00
                                               179.3065033
19 11 2018 03:10
                 3462.466064 19.03554916 3600
                                               178.9470062
                 3463.004883 18.89965057 3600
                                               178.2521973
19 11 2018 03:20
                 3463.022949 19.69628906 3600
19 11 2018 03:30
                                               178.5955963
19 11 2018 03:40
                 3462.483887 19.18224907 3600
                                               178.4745026
19 11 2018 03:50
                 3463.993896 17.91456985 3600
                                               179.530304
19 11 2018 04:00
                 3463.811035 18.07448959 3600
                                               182.2144928
19 11 2018 04:10
                 3463.326904 17.11586952 3600
                                               178.4463043
19 11 2018 04:20
                 3463.259033 17.33064079 3600
                                               180.2507935
19 11 2018 04:30
                 3463.483887 17.75867081 3600
                                               179.3359985
19 11 2018 04:40 3464.135986 16.06020927 3600 177.2696991
19 11 2018 04:50 3462.725098 17.1833992 3600 178.7617035
                                               178.4456024
19 11 2018 05:00
                 3463.00293 17.99976921 3600
19 11 2018 05:10
                 3464.516113 18.15473938 3600
                                               180.014801
19 11 2018 05:20
                 3463.253906 18.17721939 3600
                                               178.4804993
19 11 2018 05:30
                 3461.604004 18.13517952 3600
                                               177.7906952
19 11 2018 05:40
                 3461.782959 18.50831985 3600
                                               178.6764984
19 11 2018 05:50
                 3461.090088 18.67585945 3600
                                               178.5888062
19 11 2018 06:00 3461.948975 17.17366982 3600
                                               178.5937958
19 11 2018 06:10 3462.139893 19.16563034 3600
                                               179.6271973
19 11 2018 06:20 3461.761963 18.8329792 3600
                                               176.0782013
19 11 2018 06:30
                 3461.714111 18.86068916 3600
                                               175.9243011
                 3461.625
                           17.20962906 3600
                                               177.8845062
19 11 2018 06:40
19 11 2018 06:50
                 3461.718994 16.76716995 3600
                                              177.1356964
19 11 2018 07:00
                 3461.458984 16.67392921 3600 179.2890015
19 11 2018 07:10
                 3461.551025 17.55677032 3600
                                               179.2823944
19 11 2018 07:20
                 3462.445068 16.80965996 3600
                                               176.9192963
19 11 2018 07:30
                 3463.069092 17.44437981 3600
                                               179.4669952
19 11 2018 07:40
                 3462.856934 17.29825974 3600
                                               181.2518005
19 11 2018 07:50
                 3462.631104 17.18452072 3600
                                               180.1687927
19 11 2018 08:00
                 3462.025879 18.16789055 3600
                                               182.2124023
                 3462.551025 17.48788071 3600
19 11 2018 08:10
                                               182.0617981
19 11 2018 08:20
                 3463.059082 16.90069962 3600
                                               183.5493011
                                               181.741806
19 11 2018 08:30
                 3462.187988 16.56291962 3600
19 11 2018 08:40 3463.064941 16.8176899 3600 183.1894989
19 11 2018 08:50
                 3462.871094 17.01173973 3600
                                               185.3524933
19 11 2018 09:00
                 3599.343994 17.16954041 3600 182.9837036
19 11 2018 09:10
                 3602.495117 17.5567894 3600 184.5514984
19 11 2018 09:20
                 3602.601074 15.97084045 3600 183.3018951
19 11 2018 09:30
                 3602.641113 15.39587021 3600 180.6432037
                 3602.305908 14.60367966 3600 181.9550018
19 11 2018 09:40
19 11 2018 09:50
                 3581.529053 14.96920013 3600 180.0579071
19 11 2018 10:00
                 3562.950928 12.96389008 3597.794311 182.8126984
19 11 2018 10:10
                 3495.762939 12.84337044 3595.968413 183.0574036
19 11 2018 10:20
                 3593.040039 13.35587025 3600 182.9355927
19 11 2018 10:30
                 3597.725098 14.34832001 3600
                                              183.7841034
19 11 2018 10:40
                 3603.254883 15.23945999 3600 180.7835999
19 11 2018 10:50
                 3602.802979 14.64105988 3600
                                               178.2510071
19 11 2018 11:00
                 3599.937012 14.29249001 3600
                                               180.6114044
19 11 2018 11:10
                 3601.315918 14.2182703 3600 184.3582001
19 11 2018 11:20 3327.405029 11.87444973 3501.062875 181.8972931
19 11 2018 11:30 3079.160889 11.23567009 3349.454932 200.741394
```

```
19 11 2018 11:40 3524.475098 12.05239964 3529.864122 202.5151978
                 3203.034912 11.13586998 3318.333299 200.5263062
19 11 2018 11:50
19 11 2018 12:00
                 2268.894043 9.128829002 2227.351188 197.0874023
19 11 2018 12:10 2331.77002 9.31523037 2348.861281 191.6262054
19 11 2018 12:20 2044.28894 9.536716461 2468.712874 187.2341003
19 11 2018 12:30 1572.199951 8.282619476 1695.754312 187.7232056
19 11 2018 12:40
                 1758.80896 8.544662476 1855.60606 185.8285065
                 1524.838013 7.759383202 1395.364266 192.9936066
19 11 2018 12:50
19 11 2018 13:00 2622.341064 9.673898697 2572.08889 185.8596954
19 11 2018 13:10
                 2573.593018 9.760915756 2634.257658 191.9595947
19 11 2018 13:20
                 2318.299072 9.567715645 2492.658773 199.3946991
19 11 2018 13:30 720.5855713 6.208127022 696.4811045 209.3941956
19 11 2018 13:40 1643.796021 8.010174751 1535.828747 195.5653992
19 11 2018 13:50 2812.312012 10.17238998 2894.714429 184.6089935
19 11 2018 14:00 2959.24707 10.52056026 3075.534707 188.9615936
19 11 2018 14:10 2583.110107 10.22562981 2924.598774 200.0213013
19 11 2018 14:20 1883.107056 8.969154358 2124.125236 187.8105011
19 11 2018 14:30 1299.866943 7.544153214 1280.767235 201.559906
19 11 2018 14:40 416.5638123 5.364078999 430.7362615 261.0791016
19 11 2018 14:50 1224.640015 7.208144188 1112.508683 204.2550049
19 11 2018 15:00 2221.985107 9.207027435 2278.216192 195.2057953
19 11 2018 15:10 2175.773926 9.082198143 2197.110118 196.470993
19 11 2018 15:20
                 1509.884033 7.787129879 1410.553671 207.1819
19 11 2018 15:30
                 1977.614014 8.664129257 1930.128323 204.094696
19 11 2018 15:40 1715.259033 8.255880356 1679.755208 208.0975037
19 11 2018 15:50 1109.125
                           7.137863159 1079.276587 203.9333954
19 11 2018 16:00 470.9697876 5.726211071 536.4892285 214.0769958
19 11 2018 16:10 305.7463989 4.929813862 318.9425475 225.4692993
19 11 2018 16:20 254.0411987 4.893929958 310.3628887 208.0818024
19 11 2018 16:30 666.5523071 5.704772949 529.8812014 243.8094025
19 11 2018 16:40 1401.025024 7.848899841 1444.691684 222.6750031
19 11 2018 16:50 1972.463989 8.671990395 1935.063997 224.2801971
19 11 2018 17:00 2052.760986 8.946198463 2109.366661 226.2536926
19 11 2018 17:10 1886.796997 8.512029648 1835.417003 230.5395966
19 11 2018 17:20 2622.541992 9.954257965 2763.331342 224.891098
19 11 2018 17:30 2133.12207 8.861930847 2055.39235 212.059494
                 2030.310059 8.766237259 1994.522209 206.6546021
19 11 2018 17:40
19 11 2018 17:50
                 2493.136963 9.770066261 2640.645294 206.5914001
19 11 2018 18:00 1704.688965 8.385360718 1757.789247 207.5814056
19 11 2018 18:10 2879.509033 10.83036995 3209.204362 208.5296021
19 11 2018 18:20 3552.030029 15.22751045 3600 206.5254974
19 11 2018 18:30 3600.51709 16.94338036 3600 214.0507965
19 11 2018 18:40 3593.724121 14.78442001 3600 224.6342926
19 11 2018 18:50 3497.430908 13.11299992 3600 231.3683929
19 11 2018 19:00 3279.725098 11.67148972 3461.357544 241.2687073
19 11 2018 19:10 3013.697998 10.84552956 3215.132607 243.0531006
                 3079.664063 11.36787033 3387.431191 245.3240051
19 11 2018 19:20
                 1654.266968 8.3120718 1713.44788 247.7559967
19 11 2018 19:30
19 11 2018 19:40 2253.293945 9.419967651 2417.465601 249.7953949
19 11 2018 19:50
                 1726.053955 8.296158791 1703.878937 239.9259033
19 11 2018 20:00
                 2282.065918 9.300833702 2339.446622 240.6365967
19 11 2018 20:10 987.1934204 6.92636013 983.1803293 237.5361023
19 11 2018 20:20
                 784.0922852 6.443552017 784.0868738 246.6620941
19 11 2018 20:30
                 195.8491058 4.498318195 221.6438036 255.0238953
19 11 2018 20:40 336.3880005 5.179747105 381.4162393 253.4122009
19 11 2018 20:50 279.9042053 4.825980186 294.3713764 258.5434875
19 11 2018 21:00 149.8321991 4.128592968 147.2504789 263.5931091
19 11 2018 21:10 429.6795044 5.523652077 475.8296455 249.6385956
19 11 2018 21:20 874.258606 6.639314175 861.572242 243.4465027
```

```
19 11 2018 21:30 1039.334961 7.049460888 1038.41052 242.1024017
19 11 2018 21:40 805.9448242 6.535448074 819.9267251 233.3708038
19 11 2018 21:50
                 670.7619019 6.444835186 784.5808898 231.6087952
19 11 2018 22:00
                 1004.684998 7.056894779 1041.807663 238.3267059
19 11 2018 22:10
                 628.06427
                             6.084094048 652.7248675 239.6641998
19 11 2018 22:20
                 480.9513855 5.638672829 509.7904408 238.8123016
19 11 2018 22:30
                 412.2453003 5.377800941 434.5243512 243.2317047
                 510.4970093 5.87198782 582.6487715 234.0466003
19 11 2018 22:40
19 11 2018 22:50
                 639.5875244 6.103773117 659.557457 229.0115967
                 1267.067993 7.732452869 1380.709648 225.3880005
19 11 2018 23:00
19 11 2018 23:10
                 1304.619019 7.812193871 1424.352374 222.8419952
19 11 2018 23:20
                 1206.357056 7.374867916 1194.089983 227.3390045
19 11 2018 23:30
                 1042.930054 7.319531918 1166.573968 220.3569031
19 11 2018 23:40 960.6762695 6.908148766 975.1709545 222.3959045
19 11 2018 23:50 560.3572998 5.940727234 605.1748235 228.0137939
20 11 2018 00:00 485.8929138 5.827532768 568.342841 225.0648956
20 11 2018 00:10 515.496582 5.73038578 537.7813252 217.6378937
20 11 2018 00:20 653.0789795 6.207266808 696.1719692 217.0516968
20 11 2018 00:30 544.4179077 6.100800037 658.522548 213.1264954
20 11 2018 00:40 610.2999878 6.339212894 744.5194505 210.6907043
20 11 2018 00:50
                 809.1168823 6.661386967 870.5802563 222.648407
20 11 2018 01:00
                 502.7907104 5.767288208 549.2784236 230.1461029
20 11 2018 01:10
                 339.3615112 5.398966789 440.3999648 224.6383057
20 11 2018 01:20
                 299.6039124 5.124447823 367.1711064 226.8267059
20 11 2018 01:30
                 356.4177856 5.221796989 392.4153596 224.9044952
20 11 2018 01:40 422.8465881 5.429212093 448.8651154 233.7895966
20 11 2018 01:50 107.6383972 3.853244066 101.545845 242.8457947
20 11 2018 02:00 400.0378113 5.454603195 456.0350045 230.3009033
20 11 2018 02:10 684.8071899 6.481089115 798.6135104 221.3404999
20 11 2018 02:20
                 578.6599121 6.065993786 646.4769696 226.8665009
20 11 2018 02:30 468.8154907 5.653747082 514.3347526 226.9844971
20 11 2018 02:40 320.0159912 5.236583233 396.3178396 227.8069
20 11 2018 02:50
                 269.3776855 4.936384201 320.5237252 229.1174927
20 11 2018 03:00
                 365.9476929 5.199421883 386.5444927 229.710495
                 39.89881897 3.258464098 29.61514633 240.6902008
20 11 2018 03:10
20 11 2018 03:20
                 171.1430969 4.215446949 164.0756944 231.2740936
20 11 2018 03:30
                 379.4567871 5.472752094 461.1956005 225.1405945
                 389.6079102 5.492819786 466.9367533 218.2554016
20 11 2018 03:40
20 11 2018 03:50
                 314.7921143 5.112535954 364.1348041 216.9098053
20 11 2018 04:00
                 350.2897949 5.217621803 391.3167116 218.6132965
20 11 2018 04:10 393.1164856 5.417872906 445.6818966 216.6208954
20 11 2018 04:20 449.9023132 5.738088131 540.1697946 219.0137024
20 11 2018 04:30 369.1383972 5.45621109 456.4909986 212.3128052
20 11 2018 04:40 532.5844727 5.93152523 602.1304693 208.5373993
20 11 2018 04:50
                 237.7250977 4.800290108 288.4106519 209.0726013
20 11 2018 05:00
                 405.639801 5.686024189 524.139275 202.997406
20 11 2018 05:10
                 397.3879089 5.559473038 486.2722081 200.7236023
                 564.378418 6.189935207 689.960405 202.3703003
20 11 2018 05:20
20 11 2018 05:30 635.8156128 6.37142086 756.6066914 203.8849945
20 11 2018 05:40
                 681.4584961 6.406497955 769.8991263 193.168396
20 11 2018 05:50
                 748.8115845 6.432538986 779.8543317 194.7158051
20 11 2018 06:00
                 1023.125
                             7.277245045 1145.843454 201.0536041
20 11 2018 06:10
                 754.9168701 6.555560112 827.8958123 201.8652039
20 11 2018 06:20 810.3043823 6.785177231 922.1455743 199.7523041
20 11 2018 06:30 995.1085815 7.089104176 1056.609709 198.8200073
20 11 2018 06:40 964.6555176 7.028324127 1028.790392 203.8531952
20 11 2018 06:50 854.4014893 6.894763947 969.3103563 199.4705048
20 11 2018 07:00 996.8364868 7.138599873 1079.621487 189.1777954
20 11 2018 07:10 1103.404053 7.299437046 1156.691027 190.0697021
```

```
1209.375
                             7.406151772 1209.844321 187.8984985
20 11 2018 07:20
                 1448.005981 7.750584126 1390.566508 188.0446014
20 11 2018 07:30
20 11 2018 07:40
                 1068.35498 6.897730827 970.6075187 187.7003937
20 11 2018 07:50
                 1160.265015 7.250070095 1132.654735 189.9736023
20 11 2018 08:00 1143.522949 7.30445385 1159.15296 189.6399994
20 11 2018 08:10 1179.998047 7.295585155 1154.803192 194.3184967
20 11 2018 08:20 991.9196167 6.864694118 956.2241425 197.3045044
20 11 2018 08:30 853.3427734 6.529660225 817.6417615 199.9281006
20 11 2018 08:40 1116.741943 7.281115055 1147.730118 202.1911926
20 11 2018 08:50
                 841.8964233 6.3977561 766.5738467 198.4978027
20 11 2018 09:00
                 1028.213989 7.015593052 1023.023686 198.0807953
20 11 2018 09:10 868.9672852 6.440165997 782.7841353 200.6331024
20 11 2018 09:20
                 619.6162109 5.980218887 618.3424166 201.6013031
20 11 2018 09:30 409.4226074 5.063649178 351.7914146 201.7176971
20 11 2018 09:40 657.1702271 6.17931509 686.1701042 205.4239044
20 11 2018 09:50 832.9041138 6.689586163 882.1699393 207.3914032
20 11 2018 10:00 693.4901733 6.050206184 641.055943 206.6988983
20 11 2018 10:10 882.6887817 6.797313213 927.2977463 206.5274963
20 11 2018 10:20 817.2288818 6.683165073 879.5228506 208.8025055
                 989.4827271 7.31550312 1164.58792 206.9458008
20 11 2018 10:30
20 11 2018 10:40 852.0040283 6.728115082 898.1538801 208.6306
20 11 2018 10:50 945.1749878 6.876508236 961.3524194 205.8999023
20 11 2018 11:00
                 710.4752197 6.338748932 744.3461539 205.8769989
20 11 2018 11:10
                 853.4561157 6.638551235 861.2618796 202.5765991
20 11 2018 11:20
                 1131.234985 7.197476864 1107.421514 199.7306976
20 11 2018 11:30 911.8555908 6.720942974 895.1654073 199.7601013
20 11 2018 11:40 557.1456299 5.833089828 570.1200058 203.7241974
20 11 2018 11:50 868.5286255 6.865887165 956.7412499 202.8583069
20 11 2018 12:00 748.4105835 6.433805943 780.3405719 203.4541931
20 11 2018 12:10 934.1270142 6.874492168 960.4760814 202.9006958
20 11 2018 12:20
                 1034.036987 6.953164101 995.0435551 198.0437012
20 11 2018 12:30 1417.045044 7.782001019 1407.739108 200.5514069
20 11 2018 12:40
                 1123.147949 7.212578773 1114.628095 202.2563019
20 11 2018 12:50 1246.754028 7.751974106 1391.323788 201.2082062
20 11 2018 13:00 1004.827026 7.070322037 1047.96182 200.1607971
                 983.9622192 6.825870037 939.4904647 199.6844025
20 11 2018 13:10
                 1077.095947 7.155889034 1087.736447 202.841507
20 11 2018 13:20
                 1043.982056 7.139398098 1079.995266 202.9499969
20 11 2018 13:30
20 11 2018 13:40 2071.047119 9.576727867 2499.555601 194.6118927
20 11 2018 13:50 3042.124023 11.59667969 3444.802069 198.7073059
20 11 2018 14:00 2968.246094 11.24230957 3351.44957 195.1136932
20 11 2018 14:10 2926.197021 11.28017044 3362.64565 196.7642059
20 11 2018 14:20 3319.26709 12.27350044 3558.217464 198.2828064
20 11 2018 14:30 3268.832031 11.79574966 3486.553896 198.7835999
20 11 2018 14:40 3050.679932 11.31040001 3371.369061 203.0657043
20 11 2018 14:50 2893.604004 11.11209011 3310.598312 206.6963959
20 11 2018 15:00 2982.093018 11.32328033 3375.028176 206.9058075
20 11 2018 15:10 2797.951904 10.97741032 3264.40786 204.139801
20 11 2018 15:20 2531.24707 10.61480045 3118.783026 203.0727997
20 11 2018 15:30
                 2911.916016 11.31908035 3373.838801 201.9008026
20 11 2018 15:40
                 2834.6521
                            11.31984997 3374.057018 199.0836029
20 11 2018 15:50
                 2636.974121 10.83100033 3209.451976 198.704895
20 11 2018 16:00
                 2298.227051 10.0104599 2798.588542 195.6580048
20 11 2018 16:10 2318.23291 10.18216038 2900.261328 195.5984039
20 11 2018 16:20 2345.439941 10.18363953 2901.098614 196.2238007
20 11 2018 16:30 2145.737061 9.824372292 2677.97654 197.1692963
20 11 2018 16:40 2287.685059 10.04609013 2820.428185 197.1701965
20 11 2018 16:50 2374.577881 10.15377045 2884.06511 201.7001038
20 11 2018 17:00 2162.349121 9.756465912 2631.141163 201.5339966
```

```
20 11 2018 17:10 1954.465942 9.407103539 2409.030196 199.4826965
                 1839.167969 9.133518219 2230.39617 203.7388
20 11 2018 17:20
20 11 2018 17:30
                 1875.926025 9.217003822 2284.717846 207.2781982
20 11 2018 17:40 2307.13501 10.09500027 2849.769906 204.7216034
20 11 2018 17:50
                 2641.37793 10.67259026 3144.16597 205.5814056
20 11 2018 18:00
                 2703.39502 10.84564018 3215.175665 204.0787048
20 11 2018 18:10
                 2585.769043 10.6393404 3129.666016 202.9785004
                 2587.403076 10.60978031 3116.537589 204.6529999
20 11 2018 18:20
20 11 2018 18:30 2593.771973 10.69330025 3153.055684 202.5115051
20 11 2018 18:40
                 2246.562988 10.21914005 2921.000536 197.8578949
20 11 2018 18:50
                 2009.802002 9.493746758 2465.882685 197.9671936
20 11 2018 19:00 2239.352051 9.996226311 2789.753393 198.5522003
20 11 2018 19:10 2446.065918 10.35943031 2996.0812
                                                     198.3630981
20 11 2018 19:20 2734.356934 10.93799019 3250.106106 199.9450989
20 11 2018 19:30 2477.012939 10.52933979 3079.662411 197.1322021
20 11 2018 19:40 2543.513916 10.73719025 3171.539484 197.7422943
20 11 2018 19:50 2589.730957 10.62156963 3121.800492 196.1645966
20 11 2018 20:00 2739.76709 10.9826498 3266.281742 200.0469971
20 11 2018 20:10 2871.644043 11.19171047 3336.011279 201.1764984
20 11 2018 20:20 2708.394043 10.95833015 3257.530444 197.8363953
20 11 2018 20:30 2460.677002 10.44071007 3037.045333 198.6383057
20 11 2018 20:40 2229.01709 9.975984573 2777.079251 203.2194061
20 11 2018 20:50
                 2135.809082 9.565041542 2490.606747 204.8876038
20 11 2018 21:00 2343.865967 10.29115963 2960.247198 203.2221069
20 11 2018 21:10 2421.658936 10.56824017 3097.706428 200.616394
20 11 2018 21:20 2099.879883 10.02445984 2807.216906 198.8764954
20 11 2018 21:30 2148.653076 9.778766632 2646.692543 197.5455933
20 11 2018 21:40 2158.679932 9.659639359 2561.652595 196.8399963
20 11 2018 21:50 2490.288086 10.25397968 2940.173516 199.4994965
20 11 2018 22:00 2236.089111 9.543261528 2473.797609 198.6719055
20 11 2018 22:10 2479.309082 10.33047009 2981.041418 200.1246948
20 11 2018 22:20 2425.310059 10.2822504 2955.473233 201.2440033
20 11 2018 22:30 2561.822998 10.53417015 3081.924695 199.240097
20 11 2018 22:40 2555.455078 10.43260002 3033.039619 198.7976074
20 11 2018 22:50 2742.780029 10.98509026 3267.152406 200.0912018
20 11 2018 23:00 2859.906982 11.2884798 3365.062523 195.1548004
20 11 2018 23:10 2831.231934 11.32120991 3374.442317 193.6374054
20 11 2018 23:20
                 2613.980957 11.0475502 3288.97337 191.837204
20 11 2018 23:30 2491.808105 10.55356026 3090.943933 190.3811951
20 11 2018 23:40 2707.582031 10.86826038 3223.918414 189.0968933
20 11 2018 23:50 2592.549072 10.61927986 3120.781113 188.9582977
21 11 2018 00:00 2396.062988 10.24087048 2933.000658 188.8166962
21 11 2018 00:10 2341.923096 10.07773018 2839.493095 190.3589935
21 11 2018 00:20 1971.897949 9.399888039 2404.299767 191.1316986
21 11 2018 00:30
                 1675.81604 8.763917923 1993.052913 192.3829956
21 11 2018 00:40 1815.630005 9.08581543 2199.453383 196.104599
21 11 2018 00:50
                 1610.862061 8.693655014 1948.685703 199.4573059
                 1665.368042 8.73171711 1972.684736 200.1616058
21 11 2018 01:00
21 11 2018 01:10 1796.874023 9.085156441 2199.026459 200.1083984
21 11 2018 01:20
                 1737.756958 9.105252266 2212.052152 198.1425018
21 11 2018 01:30
                 2072.378906 9.737566948 2617.830308 196.5953979
21 11 2018 01:40
                 1607.969971 8.857037544 2052.268422 195.0334015
21 11 2018 01:50
                 1290.458984 8.224299431 1660.939844 193.9893951
21 11 2018 02:00
                 1078.135986 7.613485813 1317.039821 197.7812958
21 11 2018 02:10 876.0145264 7.163479805 1091.311983 197.8816071
21 11 2018 02:20 1263.005981 8.284761429 1697.038603 193.2422943
21 11 2018 02:30 1907.712036 9.659478188 2561.53423 193.9111938
21 11 2018 02:40 1652.666016 9.16106987 2248.300822 192.8157959
21 11 2018 02:50 1282.612061 8.26099968 1682.813496 192.7498016
```

```
21 11 2018 03:00 1167.116943 7.875237942 1459.380565 192.7388
                 1112.80896 7.772086143 1402.306931 190.0095062
21 11 2018 03:10
21 11 2018 03:20
                 1027.177979 7.492464066 1254.071967 188.9983063
21 11 2018 03:30 1005.333008 7.455615997 1235.052186 189.1591034
21 11 2018 03:40 834.348877 7.024356842 1026.991133 191.5973053
21 11 2018 03:50 567.7902222 6.280967236 722.9459124 193.2895966
21 11 2018 04:00
                 412.8175049 5.691226959 525.7291955 194.7707062
                 460.5845032 5.945411205 606.7278991 200.3390045
21 11 2018 04:10
                 413.6289063 5.83134222 569.5607739 197.1719055
21 11 2018 04:20
21 11 2018 04:30
                 428.8181152 5.903210163 592.8189187 192.1074982
21 11 2018 04:40
                 542.4199829 6.186132908 688.6019831 188.266098
21 11 2018 04:50
                 766.6953125 6.915287018 978.3054834 183.1938019
21 11 2018 05:00
                 719.0288696 6.77801609 919.1136087 170.7398987
21 11 2018 05:10 832.2750244 7.048707008 1038.066411 161.7165985
                 1025.593994 7.306497097 1160.156686 160.4212952
21 11 2018 05:20
21 11 2018 05:30 918.7556763 7.209578991 1113.19412 158.4700928
21 11 2018 05:40
                 1056.785034 7.543777943 1280.572628 150.4933014
21 11 2018 05:50
                 1417.339966 8.234448433 1666.976789 150.6419983
21 11 2018 06:00 1195.426025 7.746353149 1388.262842 154.5628967
21 11 2018 06:10
                 955.6520996 7.254696846 1134.892911 154.1376953
21 11 2018 06:20
                 1108.043945 7.740829945 1385.258828 146.9745026
                 1138.199951 7.786455154 1410.183226 141.3096008
21 11 2018 06:30
21 11 2018 06:40
                 861.4088745 7.118608952 1070.288164 141.5630951
21 11 2018 06:50
                 832.7775269 6.922963142 981.6832208 147.3901978
21 11 2018 07:00 867.7379761 6.76493597 913.5912652 151.6166992
21 11 2018 07:10 639.9750977 6.271584988 719.5050769 148.4868011
21 11 2018 07:20 451.6882019 5.873626232 583.1799298 145.5173035
21 11 2018 07:30 493.9678955 5.948887825 607.8821573 149.0653076
21 11 2018 07:40 477.8143921 6.012837887 628.3308484 146.4575958
21 11 2018 07:50
                 327.3216858 5.434329987 450.3056237 143.1472931
21 11 2018 08:00
                 268.3627014 5.127419949 367.9304601 143.7312927
21 11 2018 08:10
                 149.2084045 4.489130974 219.7026318 142.3925018
21 11 2018 08:20
                 45.97489929 3.518666983 54.11857856 150.678299
21 11 2018 08:30
                 26.28722954 3.059350967 18.18103394 162.3518066
21 11 2018 08:40 0.573999703 2.877885103 0
                                               169.9342957
21 11 2018 08:50 0
                       2.58800292 0
                                         203.6739044
21 11 2018 09:00
                 25.37655067 3.799325943 92.69218723 206.482193
                 23.39948082 3.254009008 29.28993438 210.3188019
21 11 2018 09:10
21 11 2018 09:20 348.281311 5.299550056 413.1422848 199.303299
21 11 2018 09:30 532.2069702 5.905599117 593.6012792 221.2200012
21 11 2018 09:40 413.2374878 5.480999947 463.5507664 237.0731964
21 11 2018 09:50 206.7406006 4.596216202 242.647899 237.0502014
21 11 2018 10:00 291.3334961 5.056033134 349.8853307 221.7111969
21 11 2018 10:10 0.934334278 2.413455009 0
                                               207.3860016
21 11 2018 10:20
                 170.9945984 4.270065784 174.8516736 203.3170013
21 11 2018 10:30
                 35.28456879 4.195519924 160.1822843 218.3975983
21 11 2018 10:40
                       6.815270901 934.9536386 219.552597
21 11 2018 10:50
                 0
                       5.49199295 466.6994762 208.3043976
21 11 2018 11:00 75.43406677 4.070493221 136.1993873 201.0988007
21 11 2018 11:10
                 332.8103027 5.043268204 346.7007359 190.9654999
21 11 2018 11:20
                 850.2723999 6.471704006 794.9669517 198.8358002
21 11 2018 11:30
                 1172.52002 7.904671192 1475.887484 208.401001
21 11 2018 11:40
                 743.758606 6.801850796 929.2286184 210.592804
21 11 2018 11:50
                 706.1361084 6.694968224 884.3923627 210.7149963
21 11 2018 12:00
                 535.1113892 6.057130814 643.4303907 211.6804047
21 11 2018 12:10
                 521.496521 5.967463017 614.0710482 211.891098
21 11 2018 12:20 407.7308044 5.657842159 515.5730618 202.9295044
21 11 2018 12:30 656.3250732 6.376810074 758.640208 188.1793976
21 11 2018 12:40 661.5872803 6.45164299 787.204903 182.740799
```

```
21 11 2018 12:50 720.4459229 6.858870029 953.7022635 179.3878021
21 11 2018 13:00 657.3292847 6.825862885 939.4873986 165.3578949
21 11 2018 13:10
                 303.1723022 5.333796978 422.4348668 151.4732971
21 11 2018 13:20
                 361.3338013 5.266104221 404.1639668 170.5906067
21 11 2018 13:30
                 434.5333862 5.651119232 513.5409743 179.8184967
21 11 2018 13:40
                 772.7288208 7.03916502 1033.717301 168.0623016
                 946.7924194 7.332201958 1172.835031 162.8825989
21 11 2018 13:50
                923.3909912 6.790606022 924.4481324 173.2416992
21 11 2018 14:00
21 11 2018 14:10 891.4196167 6.968010902 1001.653229 174.5975952
21 11 2018 14:20
                 849.1166992 6.956671238 996.6024131 171.3262024
21 11 2018 14:30
                 611.7147827 6.117288113 664.273841 176.9349976
21 11 2018 14:40
                 645.4492188 6.375868797 758.2848074 176.7689056
21 11 2018 14:50
                 1118.703003 7.448900223 1231.608058 174.9029999
21 11 2018 15:00
                 1073.76001 7.017914772 1024.073794 190.7913055
21 11 2018 15:10 813.8474731 6.613875866 851.2597714 186.0372925
21 11 2018 15:20
                 721.5548706 6.491826057 802.7972723 192.0070038
21 11 2018 15:30
                 1231.998047 7.62118578 1321.106766 206.5596008
21 11 2018 15:40
                 1660.569946 8.482243538 1817.055296 218.7017059
21 11 2018 15:50
                 1686.420044 8.529863358 1846.440984 221.7778015
21 11 2018 16:00
                 1464.708984 8.199986458 1646.515405 221.5431061
21 11 2018 16:10
                 1266.265991 7.838322163 1438.814592 222.1376038
                 1176.208008 7.814216137 1425.468901 218.8141937
21 11 2018 16:20
21 11 2018 16:30
                 964.4052734 7.462798119 1238.743065 215.4432983
21 11 2018 16:40
                 836.9041748 6.997635841 1014.924898 217.7890015
21 11 2018 16:50
                 680.3444214 6.306077957 732.2016872 226.7978058
21 11 2018 17:00
                 528.708313 5.998654842 624.5466794 232.0769958
21 11 2018 17:10
                532.0814819 6.067756176 647.0837782 237.0894928
                668.3171997 6.56262207 830.7047604 245.0274048
21 11 2018 17:20
21 11 2018 17:30
                494.2981873 6.107718945 660.9324315 245.4205017
                            6.691795826 883.0819736 245.366806
21 11 2018 17:40
                 715.87323
21 11 2018 17:50
                 783.8765869 6.928761959 984.2397174 244.6652985
21 11 2018 18:00
                 523.1286011 6.137270927 671.2830941 245.1022949
21 11 2018 18:10
                 430.3666992 5.765215874 548.6291655 234.0328979
21 11 2018 18:20
                 421.6453857 5.762114048 547.6581763 230.3587036
                 469.6972961 6.013174057 628.4446595 225.4875946
21 11 2018 18:30
21 11 2018 18:40
                 468.1619873 6.122319221 666.0345532 216.8757019
21 11 2018 18:50
                 420.8634033 5.942131996 605.6403594 205.365097
21 11 2018 19:00
                 339.1583862 5.519698143 474.6843115 206.1549072
21 11 2018 19:10
                 398.3945923 5.747581005 543.1216306 206.2752075
21 11 2018 19:20
                 386.0231934 5.584650993 493.6841353 201.2687988
21 11 2018 19:30
                 598.1259155 6.289041042 725.914486 205.8132019
                681.5484009 6.519123077 813.4914373 208.7088928
21 11 2018 19:40
21 11 2018 19:50
                 605.2880859 6.300508022 730.1427444 203.4102936
21 11 2018 20:00
                 680.74823
                             6.343246937 746.0272063 204.7371063
21 11 2018 20:10
                 866.5797729 6.928415775 984.0869801 201.0386963
21 11 2018 20:20
                 915.0001831 7.189603806 1103.676885 199.9902039
21 11 2018 20:30
                 941.8580933 7.177562237 1097.965929 201.9203949
21 11 2018 20:40
                 832.050293 6.981458187 1007.663743 201.8217926
                 789.8287964 6.919414997 980.1210195 198.0256958
21 11 2018 20:50
                 843.7675171 7.02778101 1028.543956 196.4375
21 11 2018 21:00
21 11 2018 21:10
                 791.9014282 6.897109985 970.3359884 196.5126038
21 11 2018 21:20
                 673.7266235 6.443200111 783.9514228 201.321701
21 11 2018 21:30
                 486.0665894 5.89547205 590.2888657 200.3914032
21 11 2018 21:40
                 515.4633179 5.877490044 584.4336473 205.2832947
21 11 2018 21:50
                 594.7124023 6.355728149 750.7033415 206.533493
21 11 2018 22:00 561.3167725 6.256724834 714.0746741 206.3609009
21 11 2018 22:10 616.8204956 6.424610138 776.8153504 205.8280945
21 11 2018 22:20 639.5319214 6.487267971 801.0196068 207.8085022
21 11 2018 22:30 688.5200195 6.49238205 803.0142682 207.8874969
```

```
21 11 2018 22:40
                  778.8508911 6.601912975 846.4355568 209.6726074
                  783.7698975 6.59077692 841.9593479 212.4727936
21 11 2018 22:50
21 11 2018 23:00
                  709.1821289 6.467660904 793.3990145 214.0711975
21 11 2018 23:10
                  615.4370117 6.36449194 753.9968398 215.2057037
21 11 2018 23:20
                  551.77948
                              5.994628906 623.1887041 221.4761963
21 11 2018 23:30
                  597.1453247 6.150220871 675.8482641 226.9212952
21 11 2018 23:40
                  557.6879272 6.054797173 642.6296154 226.819397
                  489.2092896 5.784615993 554.7241118 228.4355011
21 11 2018 23:50
22 11 2018 00:00
                  560.3206787 6.084271908 652.7864354 228.8096008
22 11 2018 00:10
                  524.7783813 5.959967136 611.5691374 227.2182007
22 11 2018 00:20
                  390.9865112 5.581714153 492.8165002 225.1999969
22 11 2018 00:30
                  442.5815125 5.686398029 524.2534288 224.6681976
22 11 2018 00:40
                  464.8677979 5.785029888 554.8545591 230.0048981
22 11 2018 00:50
                  499.5215149 5.977588177 617.460082 225.8177948
22 11 2018 01:00
                  435.0653076 5.676187992 521.1406618 227.7783051
22 11 2018 01:10
                  369.2612915 5.50094223 469.2709901 229.9434052
22 11 2018 01:20
                  159.0178986 4.42463398 206.2153811 241.6835022
22 11 2018 01:30
                  134.1278992 4.334195137 187.7048518 248.1325073
22 11 2018 01:40
                  113.8746033 4.242972851 169.4870907 253.3657074
22 11 2018 01:50
                  92.32723999 4.030755997 128.7313085 261.6401978
22 11 2018 02:00
                  87.48944855 3.953026056 119.1575269 256.941803
                  70.89364624 3.844952106 100.1539924 252.6475983
22 11 2018 02:10
22 11 2018 02:20
                  0.986532986 2.637819052 0
                                                 221.5915985
22 11 2018 02:30
                  150.4201965 4.414341927 204.085551 214.5321045
22 11 2018 02:40
                  84.06033325 3.976607084 123.5523385 221.2588043
22 11 2018 02:50
                  18.28293037 3.198869944 25.52777855 232.8905029
22 11 2018 03:00
                        1.618373036 0
                                           257.9054871
22 11 2018 03:10
                  0
                        1.230661988 0
                                           269.0759888
22 11 2018 03:20
                  0
                        1.713631034 0
                                           274.898407
22 11 2018 03:30
                  0
                        1.338086963 0
                                           268.2495117
22 11 2018 03:40
                  0
                        0.9445858
                                     0
                                           258.0267029
22 11 2018 03:50
                  0
                        0.890170693 0
                                           196.0108948
22 11 2018 04:00
                  0
                        0.629411876 0
                                           237.6150055
22 11 2018 04:10
                        1.102921009 0
                                           332.3998108
                  0
22 11 2018 04:20
                                           276.7981873
                  0
                        0.684685171 0
22 11 2018 04:30
                  0
                        0.749843419 0
                                           283.1940002
22 11 2018 04:40
                  0
                        0.548685014 0
                                           270.4020081
22 11 2018 04:50
                  0
                        0.974533379 0
                                           246.7920074
22 11 2018 05:00
                        1.426995993 0
                                           293.5538025
22 11 2018 05:10
                        1.27828896 0
                                           292,4135132
22 11 2018 05:20
                        0.639368296 0
                                           266.4653931
                  0
22 11 2018 05:30
                                           261.9112854
                  0
                        0.518516779 0
22 11 2018 05:40
                                           64.05259705
                  0
                        0.334617406 0
22 11 2018 05:50
                  0
                        1.743698955 0
                                           54.02928925
22 11 2018 06:00
                  0
                                           40.05664063
                        1.382817984 0
22 11 2018 06:10
                        1.611392021 0
                                           39.5728302
22 11 2018 06:20
                  0
                        1.525498033 0
                                           18.68119049
22 11 2018 06:30
                  0
                        1.816534996 0
                                           37.95981979
22 11 2018 06:40
                  0
                        1.485314965 0
                                           53.11722946
22 11 2018 06:50
                  0
                        1.668375969 0
                                           50.35282898
22 11 2018 07:00
                  0
                        1.746770024 0
                                           53.24348068
22 11 2018 07:10
                        1.010732055 0
                                           117.8143005
22 11 2018 07:20
                        1.078492045 0
                                           266.3605042
22 11 2018 07:30
                                           25.22102928
                  0
                        0.693985701 0
22 11 2018 07:40
                  0
                        0.860710919 0
                                           342.8714905
22 11 2018 07:50
                  0
                        1.633046985 0
                                           359.2338867
22 11 2018 08:00
                  0
                        2.717683077 0
                                           28.76502037
22 11 2018 08:10
                  0
                        3.090682983 19.55972775 23.51351929
22 11 2018 08:20
                        3.875885963 105.4024485 21.87947083
```

```
22 11 2018 08:30 0
                       4.933024883 319.7148939 29.03351021
22 11 2018 08:40 0
                       4.726016998 271.4339707 26.51375961
22 11 2018 08:50 15.35346031 3.848858118 100.8082681 26.23365021
22 11 2018 09:00 56.94916916 3.737854004 83.16561061 33.09119034
22 11 2018 09:10 167.0422058 4.367022991 194.370914 34.38631058
22 11 2018 09:20 490.3559875 5.604569912 499.5904122 42.81127167
22 11 2018 09:30 791.2929077 6.333438873 742.3644332 41.84543991
22 11 2018 09:40 815.4099731 6.548336029 825.0281669 41.26908112
22 11 2018 09:50 639.4771118 6.155562878 677.736676 41.73572159
22 11 2018 10:00 616.0847778 5.977714062 617.5022866 34.22634125
22 11 2018 10:10 621.3449707 5.993065834 622.6619405 38.24975967
22 11 2018 10:20 435.9761963 5.576375008 491.2412381 39.56150055
22 11 2018 10:30 464.0508118 5.544487953 481.8891658 38.77299118
22 11 2018 10:40 563.6627197 5.962460041 612.4005316 40.246521
22 11 2018 10:50 877.9921265 6.471470833 794.8764767 35.60066986
22 11 2018 11:00 700.1705933 6.119368076 665.0014276 39.90193176
22 11 2018 11:10 1064.822021 6.948431015 992.9422227 42.11750031
22 11 2018 11:20 1294.267944 7.310339928 1162.046056 38.92242813
22 11 2018 11:30 1899.849976 8.373709679 1750.71098 36.74882126
22 11 2018 11:40 2247.636963 8.962428093 2119.798527 33.60112
22 11 2018 11:50 2603.846924 9.695876122 2588.035858 35.46380997
22 11 2018 12:00 2653.85791 10.04961967 2822.570207 34.8506813
22 11 2018 12:10 3024.058105 10.58530045 3105.494604 35.82294846
22 11 2018 12:20 2990.389893 10.8910799 3232.614736 37.96868134
22 11 2018 12:30 3047.789063 10.67625999 3145.749096 33.8838501
22 11 2018 12:40 2593.073975 9.377098083 2389.363879 31.92328072
22 11 2018 12:50 3245.541992 10.87825966 3227.744263 29.61694908
22 11 2018 13:00 3258.297119 11.31859016 3373.699748 34.80115891
22 11 2018 13:10 3456.047119 12.04096031 3528.176195 34.64632034
22 11 2018 13:20 3457.918945 11.94182014 3512.611818 35.7761116
22 11 2018 13:30 2999.85791 10.59589958 3110.29501 34.45909882
22 11 2018 13:40 2892.894043 10.21078014 2916.347232 32.50040054
22 11 2018 13:50 2968.780029 10.63696957 3128.621344 33.71746063
22 11 2018 14:00 3051.61499 10.99483013 3270.613629 36.41099167
22 11 2018 14:10 3146.896973 10.84552956 3215.132607 37.67021179
22 11 2018 14:20 3371.396973 12.03265953 3526.937495 38.63753891
                 3420.573975 12.02149963 3525.253694 37.55701065
22 11 2018 14:30
22 11 2018 14:40 2887.337891 10.47544003 3053.996901 37.38682175
22 11 2018 14:50 2895.585938 10.35711956 2994.88981 37.77067184
22 11 2018 15:00 2566.418945 9.485725403 2460.616044 41.16955185
22 11 2018 15:10 2608.99292 9.574915886 2498.171273 32.75695038
22 11 2018 15:20 3302.481934 11.7020998 3467.828589 40.1049118
22 11 2018 15:30 3188.990967 11.76772976 3481.119295 44.92823029
22 11 2018 15:40 3581.37793 13.11388969 3600 44.75780106
22 11 2018 15:50 3400.073975 12.19073963 3548.544228 46.82809067
22 11 2018 16:00 3519.290039 12.82244015 3595.438551 41.13975906
22 11 2018 16:10 3572.919922 13.15161991 3600 44.51906967
22 11 2018 16:20 3531.778076 12.40705013 3571.519131 42.24636078
22 11 2018 16:30 3221.241943 10.97455025 3263.382303 44.74274063
22 11 2018 16:40
                 3261.61499 10.9982996 3271.841312 37.13338089
22 11 2018 16:50
                 3198.336914 11.05107975 3290.180067 44.37071991
22 11 2018 17:00 3099.771973 10.79920006 3196.840908 48.08406067
22 11 2018 17:10 3110.160889 11.07339954 3297.746089 51.97919083
22 11 2018 17:20 2359.044922 9.309397697 2345.046516 49.29547882
22 11 2018 17:30 2853.608887 10.46549034 3049.173895 50.09925079
22 11 2018 17:40 3038.648926 10.74571037 3175.072025 51.19992828
22 11 2018 17:50 3138.511963 10.80101967 3197.569128 51.81742859
22 11 2018 18:00 3295.583008 11.44857025 3408.849611 47.60549927
22 11 2018 18:10 3414.38501 12.00714016 3523.055933 50.78479004
```

```
22 11 2018 18:20 3457.427002 12.13088989 3540.852643 51.12335968
                 3337.447998 11.55276966 3434.58836 47.89455032
22 11 2018 18:30
22 11 2018 18:40
                             11.5350399 3430.35889 51.21488953
                 3296.75
22 11 2018 18:50 3436.960938 11.64589024 3455.811278 49.44242859
22 11 2018 19:00 3574.356934 13.10262012 3600 49.74058151
22 11 2018 19:10 2555.951904 9.554455757 2482.458313 41.86122131
22 11 2018 19:20 2486.702881 9.694245338 2586.858286 42.50154114
22 11 2018 19:30 2535.052002 9.304465294 2341.821093 37.98014832
22 11 2018 19:40 2355.995117 9.336525917 2362.794921 35.28382874
22 11 2018 19:50
                 2545.785889 9.667456627 2567.382751 36.277771
22 11 2018 20:00
                 2752.967041 9.928748131 2746.997835 35.2960701
22 11 2018 20:10 3169.294922 10.79201984 3193.959472 35.78293991
22 11 2018 20:20 3346.843994 11.74687958 3476.982601 36.84346008
22 11 2018 20:30 3383.925049 11.75916958 3479.430551 36.24507904
22 11 2018 20:40 3260.977051 11.05515003 3291.568153 35.27708817
22 11 2018 20:50 2899.556885 10.35851955 2995.611805 36.91482925
22 11 2018 21:00 2893.325928 10.32495975 2978.153014 39.8290596
22 11 2018 21:10 2978.271973 10.70792961 3159.270212 40.31568909
22 11 2018 21:20 3339.224121 10.91460037 3241.44934 34.44272995
22 11 2018 21:30 3527.160889 12.61884022 3586.943711 36.14902878
22 11 2018 21:40 3373.866943 11.70862007 3469.184497 33.56726074
22 11 2018 21:50 3418.052002 11.9585104 3515.350481 32.7700119
22 11 2018 22:00 3033.003906 10.79901981 3196.768729 35.84468079
22 11 2018 22:10
                 2830.695068 10.22290993 2923.092238 33.44734955
22 11 2018 22:20 3233.833008 11.34103012 3380.014398 33.66625977
22 11 2018 22:30 3332.823975 11.34945965 3382.35966 32.1996994
22 11 2018 22:40 3321.008057 11.79728985 3486.8485
                                                     32.5329895
22 11 2018 22:50 3244.451904 11.64410019 3455.418848 35.49372101
22 11 2018 23:00 3245.023926 11.60527039 3446.757093 36.05067062
22 11 2018 23:10 3285.106934 11.52808952 3428.684206 35.09215164
22 11 2018 23:20 3521.452881 12.40326023 3571.180337 35.12894821
22 11 2018 23:30 3261.399902 11.30828953 3370.76622 34.61349106
22 11 2018 23:40 3326.275879 11.6635704 3459.654914 32.9593811
22 11 2018 23:50 3418.709961 11.82281017 3491.667756 35.00156021
23 11 2018 00:00 3427.218994 11.96695042 3516.717019 34.60848999
23 11 2018 00:10 3370.584961 11.62055969 3450.201788 35.02087021
                 3107.153076 10.85890007 3220.315464 37.32189941
23 11 2018 00:20
                 2720.385986 10.05344963 2824.890192 38.54475021
23 11 2018 00:30
23 11 2018 00:40 3257.35791 11.54636955 3433.06863 36.0185318
23 11 2018 00:50 2886.697998 10.46240044 3047.67065 37.68619156
23 11 2018 01:00 3036.730957 10.31871986 2974.871819 36.08879852
23 11 2018 01:10 2431.743896 9.750992775 2627.298805 43.71376038
23 11 2018 01:20 2175.739014 9.162481308 2249.218674 34.84268951
23 11 2018 01:30 2231.840088 9.112966537 2217.055979 35.27981186
23 11 2018 01:40 2613.894043 10.14241982 2877.522438 36.63166046
23 11 2018 01:50 2275.75
                             9.303237915 2341.018556 40.79418182
23 11 2018 02:00 3068.63208 10.37567997 3004.417156 39.24742126
                 2790.167969 10.15557957 2885.104355 35.08448029
23 11 2018 02:10
23 11 2018 02:20 2699.685059 9.837124825 2686.600673 33.1251297
23 11 2018 02:30
                 2659.566895 10.00354004 2794.301134 32.47397995
23 11 2018 02:40
                 2542.104004 9.935716629 2751.480285 34.92581177
23 11 2018 02:50 2434.660889 9.609178543 2524.149173 38.14686966
23 11 2018 03:00 2214.554932 9.246983528 2304.271134 36.39542007
23 11 2018 03:10 1892.708008 8.459266663 1802.935401 32.64965057
23 11 2018 03:20 2657.793945 10.18381023 2901.195203 30.87265015
23 11 2018 03:30 2595.271973 10.50347042 3067.441086 39.58815002
23 11 2018 03:40 2660.283936 10.20009041 2910.367228 36.45888901
23 11 2018 03:50 2530.909912 9.877117157 2713.299212 35.21760178
23 11 2018 04:00 2366.288086 9.697145462 2588.951802 39.54449844
```

```
23 11 2018 04:10 1875.937012 8.851800919 2048.926617 41.55276108
23 11 2018 04:20
                 2080.52002 9.326090813 2355.966165 43.82223129
23 11 2018 04:30
                 2369.801025 9.436297417 2428.176654 43.93330002
23 11 2018 04:40 2410.830078 9.668633461 2568.243543 39.12969971
23 11 2018 04:50 2371.591064 9.586535454 2507.028084 35.26477051
23 11 2018 05:00 1971.396973 8.923774719 2094.97231 35.7527504
                 1745.687012 8.446192741 1794.918665 31.61803055
23 11 2018 05:10
23 11 2018 05:20
                 2049.893066 8.877644539 2065.431982 30.98771095
23 11 2018 05:30 1703.06897 8.415622711 1776.22415 32.50630951
23 11 2018 05:40
                 1473.884033 7.911497116 1479.729322 32.09209061
23 11 2018 05:50
                 1208.621948 7.559017181 1288.490402 37.29598999
23 11 2018 06:00 1651.259033 8.313493729 1714.303965 40.03892899
23 11 2018 06:10
                 1513.458984 8.101680756 1588.751639 42.04922104
23 11 2018 06:20 1390.165039 7.850278854 1445.45882 42.8061409
23 11 2018 06:30 1584.313965 8.186681747 1638.64473 42.54045105
23 11 2018 06:40 1394.297974 7.786661148 1410.296317 44.0202713
23 11 2018 06:50 1705.197021 8.374583244 1751.241315 42.83753967
23 11 2018 07:00 1959.500977 8.712079048 1960.291918 38.23598099
23 11 2018 07:10 1834.982056 8.454353333 1799.921116 35.88838959
23 11 2018 07:20 1743.692993 8.419537544 1778.614191 39.59191895
23 11 2018 07:30 1345.54895 7.596577168 1308.135889 39.79243088
23 11 2018 07:40 1473.338989 7.754772186 1392.848922 35.74877167
23 11 2018 07:50 1343.474976 7.541014194 1279.139988 43.31806946
23 11 2018 08:00
                 1247.786987 7.471990108 1243.478291 42.2577095
23 11 2018 08:10 1020.020996 6.912099838 976.9051619 39.33385086
23 11 2018 08:20 687.7800293 6.241991997 708.7142438 45.70692062
23 11 2018 08:30 587.8195801 6.060914993 644.7301468 42.87134171
23 11 2018 08:40 449.2329102 5.425292015 447.7633401 36.84518051
23 11 2018 08:50 464.5278931 5.572260857 490.0292354 44.21697998
23 11 2018 09:00 499.7974854 5.722199917 535.2493824 47.9529686
23 11 2018 09:10 484.4461975 5.663464069 517.2757207 44.01340103
23 11 2018 09:20 473.4419861 5.534855843 479.0829176 37.81320953
23 11 2018 09:30 455.5336914 5.544061184 481.7646463 34.87229156
23 11 2018 09:40 510.7298889 5.716207981 533.4002472 36.51660156
23 11 2018 09:50 440.4923096 5.574919224 490.8121908 42.2135582
23 11 2018 10:00 349.921814 5.253386021 400.7747241 47.43199921
23 11 2018 10:10 631.9343262 6.11358881 662.98094
                                                     40.53557968
23 11 2018 10:20 871.8569946 6.562469006 830.6438184 35.79101944
23 11 2018 10:30 1092.621948 7.158401966 1088.919273 37.55342865
23 11 2018 10:40 970.2310791 6.770965099 916.1342128 37.71384811
23 11 2018 10:50 1555.524048 7.826807022 1432.431181 36.73078918
23 11 2018 11:00 1690.506958 8.225645065 1661.73974 34.97719955
23 11 2018 11:10 1621.411011 7.987308979 1522.737454 32.66802979
23 11 2018 11:20
                 1910.517944 8.717993736 1964.022099 34.40847015
23 11 2018 11:30
                 1905.23999 8.757879257 1989.228821 31.07538033
                 1948.256958 8.671343803 1934.657887 29.50305939
23 11 2018 11:40
                 1614.991943 8.016478539 1539.447376 30.71759987
23 11 2018 11:50
                 2011.192017 9.091880798 2203.383519 32.77025986
23 11 2018 12:00
23 11 2018 12:10
                 1779.630981 8.391471863 1761.506217 31.06434059
23 11 2018 12:20
                 1581.618042 8.154165268 1619.477821 33.52254868
23 11 2018 12:30
                 1518.871948 8.076818466 1574.289601 36.48427963
23 11 2018 12:40
                 1440.935059 8.059502602 1564.253335 40.91252899
23 11 2018 12:50
                 1003.65802 6.922489166 981.4744453 39.10359955
23 11 2018 13:00
                 1045.828979 7.086065769 1055.207604 36.43186188
23 11 2018 13:10
                 1020.955017 7.052385807 1039.746298 37.78998947
23 11 2018 13:20 817.2050781 6.482976913 799.348186 36.92779922
23 11 2018 13:30 743.1124878 6.196105003 692.1679415 37.30459976
23 11 2018 13:40 910.3272095 6.71760416 893.7762374 33.64746094
23 11 2018 13:50 875.3671875 6.68951416 882.1402299 36.59740829
```

```
23 11 2018 14:00 942.9249878 6.628685951 857.2546848 37.83572006
                 1074.07605 7.045667171 1036.679619 36.93080139
23 11 2018 14:10
23 11 2018 14:20
                 1056.619019 6.956045151 996.324016 37.90579987
23 11 2018 14:30
                 1283.822021 7.575250149 1296.958252 43.4151001
23 11 2018 14:40
                 1208.650024 7.339193821 1176.300059 41.09439087
23 11 2018 14:50
                 1513.421997 7.971662998 1513.811225 41.47087097
23 11 2018 15:00
                 1335.510986 7.466691017 1240.746904 42.45318985
                 1393.369995 7.685173035 1355.194738 43.45029831
23 11 2018 15:10
23 11 2018 15:20
                 1485.005005 7.787353992 1410.676728 45.14743042
23 11 2018 15:30
                 1574.416016 8.120735168 1599.876162 41.56753922
23 11 2018 15:40
                 1336.644043 7.55237484 1285.035485 39.79109955
23 11 2018 15:50
                 1220.952026 7.445234776 1229.73115 41.50608826
23 11 2018 16:00
                 2096.644043 8.965333939 2121.667495 43.86128998
23 11 2018 16:10
                 1276.192993 7.381357193 1197.34606 46.58332062
23 11 2018 16:20
                 1289.291992 7.469948769 1242.425586 46.44226837
23 11 2018 16:30 1622.717041 8.10768795 1592.255015 45.88624954
23 11 2018 16:40
                 1408.959961 7.68013382 1352.491536 43.4367218
23 11 2018 16:50 1202.485962 7.172362804 1095.506075 44.59117889
23 11 2018 17:00 1825.813965 8.238817215 1669.578304 45.28380966
23 11 2018 17:10 1483.743042 7.700712204 1363.550279 47.74607086
23 11 2018 17:20 2298.543945 9.257113457 2310.883052 46.69282913
                 1768.17395 8.198012352 1645.346559 46.17097092
23 11 2018 17:30
23 11 2018 17:40
                 1776.706055 8.236634254 1668.278187 50.08692932
23 11 2018 17:50
                 1946.082031 8.580890656 1878.105615 44.21981812
23 11 2018 18:00
                 3000.488037 10.73472977 3170.515991 52.51874924
23 11 2018 18:10
                 2865.486084 10.1426897 2877.678454 56.68727112
23 11 2018 18:20
                 2653.993896 9.913072586 2736.857671 55.54944992
                 2053.345947 8.859384537 2053.766617 50.62208176
23 11 2018 18:30
23 11 2018 18:40 2654.653076 9.751293182 2627.509966 50.23165131
23 11 2018 18:50
                 2702.620117 10.01519966 2801.516569 52.57051849
23 11 2018 19:00 2635.707031 10.0323801 2812.071258 56.3012619
23 11 2018 19:10
                 2718.423096 9.648479462 2553.435311 52.03147125
23 11 2018 19:20
                 1876.985962 8.303544998 1708.31781 54.2064209
23 11 2018 19:30
                 2522.548096 9.468391418 2449.236943 58.68233871
                 1983.276001 8.618423462 1901.507872 62.32662964
23 11 2018 19:40
                 2053.516113 8.686397552 1944.1194
23 11 2018 19:50
                                                     61.54146957
                 2386.854004 9.365597725 2381.829953 63.06678009
23 11 2018 20:00
23 11 2018 20:10
                 2865.944092 9.512918472 2450.093668 49.23970032
23 11 2018 20:20
                 2940.037109 10.39377975 3013.61571 48.93193054
                 3057.018066 11.03919983 3286.107336 46.3128891
23 11 2018 20:30
23 11 2018 20:40 2606.957031 9.969716072 2773.128091 47.27513123
23 11 2018 20:50 3150.704102 10.99965954 3272.321781 57.28068924
23 11 2018 21:00 3158.933105 10.59899998 3111.69368 55.2572403
23 11 2018 21:10 2833.819092 10.39185047 3012.639549 59.13262177
23 11 2018 21:20
                 2315.083008 9.44447422 2433.541227 58.67319107
23 11 2018 21:30
                 2549.176025 9.936635971 2752.070487 61.44950104
                 3317.780029 11.47830009 3416.411177 63.5013504
23 11 2018 21:40
                 2399.128906 9.372511864 2386.359173 63.68569183
23 11 2018 21:50
                 3011.510986 10.6637001 3140.316607 66.31498718
23 11 2018 22:00
23 11 2018 22:10
                 3319.059082 11.56017017 3436.335762 69.44156647
23 11 2018 22:20
                 3281.716064 11.65244961 3457.244128 62.68579865
23 11 2018 22:30
                 3248.160889 11.70845985 3469.151274 62.02085876
23 11 2018 22:40
                 2868.434082 10.60134029 3112.747808 60.48643875
23 11 2018 22:50
                 2663.863037 9.9132061
                                         2736.944372 64.44682312
23 11 2018 23:00
                 2843.955078 10.57166004 3099.273727 68.19264984
23 11 2018 23:10 3556.51001 13.1178503 3600 68.55288696
23 11 2018 23:20 3575.979004 12.9925499 3597.923491 64.19686127
23 11 2018 23:30 3257.937988 11.17541981 3330.923885 63.23688126
23 11 2018 23:40 2982.509033 10.53038979 3080.154699 60.66930008
```

```
23 11 2018 23:50 3282.042969 11.43859005 3406.271784 64.24536896
                 3402.294922 11.62584019 3451.381176 63.92195129
24 11 2018 00:00
24 11 2018 00:10
                 2391.905029 9.514631271 2451.440621 64.39351654
24 11 2018 00:20 2172.144043 9.129847527 2228.012516 64.15677643
                 2382.39209 9.649521828 2554.204672 68.19846344
24 11 2018 00:30
24 11 2018 00:40
                 2702.449951 10.44046974 3036.926889 70.29612732
24 11 2018 00:50
                 2976.950928 10.65299988 3135.656868 68.50042725
                 2836.666992 10.70409966 3157.648444 71.67460632
24 11 2018 01:00
24 11 2018 01:10
                 2896.299072 10.70438957 3157.771336 68.96604156
24 11 2018 01:20
                 2280.236084 9.4575243
                                         2442.104608 69.22657776
24 11 2018 01:30
                 2285.332031 9.455411911 2440.718344 65.7454834
24 11 2018 01:40 2184.823975 9.085473061 2199.231578 62.85615921
24 11 2018 01:50 2040.30896 8.837219238 2039.628352 64.26480103
24 11 2018 02:00 2032.843018 8.939519882 2105.077199 64.08557892
24 11 2018 02:10 2357.769043 9.727106094 2610.410333 65.38353729
24 11 2018 02:20
                 1907.104004 8.834561348 2037.934651 62.99785995
24 11 2018 02:30
                 1795.792969 8.607628822 1894.767809 62.33267975
24 11 2018 02:40
                 1916.16394 8.7888937 2008.890454 61.13336182
24 11 2018 02:50
                 1977.677979 8.856277466 2051.783286 55.31666946
24 11 2018 03:00
                 1926.046997 8.853610992 2050.081581 55.09008026
24 11 2018 03:10
                 2318.855957 9.581531525 2503.219842 57.38042831
                 2357.36792 9.592834473 2511.80926 55.50371933
24 11 2018 03:20
24 11 2018 03:30
                 3064.975098 11.02567959 3281.433491 53.14374161
24 11 2018 03:40
                 2133.528076 9.147723198 2239.624487 52.89825058
24 11 2018 03:50
                 1749.979004 8.551740646 1859.994928 50.75318909
24 11 2018 04:00 1223.213989 7.23328495 1124.560005 50.39731979
24 11 2018 04:10 1747.094971 8.316652298 1716.206218 51.221241
24 11 2018 04:20
                 1704.501953 8.284934998 1697.14269 50.69385147
24 11 2018 04:30
                 1751.482056 8.336770058 1728.341688 51.88798904
                 1413.574951 7.866083145 1454.266025 53.27508926
24 11 2018 04:40
24 11 2018 04:50
                 1731.343994 8.405177116 1769.852836 56.2664299
24 11 2018 05:00
                 2125.137939 9.264567375 2315.749855 57.44380188
24 11 2018 05:10
                 1785.515991 8.523938179 1842.77582 59.47320175
24 11 2018 05:20 2121.575928 9.206887245 2278.124848 64.61956787
24 11 2018 05:30 2364.108887 9.630779266 2540.312823 66.07256317
24 11 2018 05:40
                 2727.856934 10.32654953 2978.987223 63.20084
24 11 2018 05:50
                 1867.406006 8.595067024 1886.933909 60.46532059
24 11 2018 06:00
                 1847.707031 8.582783699 1879.283729 60.80503082
24 11 2018 06:10 2016.282959 9.017337799 2155.173874 62.22901917
24 11 2018 06:20
                 1813.041992 8.517490387 1838.790192 59.58829117
24 11 2018 06:30 1342.550049 7.623242855 1322.194554 62.76229095
24 11 2018 06:40 1447.284058 7.872941971 1458.096984 61.22089005
24 11 2018 06:50
                 1789.540039 8.409435272 1772.449083 62.18867111
24 11 2018 07:00
                 1430.96106 7.774558067 1403.660164 64.65313721
24 11 2018 07:10
                 1388.218994 7.770048141 1401.191789 64.3106308
24 11 2018 07:20
                 1112.553955 7.197226048 1107.302089 67.59033966
24 11 2018 07:30
                 912.0272827 6.859354019 953.9116782 62.6991806
                 718.2078247 6.39022398 763.7154273 61.59775925
24 11 2018 07:40
24 11 2018 07:50 804.1353149 6.592621803 842.6999409 62.63906097
24 11 2018 08:00
                 896.9271851 6.774769783 917.7411511 59.32273102
24 11 2018 08:10
                 981.8292847 6.989788055 1011.398373 60.52368164
24 11 2018 08:20
                 1044.317993 7.170567036 1094.657346 62.96184158
24 11 2018 08:30
                 1187.10498 7.394293785 1203.855682 70.12294769
24 11 2018 08:40
                 1027.473999 7.089944839 1056.997857 68.95339203
24 11 2018 08:50 853.602417 6.673931122 875.724506 66.08799744
24 11 2018 09:00 667.0596924 6.206282139 695.818206 60.64101028
24 11 2018 09:10 932.5562134 6.933388233 986.2822704 66.61955261
24 11 2018 09:20 1104.817017 7.255839825 1135.446284 64.45774078
24 11 2018 09:30 978.1461792 6.99281311 1012.756804 66.0175705
```

```
24 11 2018 09:40 871.9608154 6.76355505 913.0094287 65.12354279
                 1095.741943 7.219847202 1118.107727 67.28781891
24 11 2018 09:50
24 11 2018 10:00
                 1444,416016 7,975375175 1515,926734 71,63757324
24 11 2018 10:10
                 1309.457031 7.684907913 1355.05244 70.25980377
24 11 2018 10:20
                 1283.073975 7.667841911 1345.911022 69.96996307
24 11 2018 10:30
                  982.1124268 6.946335793 992.0129068 67.24725342
24 11 2018 10:40
                  969.3054199 6.902962208 972.8973855 63.53458023
                 946.8942871 6.944616795 991.2508705 66.55387878
24 11 2018 10:50
24 11 2018 11:00
                 917.5656128 6.872193813 959.4776436 64.59863281
24 11 2018 11:10
                 720.0394287 6.337688923 743.9503131 65.91174316
24 11 2018 11:20
                  694.0285034 6.259901047 715.2333729 59.62535095
24 11 2018 11:30
                 776.2423706 6.576800823 836.3613944 59.2143898
24 11 2018 11:40
                 751.8530884 6.480706215 798.464545 59.99034882
24 11 2018 11:50
                 621.8242188 6.043268204 638.6820561 60.68243027
24 11 2018 12:00 492.1373901 5.669410229 519.0799264 62.3119812
24 11 2018 12:10
                 385.2755127 5.162299156 376.8948958 66.21125031
24 11 2018 12:20
                 545.7857056 5.832150936 569.8195227 66.36659241
24 11 2018 12:30
                 641.5955811 6.159850121 679.2544341 63.76811981
                 649.8696899 6.224709988 702.4560376 67.04260254
24 11 2018 12:40
24 11 2018 12:50
                  866.6290894 6.830965042 941.676115 68.15869904
24 11 2018 13:00
                 700.4199219 6.382843018 760.9203761 65.21985626
24 11 2018 13:10
                  394.6658936 5.308972836 415.6890033 60.87392044
24 11 2018 13:20
                  408.0960999 5.506120205 470.7622102 59.70209122
24 11 2018 13:30
                  379.4283142 5.35671711 428.7107409 62.47472
24 11 2018 13:40
                 290.6531067 4.963332176 327.0423633 64.31710815
24 11 2018 13:50
                 371.2727051 5.439757824 451.8359435 63.14363861
24 11 2018 14:00 295.813385 5.074398994 354.4895018 61.69543076
24 11 2018 14:10 319.7804871 5.257184982 401.7856722 59.96343994
24 11 2018 14:20 381.5512085 5.575836182 491.0824125 64.1723938
24 11 2018 14:30
                 301.0072937 5.195397854 385.4930388 62.26536179
24 11 2018 14:40
                 140.9393005 4.337394238 188.3518545 61.45238876
24 11 2018 14:50
                 190.7743073 4.667560101 258.3339044 60.37723923
24 11 2018 15:00
                  236.3011017 4.871673107 305.0884608 61.06299973
24 11 2018 15:10
                 134.9393005 4.24548912 169.9837183 61.73397064
                 176.3816071 4.576506138 238.3714499 59.01091003
24 11 2018 15:20
                  79.17115784 3.982888937 124.738099 56.85189819
24 11 2018 15:30
                  77.50773621 3.920002937 113.1525264 56.90597916
24 11 2018 15:40
24 11 2018 15:50
                 77.34797668 3.901391983 109.845144 61.57926941
24 11 2018 16:00
                 92.46520233 3.974723101 123.1979491 65.81414795
24 11 2018 16:10
                 204.7198029 4.67962122 261.018277 68.74973297
24 11 2018 16:20
                 272.3799133 5.08562088 357.3157368 74.32585907
24 11 2018 16:30
                 294.3800964 5.168290138 378.4445633 75.17771149
24 11 2018 16:40
                 314.2211914 5.468176842 459.8918162 76.87905121
24 11 2018 16:50
                 277.8851929 5.087303162 357.7402735 75.79666138
24 11 2018 17:00
                  243.2010956 4.919228077 316.4017307 77.18438721
                  225.1316986 4.960066795 326.2495961 75.33837128
24 11 2018 17:10
24 11 2018 17:20
                  31.96908951 3.075117111 18.85515399 82.04895782
                                          102.1432037
24 11 2018 17:30
                  0
                        2.095839977 0
24 11 2018 17:40
                  0
                        1.514263988 0
                                          121.9992981
24 11 2018 17:50
                  0
                        1.815153956 0
                                          143.8159943
24 11 2018 18:00
                  0
                        2.003500938 0
                                          147.1522064
24 11 2018 18:10
                  0
                        2.439640045 0
                                          142.0724945
24 11 2018 18:20
                        2.72941494 0
                                          141.042099
24 11 2018 18:30
                        3.045264006 17.6123546 146.2895966
                 0
24 11 2018 18:40
                                          157.552597
                 0
                        2.394659996 0
24 11 2018 18:50
                 0
                        2.03313899 0
                                          166.0019989
24 11 2018 19:00
                 0
                       1.523522973 0
                                          172.4550934
24 11 2018 19:10
                 0
                       1.66851604 0
                                          178.5263977
24 11 2018 19:20 0
                       2.043874025 0
                                          172.3795929
```

```
24 11 2018 19:30
                   0
                         2.408292055 0
                                            175.7846985
24 11 2018 19:40
                   0
                         2.342210054 0
                                            172.5917969
   11 2018 19:50
                         2.870704889 0
                                            195.7937927
24
                   0
24 11 2018 20:00
                   0
                         2.838712931 0
                                            223.8683929
24 11 2018 20:10
                   0
                         3.050380945 17.81524942 241.4703064
24 11 2018 20:20
                   0
                         2.518551111 0
                                            245.5021973
24 11 2018 20:30
                   0
                         1.736163974 0
                                            258.325592
24 11 2018 20:40
                   0
                         1.482131004 0
                                            255.4579926
24 11 2018 20:50
                   0
                         1.500226974 0
                                            228.8135071
24 11 2018 21:00
                   0
                         1.242620945 0
                                            208.8249054
24 11 2018 21:10
                   0
                         1.964725018 0
                                            181.4920959
24 11 2018 21:20
                   0
                         2.572577
                                      0
                                            178.3818054
24 11 2018 21:30
                         2.178987026 0
                                            188.5847015
24 11 2018 21:40
                   0
                         1.910593987 0
                                            187.7673035
24 11 2018 21:50
                         2.076329947 0
                                            216.4234924
                   0
24 11 2018 22:00
                   0
                         2.014087915 0
                                            246.6828003
24 11 2018 22:10
                   0
                         1.977305055 0
                                            256.2692871
24 11 2018 22:20
                   0
                         1.472584009 0
                                            269.8581848
24 11 2018 22:30
                   0
                         1.536769032 0
                                            256.4946899
24 11 2018 22:40
                   0
                         1.274260044 0
                                            268.3575134
24 11 2018 22:50
                         1.825667024 0
                                            285.3432922
                   0
24 11 2018 23:00
                   0
                         1.624541044 0
                                            269.9797058
24 11 2018 23:10
                   0
                         0.794267714 0
                                            311.0968018
24 11 2018 23:20
                   0
                         1.062868953 0
                                            342.7000122
24 11 2018 23:30
                   0
                         1.225831032 0
                                            237.747406
24 11 2018 23:40
                         1.530262947 0
                                            220.7404022
24 11 2018 23:50
                         1.820966959 0
                                            207.7536011
                   0
25 11 2018 00:00
                         1.879783988 0
                                            204.2891998
                   0
  11 2018 00:10
25
                   0
                         2.092123985 0
                                            204.0222015
  11 2018 00:20
25
                   0
                         1.841649055 0
                                            216.8856049
25 11 2018 00:30
                   0
                         0.999789417 0
                                            259.1568909
                   0
25 11 2018 00:40
                         2.341048956 0
                                            225.1526031
25 11 2018 00:50
                   0
                         2.537389994 0
                                            220.6683044
25 11 2018 01:00
                         2.743937016 0
                                            211.5659027
                   0
25 11 2018 01:10
                                            206.6703033
                   0
                         1.931828976 0
25
  11 2018 01:20
                   0
                         1.419425011 0
                                            226.3923035
25 11 2018 01:30
                   0
                         1.457978964 0
                                            233.4537964
                         1.831590056 0
                                            221.8148041
25 11 2018 01:40
                   0
25 11 2018 01:50
                         1.78985405
                                            226.1634979
25 11 2018 02:00
                         1.599225998 0
                                            226.5135956
25 11 2018 02:10
                         2.018841028 0
                                            212.7960968
                   0
25 11 2018 02:20
                   0
                         2.388693094 0
                                            219.6159973
25
   11 2018 02:30
                                            217.4409027
                   0
                         2.289788961 0
25
  11 2018 02:40
                   0
                         2.175798893 0
                                            236.6289063
25 11 2018 02:50
                   0
                         2.11600399
                                      0
                                            235.122406
25 11 2018 03:00
                   0
                         1.87569499
                                            230.4990997
25 11 2018 03:10
                   0
                         2.164670944 0
                                            228.5142975
                                            222.7203979
25 11 2018 03:20
                   0
                         2.718204021 0
25 11 2018 03:30
                   0
                         1.755761981 0
                                            222.1293945
25
  11 2018 03:40
                   0
                         0.720349371 0
                                            231.436203
25 11 2018 03:50
                   0
                         1.132025003 0
                                            244.1972961
25 11 2018 04:00
                   0
                         1.520148993 0
                                            224.8027039
25 11 2018 04:10
                         1.354321003 0
                                            224.5986023
25 11 2018 04:20
                         1.143762946 0
                                            244.3760986
                   0
25 11 2018 04:30
                         1.793982983 0
                                            236.0625
                   0
25
   11 2018 04:40
                   0
                         1.871808052 0
                                            234.5971985
25
  11 2018 04:50
                   0
                         1.779608011 0
                                            233.8583984
25 11 2018 05:00
                   0
                         1.68077004
                                      0
                                            230.4568939
25 11 2018 05:10
                         1.340033054 0
                                            232.0550995
```

```
25 11 2018 05:20
                        0.824082196 0
                                          247.3025055
                  0
25 11 2018 05:30
                  0
                        0.943678021 0
                                          279.0307007
25 11 2018 05:40
                        0.777195871 0
                                          269.114502
                  0
25 11 2018 05:50
                  0
                        1.192883015 0
                                          234.6304016
25 11 2018 06:00
                  0
                        1.774294972 0
                                          231.8674927
25 11 2018 06:10
                        1.889358044 0
                                          222.4311981
25 11 2018 06:20
                  0
                        1.42109704 0
                                          229.1988068
                        1.751911998 0
25 11 2018 06:30
                  0
                                          224.3276062
25 11 2018 06:40
                  0
                        1.445001006 0
                                          227.5939941
25 11 2018 06:50
                  0
                        1.289952993 0
                                          239.5767975
25 11 2018 07:00
                        1.29113102 0
                  0
                                          207.6732025
25 11 2018 07:10
                        1.817306995 0
                                          205.8625946
25 11 2018 07:20
                        2.157792091 0
                                          200.3961945
25 11 2018 07:30
                        1.904021025 0
                                          205.4311981
25 11 2018 07:40
                        1.559265018 0
                                          224.7400055
                  0
25 11 2018 07:50
                  0
                        1.084622979 0
                                          226.7236023
25 11 2018 08:00
                  0
                        1.65347898 0
                                          204.4230957
25 11 2018 08:10
                  0
                        2.345292091 0
                                          192.8934937
25 11 2018 08:20
                        2.404584885 0
                                          196.0690002
25 11 2018 08:30
                  0
                        2.247049093 0
                                          203.5325012
25 11 2018 08:40
                        2.340553999 0
                                          197.8914032
                  0
25 11 2018 08:50
                        2.425746918 0
                  0
                                          195.0569
25 11 2018 09:00
                  0
                        2.014028072 0
                                          207.309494
25 11 2018 09:10
                  0
                        2.528440952 0
                                          196.0735016
25 11 2018 09:20
                        2.650259018 0
                                          204.8052063
25 11 2018 09:30
                        2.256810904 0
                                          162.8231964
25 11 2018 09:40
                        1.580378056 0
                                          140.5569
                  0
25 11 2018 09:50
                                          226.1813965
                        2.073052883 0
                  0
25 11 2018 10:00
                  0
                        2.486174107 0
                                          216.0516968
25 11 2018 10:10
                  0
                        2.44272995 0
                                          214.4311981
25 11 2018 10:20
                  0
                        2.464409113 0
                                          211.3648987
25 11 2018 10:30
                  0
                        3.283921957 31.53443684 209.5520935
25 11 2018 10:40
                  11.64873028 3.264153957 30.03511169 209.2626038
25 11 2018 10:50
                  52.92646027 3.608850002 65.1390661 205.732605
                  120.1641006 4.106688976 143.0654084 193.5623016
25 11 2018 11:00
                  25.63011932 3.137276888 21.90045593 190.618103
25 11 2018 11:10
25 11 2018 11:20
                  51.03982162 3.501442909 52.16177239 184.6956024
                  60.72684097 3.494586945 51.39608189 189.7812042
25 11 2018 11:30
25 11 2018 11:40
                  233.7261963 4.679362774 260.9606561 189.5175018
25 11 2018 11:50
                  303.7192993 5.067348003 352.71876
                                                       192,7920074
25 11 2018 12:00
                 488.4639893 5.758811951 546.6255558 201.6840057
                 473.3511963 5.622389793 504.9063447 198.9411926
25 11 2018 12:10
25 11 2018 12:20
                  237.5547028 4.392111778 199.5059128 202.8206024
25 11 2018 12:30
                  261.3044128 4.410871029 203.3686554 199.1448059
25 11 2018 12:40
                  341.3013
                              4.932529926 319.5957924 196.9064941
25 11 2018 12:50
                  210.1629028 4.511844158 224.5109254 193.0146027
                  80.20404816 3.702248096 77.92413021 192.7931976
25 11 2018 13:00
25 11 2018 13:10
                  141.851593 4.172064781 155.6250884 189.0509949
                  115.8878021 4.078680992 137.7471784 186.9745941
25 11 2018 13:20
25 11 2018 13:30
                  85.35941315 3.741756916 83.75248711 178.8200989
25 11 2018 13:40
                  75.92188263 3.508593082 52.96833252 183.0800934
25 11 2018 13:50
                  283.8837891 5.095265865 359.7527512 181.3690033
25 11 2018 14:00
                  619.6317139 6.383605957 761.2090137 181.2528076
25 11 2018 14:10
                  562.40448
                              6.215294838 699.0600886 184.517395
25 11 2018 14:20
                  450.565094 5.821773052 566.5042062 184.4515076
25 11 2018 14:30
                  605.6137085 6.171383858 683.3473378 186.4582977
25 11 2018 14:40
                  1155.96106 7.385678768 1199.517905 188.9219055
25 11 2018 14:50 1457.026978 7.806019783 1420.946494 190.5354004
25 11 2018 15:00 1743.628052 8.437855721 1789.813251 193.7725983
```

```
1804.910034 8.626614571 1906.62733 193.0865936
25 11 2018 15:10
                 2018.857056 9.207438469 2278.484012 194.0807953
25 11 2018 15:20
25 11 2018 15:30
                 2832.239014 10.86340046 3222.050351 196.3065033
25 11 2018 15:40 3156.754883 11.55109978 3434.192604 197.9568939
25 11 2018 15:50 3076.948975 11.48787022 3418.808021 199.8863068
25 11 2018 16:00 3023.790039 10.91287994 3240.807537 196.0904999
25 11 2018 16:10 2693.562012 10.29885006 2964.349827 195.9938965
                 2291.087891 9.688467979 2582.679125 195.3291931
25 11 2018 16:20
25 11 2018 16:30
                 3004.606934 11.15802002 3325.426666 198.194397
                                         3552.650149 197.4461975
25 11 2018 16:40
                 3341.513916 12.22472
25 11 2018 16:50
                 3153.488037 11.72644043 3472.850195 194.5104065
25 11 2018 17:00 3082.379883 11.09601974 3305.300407 193.6678925
25 11 2018 17:10 2616.516113 10.15353966 2883.932463 192.5825043
25 11 2018 17:20 2434.523926 10.29288006 2961.166465 197.7028046
25 11 2018 17:30 2703.138916 10.87858963 3227.870109 201.3430939
25 11 2018 17:40 2915.687012 11.46067047 3411.948394 204.2749939
25 11 2018 17:50 3112.052979 11.98163033 3519.064583 205.2940063
25 11 2018 18:00 3292.958008 12.00265026 3522.361514 203.7337036
25 11 2018 18:10 3489.168945 12.34167957 3565.360291 202.7277985
25 11 2018 18:20 3549.822998 12.2032299 3550.075308 201.3762054
25 11 2018 18:30 3530.352051 12.40019035 3570.904267 202.0146942
25 11 2018 18:40
                 3583.750977 12.41623974 3572.331336 199.9476929
25 11 2018 18:50
                 3597.897949 12.56221962 3583.488201 198.2230988
25 11 2018 19:00
                 3569.89502 12.0665102 3531.91575 200.5343018
25 11 2018 19:10
                 3569.444092 12.19443035 3548.999294 201.4055023
25 11 2018 19:20
                 3602.433105 12.36983967 3568.095591 201.1396942
25 11 2018 19:30 3594.044922 12.51671982 3580.360487 205.0881042
25 11 2018 19:40 3602.056885 12.78773022 3594.41993 207.247406
                 3602.314941 12.58401966 3584.87573 206.7391968
25 11 2018 19:50
25 11 2018 20:00
                 3602.969971 12.58294964 3584.809297 208.7431946
25 11 2018 20:10 3591.875
                           12.90534019 3597.167064 212.486496
                 3397.173096 12.29448032 3560.494308 211.822998
25 11 2018 20:20
25 11 2018 20:30
                 3207.958984 11.64766979 3456.20081 208.1927948
25 11 2018 20:40 3434.332031 12.31348038 3562.49566 204.3943024
25 11 2018 20:50 3600.739014 12.76194954 3593.54992 203.8759003
                 3416.358887 12.31523991 3562.678092 204.2207947
25 11 2018 21:00
25 11 2018 21:10
                 3561.964111 13.00477028 3600 202.5144958
25 11 2018 21:20
                 3602.909912 13.6160202 3600 203.4850006
25 11 2018 21:30
                 3602.909912 14.06978989 3600 203.191803
25 11 2018 21:40
                 3602.794922 13.10900021 3600 199.6970062
25 11 2018 21:50 3602.302002 12.89904976 3597.07054 197.0059052
25 11 2018 22:00 3602.810059 13.14719963 3600 195.6080933
25 11 2018 22:10
                 3602.840088 13.07446003 3600 194.0982971
25 11 2018 22:20
                 3603.051025 13.2126503 3600 194.604599
25 11 2018 22:30
                 3602.978027 13.16783047 3600 193.0550995
25 11 2018 22:40
                 3602.881104 13.51807976 3600 190.338501
25 11 2018 22:50
                 3603.103027 13.74650002 3600 191.3739014
                 3602.99292 13.65635967 3600 193.5298004
25 11 2018 23:00
25 11 2018 23:10
                 3602.871094 14.27136993 3600
                                              200.6526947
25 11 2018 23:20
                 3602.968018 13.94874954 3600
                                               202.8733063
25 11 2018 23:30
                 3594.503906 13.28960037 3600
                                              206.0982971
25 11 2018 23:40
                 3602.743896 14.37209034 3600
                                              206.095993
25 11 2018 23:50
                 3602.677002 15.37948036 3600
                                              197.576004
26 11 2018 00:00
                 3602.477051 15.13918018 3600
                                              200.7115021
26 11 2018 00:10
                 3602.454102 15.43986988 3600
                                              202.3668976
26 11 2018 00:20
                 3602.568115 16.24270058 3600 196.2109985
26 11 2018 00:30
                 3602.487061 16.3172493 3600 197.276001
26 11 2018 00:40 3602.540039 16.39274979 3600 195.300705
26 11 2018 00:50 3602.320068 16.33369064 3600 197.4333038
```

```
26 11 2018 01:00
                 3602.368896 16.47639084 3600
                                               198.2924042
                 3602.740967 16.17847061 3600
26 11 2018 01:10
                                               196.6855927
26 11 2018 01:20
                 3602.25293 17.07955933 3600
                                               199.6291046
26 11 2018 01:30
                 3602.663086 18.0377903 3600
                                               199.050293
                 3602.656006 18.71772003 3600
26 11 2018 01:40
                                               199.2279053
26 11 2018 01:50
                 3602.650879 19.56010056 3600
                                               200.1074066
26 11 2018 02:00
                 3602.479004 19.19915009 3600
                                               201.0543976
                 3602.200928 18.75914955 3600
26 11 2018 02:10
                                               199.6197968
26 11 2018 02:20
                 3602.638916 18.42292976 3600
                                               196.4470978
                 3602.483887 18.64748001 3600
                                               195.7310028
26 11 2018 02:30
                 3602.096924 18.72083092 3600
26 11 2018 02:40
                                               195.3262024
26 11 2018 02:50
                 3602.306885 18.2430191 3600
                                               193.3392944
26 11 2018 03:00
                 3602.449951 17.95038986 3600
                                               196.2422943
26 11 2018 03:10
                 3602.542969 17.58797073 3600
                                               196.8368988
26 11 2018 03:20
                 3602.612061 17.57926941 3600
                                               198.0569
26 11 2018 03:30
                 3602.665039 17.26313019 3600
                                               196.1362
26 11 2018 03:40
                 3602.513916 17.50760078 3600
                                               194.9297943
26 11 2018 03:50
                 3602.708984 17.86972046 3600 190.3959045
                 3602.238037 18.44014931 3600 189.0785065
26 11 2018 04:00
26 11 2018 04:10
                 3602.037109 19.02518082 3600
                                               191.9541016
26 11 2018 04:20
                 3602.313965 18.95330048 3600
                                               194.7198944
26 11 2018 04:30
                 3602.184082 19.26670074 3600
                                               195.7554932
26 11 2018 04:40
                 3602.22998 19.40612984 3600
                                               194.7689056
26 11 2018 04:50
                 3602.178955 19.39435005 3600
                                               196.1277008
26 11 2018 05:00
                 3602.345947 18.19495964 3600
                                               194.1197968
26 11 2018 05:10
                 3602.417969 18.43681908 3600
                                               192.152298
26 11 2018 05:20
                 3602.308105 17.94960976 3600
                                               191.9745026
26 11 2018 05:30
                 3602.14502 17.1449604 3600
                                               188.3108063
26 11 2018 05:40
                 3602.312988 18.04809952 3600
                                               191.120697
26 11 2018 05:50
                 3601.73999 18.51659966 3600
                                               192.0641022
26 11 2018 06:00
                 3601.913086 19.17803955 3600 191.1188965
26 11 2018 06:10
                 3602.086914 18.32681084 3600 188.4886017
26 11 2018 06:20
                 3601.74707 18.08672905 3600
                                               189.864502
26 11 2018 06:30
                 3602.251953 19.00252914 3600
                                               190.6773071
                 3601.87793 18.53960991 3600
26 11 2018 06:40
                                               190.8078003
26 11 2018 06:50
                 3601.726074 17.24262047 3600
                                               188.0794067
26 11 2018 07:00
                 3601.604004 16.41828918 3600
                                               186.6179962
26 11 2018 07:10
                 3601.658936 18.14625931 3600
                                               190.5520935
26 11 2018 07:20
                 3601.675049 19.35025024 3600
                                               194.6217041
                 3602.509033 16.97257042 3600
26 11 2018 07:30
                                               194.496994
26 11 2018 07:40
                 3582.444092 13.52052975 3600
                                               187.9109955
26 11 2018 07:50
                 3599.226074 14.10486984 3600
                                               190.4051971
26 11 2018 08:00
                 3602.656006 16.27753067 3600
                                               190.4709015
26 11 2018 08:10
                 3602.663086 16.00457954 3600
                                               191.3585968
26 11 2018 08:20
                 3602.697998 15.74009037 3600 189.1943054
26 11 2018 08:30
                 3602.87207 15.29950047 3600 189.5807037
26 11 2018 08:40
                 3603.00293 16.24682045 3600
                                               190.2716064
                 3602.823975 16.22735023 3600
                                               191.2183075
26 11 2018 08:50
                 3602.448975 16.28136063 3600
                                               188.3903046
26 11 2018 09:00
26 11 2018 09:10
                 3602.394043 16.2656498 3600
                                               184.6804047
26 11 2018 09:20
                 3602.49707 16.23389053 3600
                                               184.2512054
26 11 2018 09:30
                 3602.613037 17.0033493 3600
                                               183.2342987
26 11 2018 09:40
                 3602.524902 16.44585991 3600
                                               182.3963013
26 11 2018 09:50
                 3602.028076 17.60656929 3600
                                               184.9111023
26 11 2018 10:00
                 3601.89502 17.24357033 3600
                                               186.0715942
26 11 2018 10:10
                 3601.293945 17.63180923 3600
                                               184.4833069
26 11 2018 10:20
                 3601.246094 17.91021919 3600 183.6417999
26 11 2018 10:30 3601.396973 17.9546299 3600 187.418396
26 11 2018 10:40 3601.61499 18.30429077 3600 189.4328003
```

```
26 11 2018 10:50
                 3601.628906 17.68712044 3600
                                                188.3003998
26 11 2018 11:00
                  3601.914063 18.72146034 3600
                                                184.7315979
                  3601,698975 19,52289963 3600
26 11 2018 11:10
                                                186.7192993
26 11 2018 11:20
                  3601.644043 19.61812973 3600
                                                189,1932983
26 11 2018 11:30
                  3602.038086 18.49653053 3600
                                                193.4037933
26 11 2018 11:40
                  3601.624023 19.23167992 3600
                                                189.9270935
26 11 2018 11:50
                  3601.314941 18.97739983 3600
                                                188.6981964
26 11 2018 12:00
                  3601.446045 18.61923027 3600
                                                190.1186981
26 11 2018 12:10
                  3601.633057 18.6619091 3600
                                                191.4712067
                  3601.290039 18.72913933 3600
                                                190.8733978
26 11 2018 12:20
26 11 2018 12:30
                  3601.544922 19.59686089 3600
                                                192.0279999
26 11 2018 12:40
                  3601.850098 17.30385971 3600
                                                189.3134003
26 11 2018 12:50
                  3601.177979 18.04359055 3600
                                                190.5092926
26 11 2018 13:00
                  3602.013916 17.21072006 3600
                                                188.2344055
26 11 2018 13:10
                  3601.895996 17.63264084 3600
                                                189.1641998
26 11 2018 13:20
                  3601.998047 17.4770298 3600
                                                190.8775024
26 11 2018 13:30
                  3602.031006 17.37982941 3600
                                                194.3184052
26 11 2018 13:40
                 3601.906982 17.82069969 3600
                                                196.524704
26 11 2018 13:50
                  3602.095947 17.30872917 3600
                                                196.5045013
26 11 2018 14:00
                  3602.024902 16.66682053 3600
                                                192.8173065
                  3601.927002 16.85897064 3600
26 11 2018 14:10
                                                187.7926941
26 11 2018 14:20
                  3602.023926 15.97721004 3600
                                                185.9217987
26 11 2018 14:30
                  3601.926025 17.17057991 3600
                                                187.298996
26 11 2018 14:40
                  3602.004883 17.85928917 3600
                                                190.0673065
                  3601.770996 17.95125008 3600
26 11 2018 14:50
                                                191.2015991
26 11 2018 15:00
                  3601.689941 18.7532692 3600
                                                191.0236053
26 11 2018 15:10
                  3601.707031 18.13842964 3600
                                                190.8419037
26 11 2018 15:20
                  3601.854004 18.03125
                                          3600
                                                191.2086029
26 11 2018 15:30
                  3601.569092 18.41135025 3600
                                                193.0599976
                  3601.364014 19.47369003 3600
26 11 2018 15:40
                                                192.8567047
26 11 2018 15:50
                  3601.440918 19.36203003 3600
                                                190.9286041
26 11 2018 16:00
                  3601.487061 19.09762955 3600
                                                191.1656036
26 11 2018 16:10
                  3601.728027 18.55825996 3600
                                                190.6912994
                                                192.1804047
26 11 2018 16:20
                  3601,4729
                              19.00337982 3600
                  3601.329102 18.89539909 3600
                                                192.7911987
26 11 2018 16:30
26 11 2018 16:40
                  3600.987061 19.12542915 3600
                                                192.3020935
26 11 2018 16:50
                  3600.762939 19.56905937 3600
                                                192.6708984
26 11 2018 17:00
                  3601.208008 20.39746094 3600
                                                192.487793
26 11 2018 17:10
                  3600.876953 19.39512062 3600
                                                191.0034027
26 11 2018 17:20
                  3601.013916 19.39543915 3600
                                                190.0749054
26 11 2018 17:30
                  3600.945068 20.10104942 3600
                                                190.6486053
                  3600.689941 19.32984924 3600
26 11 2018 17:40
                                                191.2734985
26 11 2018 17:50
                  3600.906006 19.73936081 3600
                                                194.1300964
26 11 2018 18:00
                  3601.281982 20.40859985 3600
                                                194.8674011
26 11 2018 18:10
                  3601.210938 19.44953918 3600
                                                194.2850952
26 11 2018 18:20
                  3601.331055 20.24720955 3600
                                                196.6824951
26 11 2018 18:30
                  3601.822998 19.92358017 3600
                                                196.3538055
26 11 2018 18:40
                  3601.959961 19.52165985 3600
                                                198.0316925
26 11 2018 18:50
                  3601.452881 19.55096054 3600
                                                198.8314972
26 11 2018 19:00
                  3601.306885 19.4744091 3600
                                                200.928299
                  3601.586914 19.18239021 3600
26 11 2018 19:10
                                                201.2682037
26 11 2018 19:20
                  3601.741943 18.14356041 3600
                                                200.4806061
26 11 2018 19:30
                  3601.620117 17.78322983 3600
                                                197.4714966
26 11 2018 19:40
                  3601.687988 16.7510891 3600
                                                195.7949982
26 11 2018 19:50
                  3601.960938 17.00320053 3600
                                                197.0287018
26 11 2018 20:00
                  3601.841064 17.69496918 3600
                                                197.3399963
26 11 2018 20:10
                  3602.040039 17.47159958 3600
                                                192.3553925
26 11 2018 20:20
                  3602.185059 17.44417
                                          3600
                                                195.0326996
26 11 2018 20:30
                 3601.787109 17.0175705 3600
                                                194.844696
```

```
26 11 2018 20:40
                 3601.858887 18.17110062 3600
                                               198.7357941
26 11 2018 20:50
                 3601.563965 17.56640053 3600
                                               199.136795
26 11 2018 21:00
                             17.83260918 3600
                                               202.7574005
                 3601.875
26 11 2018 21:10
                 3601.852051 17.31777
                                         3600
                                               201.9680023
                 3602.155029 17.00378036 3600 200.1159058
26 11 2018 21:20
26 11 2018 21:30
                 3601.685059 18.03212929 3600
                                               199.2342987
26 11 2018 21:40
                 3601.541016 18.1008091 3600
                                               196.3639984
                 3601.298096 18.08245087 3600
26 11 2018 21:50
                                               199.1660004
26 11 2018 22:00
                 3601.443115 19.37542915 3600
                                               200.8912048
                 3601.333008 18.74439049 3600
                                               199.6526947
26 11 2018 22:10
26 11 2018 22:20
                 3601.680908 18.64015007 3600
                                               199.5238953
26 11 2018 22:30
                 3601.302979 18.7682209 3600
                                               200.6921997
26 11 2018 22:40
                 3600.771973 17.59033966 3600
                                               198.8591003
26 11 2018 22:50
                 3600.917969 17.59275055 3600
                                               200.9246979
26 11 2018 23:00
                 3601.2229
                             18.00445938 3600
                                               205.7106018
26 11 2018 23:10
                 3601.513916 17.88319016 3600
                                               208.3589935
26 11 2018 23:20
                 3601.221924 18.33077049 3600
                                               205.7805939
26 11 2018 23:30
                 3600.981934 19.12947083 3600
                                               206.6616058
                 3600.864014 19.05112076 3600
                                               205.4920959
26 11 2018 23:40
26 11 2018 23:50
                                               205.4897003
                 3600.677979 19.65278053 3600
                 3600.916992 18.95858002 3600
                                               205.1970978
27 11 2018 00:00
27 11 2018 00:10
                 3600.969971 18.37920952 3600
                                               204.6963043
27 11 2018 00:20
                 3601.745117 17.63884926 3600
                                               203.2288055
27 11 2018 00:30
                 3600.554932 17.00868034 3600
                                               203.1423035
27 11 2018 00:40
                 3600.727051 17.57822037 3600
                                               203.7042999
27 11 2018 00:50
                 3600.804932 19.20293999 3600
                                               208.1504974
27 11 2018 01:00
                 3600.798096 18.64139938 3600
                                               207.8493042
27 11 2018 01:10
                 3600.958984 19.25530052 3600
                                               207.6408997
27 11 2018 01:20
                 3601.065918 18.41978073 3600
                                               207.6526031
                 3601.037109 18.01984978 3600
27 11 2018 01:30
                                               205.9033051
27 11 2018 01:40
                 3601.125
                             17.60187912 3600 206.5679016
27 11 2018 01:50
                 3601.191895 17.41090965 3600 206.472702
27 11 2018 02:00
                 3600.936035 18.0897007 3600
                                               204.8139954
27 11 2018 02:10
                 3600.718994 19.18647957 3600
                                               204.8153992
                 3600.813965 18.63582993 3600
27 11 2018 02:20
                                               204.741806
27 11 2018 02:30
                 3601.13501 18.31299019 3600
                                               203.9931946
27 11 2018 02:40
                 3601.00293 17.46862984 3600
                                               202.9541931
27 11 2018 02:50
                 3601.165039 17.73012924 3600
                                               202.8959961
                 3601.083008 18.24500084 3600
27 11 2018 03:00
                                               204.065506
27 11 2018 03:10
                 3600.837891 18.85858917 3600
                                               205.8130951
27 11 2018 03:20
                 3601.104004 18.31444931 3600
                                               206.7689972
27 11 2018 03:30
                 3600.987061 18.91625023 3600
                                               205.6902008
27 11 2018 03:40
                 3600.353027 19.7360096 3600
                                               206.7812958
27 11 2018 03:50
                 3599.978027 19.58517075 3600
                                               204.1694031
27 11 2018 04:00
                 3600.481934 19.51333046 3600
                                               206.0314026
27 11 2018 04:10
                 3600.965088 18.96961975 3600
                                               204.0164032
27 11 2018 04:20
                 3600.891113 19.53144073 3600
                                               203.5182037
                 3600.905029 19.55069923 3600
                                               204.876297
27 11 2018 04:30
                                               204.1548004
27 11 2018 04:40
                 3601.310059 19.03799057 3600
27 11 2018 04:50
                 3601.033936 19.91463089 3600
                                               204.2993011
                 3601.316895 19.03862953 3600
27 11 2018 05:00
                                               203.9812927
27 11 2018 05:10
                 3601.589111 18.48505974 3600
                                               203.6719971
27 11 2018 05:20
                 3601.669922 18.84898949 3600
                                               203.233902
27 11 2018 05:30
                 3601.808105 18.31650925 3600
                                               202.8312988
27 11 2018 05:40
                 3602.297119 18.39145088 3600
                                               201.3144073
27 11 2018 05:50
                 3601.955078 17.35082054 3600
                                               200.397995
27 11 2018 06:00
                 3601.530029 17.31184959 3600 200.9779968
27 11 2018 06:10
                 3601.895996 19.07311058 3600 204.2144012
27 11 2018 06:20 3601.969971 18.8406601 3600 204.7848053
```

```
27 11 2018 06:30 3601.9021
                             18.57398987 3600
                                              205.5556946
27 11 2018 06:40 3602.25293 16.53614044 3600 203.2451935
27 11 2018 06:50 3602.584961 16.11992073 3600 200.076004
27 11 2018 07:00 3597.270996 15.12625027 3600 199.6958008
27 11 2018 07:10 3602.543945 16.98679924 3600 201.3177032
27 11 2018 07:20 3602.210938 18.67930984 3600 200.6961975
27 11 2018 07:30
                 3602.294922 17.60066986 3600 199.3271027
27 11 2018 07:40 3602.696045 17.84056091 3600 200.9922028
27 11 2018 07:50 3602.938965 17.87615967 3600 198.4597931
27 11 2018 08:00
                 3603.108887 17.2861805 3600
                                              197.7893982
27 11 2018 08:10 3587.083008 14.5114603 3600
                                              196.7283936
27 11 2018 08:20 3603.118896 15.63978004 3600 197.153595
27 11 2018 08:30 3603.268066 15.95635033 3600 198.5671997
27 11 2018 08:40 3603.349121 14.66036987 3600 198.8292999
27 11 2018 08:50 3599.250977 14.50594997 3600 195.6867981
27 11 2018 09:00 3475.695068 12.77534962 3594.014222 197.8343964
27 11 2018 09:10 3597.5
                             14.98604012 3600 200.1132965
27 11 2018 09:20 3580.770996 14.31665993 3600 199.2147064
27 11 2018 09:30 3573.554932 13.79701996 3600 199.1884003
27 11 2018 09:40 3603.091064 15.32390976 3600 197.1038055
27 11 2018 09:50
                 3601.12793 13.89591026 3600 196.4317017
27 11 2018 10:00 3550.784912 13.23983002 3600 196.0970001
27 11 2018 10:10
                 3087.3479
                             11.19808006 3337.984871 201.6728058
27 11 2018 10:20 3468.594971 13.14138985 3600 201.3571014
27 11 2018 10:30 3563.552979 13.11793995 3600 197.017807
27 11 2018 10:40 3554.305908 12.97966003 3597.879814 197.9322968
27 11 2018 10:50 3600.605957 13.46331024 3600 196.7221985
27 11 2018 11:00 3597.531006 14.12897968 3600 195.7924042
27 11 2018 11:10 3581.506104 14.0890398 3600 197.0207977
27 11 2018 11:20 3596.840088 14.32518959 3600 197.6251068
27 11 2018 11:30 3602.48999 14.69478989 3600 195.7796021
27 11 2018 11:40 3599.385986 14.36192989 3600 195.1795959
27 11 2018 11:50 3581.690918 14.25469017 3600 195.289093
27 11 2018 12:00 3426.106934 12.16495037 3545.302183 189.9994049
27 11 2018 12:10 3205.851074 11.38675022 3392.560083 190.9671936
27 11 2018 12:20 3502.14209 12.35359001 3566.532441 195.0095978
                 3193.729004 11.98820019 3520.103198 194.4613037
27 11 2018 12:30
27 11 2018 12:40 3390.202881 12.67700958 3589.994309 194.8845978
27 11 2018 12:50 3364.996094 12.2438097 3554.874571 193.9510956
27 11 2018 13:00 3505.798096 13.38708019 3600 194.558197
27 11 2018 13:10 3412.186035 12.36878967 3567.99584 188.394104
27 11 2018 13:20 3292.964111 11.86324024 3499.063769 185.9902954
27 11 2018 13:30 2541.38208 9.931246758 2748.606852 186.0556946
27 11 2018 13:40 3196.49292 11.38749027 3392.759648 185.5467987
27 11 2018 13:50 2717.9021 10.27268028 2950.319776 187.2711029
27 11 2018 14:00 2002.63501 9.043203354 2171.878925 188.0973969
                 1383.506958 7.598964214 1309.390642 187.7886963
27 11 2018 14:10
27 11 2018 14:20
                 1453.53894 7.794282913 1414.484204 186.8128052
27 11 2018 14:30 1272.907959 7.31394577 1163.820827 188.2257996
27 11 2018 14:40
                 1822.052002 8.403043747 1768.552627 189.0617981
27 11 2018 14:50
                 3026.644043 10.98171043 3265.946245 186.1786041
27 11 2018 15:00 3478.449951 12.10023022 3536.682954 185.6313934
27 11 2018 15:10 3600.476074 13.52927017 3600 186.2424927
27 11 2018 15:20 3557.823975 12.80428982 3594.927716 187.5301971
27 11 2018 15:30 3352.434082 11.73587036 3474.76628 190.0852966
27 11 2018 15:40 2690.081055 10.13123989 2871.04042 189.2919006
27 11 2018 15:50 3093.568115 10.88667011 3230.943828 186.9080048
27 11 2018 16:00 3541.676025 12.00407028 3522.581511 179.8919983
27 11 2018 16:10 3592.230957 13.07406998 3600 179.574295
```

```
27 11 2018 16:20 3602.975098 14.19412041 3600 183.0516968
                 3603.145996 14.42333031 3600 181.8937988
27 11 2018 16:30
27 11 2018 16:40
                             14.05408001 3600
                 3602.75
                                              181.951004
27 11 2018 16:50 3590.889893 14.18297005 3600 184.8199005
27 11 2018 17:00 3603.25708 14.14190006 3600 185.0307007
27 11 2018 17:10 3545.577881 12.58014965 3584.634643 181.7174072
27 11 2018 17:20
                 3596.173096 13.5761404 3600 184.9290009
                 3573.569092 12.90503979 3597.162584 183.8289032
27 11 2018 17:30
27 11 2018 17:40
                 3578.074951 12.72381973 3592.08503 184.2518005
27 11 2018 17:50
                 2908.654053 10.65540981 3136.70889 182.2046967
27 11 2018 18:00
                 3215.98999 11.17786026 3331.689663 183.5688019
27 11 2018 18:10
                 3566.790039 13.09354973 3600 183.6387939
27 11 2018 18:20
                 3598.467041 13.40919971 3600 183.9049988
27 11 2018 18:30
                 3603.466064 15.03625011 3600 184.9456024
27 11 2018 18:40
                 3603.5271
                             14.45390987 3600 183.5438995
                 3603.37793 16.17845917 3600 188.0126953
27 11 2018 18:50
27 11 2018 19:00
                 3603.583984 14.41592979 3600 181.6141968
27 11 2018 19:10
                 3604.029053 14.24962044 3600 180.4537964
27 11 2018 19:20
                 3603.646973 14.13302994 3600 181.4380035
                 3553.253906 12.2906599 3560.084938 178.3773041
27 11 2018 19:30
27 11 2018 19:40
                 3595.696045 13.7288599 3600 180.6804962
                                              173.7324982
27 11 2018 19:50
                 3602.225098 13.33279991 3600
27 11 2018 20:00
                 3597.905029 13.37942982 3600
                                              176.3144989
27 11 2018 20:10
                 3603.069092 14.32345009 3600
                                              180.9736023
27 11 2018 20:20
                 3603.062988 14.98859024 3600
                                              181.6896973
27 11 2018 20:30
                 3603.214111 16.23117065 3600
                                              183.1394043
27 11 2018 20:40 3603.112061 16.65582085 3600
                                              181.4898071
27 11 2018 20:50 3602.958008 17.53406906 3600
                                              182.976593
27 11 2018 21:00 3603.279053 15.94983006 3600
                                              178.9541931
27 11 2018 21:10
                 3603.14209 15.37588978 3600
                                              181.9557953
27 11 2018 21:20 3602.853027 15.05891991 3600 180.2619019
27 11 2018 21:30
                 3602.947998 16.10032082 3600 180.8654938
27 11 2018 21:40
                 3602.906982 16.97439957 3600 180.5782928
27 11 2018 21:50
                 3602.928955 15.94985962 3600
                                              178.3562927
27 11 2018 22:00
                 3603.229004 15.42547035 3600
                                              176.0522003
27 11 2018 22:10
                 3602.774902 16.08823013 3600
                                              176.8040009
27 11 2018 22:20
                 3602.806885 16.80373955 3600
                                              176.9324036
                 3602.406982 16.96799088 3600
27 11 2018 22:30
                                              179.0948029
27 11 2018 22:40
                 3602.312012 18.81460953 3600
                                              178.9326935
27 11 2018 22:50
                 3602.52002 19.08436966 3600
                                              180.5715027
27 11 2018 23:00
                 3602.716064 18.6126194 3600
                                              180.4669037
27 11 2018 23:10
                 3602.909912 20.06525993 3600
                                              180.1257935
27 11 2018 23:20
                 3602.866943 19.05706978 3600
                                              178.3531036
27 11 2018 23:30
                 3602.956055 19.20323944 3600
                                              180.5233002
27 11 2018 23:40
                 3602.688965 18.00472069 3600 178.8753052
27 11 2018 23:50
                 3601.716064 18.37042999 3600 181.2266998
                 3602.696045 16.84724998 3600
28 11 2018 00:00
                                              182.0868988
28 11 2018 00:10
                 3602.563965 16.83403015 3600
                                              182.8491974
28 11 2018 00:20
                 3602.579102 16.53686905 3600
                                              186.020401
28 11 2018 00:30
                 3602.657959 14.90155029 3600
                                              187.8694
28 11 2018 00:40
                 3602.714111 15.13599968 3600
                                              189.6421051
28 11 2018 00:50
                 3602.304932 15.85941982 3600
                                              189.6069946
28 11 2018 01:00
                 3602.302002 16.4783802 3600
                                              184.0471954
28 11 2018 01:10
                 3602.511963 16.36227989 3600
                                              184.6710968
28 11 2018 01:20
                 3602.168945 16.00999069 3600
                                              185.3325043
28 11 2018 01:30
                 3597.996094 14.63739014 3600
                                              188.3298035
28 11 2018 01:40
                 3597.181885 13.78120041 3600 187.1067047
28 11 2018 01:50 3602.404053 14.47208023 3600 185.5289001
28 11 2018 02:00 3602.727051 14.6708498 3600 185.9951935
```

```
3602.227051 14.48495007 3600 189.1316071
28 11 2018 02:10
                             14.31317043 3600 194.1620026
28 11 2018 02:20
                 3602.875
                 3602.719971 14.2401104 3600 193.4297943
28 11 2018 02:30
28 11 2018 02:40
                 3602.534912 13.47854042 3600 189.4644012
28 11 2018 02:50
                 3579.079102 12.51797962 3580.451323 189.1020966
28 11 2018 03:00
                 3595.136963 13.28159046 3600 186.127594
28 11 2018 03:10
                 3602.917969 13.60519028 3600 182.5950012
                 3601.823975 13.13477993 3600 186.2429047
28 11 2018 03:20
28 11 2018 03:30
                 3579.687988 12.77863979 3594.124219 192.402298
28 11 2018 03:40
                 3591.842041 13.29671955 3600 197.2734985
28 11 2018 03:50
                 3594.943115 13.59624958 3600 196.7602997
28 11 2018 04:00 3473.327881 12.50109959 3579.214104 200.1665039
28 11 2018 04:10 3292.083008 11.51358032 3425.157881 200.8493958
28 11 2018 04:20 3074.169922 10.95374966 3255.866884 198.4819031
28 11 2018 04:30 3139.564941 11.01961994 3279.325278 192.0876007
28 11 2018 04:40 2802.051025 10.43799973 3035.708638 195.6672974
28 11 2018 04:50 3022.464111 11.21280956 3342.515371 200.0809937
28 11 2018 05:00 3283.012939 11.47725964 3416.149503 202.5406036
28 11 2018 05:10 3479.336914 12.08244991 3534.193009 202.3661957
28 11 2018 05:20 2665.801025 10.15950012 2887.353158 198.149704
28 11 2018 05:30 2059.628906 9.036090851 2167.282844 209.9889069
28 11 2018 05:40 1346.958984 7.668851852 1346.450986 214.6679993
28 11 2018 05:50
                 1439.740967 7.687605858 1356.500914 207.3887024
28 11 2018 06:00
                 1824.340942 8.235296249 1667.481513 203.1405029
28 11 2018 06:10 2796.990967 10.67070007 3143.349214 202.6519012
28 11 2018 06:20 3602.062012 14.09681034 3600 199.1358948
28 11 2018 06:30 3601.108887 15.28588009 3600 199.8551025
28 11 2018 06:40
                 1823.577026 15.66654968 3600 202.2192993
28 11 2018 06:50 3602.563965 14.98536968 3600 195.6092072
28 11 2018 07:00 3602.658936 13.87166023 3600 187.9906006
28 11 2018 07:10 3602.995117 14.12164974 3600 191.5704041
28 11 2018 07:20 3602.772949 13.47966003 3600 188.3161011
28 11 2018 07:30 3599.918945 13.33656025 3600 192.9120941
28 11 2018 07:40 3602.868896 14.05533028 3600 196.675705
28 11 2018 07:50
                 3602.934082 14.26051044 3600 193.5718994
28 11 2018 08:00
                 3603.032959 14.35673046 3600
                                               188.5366058
28 11 2018 08:10
                 3603.206055 14.65305042 3600
                                              185.3285065
28 11 2018 08:20
                 3603.018066 15.4200201 3600
                                              187.532196
                 3602.761963 16.3282299 3600
28 11 2018 08:30
                                              186.3968048
28 11 2018 08:40
                 3602.709961 15.52287006 3600
                                              186.8011017
28 11 2018 08:50 3602.689941 14.68994999 3600
                                              186.9006958
28 11 2018 09:00 3602.614014 14.31392956 3600 182.3052979
28 11 2018 09:10
                 3602.399902 14.76628017 3600
                                              184.6468964
28 11 2018 09:20
                 3601.229004 13.49349022 3600 181.9653931
28 11 2018 09:30
                 3595.74707 12.77587986 3594.032056 183.9960022
                 3577.129883 13.20236015 3600 176.6311035
28 11 2018 09:40
28 11 2018 09:50
                 3549.530029 13.76990032 3600
                                              184.5749054
28 11 2018 10:00
                 3602.660889 14.55344963 3600
                                              186.2174988
28 11 2018 10:10
                 3602.727051 15.01169014 3600
                                               189.2187958
28 11 2018 10:20
                 3602.763916 14.71103001 3600
                                               187.5626984
28 11 2018 10:30
                 3603.062012 15.20623016 3600
                                               189.7480011
28 11 2018 10:40
                 3602.937988 16.14986038 3600
                                              189.8323059
28 11 2018 10:50
                 3602.853027 15.52931976 3600
                                              190.1799927
28 11 2018 11:00
                 3602.698975 15.77126026 3600
                                              190.0220032
28 11 2018 11:10
                 3602.898926 14.80566978 3600
                                              193.5128021
28 11 2018 11:20
                 3602.9729 13.88027954 3600 187.0653076
28 11 2018 11:30
                 3603.056885 14.68970013 3600 194.0807037
28 11 2018 11:40 3603.320068 14.09564972 3600 194.5962982
28 11 2018 11:50 3603.145996 13.37880039 3600 191.6295013
```

```
28 11 2018 12:00 3582.5271
                             13.06400013 3600 192.4123993
28 11 2018 12:10
                 3175.311035 11.41269016 3399.488928 192.2689056
28 11 2018 12:20
                 1231,442993 7,145318031 1082,770011 189,2436981
28 11 2018 12:30 62.82674026 3.035511971 17.23727106 176.6394958
28 11 2018 12:40 0
                       3.710691929 79.14878314 327.6478882
28 11 2018 12:50 146.0782013 4.100472927 141.8819019 352.8785095
                 266.8728027 4.588891983 241.0559313 350.1423035
28 11 2018 13:00
                 304.7886963 4.757228851 278.5221582 352.2510986
28 11 2018 13:10
28 11 2018 13:20
                 915.6218872 6.429899216 778.8417905 0.889648616
28 11 2018 13:30
                 671.6594238 5.698249817 527.8795318 14.08106041
28 11 2018 13:40
                 1322.758057 7.361795902 1187.549694 12.53853035
28 11 2018 13:50 399.8450012 5.007959843 337.9574795 5.023430824
28 11 2018 14:00 543.5100098 5.757205009 546.1234343 2.135384083
28 11 2018 14:10 1046.962036 7.00169611 1016.752509 8.101149559
28 11 2018 14:20 1129.94104 7.030827999 1029.926997 10.35186005
28 11 2018 14:30 1064.369019 6.625010014 855.7643881 9.898241997
28 11 2018 14:40 1219.524048 7.314737797 1164.210907 9.261180878
28 11 2018 14:50 1495.900024 7.729077816 1378.879222 4.596605778
28 11 2018 15:00 1223.046997 7.256998062 1136.007231 3.852209091
28 11 2018 15:10 1983.623047 8.510396004 1834.408287 2.202781916
28 11 2018 15:20 2438.285889 9.482124329 2458.251844 8.251791954
28 11 2018 15:30 2000.743042 8.714126587 1961.582996 12.51301003
28 11 2018 15:40 3117.524902 10.99759007 3271.590465 11.69466972
28 11 2018 15:50
                 2677.595947 10.14124966 2876.845748 20.52522087
28 11 2018 16:00 2148.553955 9.035176277 2166.691987 16.91869926
28 11 2018 16:10 2346.414063 9.247162819 2304.388138 2.121159077
28 11 2018 16:20 2945.312012 10.12086964 2864.994236 8.795363426
28 11 2018 16:30 2876.950928 10.36236
                                         2997.589556 6.552831173
28 11 2018 16:40 2410.314941 9.346179962 2369.114342 5.838445187
28 11 2018 16:50 2652.131104 10.04656982 2820.719532 6.451058865
28 11 2018 17:00 2516.187988 9.620119095 2532.356487 8.350595474
28 11 2018 17:10 2042.467041 8.666155815 1931.40035 13.66349983
28 11 2018 17:20 3092.38208 10.97640991 3264.049352 17.72900009
28 11 2018 17:30 3256.498047 11.77884007 3483.291236 22.20820999
28 11 2018 17:40 3158.778076 11.51840019 3426.333865 17.05274963
28 11 2018 17:50 3572.266113 12.39468002 3570.405042 24.67495918
                 3377.061035 11.55597973 3435.347618 18.65847015
28 11 2018 18:00
28 11 2018 18:10 3549.435059 12.37166977 3568.269039 21.34108925
28 11 2018 18:20 3335.577881 11.42076015 3401.616808 23.11334991
28 11 2018 18:30 3226.791992 11.13020039 3316.500408 24.50440025
28 11 2018 18:40 3331.779053 11.97544003 3518.079178 27.86429024
28 11 2018 18:50 3349.664063 11.3071003 3370.426118 21.02603912
28 11 2018 19:00 3484.532959 12.20833015 3550.693193 21.36047935
                 3587.197998 12.96403027 3597.795227 21.3187294
28 11 2018 19:10
                 3568.528076 12.08413029 3534.430593 22.43519974
28 11 2018 19:20
28 11 2018 19:30
                 3400.824951 11.50601006 3423.30166 22.71445084
                 3566.49707 12.03546047 3527.356777 19.91877937
28 11 2018 19:40
28 11 2018 19:50
                 3602.216064 13.36030006 3600 22.22027016
28 11 2018 20:00 3577.563965 12.21300983 3551.256401 19.6208992
28 11 2018 20:10
                 3485.168945 12.68694019 3590.464886 25.32439041
28 11 2018 20:20
                 3544.366943 12.1393404 3541.974463 21.14641953
28 11 2018 20:30
                 3553.065918 12.67257023 3589.779221 19.17218018
28 11 2018 20:40
                 3509.816895 12.08839989 3535.032132 25.0430603
28 11 2018 20:50 3586.138916 12.24219036 3554.688165 21.79566956
28 11 2018 21:00 3463.384033 11.47290993 3415.053239 23.25738907
28 11 2018 21:10 3592.966064 13.92965984 3600 18.95182991
28 11 2018 21:20 3576.762939 12.71782017 3591.835112 20.55639076
28 11 2018 21:30 3540.593018 13.41088009 3600 21.79871941
28 11 2018 21:40 3573.915039 12.32742023 3563.927496 19.92647934
```

```
28 11 2018 21:50 3589.0271
                             12.95631027 3597.74064 21.55088997
                 3599.870117 13.5460701 3600 17.87153053
28 11 2018 22:00
28 11 2018 22:10 3589.884033 13.47780991 3600 19.39775085
28 11 2018 22:20 3602.093994 14.19857979 3600 20.52316093
28 11 2018 22:30 3601.795898 14.19890022 3600 21.14129066
28 11 2018 22:40 3513.285889 12.29080963 3560.101025 25.01198006
28 11 2018 22:50 3549.373047 13.4669199 3600 22.07698059
28 11 2018 23:00 3365.798096 11.37806988 3390.211004 28.08807945
28 11 2018 23:10 3568.983887 12.88527966 3596.839446 26.27456093
28 11 2018 23:20
                 3600.802002 15.07129002 3600 26.80282974
28 11 2018 23:30 3505.835938 13.3681097 3600 30.44354057
28 11 2018 23:40 3462.427002 12.0507803 3529.626525 29.23527908
28 11 2018 23:50 3590.678955 13.1898098 3600 32.6014595
29 11 2018 00:00 3596.304932 13.68540001 3600 28.71013069
29 11 2018 00:10 3444.781982 12.22439957 3552.612307 25.39184952
29 11 2018 00:20 3458.802002 12.71994972 3591.924427 26.53602028
29 11 2018 00:30 3407.216064 12.35054016 3566.234425 24.78134918
29 11 2018 00:40 3565.62793 13.09267044 3600 26.43815041
29 11 2018 00:50 3463.985107 11.98997974 3520.383247 26.09770966
29 11 2018 01:00 3376.23291 11.76043987 3479.681997 31.77054977
29 11 2018 01:10 3485.604004 12.16981983 3545.922692 27.55175018
29 11 2018 01:20 3427.937012 11.45038986 3409.317463 27.69807053
29 11 2018 01:30 3347.069092 11.7937603 3486.17274 26.58060074
29 11 2018 01:40 3353.646973 11.76926041 3481.419853 29.28063011
29 11 2018 01:50 3590.156982 12.61431026 3586.684966 22.6947403
29 11 2018 02:00 3577.533936 12.68517017 3590.382079 25.34646988
29 11 2018 02:10 3593.738037 12.89013004 3596.923949 25.20557976
29 11 2018 02:20 3541.611084 13.33722973 3600 27.95443916
29 11 2018 02:30 3583.923096 12.91335964 3597.281905 27.13521957
29 11 2018 02:40 3598.929932 14.03077984 3600 25.52339935
29 11 2018 02:50 3598.628906 13.6188097 3600 23.93482018
29 11 2018 03:00 3569.374023 13.08802032 3600 26.42509079
29 11 2018 03:10 3599.321045 13.63601017 3600 24.07805061
29 11 2018 03:20 3573.851074 13.35200977 3600 24.21892929
29 11 2018 03:30 3596.458984 13.22947979 3600 23.74424934
                 3601.184082 13.72257042 3600 23.40872955
29 11 2018 03:40
                 3600.808105 13.97008038 3600 24.0129509
29 11 2018 03:50
                 3556.696045 12.94314957 3597.628029 27.91122055
29 11 2018 04:00
29 11 2018 04:10 3366 11.52598953 3428.176365 30.93773079
29 11 2018 04:20 3583.365967 12.66152
                                        3589.231145 31.84156036
29 11 2018 04:30 3469.618896 13.61485004 3600 35.81797028
29 11 2018 04:40 3585.360107 14.59519958 3600 37.78414154
29 11 2018 04:50 3557.923096 13.46854019 3600 32.88581085
29 11 2018 05:00 3593.924072 13.80840015 3600 33.19105911
29 11 2018 05:10 3584.593994 14.46382999 3600 32.56560135
29 11 2018 05:20 3591.243896 14.6353302 3600 35.58086014
29 11 2018 05:30 3582.572998 13.82868958 3600 34.74917984
29 11 2018 05:40 3584.741943 14.60914993 3600
                                              33.59476089
29 11 2018 05:50 3592.737061 14.3777504 3600
                                              36.20452118
29 11 2018 06:00 3601.293945 15.91376019 3600
                                              34.84851837
29 11 2018 06:10 3599.99707 14.05253983 3600
                                              33.60021973
29 11 2018 06:20 3564.429932 14.46436024 3600
                                              36.14049911
29 11 2018 06:30 3588.485107 14.55587959 3600
                                              36.76311111
29 11 2018 06:40 3582.656982 13.40647984 3600
                                              33.16125107
29 11 2018 06:50 3571.562012 13.69425011 3600
                                              32.14646149
29 11 2018 07:00 3594.968994 14.60708046 3600 32.35219955
29 11 2018 07:10 3590.809082 15.58121967 3600 33.74958038
29 11 2018 07:20 3596.417969 14.88438988 3600 32.91257095
29 11 2018 07:30 3597.308105 16.00325012 3600 34.51588821
```

```
29 11 2018 07:40
                 3595.925049 16.13171005 3600
                                                34.34447098
29 11 2018 07:50
                 3597.061035 15.58078003 3600
                                                35.19620895
29 11 2018 08:00
                  3601.014893 16.74028969 3600
                                                38.48529816
29 11 2018 08:10
                 3598.839111 15.72037029 3600
                                                34.02782822
                                                31.56744003
29 11 2018 08:20
                  3597.346924 15.50603008 3600
29 11 2018 08:30
                  3594.565918 15.12269974 3600
                                                34.79296112
29 11 2018 08:40
                  3600.73999 15.33804035 3600
                                                32.60424042
                  3594.428955 15.47974968 3600
29 11 2018 08:50
                                                33.63932037
29 11 2018 09:00
                  3600.685059 15.62036037 3600
                                                34.22966003
                  3600.679932 16.29273033 3600
                                                33.32450867
29 11 2018 09:10
29 11 2018 09:20
                  3600.5
                              15.91372967 3600
                                                35.50009918
29 11 2018 09:30
                  3599.441895 16.59889984 3600
                                                35.08078003
29 11 2018 09:40
                  3600.238037 16.2376194 3600
                                                35.45549011
29 11 2018 09:50
                  3600.789063 16.67676926 3600
                                                33.45471954
29 11 2018 10:00
                  3599.562988 15.74703979 3600
                                                36.16918945
29 11 2018 10:10
                  3592.73999 16.51888084 3600
                                                35.1836586
29 11 2018 10:20
                  3600.5979
                             16.81221008 3600
                                                35.02219009
29 11 2018 10:30
                  3597.967041 16.65504074 3600
                                                34.23516083
                  3596.062988 14.57129002 3600
29 11 2018 10:40
                                                31.76190948
29 11 2018 10:50
                  3600.270996 15.69153023 3600
                                                34.30942917
                  3600.605957 16.60712051 3600
29 11 2018 11:00
                                                34.7027092
29 11 2018 11:10
                  3599.591064 16.76137924 3600
                                                36.86679077
29 11 2018 11:20
                  3598.754883 14.97593975 3600
                                                36.06370926
29 11 2018 11:30
                  3589.148926 14.9481802 3600
                                                34.09064102
29 11 2018 11:40
                  3600.893066 15.17638016 3600
                                                33.94042969
29 11 2018 11:50
                  3600.572021 16.98855019 3600
                                                34.37590027
29 11 2018 12:00
                 3600.691895 15.13932037 3600
                                                32.5240593
29 11 2018 12:10
                 3600.319092 16.05101967 3600
                                                31.99177933
29 11 2018 12:20
                 3599.931885 16.30566025 3600
                                                31.72673035
29 11 2018 12:30
                  3599.849121 15.73670006 3600
                                                30.87276077
29 11 2018 12:40
                 3599.781006 15.69987011 3600
                                                32.80516052
29 11 2018 12:50
                 3600.846924 15.45818996 3600
                                                32.43286896
29 11 2018 13:00
                  3599.36499 14.53643036 3600
                                                32.96818924
29 11 2018 13:10
                 3600.75293 15.64216995 3600
                                                35.67644882
                  3600.322998 15.35544014 3600
29 11 2018 13:20
                                                32.51148987
29 11 2018 13:30
                  3600.771973 16.91847992 3600
                                                35.34692001
29 11 2018 13:40
                  3597.947021 16.29845047 3600
                                                33.57598877
29 11 2018 13:50
                  3600.374023 16.83472061 3600
                                                34.21979904
29 11 2018 14:00
                  3579.062012 15.23956966 3600
                                                35.30963135
                  3597.698975 14.78425026 3600
29 11 2018 14:10
                                                33.80210114
29 11 2018 14:20
                 3597.698975 14.79817963 3600
                                                31.23052979
29 11 2018 14:30
                 3600.585938 15.36509037 3600
                                                33.84442902
29 11 2018 14:40
                  3600.164063 15.99711037 3600
                                                33.43334961
                                                32.90010071
29 11 2018 14:50
                  3600.412109 15.8675499 3600
29 11 2018 15:00
                  3596.89502 15.58333015 3600
                                                34.01551819
29 11 2018 15:10
                  3594.894043 15.40186024 3600
                                                36.86061096
29 11 2018 15:20
                  3600.476074 15.56939983 3600
                                                36.5385704
                  3600.684082 14.57312012 3600
                                                38.31753159
29 11 2018 15:30
                  3560.383057 14.33747005 3600
29 11 2018 15:40
                                                36.00791931
29 11 2018 15:50
                  3591.612061 14.95096016 3600
                                                36.0969696
29 11 2018 16:00
                  3599.656982 14.89778996 3600
                                                33.39046097
29 11 2018 16:10
                  3582.131104 15.02301979 3600
                                                30.71832085
29 11 2018 16:20
                  3600.056885 15.49287987 3600
                                                32.91667938
29 11 2018 16:30
                  3600.709961 15.08360004 3600
                                                32.71792984
29 11 2018 16:40
                  3600.310059 16.42207909 3600
                                                34.26441956
29 11 2018 16:50
                  3600.606934 16.49148941 3600
                                                33.91250992
29 11 2018 17:00
                 3595.045898 15.0839901 3600 34.21522141
29 11 2018 17:10
                 3598.952881 15.46901989 3600 31.90570068
29 11 2018 17:20 3597.201904 14.97119045 3600 35.50482178
```

```
29 11 2018 17:30 3599.76709 16.35330009 3600
                                               33.68169022
29 11 2018 17:40
                 3601.054932 17.01461983 3600
                                               34.01425934
29 11 2018 17:50
                 3594.225098 16.01207924 3600
                                               34.51462936
29 11 2018 18:00
                 3600.826904 17.44714928 3600
                                               35.46957016
29 11 2018 18:10
                 3600.466064 17.94588089 3600
                                               33.54320145
29 11 2018 18:20
                 3600.224121 17.60709953 3600
                                               36.69532013
29 11 2018 18:30
                 3600.701904 15.91594982 3600
                                               32.92995071
                 3599.922119 17.15447998 3600
29 11 2018 18:40
                                               32.02436066
29 11 2018 18:50
                 3599.677002 15.75020027 3600
                                               34.18251038
                 3594.706055 16.8373909 3600
                                               33.58523941
29 11 2018 19:00
29 11 2018 19:10
                 3600.254883 16.79871941 3600
                                               34.99332047
29 11 2018 19:20
                 3600.701904 16.85713959 3600
                                               33.05334854
29 11 2018 19:30
                 3600.398926 16.18394089 3600
                                               32.70339966
29 11 2018 19:40
                 3600.358887 16.90171051 3600
                                               34.1856308
29 11 2018 19:50
                 3599.197998 16.20363998 3600
                                               33.41843033
29 11 2018 20:00
                 3600.916992 17.65567017 3600
                                               36.0152092
29 11 2018 20:10
                 3597.806885 16.75333023 3600
                                               34.31835938
29 11 2018 20:20
                 3600.342041 16.22159958 3600
                                               34.95531845
                 3597.163086 15.63700008 3600
29 11 2018 20:30
                                               34.70711136
29 11 2018 20:40
                 3597.842041 14.84230995 3600
                                               33.10176086
29 11 2018 20:50
                 3600.162109 15.42547035 3600
                                               36.87879181
                                               35.3763504
29 11 2018 21:00
                 3600.188965 15.02449989 3600
29 11 2018 21:10
                 3599.187012 16.0278492 3600
                                               34.54000092
29 11 2018 21:20
                 3599.954102 16.8644104 3600
                                               35.8101387
29 11 2018 21:30
                 3599.822021 16.25624084 3600
                                               32.58610916
29 11 2018 21:40
                 3600.237061 15.95182991 3600
                                               34.20682144
29 11 2018 21:50
                 3600.196045 16.82239914 3600
                                               35.2132988
29 11 2018 22:00
                 3600.090088 16.1657505 3600
                                               34.58428955
                 3599.10498 15.85459042 3600
29 11 2018 22:10
                                               34.59529114
29 11 2018 22:20
                 3600.440918 15.83481979 3600
                                               37.28224945
29 11 2018 22:30
                 3600.319092 17.40200996 3600
                                               36.33782959
29 11 2018 22:40
                 3600.412109 16.69632912 3600
                                               34.15081024
29 11 2018 22:50
                 3568.322998 16.08530998 3600
                                               34.873909
29 11 2018 23:00
                 3600.440918 16.0383606 3600
                                               34.2730484
                 3599.964111 17.14620972 3600
29 11 2018 23:10
                                               33.37406921
29 11 2018 23:20
                 3600.343018 15.62545013 3600
                                               35.34856033
29 11 2018 23:30
                 3600.434082 15.73003006 3600
                                               32.22621918
29 11 2018 23:40
                 3600.542969 15.07271004 3600
                                               34.07358932
29 11 2018 23:50
                 3600.374023 16.36363029 3600
                                               35.91944885
                                               31.87944984
30 11 2018 00:00
                 3600.1521
                             16.6528492 3600
30 11 2018 00:10
                 3600.052979 16.39429092 3600
                                               35.32307053
30 11 2018 00:20
                 3600.169922 17.78640938 3600
                                               34.63586044
30 11 2018 00:30
                 3599.976074 17.44231033 3600
                                               40.12734985
30 11 2018 00:40
                 3597.333008 16.00465965 3600
                                               31.85029984
30 11 2018 00:50
                 3600.613037 15.54878044 3600
                                               33.50299072
30 11 2018 01:00
                 3600.040039 17.59579086 3600
                                               34.84223938
30 11 2018 01:10
                 3600.251953 16.97674942 3600
                                               33.99777985
                 3599.851074 19.08037949 3600
30 11 2018 01:20
                                               33.34785843
                 3599.77002 18.40262032 3600
30 11 2018 01:30
                                               33.8543396
30 11 2018 01:40
                 3598.979004 15.97187996 3600
                                               32.14080048
30 11 2018 01:50
                 3599.995117 17.6997509 3600
                                               34.66448975
30 11 2018 02:00
                 3600.39209 18.03034019 3600
                                               33.68610001
30 11 2018 02:10
                 3600.433105 16.85009956 3600
                                               36.75101089
30 11 2018 02:20
                 3600.376953 17.92108917 3600
                                               36.42179108
30 11 2018 02:30
                 3600.386963 15.73612976 3600
                                               31.05319023
30 11 2018 02:40
                 3600.323975 15.14838028 3600
                                               32.54896927
30 11 2018 02:50
                 3600.50708 15.98820019 3600 33.12908936
30 11 2018 03:00
                 3600.214111 17.2050705 3600 33.97206116
30 11 2018 03:10 3600.031982 16.51852989 3600 33.04391098
```

```
30 11 2018 03:20
                 3597.923096 16.49147987 3600
                                               37.11820984
30 11 2018 03:30
                 3600.124023 15.03063011 3600
                                               37.79862976
                 3597.324951 15.93665981 3600
30 11 2018 03:40
                                               34.00228119
30 11 2018 03:50
                 3586.726074 15.35733986 3600 34.20906067
30 11 2018 04:00
                 3600.343994 15.92411995 3600 31.84075928
30 11 2018 04:10
                 3600.243896 16.84046936 3600
                                               33.35662842
30 11 2018 04:20
                 3600.491943 18.3205204 3600
                                               32.47185898
30 11 2018 04:30
                 3600.262939 18.41848946 3600
                                               35.42734146
30 11 2018 04:40
                 3600.479004 18.59082985 3600
                                               33.9684906
                 3600.26709 16.66147995 3600
30 11 2018 04:50
                                               33.18811035
30 11 2018 05:00
                             16.8549099 3600
                 3599.875
                                               32.21070862
30 11 2018 05:10
                 3599.313965 17.15152931 3600
                                               32.28073883
30 11 2018 05:20
                 3597.072998 16.72763062 3600
                                               32.68968964
30 11 2018 05:30
                 3600.147949 17.10320091 3600
                                               28.45612907
30 11 2018 05:40
                 3600.447998 16.98026085 3600
                                               28.73662949
30 11 2018 05:50
                 3600.406006 16.02446938 3600
                                               31.07489967
30 11 2018 06:00
                 3600.204102 16.72496986 3600
                                               32,43066025
30 11 2018 06:10 3600.513916 16.58875084 3600 32.90782928
30 11 2018 06:20 3599.983887 14.91374016 3600
                                              30.84457016
30 11 2018 06:30
                 3599.655029 13.64256954 3600
                                               31.96137047
30 11 2018 06:40
                 3593.340088 16.46669006 3600
                                               32.93946075
30 11 2018 06:50
                 3586.553955 14.56809044 3600
                                               32.65834045
30 11 2018 07:00
                 3600.272949 16.04747963 3600
                                               34.8678894
30 11 2018 07:10
                 3579.068115 14.58985996 3600
                                               34.36417007
30 11 2018 07:20
                 3596.974121 14.19960022 3600
                                               32.57667923
30 11 2018 07:30
                 3600.875977 16.19869995 3600
                                               27.18527985
30 11 2018 07:40
                 3592.968018 14.49190044 3600
                                               32.28837967
30 11 2018 07:50 3600.643066 16.52415085 3600
                                               33.33008957
30 11 2018 08:00
                 3592.63208 16.36289024 3600
                                               34.82400894
30 11 2018 08:10
                 3585.951904 16.02356911 3600 33.71112823
30 11 2018 08:20
                 3556.35791 15.67133045 3600 34.12940979
30 11 2018 08:30
                 3585.092041 14.05677032 3600 28.62944984
30 11 2018 08:40
                 3591.169922 14.90952969 3600 24.55471992
30 11 2018 08:50
                 3485.61792 14.17733002 3600 30.66700935
                 3441.837891 11.92794991 3510.299059 29.22463989
30 11 2018 09:00
30 11 2018 09:10
                 3510.893066 13.40063
                                         3600 34.75997925
                 3538.263916 13.8091898 3600 36.44361115
30 11 2018 09:20
                 3166.37207 11.70742035 3468.935603 31.61865997
30 11 2018 09:30
                 3175.185059 13.78370953 3600 27.35034943
30 11 2018 09:40
30 11 2018 09:50
                 2577.683105 12.20588017 3550.39691 27.64909935
30 11 2018 10:00 2477.766113 12.81793022 3595.316079 30.58956909
30 11 2018 10:10 2407.129883 11.08588982 3301.931463 26.70340919
30 11 2018 10:20 2492.784912 13.13288021 3600 26.53710938
30 11 2018 10:30 2457.011963 14.17823982 3600 27.74799919
30 11 2018 10:40 2438.288086 13.56532955 3600 27.91358948
30 11 2018 10:50
                 2350.826904 12.31914043 3563.080753 27.00633049
                 2406.830078 11.31616974 3373.012412 26.62355995
30 11 2018 11:00
                 2220.866943 10.46037006 3046.681463 27.20583916
30 11 2018 11:10
30 11 2018 11:20 2403.844971 10.76317978 3182.258905 26.16890907
30 11 2018 11:30
                 2458.600098 11.63152981 3452.646029 22.81426048
30 11 2018 11:40
                 2303.969971 11.74915028 3477.436964 24.43445969
30 11 2018 11:50
                 2339.0979
                             12.32256985 3563.432785 24.13371086
30 11 2018 12:00
                 2189.071045 10.94653034 3253.235072 33.06734085
30 11 2018 12:10
                 2107.625
                             10.76089001 3181.321184 33.99536896
30 11 2018 12:20
                 2039.812988 9.833362579 2684.061975 27.63756943
30 11 2018 12:30
                 2057.764893 10.6076498 3115.582675 25.50815964
30 11 2018 12:40 2195.670898 12.0912199 3535.427766 22.01663017
30 11 2018 12:50 2083.508057 11.63348961 3453.080293 23.71298027
30 11 2018 13:00 1954.141968 11.49147034 3419.704999 25.49560928
```

```
1948.688965 11.93500042 3511.478865 23.88755989
30 11 2018 13:10
                 1848.607056 10.92724991 3246.146923 23.85444069
30 11 2018 13:20
30 11 2018 13:30
                 1785.692993 10.40429974 3018.920414 23.49221039
30 11 2018 13:40
                 1777.984009 10.01109982 2798.984265 21.79095078
30 11 2018 13:50
                 1832.458984 11.06365967 3294.45817 20.5344696
30 11 2018 14:00
                 1798.156982 11.02781963 3282.176044 20.84250069
                 1749.936035 10.93848991 3250.289665 22.40003967
30 11 2018 14:10
                 1468.317017 9.658511162 2560.823854 30.48872948
30 11 2018 14:20
30 11 2018 14:30
                 1513.328979 9.765007973 2637.117778 25.10729027
                 1446.19397 9.323965073 2354.575329 26.40416908
30 11 2018 14:40
30 11 2018 14:50
                 1504.307007 10.02503967 2807.572949 24.46059036
30 11 2018 15:00
                 1344.677979 9.680890083 2577.18002 25.60651016
30 11 2018 15:10
                 749.6074219 8.921989441 2093.827257 26.43074036
30 11 2018 15:20
                 598.0383911 10.33353996 2982.646866 25.80714989
30 11 2018 15:30 404.0588074 10.13074017 2870.749807 25.32892036
30 11 2018 15:40 411.8306885 9.595608711 2513.910521 25.92927933
30 11 2018 15:50
                 403.2904968 9.025464058 2160.419398 24.98838997
30 11 2018 16:00
                 405.2608948 10.01589012 2801.942521 25.75931931
30 11 2018 16:10 403.8725891 8.523207664 1842.324114 26.08415031
30 11 2018 16:20
                 385.7662964 9.74802494 2625.211023 22.25742912
30 11 2018 16:30
                 397.7535095 9.959048271 2766.375361 21.66617012
30 11 2018 16:40
                 394.8761902 11.06282043 3294.173874 21.97392082
                 391.3956909 9.989550591 2785.587716 23.16321945
30 11 2018 16:50
30 11 2018 17:00
                 397.2189026 9.788507462 2653.432792 24.22989082
30 11 2018 17:10
                 389.4620056 9.037229538 2168.018533 27.76306915
30 11 2018 17:20
                 455.0580139 9.698470116 2589.907067 28.8190403
30 11 2018 17:30 453.5315857 9.483855247 2459.388223 28.69403076
                 373.3400879 7.40601778 1209.776535 35.16801071
30 11 2018 17:40
                409.1878052 7.39812994 1205.790772 30.61256981
30 11 2018 17:50
30 11 2018 18:00
                 407.693512 8.795458794 2013.059067 27.07720947
                 369.4943848 7.564910889 1291.560812 27.25321007
30 11 2018 18:10
30 11 2018 18:20
                 376.9798889 7.421796799 1217.777568 33.96250916
30 11 2018 18:30
                 380.6353149 7.438673019 1226.37625 33.01762009
30 11 2018 18:40
                 397.6848145 7.853157997 1447.061165 33.97803879
                 401.6628113 7.507608891 1261.904706 35.33607101
30 11 2018 18:50
30 11 2018 19:00
                 354.0168152 7.184704781 1101.351046 43.59080887
30 11 2018 19:10
                 418.1159973 8.334545135 1726.997916 47.86886978
                 362.1235046 7.455883026 1235.189271 45.09918976
30 11 2018 19:20
30 11 2018 19:30
                 239.5765076 5.599429131 498.0624769 46.29878998
30 11 2018 19:40
                 312.7372131 6.559353828 829.4040961 42.39123917
30 11 2018 19:50
                 263.5249023 5.984011173 619.615649 45.63848877
30 11 2018 20:00 347.5241089 7.599963188 1309.915973 44.94421005
30 11 2018 20:10
                 385.3071899 8.331885338 1725.392032 43.76131058
30 11 2018 20:20
                 340.4370117 7.492770195 1254.230855 44.51576996
30 11 2018 20:30
                 291.8179932 6.701577187 887.1260024 43.06993103
                 272.3435974 6.180000782 686.4144617 35.30020905
30 11 2018 20:40
                 263.7550964 6.269931793 718.8997687 37.95093155
30 11 2018 20:50
                 219.2561951 5.742369175 541.4998843 41.56264877
30 11 2018 21:00
30 11 2018 21:10
                 263.3023987 6.593019962 842.8598247 42.22938919
30 11 2018 21:20
                 322.990509 7.43604517 1225.034505 40.68510056
30 11 2018 21:30
                 325.9966125 7.438854218 1226.468806 39.33475876
                 277.7612915 6.827006817 939.9778491 36.32563019
30 11 2018 21:40
30 11 2018 21:50
                 237.7286987 6.245707035 710.0637323 41.83678055
30 11 2018 22:00
                 243.3708038 6.326828003 739.9015166 40.9597702
30 11 2018 22:10
                 230.5021057 5.954474926 609.7398015 38.13093948
30 11 2018 22:20
                 265.5374146 6.815999031 935.2648749 36.99261856
30 11 2018 22:30 213.364502 6.462600231 791.4390005 38.63351059
30 11 2018 22:40 218.8959045 6.537243843 820.6364307 40.03116989
30 11 2018 22:50 219.108902 6.826206207 939.6345786 41.04465103
```

```
146.7758026 5.960238934 611.6597507 41.46508026
30 11 2018 23:00
                  97.44586945 5.511712074 472.3754053 42.32207108
30 11 2018 23:10
30 11 2018 23:20
                  110.9804001 5.992637157 622.5175202 44.3060112
30 11 2018 23:30
                  46.42261124 5.295612812 412.0804083 45.99647903
30 11 2018 23:40
                  87.71350098 5.953365803 609.3707669 48.45241928
30 11 2018 23:50
                  34.5562706 5.148386955 373.3075026 46.94155884
01 12 2018 00:00
                  57.40702057 6.166973114 681.7804445 47.65967941
01 12 2018 00:10
                  27.4405098 5.884329796 586.6567999 49.75183868
01 12 2018 00:20
                  0.364866495 5.16810894 378.3976506 54.35028839
                        4.607420921 245.0898718 53.26620102
01 12 2018 00:30
                  0
                        4.713553905 268.6219649 51.36548996
01 12 2018 00:40
                  0
01 12 2018 00:50
                        3.319348097 34.37779566 47.09577942
01 12 2018 01:00
                        4.157491207 152.8072738 63.49208832
01 12 2018 01:10
                        4.523927212 227.0815306 59.21297836
01 12 2018 01:20
                        5.471636772 460.8775977 56.09067154
                  0
01 12 2018 01:30
                  0
                        5.429100037 448.8336017 62.55009079
01 12 2018 01:40
                  0
                        5.324481964 419.8973131 64.07470703
01 12 2018 01:50
                  0
                        5.373916149 433.4502329 67.49651337
                  0
01 12 2018 02:00
                        4.738683224 274.3025089 68.13873291
01 12 2018 02:10
                  0
                        4.461490154 213.8926535 65.13803864
01 12 2018 02:20
                        4.627902985 249.5743804 67.2378006
                  0
01 12 2018 02:30
                  0
                        4.232541084 167.4316994 65.40207672
01 12 2018 02:40
                  0
                        4.664546013 257.6645638 61.9303894
01 12 2018 02:50
                  0
                        4.16446209 154.1537951 69.87801361
01 12 2018 03:00
                        4.372566223 195.5024266 67.20276642
01 12 2018 03:10
                        3.138057947 21.94265405 68.66220856
01 12 2018 03:20
                        3.19824791 25.4881118 56.01673889
01 12 2018 03:30
                        3.184438944 24.62346412 62.19277954
                  0
01 12 2018 03:40
                        3.229099989 27.53014404 65.5811615
01 12 2018 03:50
                  0
                        3.384680033 40.14805925 68.83878326
                        4.188974857 158.907853 72.76222229
01 12 2018 04:00
                  0
01 12 2018 04:10
                        4.071423054 136.3750035 66.6180191
01 12 2018 04:20
                        4.559229851 234.6430124 70.70596313
01 12 2018 04:30
                        4.32148695 185.1402
                                                 70.55435944
                  0
01 12 2018 04:40
                        5.030447006 343.5147966 73.5358963
                  0
                        4.904284
01 12 2018 04:50
                                     312.8288259 73.43572998
01 12 2018 05:00
                  0
                        4.834945202 296.4623919 78.19847107
01 12 2018 05:10
                        3.917825937 112.7627861 87.75057983
01 12 2018 05:20
                        4.179617882 157.0896183 89.90345001
01 12 2018 05:30
                        3.553103924 58.1732416 87.51133728
01 12 2018 05:40
                        3.769809961 88.04250889 76.1993866
01 12 2018 05:50
                        4.690210819 263.3830255 78.01170349
                  0
01 12 2018 06:00
                        3.667071104 72.94498396 74.61624908
                  0
01 12 2018 06:10
                  0
                        3.652007103 70.87328828 68.60897827
                  0
                        4.707514763 267.2631113 73.77854156
01 12 2018 06:20
01 12 2018 06:30
                        5.028963089 343.1468763 75.3704071
01 12 2018 06:40
                  0
                        5.204918861 387.9829757 73.83946991
01 12 2018 06:50
                        5.248489857 399.4735877 75.45374298
                  0
                        4.80980587 290.6131549 76.58673096
01 12 2018 07:00
                  0
01 12 2018 07:10
                  0
                        4.398495197 200.818087 78.4655838
01 12 2018 07:20
                        4.58516407 240.2469401 78.56463623
01 12 2018 07:30
                        4.713881016 268.6956368 74.00042725
01 12 2018 07:40
                        4.634006023 250.9158163 76.14306641
01 12 2018 07:50
                        4.167688847 154.7778972 73.62915802
01 12 2018 08:00
                        3.658158064 71.71482101 66.5220871
                  0
01 12 2018 08:10
                  0
                        4.17074585 155.3696405 70.93934631
01 12 2018 08:20
                  0
                        4.788094044 285.5969832 74.27739716
                  0
                        4.602434158 244.0020686 75.05127716
01 12 2018 08:30
                        4.766040802 280.5353356 80.67545319
01 12 2018 08:40
```

```
4.088253975 139.5607816 81.54509735
01 12 2018 08:50
                  0
01 12 2018 09:00
                  0
                        4.018911839 126.51919 82.84216309
01 12 2018 09:10
                        4.483279228 218.4688405 82.53813171
                  0
01 12 2018 09:20
                  0
                        4.315672874 183.9697828 81.20665741
01 12 2018 09:30
                  0
                         4.217949867 164.5661465 80.7175293
01 12 2018 09:40
                         3.59772706 63.70947702 87.17906189
                         3.658829927 71.80710754 82.54517365
01 12 2018 09:50
                  0
01 12 2018 10:00
                         3.415321112 43.08960564 77.62745667
                  0
01 12 2018 10:10
                  0
                         3.407325029 42.3074953 83.01763153
01 12 2018 10:20
                         3.371556044 38.93410488 93.45616913
                  0
01 12 2018 10:30
                  8.825865746 3.911561966 111.6456003 94.5979538
                  5.366662979 2.944219112 0
01 12 2018 10:40
                                                 97.1780777
01 12 2018 10:50
                         2.752394915 0
                                           90.51438904
01 12 2018 11:00
                  0
                         3.253599882 29.26022825 108.2173996
01 12 2018 11:10
                         2.540945053 0
                                           122.8731995
                  0
01 12 2018 11:20
                  0
                         3.242096901 28.43597359 121.0235977
01 12 2018 11:30
                  0
                         2.515448093 0
                                           109.5367966
01 12 2018 11:40
                  0
                         1.815881968 0
                                           114.4326019
                  0
01 12 2018 11:50
                         2.477617025 0
                                           118.8927994
                                           106.1939011
01 12 2018 12:00
                  0
                         2.564893961 0
01 12 2018 12:10
                         3.159009933 23.11105059 115.6009979
                  0
01 12 2018 12:20
                         3.380721092 39.77895896 111.1864014
                  0
01 12 2018 12:30
                  0
                         2.860416889 0
                                           116.3925018
01 12 2018 12:40
                  0
                         3.026879072 16.91792907 120.3551025
01 12 2018 12:50
                         1.981153965 0
                                           116.4570999
01 12 2018 13:00
                         2.206454039 0
                                           105.1628036
01 12 2018 13:10
                         2.361685038 0
                                           82.19963837
01 12 2018 13:20
                         2.474823952 0
                                           113.789299
                  0
01 12 2018 13:30
                  0
                         2.910049915 0
                                           107.3756027
01 12 2018 13:40
                  0
                         2.667768955 0
                                           98.85099792
01 12 2018 13:50
                  0
                         2.660317898 0
                                           110.4233017
01 12 2018 14:00
                  0
                         2.699575901 0
                                           116.2642975
01 12 2018 14:10
                                           115.0537033
                         2.972379923 0
                                           123.427803
01 12 2018 14:20
                         2.30875206 0
                  0
01 12 2018 14:30
                         2.676114082 0
                  0
                                           128.0054016
01 12 2018 14:40
                  0
                         2.330688953 0
                                           124.3384018
01 12 2018 14:50
                  0
                         1.682057023 0
                                           134.6497955
01 12 2018 15:00
                  0
                         1.613399029 0
                                           131.2783051
01 12 2018 15:10
                         1.59673202
                                           136.593399
01 12 2018 15:20
                         2.093647003 0
                                           124,2188034
01 12 2018 15:30
                         2.487795115 0
                                           120.9962006
                  0
01 12 2018 15:40
                  0
                         1.990983963 0
                                           115.0270004
01 12 2018 15:50
                  0
                         2.129466057 0
                                           119.0602036
01 12 2018 16:00
                  0
                         1.951406956 0
                                           118.4926987
01 12 2018 16:10
                  0
                         2.206075907 0
                                           114.1088028
01 12 2018 16:20
                         2.210865974 0
                                           104.3684006
01 12 2018 16:30
                  0
                         2.216397047 0
                                           103.3863983
01 12 2018 16:40
                  0
                         2.724930048 0
                                           104.0805969
01 12 2018 16:50
                  0
                         2.5860641
                                     0
                                           110.3843994
01 12 2018 17:00
                  0
                         2.311005116 0
                                           111.2145004
01 12 2018 17:10
                  0
                         2.248450041 0
                                           115.7474976
01 12 2018 17:20
                         2.358371019 0
                                           111.3515015
01 12 2018 17:30
                         1.846596956 0
                                           102.5764999
01 12 2018 17:40
                                           91.00346375
                  0
                         1.62173605 0
01 12 2018 17:50
                  0
                         2.186528921 0
                                           98.73531342
01 12 2018 18:00
                  0
                         2.55051899 0
                                           94.93094635
01 12 2018 18:10
                  0
                        2.898281097 0
                                           103.5037994
01 12 2018 18:20
                  0
                        2.514166117 0
                                           102.3247986
01 12 2018 18:30
                        2.101519108 0
                                           102.7547989
```

```
01 12 2018 18:40 0
                       2.156457901 0
                                         111.9904022
01 12 2018 18:50
                 0
                       2.620265007 0
                                         118.8292007
01 12 2018 19:00
                       2.097935915 0
                                         116.9809036
                 0
01 12 2018 19:10
                 0
                       2.097546101 0
                                         123.9337006
01 12 2018 19:20
                 0
                       2.17564106 0
                                         137.3701935
01 12 2018 19:30
                       1.687816978 0
                                         133.355896
01 12 2018 19:40
                 0
                       1.458034992 0
                                         134.7303925
01 12 2018 19:50
                 0
                       1.428397059 0
                                         134.6230927
01 12 2018 20:00
                 0
                       1.359236002 0
                                         136.2709045
01 12 2018 20:10
                 0
                       1.521263003 0
                                         91.95475769
01 12 2018 20:20
                 0
                       1.549952984 0
                                         85.00782776
01 12 2018 20:30
                       1.338286042 0
                                         130.0921936
01 12 2018 20:40
                       1.188948989 0
                                         155.868103
01 12 2018 20:50
                 0
                       0.86305362 0
                                         168.082901
01 12 2018 21:00
                       0.580709875 0
                                         294.5180054
                 0
01 12 2018 21:10
                 0
                       0.543569922 0
                                         301.7103882
01 12 2018 21:20 0
                       0.585911274 0
                                         148.4277039
01 12 2018 21:30 0
                       0.73494643 0
                                         104.8488998
01 12 2018 21:40 0
                       0.894320905 0
                                         79.37093353
01 12 2018 21:50
                       3.168066978 23.63786405 45.23902893
                 0
01 12 2018 22:00
                       3.574944973 60.84317689 41.60791016
                 0
01 12 2018 22:10 8.854200363 3.848371029 100.7265451 46.83908844
01 12 2018 22:20
                 11.95672035 3.287612915 31.82130839 55.92845917
01 12 2018 22:30
                 0
                       3.551878929 58.02575393 74.4417038
01 12 2018 22:40
                 67.1658783 4.128521919 147.2368669 70.68434143
01 12 2018 22:50
                 51.97842026 3.636004925 68.71233874 83.9227829
01 12 2018 23:00
                 17.27953911 3.131449938 21.5887249 100.9376984
01 12 2018 23:10 5.989050865 2.643815994 0
                                               106.5996017
01 12 2018 23:20 24.90135002 3.219990015 26.91132902 114.1184006
01 12 2018 23:30
                 15.02616024 3.078927994 19.02406606 101.9394989
01 12 2018 23:40 81.47286987 3.97676301 123.5816945 102.7537003
01 12 2018 23:50
                 128.1793976 4.085980892 139.1297582 86.7975769
02 12 2018 00:00 42.00904083 3.052741051 17.9102431 91.83631897
02 12 2018 00:10 81.63009644 3.432677984 44.82251454 84.52571869
02 12 2018 00:20 32.25181961 3.096673012 19.84119007 90.87650299
02 12 2018 00:30 49.41125107 3.014055967 16.46559657 90.9391098
                 247.6705933 4.285943031 178.0133919 85.80957031
02 12 2018 00:40
02 12 2018 00:50 439.4899902 5.051167011 348.6698389 78.05181122
02 12 2018 01:00 369.7069092 4.745765209 275.9111021 78.38110352
02 12 2018 01:10 300.2167969 4.671103001 259.1214381 78.46700287
02 12 2018 01:20 164.2200928 3.91822505 112.834181 84.88684845
02 12 2018 01:30 99.75977325 3.774609089 88.78903009 97.46951294
02 12 2018 01:40 76.92491913 3.532799006 55.7595506 100.2041016
02 12 2018 01:50 53.85041046 3.382559061 39.95000477 99.41523743
02 12 2018 02:00
                 33.89373016 2.976222992 0
                                               99.54553223
02 12 2018 02:10
                 22.83727074 2.995179892 0
                                               106.3163986
02 12 2018 02:20
                 -0.095933273
                                   2.551723957 0
                                                     106.2506027
02 12 2018 02:30
                 17.9370594 4.27136898 175.1106841 119.1087036
02 12 2018 02:40 114.239502 3.852468014 101.4151136 118.2238998
02 12 2018 02:50
                 76.49543762 4.408848763 202.9512844 119.5268021
02 12 2018 03:00
                 953.90802
                            7.432202816 1223.074523 124.7678986
02 12 2018 03:10 583.2476196 6.124619961 666.8406329 121.8694
02 12 2018 03:20
                 1344.081055 7.854643822 1447.888446 119.4926987
02 12 2018 03:30 1418.052002 7.833494186 1436.136355 119.4121017
02 12 2018 03:40 983.9384766 6.585669994 839.9112756 120.1858978
02 12 2018 03:50 1668.609009 8.682654381 1941.765478 121.6492004
02 12 2018 04:00 981.119812 7.254724026 1134.906068 120.3881989
02 12 2018 04:10 376.1875916 4.910851002 314.396885 114.5070038
02 12 2018 04:20 548.3173828 5.346865177 426.0075299 114.8427963
```

```
02 12 2018 04:30 1630.265991 8.529314041 1846.101087 124.0050964
02 12 2018 04:40 887.0609741 6.984364986 1008.965988 129.0740051
                 283.3591003 4.87722683 306.4012334 144.197998
02 12 2018 04:50
02 12 2018 05:00
                 849.5518799 6.905090809 973.8300743 126.6704025
02 12 2018 05:10
                 589.1226807 6.181849003 687.0733561 119.0038986
02 12 2018 05:20
                 450.6711121 5.249309063 399.6911482 116.8889999
02 12 2018 05:30
                  373.8750916 5.368367195 431.9182874 118.2247009
                 380.0770874 5.449045181 454.460571 122.3085022
02 12 2018 05:40
02 12 2018 05:50
                  638.3306274 6.765007019 913.6212069 135.766098
02 12 2018 06:00
                  716.2020264 6.509473801 809.7016732 135.9293976
02 12 2018 06:10
                  653.9666138 6.539721966 821.6164013 130.4810028
02 12 2018 06:20
                  434.6315918 5.529723167 477.5910788 126.1091003
02 12 2018 06:30
                 151.8072968 3.642841101 69.63048968 120.5214996
02 12 2018 06:40
                 292.170105 4.963243008 327.0207044 123.1765976
                 227.1616974 4.856098175 301.4187162 121.6990967
02 12 2018 06:50
02 12 2018 07:00
                 380.6575012 5.3963871 439.6817242 125.1167984
02 12 2018 07:10
                 220.9239044 4.764893055 280.2728205 123.861702
02 12 2018 07:20
                 83.50747681 3.863825083 103.3379045 131.5691071
02 12 2018 07:30
                 -0.188533098
                                   2.565596104 0
                                                      164.6432037
02 12 2018 07:40
                 0
                        1.68769896 0
                                          158.7427063
02 12 2018 07:50
                        1.55397296 0
                                          164.8755035
                 0
                        0.793898821 0
02 12 2018 08:00
                                          331.5867004
                 0
02 12 2018 08:10
                 0
                        1.584539056 0
                                          85.93302155
02 12 2018 08:20
                 0
                        1.999748945 0
                                          118,0270996
02 12 2018 08:30
                 0
                        2.345135927 0
                                          130.2740021
02 12 2018 08:40
                        3.936775923 116.1807599 121.7073975
02 12 2018 08:50
                 153.5469055 4.8232131
                                          293.7271208 118.1343002
                 174.4638977 4.571379185 237.2630522 118.4436035
02 12 2018 09:00
02 12 2018 09:10
                 98.83747101 3.928457975 114.6733922 130.0072021
                  25.46936035 3.372354984 39.00721824 120.8069
02 12 2018 09:20
02 12 2018 09:30
                 -0.017599991
                                   2.316109896 0
                                                      123.2479019
02 12 2018 09:40
                        1.749680042 0
                                          125.9403992
                 0
02 12 2018 09:50
                        1.55191505 0
                                          137.9373932
02 12 2018 10:00
                        2.389486074 0
                                          150.8755035
                 0
02 12 2018 10:10
                        2.758150101 0
                                          138.8246002
                 0
02 12 2018 10:20
                 0
                        2.770807028 0
                                          122.8999023
                        3.24831295 28.8787601 90.26152802
02 12 2018 10:30
                 0
                  41.15245819 3.918699026 112.9190009 70.71507263
02 12 2018 10:40
02 12 2018 10:50
                  42.74279022 3.310262918 33.62945968 83.53309631
02 12 2018 11:00
                  -0.113399498
                                    2,660547972 0
                                                      106.6034012
02 12 2018 11:10
                  14.94040012 3.6366961
                                          68.80482913 83.77303314
02 12 2018 11:20
                 102.1039963 4.05405283 133.1008926 83.39061737
02 12 2018 11:30
                  17.88471031 3.162031889 23.28536709 109.8597031
02 12 2018 11:40
                 0
                        2.11551404 0
                                          126.0914993
02 12 2018 11:50
                 0
                        2.30292201 0
                                          107.2538986
02 12 2018 12:00
                 0
                        2.687041044 0
                                          117.9654007
02 12 2018 12:10
                 0
                        1.999492049 0
                                          131.3896942
02 12 2018 12:20
                 0
                        1.517076969 0
                                          117.3171005
02 12 2018 12:30
                 0
                        1.545006037 0
                                          93.89144897
02 12 2018 12:40
                 0
                        1.327481985 0
                                          112.446701
02 12 2018 12:50
                  0
                        2.022277117 0
                                          150.411499
02 12 2018 13:00
                        2.613784075 0
                                          159.9340973
02 12 2018 13:10
                        2.29194808 0
                                          149.6835938
02 12 2018 13:20
                        1.761060953 0
                                          127.6072998
02 12 2018 13:30
                                          119.6593018
                 0
                        1.206604004 0
02 12 2018 13:40
                 0
                        1.145421028 0
                                          152.5930939
02 12 2018 13:50
                 0
                       1.018368006 0
                                          103.0077972
02 12 2018 14:00
                        2.176044941 0
                 0
                                          95.3167572
02 12 2018 14:10 0
                       2.654764891 0
                                          102.8243027
```

```
02 12 2018 14:20 0
                       2.914875984 0
                                         98.31242371
02 12 2018 14:30 0
                       3.443578005 45.93541186 114.953598
02 12 2018 14:40 0
                       3.123776913 21.18651914 113.4178009
02 12 2018 14:50 24.88158989 3.712119102 79.35690057 97.48416901
02 12 2018 15:00 129.7845001 3.838578939 99.09169708 90.16645813
02 12 2018 15:10 273.1409912 4.627294064 249.4406719 94.08306122
                 182.0341949 3.861995935 103.0268294 97.22994995
02 12 2018 15:20
02 12 2018 15:30
                 71.06832886 3.010622025 16.34893098 104.9702988
02 12 2018 15:40
                 15.56735039 2.868066072 0
                                               115.6744003
02 12 2018 15:50 0
                       2.419456005 0
                                         112.6386032
02 12 2018 16:00 111.473999 4.3821311
                                         197.4589016 121.677803
02 12 2018 16:10 193.2332001 4.343983173 189.6862033 118.8871002
02 12 2018 16:20 237.3567047 4.348671913 190.6371905 127.5427017
02 12 2018 16:30 80.55879211 3.293627977 32.2934864 120.5483017
02 12 2018 16:40 3.108736992 2.331327915 0 114.4784012
02 12 2018 16:50 0
                       2.68295002 0
                                         116.2582016
02 12 2018 17:00 0
                       2.577229023 0
                                         112.5021973
02 12 2018 17:10 64.95510101 3.991290092 126.3337668 124.4360962
02 12 2018 17:20 80.66020203 3.765506029 87.37615138 133.2993927
02 12 2018 17:30 237.263504 4.603825092 244.3053259 140.6446991
02 12 2018 17:40 83.14112854 3.382193089 39.91590339 138.9450989
02 12 2018 17:50 40.40975189 2.956440926 0
                                              151.8269958
02 12 2018 18:00
                 63.93413162 3.029706001 17.02118776 147.2789001
                                               138.8088989
02 12 2018 18:10
                 1.309339046 1.710050941 0
02 12 2018 18:20
                       0.859438419 0
                                         113.3943024
                 0
02 12 2018 18:30
                       0.910158694 0
                                         73.00630951
02 12 2018 18:40 0
                       0.862067819 0
                                         79.10266113
02 12 2018 18:50 0
                       0.784242928 0
                                         83.71082306
02 12 2018 19:00 0
                       0.743494213 0
                                         117.5327988
02 12 2018 19:10 0
                       1.243950963 0
                                         111.4582977
02 12 2018 19:20 0
                       1.26551497 0
                                         106.0261002
02 12 2018 19:30 0
                                         85.75273895
                       1.472156048 0
02 12 2018 19:40 0
                       2.372621059 0
                                         91.02159119
02 12 2018 19:50 0
                       2.201000929 0
                                         93.66153717
02 12 2018 20:00 0
                       2.487647057 0
                                         101.2378998
02 12 2018 20:10
                 0
                       2.542387962 0
                                         112.7266006
02 12 2018 20:20 0
                       3.323932886 34.76045353 132.2722931
02 12 2018 20:30 0
                       2.685507059 0
                                         119.9356995
                       2.339940071 0
02 12 2018 20:40 0
                                         108.6885986
02 12 2018 20:50 0
                       2.145145893 0
                                         98.95178223
02 12 2018 21:00 0
                       1.371026993 0
                                         111.8883972
02 12 2018 21:10 0
                                         104.7242966
                       1.952041984 0
02 12 2018 21:20 0
                       0.980861604 0
                                         94.06569672
02 12 2018 21:30 0
                       1.546234965 0
                                         73.15759277
02 12 2018 21:40 0
                                         84.57967377
                       1.64180398 0
02 12 2018 21:50 0
                       2.343421936 0
                                         87.24884033
02 12 2018 22:00 0
                       2.457398891 0
                                         106.3525009
02 12 2018 22:10 0
                       1.277739048 0
                                         98.36135864
02 12 2018 22:20 0
                       1.298485994 0
                                         108.206398
02 12 2018 22:30 0
                       1.791018963 0
                                         88.12507629
02 12 2018 22:40 0
                       1.757990956 0
                                         96.30145264
02 12 2018 22:50 0
                       2.683980942 0
                                         113.0794983
02 12 2018 23:00 0
                       3.317061901 34.18824076 121.4540024
02 12 2018 23:10 78.29773712 4.248011112 170.4818047 121.5557022
02 12 2018 23:20 45.57387924 3.629702091 67.87244481 137.0419006
02 12 2018 23:30 57.91690063 3.914464951 112.1625701 121.5449982
02 12 2018 23:40 25.70664978 3.446852922 46.27349626 118.5870972
02 12 2018 23:50 87.56712341 3.865271091 103.5841999 113.1182022
03 12 2018 00:00 11.76716995 3.062716007 18.32157604 108.8379974
```

```
03 12 2018 00:10 -0.085399993
                                    2.273703098 0
                                                      117.9112015
03 12 2018 00:20
                 16.21417999 3.645663977 70.01180491 127.2287979
03 12 2018 00:30
                 -0.952069521
                                    3.088707924 19.46818123 123.6044006
03 12 2018 00:40 0
                        3.477025032 49.46903152 145.2707977
03 12 2018 00:50 48.89915848 3.708529949 78.83413349 126.7098999
                  165.8003998 4.533627987 229.1517367 124.8877029
03 12 2018 01:00
                  68.89704132 3.346261978 36.6721719 118.9805984
03 12 2018 01:10
03 12 2018 01:20
                  38.74156189 3.533627033 55.85668991 132.7174072
03 12 2018 01:30
                  64.90231323 3.918648958 112.9100393 127.9856033
03 12 2018 01:40
                  0.056399871 1.960070014 0
                                                113,6633987
03 12 2018 01:50
                        1.709398031 0
                                          214.8143005
                 Θ
03 12 2018 02:00
                 0
                        2.169260979 0
                                          154.5440979
03 12 2018 02:10
                        2.183434963 0
                                          116.1668015
03 12 2018 02:20 0
                        1.41860795 0
                                          96.20966339
03 12 2018 02:30 0
                        1.272310972 0
                                          114.7348022
03 12 2018 02:40
                 0
                        3.182816029 24.52384894 110.6243973
03 12 2018 02:50 0
                        2.359352112 0
                                          108.6308975
03 12 2018 03:00 0
                        2.782075882 0
                                          105.0494003
03 12 2018 03:10 0
                                          82.82504272
                        2.115581989 0
03 12 2018 03:20 0
                        2.508728981 0
                                          110.218399
03 12 2018 03:30
                                          108.8628006
                        2.145957947 0
                 0
03 12 2018 03:40
                        2.492749929 0
                 0
                                          126.9745026
03 12 2018 03:50
                 0
                        2.575304985 0
                                          130.1963959
03 12 2018 04:00 0
                        1.225131989 0
                                          187.030899
03 12 2018 04:10 0
                        1.531003952 0
                                          164.5930023
03 12 2018 04:20
                        0.679432094 0
                                          212.0639954
03 12 2018 04:30 0
                        2.040019989 0
                                          225.8652039
03 12 2018 04:40
                                          184.9400024
                        1.291133046 0
                 0
03 12 2018 04:50
                 0
                        1.904636979 0
                                          108.387001
03 12 2018 05:00
                 0
                        1.871600032 0
                                          70.13564301
03 12 2018 05:10 0
                        1.652402997 0
                                          84.51432037
03 12 2018 05:20 0
                        1.89615202 0
                                          110.0205002
03 12 2018 05:30
                        2.107882023 0
                                          76.55725861
03 12 2018 05:40 0
                        1.99879396 0
                                          111.0707016
03 12 2018 05:50 0
                        2.033554077 0
                                          65.22915649
03 12 2018 06:00
                 0
                        1.759413004 0
                                          84.80988312
03 12 2018 06:10 0
                        1.822026014 0
                                          82.72248077
                        3.088701963 19.46790589 130.1511993
03 12 2018 06:20 0
                        2.975020885 0
03 12 2018 06:30 0
                                          113.1764984
03 12 2018 06:40 0
                        2.727428913 0
                                          131,5870056
03 12 2018 06:50
                        3.052073956 17.88330232 129.885498
03 12 2018 07:00
                        3.205971956 25.98505834 119.4046021
                 0
03 12 2018 07:10
                 28.41468048 3.719753981 80.47579079 121.5106964
03 12 2018 07:20
                 0.095066503 2.345869064 0
                                                89.00538635
03 12 2018 07:30
                        2.955334902 0
                                          109.0846024
                 0
03 12 2018 07:40
                        2.757724047 0
                                          122.5700989
03 12 2018 07:50
                 0
                        2.514173985 0
                                          123.9745026
03 12 2018 08:00
                 0
                        1.939538956 0
                                          120.723999
03 12 2018 08:10
                 0
                        1.69212997 0
                                          123.1361008
03 12 2018 08:20
                 0
                        2.705862999 0
                                          138.6912994
03 12 2018 08:30
                 0
                        2.83267498 0
                                          137.4902954
03 12 2018 08:40
                 3.367130995 3.532715082 55.74971133 148.3063965
03 12 2018 08:50
                        2.358474016 0
                                          143.7745056
03 12 2018 09:00
                        2.492830992 0
                                          150.2088928
                 0
03 12 2018 09:10
                        1.241870046 0
                                          159.8181
                 0
03 12 2018 09:20
                 0
                        1.298203945 0
                                          150.8983002
03 12 2018 09:30 0
                       1.64654696 0
                                          149.7203064
03 12 2018 09:40 0
                        1.635084987 0
                                          149.871994
03 12 2018 09:50 0
                       0.971754611 0
                                          131.7888947
```

```
03 12 2018 10:00 0
                       1.519297004 0
                                         141.069397
03 12 2018 10:10
                 0
                       1.488203049 0
                                         160.4674988
03 12 2018 10:20
                       0.525983572 0
                                         172.0162048
                 0
03 12 2018 10:30 0
                       1.573390961 0
                                         217.9161072
03 12 2018 10:40
                 0
                       1.835577011 0
                                         219.5054932
03 12 2018 10:50
                       2.110399008 0
                                         225.5811005
03 12 2018 11:00
                 0
                       1.363464952 0
                                         274.0694885
                                         236.9700928
03 12 2018 11:10
                 0
                       0.999443471 0
03 12 2018 11:20
                 0
                       1.718458056 0
                                         179.9015045
03 12 2018 11:30
                 0
                       1.835708022 0
                                         168.0384979
03 12 2018 11:40
                       0.836633027 0
                 0
                                         133.6640015
03 12 2018 11:50
                       0.871868074 0
                                         126.0184021
03 12 2018 12:00
                       0.905878127 0
                                         121.9505005
03 12 2018 12:10
                       0.820583522 0
                                         117.3957977
03 12 2018 12:20
                       1.414188981 0
                                         85.55831909
                 0
03 12 2018 12:30
                 0
                       1.660226941 0
                                         77.96917725
03 12 2018 12:40 0
                       2.323411942 0
                                         77.17671204
03 12 2018 12:50 0
                       2.836796999 0
                                         76.11607361
03 12 2018 13:00 0
                       3.080431938 19.09136576 76.65337372
03 12 2018 13:10 0
                       3.368788004 38.68158347 74.77097321
03 12 2018 13:20
                       3.351398945 37.12326371 76.8350296
                 0
03 12 2018 13:30 0
                       3.219316006 26.86607301 80.91287994
03 12 2018 13:40
                 0
                       3.696347952 77.07517207 76.47868347
03 12 2018 13:50 44.98413086 3.833137035 98.18977071 74.52089691
03 12 2018 14:00
                 1.320068002 2.477230072 0
                                               91.11930847
03 12 2018 14:10 0
                       2.585484982 0
                                         91.87940979
03 12 2018 14:20 43.87088013 3.814766884 95.18014628 85.12359619
03 12 2018 14:30 319.3674011 5.49709177 468.1636849 78.40390015
03 12 2018 14:40 480.2488098 6.020567894 630.950915 76.89835358
03 12 2018 14:50 82.18250275 3.295293093 32.42521982 92.62094116
03 12 2018 15:00
                 77.22675323 3.614628077 65.88951225 118.0167007
03 12 2018 15:10 200.2624969 4.676782131 260.3855391 122.4309006
03 12 2018 15:20
                 185.6835938 4.183625221 157.8677843 120.3147964
03 12 2018 15:30
                 96.02937317 3.734431028 82.65290774 116.9322968
03 12 2018 15:40
                 144.6759949 4.305562973 181.9389348 118.5403976
                 258.6148071 5.00497818 337.2235159 119.7863007
03 12 2018 15:50
03 12 2018 16:00 660.8364868 6.474312782 795.9796076 123.6807022
                 844.7589111 6.952556133 994.7734811 128.8643036
03 12 2018 16:10
03 12 2018 16:20 759.7863159 6.97120285 1003.07787 124.6072998
                 1103.859009 7.689176083 1357.344353 124.6561966
03 12 2018 16:30
03 12 2018 16:40 1171.78894 7.674091816 1349.254572 125.419899
03 12 2018 16:50 1270.609009 7.970163822 1512.957282 124.6897964
03 12 2018 17:00 1127.865967 7.51593399 1266.185941 126.2213974
03 12 2018 17:10
                 1173.595947 7.552717209 1285.213421 123.9501038
03 12 2018 17:20 611.8380737 6.226575851 703.130165 121.6248016
03 12 2018 17:30
                 606.4354858 6.300331116 730.0774053 123.4577026
03 12 2018 17:40
                 487.7809143 5.677280903 521.473374 119.6046982
03 12 2018 17:50
                 656.1513062 6.439519882 782.5356923 120.748497
03 12 2018 18:00 642.5610962 6.469523907 794.1212729 123.9093018
                 511.975708 6.022635937 631.6529564 125.7574997
03 12 2018 18:10
03 12 2018 18:20
                 416.890686 5.616754055 503.2218365 126.3070984
03 12 2018 18:30
                 324.5227966 5.209802151 389.262957 127.2714996
03 12 2018 18:40
                 201.9414978 4.621459961 248.1608069 124.9688034
03 12 2018 18:50 206.1678009 4.675690174 260.1423193 118.3722992
03 12 2018 19:00 412.985199 5.640470982 510.331362 117.9486008
03 12 2018 19:10 514.6882935 5.804505825 561.0124206 117.5037994
03 12 2018 19:20 146.3038025 3.795941114 92.15189627 104.5902023
03 12 2018 19:30 626.9633179 5.829583168 568.9981964 114.1501999
03 12 2018 19:40 1256.371948 7.577672958 1298.22507 120.5731964
```

```
03 12 2018 19:50 1590.619019 8.390888214 1761.151098 120.6311035
                 1191.547974 7.847845078 1444.105072 120.0269012
03 12 2018 20:00
03 12 2018 20:10
                 649.1619263 6.494146824 803.7032619 121.8934021
03 12 2018 20:20
                 769.7299805 6.382871151 760.9310185 118.239502
                 789.4429932 6.449512959 786.3833513 116.8444977
03 12 2018 20:30
03 12 2018 20:40
                 1214.312012 7.806371212 1421.140237 120.2343979
                 1289.369019 8.136149406 1608.901041 119.3582993
03 12 2018 20:50
                 768.7125244 6.537607193 820.780074 117.9751968
03 12 2018 21:00
03 12 2018 21:10
                 415.6655884 5.372447968 433.0446366 118.1938019
                 357.6553955 4.83636713 296.7945666 116.9445038
03 12 2018 21:20
03 12 2018 21:30
                 267.4656982 4.639638901 252.1560364 118.180397
03 12 2018 21:40
                 244.1977997 4.470534801 215.7888232 117.2027969
03 12 2018 21:50
                 432.5259094 5.480653763 463.4517891 115.8984985
03 12 2018 22:00
                 328.0031128 5.004631996 337.1383435 117.780899
03 12 2018 22:10 472.3977966 5.534107208 478.8651705 116.7818985
03 12 2018 22:20 49.85654068 2.829684973 0
                                               108.2610016
03 12 2018 22:30
                 80.28401947 3.358778
                                         37.77862825 115.6519012
03 12 2018 22:40
                 26.72410011 3.061022043 18.25060056 93.88744354
03 12 2018 22:50
                 127.8094025 3.46559
                                         48.24080386 108.1718979
03 12 2018 23:00
                 61.36249924 3.152307034 22.72961967 105.6807022
                 75.75398254 3.199438095 25.56406334 105.3783035
03 12 2018 23:10
03 12 2018 23:20
                 301.0768127 4.31645298 184.1267176 101.9676971
03 12 2018 23:30
                 838.1248169 6.480738163 798.4769736 103.021698
03 12 2018 23:40
                 1433.562988 7.803647041 1419.638772 104.3781967
03 12 2018 23:50
                 1182.406982 7.036990166 1032.727674 104.2955017
04 12 2018 00:00
                 762.3311768 5.753749847 545.044675 92.17577362
04 12 2018 00:10 658.4301758 5.406573772 442.5213529 89.98246002
04 12 2018 00:20 650.2327271 5.304780006 414.5548566 87.92632294
04 12 2018 00:30
                 792.3635864 5.888467789 588.004157 95.22812653
                 1226.628052 6.996171951 1014.266483 100.9651031
04 12 2018 00:40
04 12 2018 00:50
                 1256.151978 7.257944107 1136.46555 102.5740967
04 12 2018 01:00
                 993.7938843 6.616370201 852.2676961 102.4716034
04 12 2018 01:10
                 1523.662964 7.591348171 1305.389848 109.9212036
04 12 2018 01:20
                 2605.797119 10.11491013 2861.504978 115.1417999
                 2923.905029 10.9439497 3252.291357 116.3259964
04 12 2018 01:30
                 3119.537109 11.74378967 3476.3628
04 12 2018 01:40
                                                     117.2070999
04 12 2018 01:50
                 2820.593994 10.95259953 3255.448412 116.2860031
04 12 2018 02:00
                 1548.55603 7.607713223 1313.995876 114.4807968
04 12 2018 02:10 630.1326904 5.820550919 566.1145095 106.3975983
04 12 2018 02:20
                 1418.218018 7.975049019 1515.740805 109.1231003
04 12 2018 02:30
                 1694.718018 8.292789459 1701.855617 108.9835968
04 12 2018 02:40 1377.410034 7.648656845 1335.6781
                                                     106.2742004
04 12 2018 02:50
                 1060.762939 7.014968872 1022.741489 104.046402
04 12 2018 03:00
                 1247.026001 7.547102928 1282.297543 104.9449005
04 12 2018 03:10
                 1178.687988 7.536513805 1276.80931 104.896698
04 12 2018 03:20
                 903.6503296 6.650818825 866.2603819 104.5175018
                 904.3546753 6.784749985 921.9645114 105.1399994
04 12 2018 03:30
                 935.5487061 7.018474102 1024.32688 104.8562012
04 12 2018 03:40
04 12 2018 03:50 830.0601807 6.58515501 839.7049108 106.7657013
04 12 2018 04:00
                 1540.506958 8.014264107 1538.175736 108.6939011
04 12 2018 04:10
                 1984.072998 8.995680809 2141.206857 114.5343018
04 12 2018 04:20
                 671.7539063 6.083409786 652.4880357 105.8367004
04 12 2018 04:30
                 608.1901245 5.674944878 520.7623652 101.2422028
04 12 2018 04:40
                 649.7631226 5.699552059 528.2787995 100.3884964
04 12 2018 04:50 487.2388916 5.148817062 373.4181753 102.9377975
04 12 2018 05:00
                 737.071228 5.977737904 617.5102801 102.0923996
04 12 2018 05:10 817.2711792 6.126455784 667.4842319 100.4926987
04 12 2018 05:20 903.2047119 6.536943913 820.5178701 98.69451141
04 12 2018 05:30 1159.958984 6.995943069 1014.163564 102.8377991
```

```
1137.057983 7.079641819 1052.24718 105.4561005
04 12 2018 05:40
04 12 2018 05:50
                 1086.614014 6.51140213 810.4581984 96.58875275
04 12 2018 06:00
                 1063,452026 6,430356026 779,0169552 97,85076141
04 12 2018 06:10
                 816.878418 5.864299774 580.1601006 93.83058167
                 868.6834106 5.807750225 562.041972 93.64573669
04 12 2018 06:20
04 12 2018 06:30
                 844.2617188 5.664678097 517.6438059 83.86353302
04 12 2018 06:40
                 1118.270996 7.235072136 1125.420023 77.98280334
                  900.5308838 6.204194069 695.0683664 79.05886841
04 12 2018 06:50
                 656.0552979 5.045030117 347.1395464 89.38269806
04 12 2018 07:00
04 12 2018 07:10
                  675.3416748 4.934296131 320.0208773 90.0663681
04 12 2018 07:20
                 751.7077026 5.919284821 598.0947824 80.69828796
04 12 2018 07:30
                 835.6904297 5.877911091 584.5703613 80.58061218
04 12 2018 07:40
                 823.7512817 6.793863773 925.8315506 77.56323242
04 12 2018 07:50
                 1012.843994 7.618151188 1319.503055 76.97557831
04 12 2018 08:00
                 1135.52002 7.827754974 1432.956103 76.57364655
04 12 2018 08:10
                 1142.876953 7.715078831 1371.301795 75.43314362
04 12 2018 08:20
                 1092.552979 7.276640892 1145.549114 72.34809113
04 12 2018 08:30
                 1192.939941 7.589235783 1304.281523 71.68359375
                 1366.588989 7.979921818 1518.519774 70.24358368
04 12 2018 08:40
04 12 2018 08:50
                 1414.365967 8.037059784 1551.290239 70.5905838
04 12 2018 09:00
                 1380.280029 8.002860069 1531.634973 69.08820343
                 1289.244019 7.833143234 1435.941774 70.57083893
04 12 2018 09:10
                 1311.128052 7.871013165 1457.019125 72.61994171
04 12 2018 09:20
04 12 2018 09:30
                 1267.454956 7.712233067 1369.764353 72.34690857
04 12 2018 09:40
                 1266.249023 7.717810154 1372.778341 73.47427368
04 12 2018 09:50
                 1318.362061 7.928318024 1489.218408 76.87552643
04 12 2018 10:00
                 1036.75
                              7.186480045 1102.193485 74.84378815
04 12 2018 10:10
                 1134.515991 7.444344044 1229.275354 69.95252991
                 1061.029053 7.183965206 1101.000213 70.54608917
04 12 2018 10:20
                 1156.020996 7.468146801 1241.496852 68.71040344
04 12 2018 10:30
                 1143.505981 7.355029106 1184.173893 69.46630859
04 12 2018 10:40
04 12 2018 10:50
                 1155.267944 7.429636002 1221.766431 69.35842896
04 12 2018 11:00
                 1086.446045 7.310513973 1162.131677 69.27451324
04 12 2018 11:10
                 843.5214844 6.721687794 895.4754794 68.51454926
                 824.1663818 6.725934982 897.2448415 71.8632431
04 12 2018 11:20
04 12 2018 11:30
                 583.0684204 5.907986164 594.3836136 72.65116882
                 684.4155884 5.808230877 562.1945893 75.98635864
04 12 2018 11:40
04 12 2018 11:50
                 1467.692993 7.497541904 1256.709353 79.02603912
04 12 2018 12:00
                 1458.411987 7.173559189 1096.071761 80.06598663
04 12 2018 12:10
                 1167.649048 6.673150063 875.4036716 82.60785675
04 12 2018 12:20 920.3792114 5.895431995 590.2757859 83.55238342
                 1460.910034 7.584199905 1301.641651 79.38362885
04 12 2018 12:30
04 12 2018 12:40
                 1594.300049 8.017481804 1540.023668 79.03058624
04 12 2018 12:50
                 2401.019043 9.764081001 2636.470397 73.78983307
04 12 2018 13:00
                 2381.974121 9.994342804 2788.579495 74.4224472
                  1644.628052 8.459209442 1802.900287 72.11976624
04 12 2018 13:10
                 1420.040039 8.045221329 1555.998508 69.36482239
04 12 2018 13:20
                 1333.890991 7.858981133 1450.304816 67.15348053
04 12 2018 13:30
                 1531.890991 8.435022354 1788.079358 68.15220642
04 12 2018 13:40
04 12 2018 14:50
                 0
                       0
                              0
                                    0
04 12 2018 15:00
                 0
                       7.643770218 1333.079094 0
04 12 2018 15:20
                        6.411018848 771.6220882 0
04 12 2018 15:30
                  255.501297 7.032714844 1030.784041 68.31781006
04 12 2018 15:40
                 1561.636963 8.337723732 1728.917798 67.55825043
04 12 2018 15:50
                 1440.667969 8.025476456 1544.619627 68.26753235
04 12 2018 16:00
                 1479.129028 8.119080544 1598.908752 68.62017822
04 12 2018 16:10
                 1550.368042 8.235396385 1667.54113 67.76442719
04 12 2018 16:20 1150.333008 7.384115219 1198.731812 68.96111298
04 12 2018 16:30 1252.904053 7.638596058 1330.330461 66.99697876
```

```
04 12 2018 16:40 1193.311035 7.547772884 1282.645277 65.82491302
                  733.7709961 6.557017803 828.4751617 72.48075867
04 12 2018 16:50
04 12 2018 17:00
                  586,6201172 6,07033205 647,9712744 73,72667694
04 12 2018 17:10
                  645.6112061 6.241044044 708.3701374 73.11653137
                  602.6713257 6.22733593 703.4048847 69.38056946
04 12 2018 17:20
04 12 2018 17:30
                  713.3079834 6.479526043 798.005507 67.88037109
04 12 2018 17:40
                  828.6107178 6.796463013 926.9362343 70.96304321
                  993.1591797 7.172314167 1095.483082 73.91433716
04 12 2018 17:50
04 12 2018 18:00
                  898.1464233 6.928240776 984.0097755 72.18959808
                  843.3981934 6.778106213 919.1517279 70.5092392
04 12 2018 18:10
04 12 2018 18:20
                  789.369812 6.590144157 841.7054259 72.62106323
04 12 2018 18:30
                  888.2957764 6.973134995 1003.940853 74.95175934
04 12 2018 18:40
                  657.2720947 6.205256939 695.4499916 77.18379211
04 12 2018 18:50
                  608.0668945 6.213821888 698.5296706 75.63291168
04 12 2018 19:00
                  572.663208 6.091969013 655.4540965 71.91531372
04 12 2018 19:10
                  580.4451294 6.128994942 668.3749981 71.06495667
04 12 2018 19:20
                  477.6630859 5.757640839 546.2595924 71.10601044
04 12 2018 19:30
                  351.6830139 5.321303844 419.0332604 70.49337006
                  528.3842163 5.977570057 617.4540072 68.33992767
04 12 2018 19:40
                  427.4413147 5.609072208 500.9306478 72.29669952
04 12 2018 19:50
04 12 2018 20:00
                  372.4661865 5.444181919 453.0852319 73.96703339
                  321.5089111 4.848733902 299.6895939 76.8030777
04 12 2018 20:10
04 12 2018 20:20
                  267.3839111 4.221540928 165.2703802 83.91047668
04 12 2018 20:30
                  77.70094299 4.739568233 274.5033432 94.75016022
04 12 2018 20:40
                        5.272170067 405.7852503 92.36519623
04 12 2018 20:50
                        5.349326134 426.6819833 99.22737885
04 12 2018 21:00
                        4.261055946 173.0634081 99.83161163
04 12 2018 21:10
                        5.278747082 407.5466818 92.15260315
                  0
04 12 2018 21:20
                  0
                        5.97940588 618.0696564 85.23782349
04 12 2018 21:30
                  0
                              0
                        6.443037033 783.8886574 0
04 12 2018 21:40
                  0
04 12 2018 21:50
                  0
                        6.767793179 914.7958347 87.07608032
04 12 2018 22:00
                        6.789105892 923.81152
                                                82.88860321
04 12 2018 22:10
                  0
                        6.894701958 969.2832654 78.69241333
                        6.744345188 904.9388405 77.34438324
04 12 2018 22:20
                  0
04 12 2018 22:30
                  0
                        6.488317013 801.4285319 79.12042999
                        6.814623833 934.6771052 81.72518921
04 12 2018 22:40
                  0
                        6.685536861 880.5000633 82.15537262
04 12 2018 22:50
04 12 2018 23:00
                        6.657059193 868.8096696 80.97271729
04 12 2018 23:10
                        6.251959801 712.3384
                                                76.16558838
04 12 2018 23:20
                        5.913833141 596.3024407 63.6044693
04 12 2018 23:30
                        6.184371948 687.9733816 59.46007919
                  0
04 12 2018 23:40
                        5.919336796 598.1118853 66.16956329
                  0
04 12 2018 23:50
                  0
                        5.492993832 466.9867072 68.10153198
05 12 2018 00:00
                  0
                        5.719145775 534.3064178 71.41081238
05 12 2018 00:10
                        5.421313763 446.6466223 65.17931366
                        5.133666992 369.5288351 59.87490845
05 12 2018 00:20
                  0
05 12 2018 00:30
                        5.866217136 580.7801893 55.13652039
                  0
05 12 2018 00:40
                  0
                        5.881221771 585.6459817 55.3653183
05 12 2018 00:50
                  0
                        5.93282795 602.5609107 56.16873932
05 12 2018 01:00
                        5.76416111 548.298876 59.90599823
05 12 2018 01:10
                        5.592409134 495.980066 62.92763901
05 12 2018 01:20
                        6.019699097 630.6561196 68.2204895
05 12 2018 01:30
                        6.166595936 681.6465505 73.0582428
05 12 2018 01:40
                        7.044974804 1036.363924 75.20121765
                  0
05 12 2018 01:50
                  0
                        6.086046219 653.4008144 65.88575745
05 12 2018 02:00
                  0
                        5.74450016 542.1626475 68.39174652
                  0
                       6.878426075 962.1865197 75.18695831
05 12 2018 02:10
05 12 2018 02:20
                       7.517445087 1266.964036 78.84903717
```

```
05 12 2018 02:30
                        7.969214916 1512.416901 80.97673035
                  0
05 12 2018 02:40
                        7.979188919 1518.10164 80.84947205
                  0
05 12 2018 02:50
                  0
                        7.41700983 1215.34632 77.97952271
05 12 2018 03:00
                  0
                        7.530649185 1273.776182 78.57128143
                  0
05 12 2018 03:10
                        6.944636822 991.2597464 77.35360718
05 12 2018 03:20
                        7.21228981 1114.489909 74.96027374
05 12 2018 03:30
                  0
                        7.519342899 1267.941696 70.01869202
                        6.623056889 854.9731792 66.18295288
05 12 2018 03:40
                  0
                        6.806890965 931.3762333 60.46789932
05 12 2018 03:50
                  0
                        6.540502071 821.9250352 64.13757324
05 12 2018 04:00
                  0
05 12 2018 04:10
                        6.840908051 945.9504515 53.77357864
                  0
05 12 2018 04:20
                        6.687024117 881.1131666 49.36511993
05 12 2018 04:30
                        6.689112186 881.9743801 38.03662872
05 12 2018 04:40
                        6.846217155 948.2376298 39.19205856
05 12 2018 04:50
                        6.546051025 824.1223378 34.03052139
                  0
05 12 2018 05:00
                  0
                        7.156188011 1087.877129 35.97903061
05 12 2018 05:10
                  0
                        7.443871021 1229.033353 36.77711105
05 12 2018 05:20
                  0
                        7.597860813 1308.810546 29.21323967
                  0
                        9.061745644 2183.869702 29.20999908
05 12 2018 05:30
05 12 2018 05:40
                  0
                        10.09132004 2847.587558 34.76575851
05 12 2018 05:50
                                    3086.458248 27.86297035
                  0
                        10.54389
                        12.61170006 3586.53448 24.81991959
05 12 2018 06:00
                  0
05 12 2018 06:10
                        12.10859013 3537.835412 26.29290009
05 12 2018 06:20
                  0
                        14.04061985 3600 23.07139015
                        11.77077961 3481.717742 0
05 12 2018 06:30
05 12 2018 06:40
                        14.29028034 3600 22.00547981
05 12 2018 06:50
                        13.6656599 3600 25.09353065
                        11.91246033 3507.67662 25.25575066
05 12 2018 07:00
                  0
05 12 2018 07:10
                        13.53699017 3600 27.10438919
                  0
05 12 2018 07:20
                        11.36693001 3387.173844 24.73209
                  0
                        11.88284016 3502.544679 21.85207939
05 12 2018 07:30
                  0
05 12 2018 07:40
                  0
                        13.16415024 3600 23.55780983
05 12 2018 07:50
                        15.00518036 3600 25.88187027
05 12 2018 08:00
                  0
                        11.99860001 3521.732133 19.1742897
05 12 2018 08:10
                  0
                        14.51043034 3600 23.99617004
                        14.11198044 3600
05 12 2018 08:20
                  0
                                          24.52979088
05 12 2018 08:30
                  0
                        15.10515022 3600
                                          28.08530045
05 12 2018 08:40
                        14.90427971 3600 29.31390953
05 12 2018 08:50
                        14.67033958 3600 25.69462967
05 12 2018 09:00
                        14.37602997 3600 24.25481033
05 12 2018 09:10
                        15.91366959 3600
                                          28.15107918
                  0
05 12 2018 09:20
                        14.84307003 3600
                  0
                                          31.93502998
05 12 2018 09:30
                        13.80173969 3600 32.14934921
                  0
05 12 2018 09:40
                  0
                        11.40882015 3398.463837 30.80377007
05 12 2018 09:50
                  0
                        12.73793983 3592.65235 16.58386993
                        15.16415977 3600 15.78530025
05 12 2018 10:00
05 12 2018 10:10
                  0
                        13.41819
                                    3600 20.02038956
05 12 2018 10:20
                        14.32388973 3600 28.97611046
                  0
05 12 2018 10:30
                        16.42855072 3600
                  0
                                          28.38941956
05 12 2018 10:40
                  0
                        14.74361992 3600
                                          26.85644913
05 12 2018 10:50
                        14.25065041 3600 29.43337059
05 12 2018 11:00
                        12.44594955 3574.867445 32.10256958
05 12 2018 11:10
                        11.80745029 3488.781245 35.65884018
05 12 2018 11:20
                        12.96549988 3597.804658 30.77506065
05 12 2018 11:30
                        14.4597702 3600 24.13633919
                  0
05 12 2018 11:40
                  0
                        12.1058197 3537.454786 23.55351067
05 12 2018 11:50
                  0
                        11.73622036 3474.837082 26.1860199
05 12 2018 12:00
                        12.26274967 3557.023406 23.44750977
                  0
                                    3600 28.59830093
05 12 2018 12:10 0
                        13.76194
```

```
05 12 2018 12:20 0
                       14.71936035 3600 24.25081062
05 12 2018 12:30 0
                       12.76235962 3593.564518 22.3180809
05 12 2018 12:40 0
                       12.57522011 3584.324283 20.92635918
05 12 2018 12:50 0
                       13.64326954 3600 18.09968948
05 12 2018 13:00 0
                       13.86203003 3600 24.9684391
05 12 2018 13:10 0
                       10.14330959 2878.036712 40.04111099
05 12 2018 13:20 1445.975952 11.33911991 3379.480908 40.40938187
05 12 2018 13:30 3594.583008 12.92107964 3597.383768 39.88742065
                 3598.033936 13.52497005 3600 38.39162064
05 12 2018 13:40
                 3570.728027 13.29319954 3600
05 12 2018 13:50
                                               37.52312088
05 12 2018 14:00
                 3600.547119 13.91872978 3600 36.80134964
05 12 2018 14:10 3596.512939 13.45454025 3600 39.41046906
05 12 2018 14:20
                 3553.406006 12.28787041 3559.784562 38.33335114
05 12 2018 14:30 3458.584961 11.62207985 3450.541854 34.46371841
05 12 2018 14:40 2751.229004 10.03697968 2814.88141 38.09107971
05 12 2018 14:50 2501.8479 9.262923241 2314.676258 27.51794052
05 12 2018 15:00 3290.201904 11.00852013 3275.441897 24.99885941
05 12 2018 15:10 3547.351074 12.37742996 3568.81153 20.70778084
05 12 2018 15:20 3392.937988 11.18661022 3334.424688 25.38579941
05 12 2018 15:30 3556.340088 12.2543602 3556.078707 23.32188988
05 12 2018 15:40 3558.873047 12.69332981 3590.759956 23.17712021
05 12 2018 15:50 3509.021973 12.06902981 3532.278561 26.64345932
05 12 2018 16:00
                 3531.197998 11.97222996 3517.565584 25.3164196
05 12 2018 16:10 3545.166992 11.86427021 3499.248383 21.62784958
05 12 2018 16:20 3601.184082 13.25625992 3600 19.58523941
05 12 2018 16:30 3588.416016 13.31482029 3600 21.85061073
05 12 2018 16:40 3590.413086 12.37271976 3568.368315 20.38419914
05 12 2018 16:50 3593.623047 12.86470032 3596.443324 20.54768944
05 12 2018 17:00 3467.452881 11.83240032 3493.44852 24.92136002
05 12 2018 17:10 3509.486084 11.58347034 3441.768446 21.09666061
05 12 2018 17:20 3339.233887 11.52085018 3426.929889 24.2889595
05 12 2018 17:30 3294.310059 10.74106026 3173.146264 21.71154022
05 12 2018 17:40 3509.589111 11.77221966 3481.999722 21.45401001
05 12 2018 17:50 3599.97998 12.6955204 3590.859728 19.60866928
05 12 2018 18:00 3526.281982 12.50646019 3579.611722 21.07164001
05 12 2018 18:10 3448.202881 11.51593018 3425.731781 22.63658905
05 12 2018 18:20 3538.216064 12.39433002 3570.373173 20.4542408
05 12 2018 18:30 3267.239014 11.02602005 3281.551694 26.4995594
05 12 2018 18:40 3527.562988 11.93387032 3511.290341 22.17831993
05 12 2018 18:50 3386.983887 12.15044022 3543.430039 25.42494965
05 12 2018 19:00 3347.460938 11.08864021 3302.848427 23.59433937
05 12 2018 19:10 3544.158936 12.04518032 3528.801455 21.76707077
05 12 2018 19:20 3427.455078 12.01601982 3524.419142 23.82551003
05 12 2018 19:30 3499.158936 11.36923981 3387.805666 19.5249691
05 12 2018 19:40 3583.779053 12.1021204 3536.944546 19.38824081
05 12 2018 19:50 3551.093018 12.11985016 3539.369261 20.12602997
05 12 2018 20:00 3518.554932 11.19048977 3335.632052 18.76663971
05 12 2018 20:10 3593.702881 12.91975975 3597.366956 17.54731941
05 12 2018 20:20 3573.663086 12.57979012 3584.61213 18.41670036
05 12 2018 20:30
                 3597.839111 13.40664959 3600 18.00938988
05 12 2018 20:40
                 3569.403076 12.73513985 3592.542178 19.83003998
05 12 2018 20:50
                 3537.058105 12.30360031 3561.462129 19.19300079
05 12 2018 21:00
                 3547.521973 11.8716898 3500.572732 19.27658081
05 12 2018 21:10
                 3581.056885 12.45748043 3575.814953 16.07943916
05 12 2018 21:20
                 3491.448975 12.07849026 3533.631289 16.62862015
05 12 2018 21:30 3601.825928 13.74561977 3600 13.89486027
05 12 2018 21:40 3601.510986 14.14375973 3600 13.69598007
05 12 2018 21:50 3595.702881 13.30725956 3600 11.99454975
05 12 2018 22:00 3594.535889 12.71360016 3591.656151 9.854280472
```

```
3584.301025 13.17623997 3600 9.809733391
05 12 2018 22:10
05 12 2018 22:20
                 3579.375
                             12.76387978 3593.618417 10.61104965
05 12 2018 22:30
                 3601.570068 13.68496037 3600 10.04601955
05 12 2018 22:40
                 3601.138916 14.99853039 3600
                                               10.53334045
05 12 2018 22:50
                 3601.349121 15.05039978 3600 10.90007019
05 12 2018 23:00
                 3601.76001 15.60239983 3600 11.29625988
05 12 2018 23:10
                 3601.118896 15.16431999 3600
                                               10.61015034
                 3601.238037 15.30498981 3600
05 12 2018 23:20
                                               12.19754982
05 12 2018 23:30
                 3601.362061 16.3732605 3600
                                               10.62534046
05 12 2018 23:40
                 3601.436035 15.83127975 3600
                                               12.54197025
05 12 2018 23:50
                 3601.399902 15.02630997 3600
                                               12.28269005
06 12 2018 00:00
                 3601.053955 15.66071033 3600
                                               11.0594902
06 12 2018 00:10
                 3601.552979 15.22334003 3600
                                               13.73505974
06 12 2018 00:20
                 3601.520996 14.7351799 3600
                                               13.97208023
06 12 2018 00:30
                 3601.606934 14.56204033 3600
                                               14.81569004
06 12 2018 00:40
                 3600.766113 15.49265003 3600
                                               17.79972076
06 12 2018 00:50
                 3601.246094 15.48618031 3600
                                               16.92550087
06 12 2018 01:00
                 3592.968994 15.09831047 3600 16.86631012
                 3596.180908 14.11244965 3600 17.17933083
06 12 2018 01:10
06 12 2018 01:20
                 3601.158936 13.9120903 3600
                                               16.1455307
                 3601.327881 15.89715958 3600
06 12 2018 01:30
                                               16.91939926
                 3599.829102 14.33226967 3600
                                               17.0578804
06 12 2018 01:40
06 12 2018 01:50
                 3601.362061 16.11837959 3600
                                               15.97214031
06 12 2018 02:00
                 3601.111084 14.77799034 3600
                                               15.76156044
                 3601.417969 14.91977024 3600
06 12 2018 02:10
                                               16.39526939
06 12 2018 02:20
                 3601.321045 14.70318985 3600
                                               15.1268301
06 12 2018 02:30
                 3601.183105 15.90003014 3600
                                               17.07369041
06 12 2018 02:40
                 3601.068115 16.37519073 3600
                                               20.39273071
06 12 2018 02:50
                 3600.947998 14.30951977 3600
                                               21.13482094
06 12 2018 03:00
                 3601.462891 15.75185013 3600
                                               16.43709946
                 3600.964111 16.02903938 3600 16.78039932
06 12 2018 03:10
06 12 2018 03:20
                 3599.730957 15.35772038 3600 20.20812988
06 12 2018 03:30
                 3601.133057 16.15653992 3600 19.21446037
                                               20.23218918
06 12 2018 03:40
                 3601.019043 16.35226059 3600
                             15.85902977 3600
06 12 2018 03:50
                 3601.0271
                                               17.65291023
06 12 2018 04:00
                 3600.657959 16.05624962 3600
                                               19.87796021
06 12 2018 04:10
                 3601.014893 16.38084984 3600
                                               19.78706932
                                               23.07414055
06 12 2018 04:20
                 3601.069092 16.5250206 3600
06 12 2018 04:30
                 3600.843018 14.96936989 3600
                                               21.34078026
06 12 2018 04:40
                 3601.166016 17.01371002 3600
                                               20.71476936
06 12 2018 04:50
                 3600.962891 16.90737915 3600
                                               21.34873009
06 12 2018 05:00
                 3600.710938 18.04089928 3600
                                               24.18065071
06 12 2018 05:10
                 3600.924072 15.80601978 3600
                                               23.07752991
06 12 2018 05:20
                 3600.879883 17.03108978 3600
                                               18.4311409
06 12 2018 05:30
                 3601.00293 18.55241013 3600
                                              19.44614983
06 12 2018 05:40
                 3596.295898 16.79829025 3600 21.15089035
06 12 2018 05:50
                 3600.616943 15.53812027 3600
                                               20.52127075
                 3600.740967 17.21726036 3600
06 12 2018 06:00
                                               20.97814941
06 12 2018 06:10
                 3600.823975 17.67291069 3600
                                               18.6331501
06 12 2018 06:20
                 3600.895996 18.03819084 3600
                                               19.80023003
                 3600.895996 16.70573044 3600
06 12 2018 06:30
                                               22.13921928
06 12 2018 06:40
                 3594.111084 15.91924
                                         3600
                                               18.85181046
06 12 2018 06:50
                 3601.041016 16.10140991 3600
                                               18.85404968
06 12 2018 07:00
                 3600.798096 17.28300095 3600
                                               17.73925018
06 12 2018 07:10
                 3592.612061 15.65746021 3600
                                               17.9065094
06 12 2018 07:20
                 2988.287109 15.50632954 3600
                                               20.35786057
06 12 2018 07:30 2648.605957 15.81758976 3600 20.32674026
06 12 2018 07:40 2455.643066 15.04395962 3600 25.98386955
06 12 2018 07:50 2421.991943 14.92275047 3600 23.75572014
```

```
06 12 2018 08:00
                 2409.711914 15.23029995 3600
                                                24.88414955
                  2438.691895 15.68723011 3600
06 12 2018 08:10
                                                23.32597923
06 12 2018 08:20
                  2441.849121 15.70839977 3600
                                                23.43392944
06 12 2018 08:30
                  2421.735107 15.17529011 3600
                                                21.82457924
06 12 2018 08:40
                  2337.413086 16.37545967 3600
                                                23.47686958
06 12 2018 08:50
                  2195.675049 15.37467003 3600
                                                24.23944092
06 12 2018 09:00
                  2287.141113 15.63006973 3600
                                                22.9824791
                  2409.488037 16.58530045 3600
06 12 2018 09:10
                                                22.19881058
06 12 2018 09:20
                  2651.368896 16.64438057 3600
                                                21.81617928
                  2705.991943 16.39792061 3600
06 12 2018 09:30
                                                18.34802055
06 12 2018 09:40
                                                18.04940033
                  2740.784912 17.08028984 3600
06 12 2018 09:50
                  2697.718994 17.11082077 3600
                                                19.39557076
06 12 2018 10:00
                  2687.514893 16.17303085 3600
                                                19.44342041
06 12 2018 10:10
                  2888.428955 16.71910095 3600
                                                18.66810036
06 12 2018 10:20
                  3425.204102 15.93564987 3600
                                                18.98913956
06 12 2018 10:30
                  3158.049072 14.91493988 3600
                                                19.16900063
06 12 2018 10:40
                  2785.396973 14.83866978 3600
                                                19.49741936
06 12 2018 10:50
                  3066.656982 14.79576969 3600
                                                19.73456001
06 12 2018 11:00
                  3400.479004 14.4436903 3600
                                                18.9444809
06 12 2018 11:10
                  3462.643066 14.69443035 3600
                                                19.82442093
06 12 2018 11:20
                  3369.0979
                              13.87213993 3600
                                                19.01069069
                  3376.575928 14.04887962 3600
                                                22.42643929
06 12 2018 11:30
06 12 2018 11:40
                  3524.750977 14.47774029 3600
                                                19.04920959
06 12 2018 11:50
                  3586.060059 14.2612896 3600
                                                18.24620056
06 12 2018 12:00
                  3045.707031 13.63132
                                          3600
                                                19.88853073
06 12 2018 12:10
                  3299.693115 13.47015953 3600
                                                17.72171021
06 12 2018 12:20
                  3306.24707 13.54623032 3600
                                                20.4285202
06 12 2018 12:30
                  3262.01709 13.07882977 3600
                                                18.80278969
06 12 2018 12:40
                  3350.572998 14.79948044 3600
                                                18.45639038
06 12 2018 12:50
                  3501.405029 14.99368954 3600
                                                18.30175018
06 12 2018 13:00
                  3282.602051 13.65147018 3600
                                                19.14086914
06 12 2018 13:10
                  3430.083008 13.15202045 3600
                                               22.35961914
06 12 2018 13:20
                  3457.303955 14.24151039 3600
                                                19.61219025
06 12 2018 13:30
                  3398.054932 13.78717041 3600
                                                19.5175209
                  3439.708984 13.14719009 3600
06 12 2018 13:40
                                                20.44418907
06 12 2018 13:50
                  3471.834961 14.22428989 3600
                                                20.61882019
06 12 2018 14:00
                  2984.745117 14.83298969 3600
                                                19.24834061
06 12 2018 14:10
                  3231.853027 14.59197998 3600
                                                19.80809975
06 12 2018 14:20
                  3460.063965 13.39288044 3600
                                                21.13194084
                  3374.795898 13.71940994 3600
06 12 2018 14:30
                                                20.58087921
06 12 2018 14:40
                  3204.270996 15.02851963 3600
                                                21.82344055
06 12 2018 14:50
                  3103.451904 14.86738968 3600
                                                20.08995056
06 12 2018 15:00
                  3450.583984 15.43006039 3600
                                                20.89151955
                                                20.36290932
06 12 2018 15:10
                  2478.780029 14.50568008 3600
06 12 2018 15:20
                  2547.664063 15.22576046 3600
                                                20.02429008
06 12 2018 15:30
                  2666.031982 16.45346069 3600
                                                18.89075089
06 12 2018 15:40
                  2708.958984 14.60035992 3600
                                                20.48586082
                  3025.876953 13.98488998 3600
06 12 2018 15:50
                                                22.83869934
                                                24.7581501
06 12 2018 16:00
                  3101.072021 14.17825031 3600
06 12 2018 16:10
                  3210.51709 15.06970978 3600
                                                21.82056046
                  2961.509033 14.94978046 3600
06 12 2018 16:20
                                                19.56389999
06 12 2018 16:30
                  3068.987061 16.32155991 3600
                                                18.46093941
06 12 2018 16:40
                  3006.221924 14.49895954 3600
                                                19.88855934
06 12 2018 16:50
                  3157.405029 14.44781017 3600
                                                20.41220093
06 12 2018 17:00
                  3053.487061 13.51603985 3600
                                                20.07829094
06 12 2018 17:10
                  3074.031982 13.98126984 3600
                                                18.48529053
06 12 2018 17:20
                  2956.187988 13.32938957 3600
                                                19.03195
06 12 2018 17:30
                  3273.330078 13.46737003 3600
                                                20.36654091
06 12 2018 17:40 3489.186035 14.16287041 3600
                                               20.89303017
```

```
06 12 2018 17:50 3524.379883 13.73118973 3600 18.42243004
                 3494.315918 12.36896992 3568.012976 23.16555977
06 12 2018 18:00
                 3501.61792 12.78812981 3594.432653 19.67509079
06 12 2018 18:10
06 12 2018 18:20
                 3418.888916 11.93813038 3511.999846 19.68758011
06 12 2018 18:30 3470.822021 12.41094971 3571.865393 21.32345963
06 12 2018 18:40 3227.483887 11.38311005 3391.576843 21.23905945
                 3517.173096 12.57363033 3584.22341 18.87924957
06 12 2018 18:50
                 3549.678955 12.83026028 3595.643935 19.50468063
06 12 2018 19:00
06 12 2018 19:10
                 3264.084961 11.46164036 3412.195514 19.92668915
                 3357.728027 12.04090023 3528.167271 23.46001053
06 12 2018 19:20
06 12 2018 19:30
                 3143.393066 11.24405003 3351.970892 21.17250061
06 12 2018 19:40
                 3232.940918 11.64074993 3454.682751 21.8662796
06 12 2018 19:50
                 3118.126953 11.25037956 3353.861377 20.49113083
06 12 2018 20:00
                 2906.960938 10.84210968 3213.800071 20.61161041
06 12 2018 20:10
                 2734.75
                             10.44849014 3040.871214 21.26398087
06 12 2018 20:20 2524.741943 9.851542473 2696.286257 20.34362984
06 12 2018 20:30 2506.839111 9.843511581 2690.899654 20.39569092
06 12 2018 20:40 2131.772949 9.168784142 2253.318097 19.36027908
06 12 2018 20:50 1843.645996 8.764535904 1993.444374 21.29323006
                 1906.505005 8.677684784 1938.641617 20.18115997
06 12 2018 21:00
                 1888.368042 8.697974205 1951.404775 19.74163055
06 12 2018 21:10
                 2324.095947 9.410448074 2411.223097 19.7064209
06 12 2018 21:20
                 2313.38501 9.571344376 2495.43925 20.63505936
06 12 2018 21:30
06 12 2018 21:40
                 2674.353027 10.24440956 2934.942021 20.32744026
06 12 2018 21:50
                 2546.485107 9.853854179 2697.832871 20.17723083
06 12 2018 22:00 2779.716064 10.4987402 3065.187113 22.61713028
06 12 2018 22:10 2628.906982 10.27311039 2950.551951 21.2888298
06 12 2018 22:20 2409.518066 9.594177246 2512.826644 23.29821014
06 12 2018 22:30 2523.196045 9.821205139 2675.826352 26.10189056
06 12 2018 22:40 2054.810059 8.706227303 1956.603444 23.82946014
06 12 2018 22:50 2223.331055 9.298520088 2337.934037 25.95401001
06 12 2018 23:00 2301.329102 9.532876015 2465.722085 24.7232399
06 12 2018 23:10 2179.280029 9.21416378 2282.866711 24.52243996
06 12 2018 23:20 2080.305908 8.986195564 2135.095547 25.72293091
06 12 2018 23:30 2140.322021 9.09064579 2202.583177 26.11618042
06 12 2018 23:40
                 2927.325928 10.99915028 3272.141907 26.08469009
                 2688.293945 10.40176964 3017.647403 25.77388
06 12 2018 23:50
07 12 2018 00:00
                 2688.176025 9.985081673 2782.791263 23.20915985
07 12 2018 00:10 2928.835938 10.39945984 3016.483692 21.65126038
07 12 2018 00:20 2889.554932 10.36802959 3000.501748 22.80389023
07 12 2018 00:30 3053.736084 10.98493004 3267.095288 24.9323101
07 12 2018 00:40 3249.679932 11.24143028 3351.185952 22.81963921
07 12 2018 00:50 3320.993896 11.87485027 3501.133896 26.2544899
07 12 2018 01:00 2855.839111 10.50030041 3065.931222 26.13843918
07 12 2018 01:10 3188.167969 11.15606976 3324.806408 23.90999985
07 12 2018 01:20
                 3184.717041 11.04201031 3287.07371 22.53832054
                 3197.814941 11.29751968 3367.675475 23.68873978
07 12 2018 01:30
07 12 2018 01:40
                 2835.591064 10.23898029 2931.962309 24.37619972
07 12 2018 01:50
                 2527.206055 9.631215096 2540.637257 25.67106056
07 12 2018 02:00
                 2647.518066 10.24962997 2937.799043 27.10279083
07 12 2018 02:10
                 2509.22998 9.479023933 2456.216448 23.87817955
07 12 2018 02:20
                 2125.86792 8.923475266 2094.780235 26.13466072
07 12 2018 02:30
                 2922.399902 10.47494984 3053.759913 24.17868042
07 12 2018 02:40
                 2666.309082 9.971728325 2774.397808 23.70929909
07 12 2018 02:50
                 2022.470947 8.694005966 1948.906597 25.08452988
07 12 2018 03:00 2240.022949 9.225026131 2289.947907 26.29957962
07 12 2018 03:10 1907.515991 8.597631454 1888.532321 26.11930084
07 12 2018 03:20 2125.614014 8.815415382 2025.7448 23.19636917
07 12 2018 03:30 2228.217041 8.685976028 1943.854279 21.63297081
```

```
07 12 2018 03:40 2571.308105 9.434139252 2426.760875 22.19164085
07 12 2018 03:50
                 2360.070068 9.166851044 2252.060667 23.69566917
                 2065.343018 8.646580696 1919.124086 22.11152077
07 12 2018 04:00
07 12 2018 04:10
                 2114.701904 8.503261566 1830.005263 22.49403954
07 12 2018 04:20
                 2431.841064 8.886443138 2071.058667 19.46771049
07 12 2018 04:30
                 2146.23999 8.875947952 2064.347443 19.75377083
07 12 2018 04:40
                 2126.011963 8.908711433 2085.315445 21.85596085
07 12 2018 04:50
                 2668.416992 10.02527046 2807.714635 21.63396072
07 12 2018 05:00
                 2208.150879 9.165307999 2251.057036 22.96497917
                 2552.843018 9.731145859 2613.280196 21.07625008
07 12 2018 05:10
07 12 2018 05:20
                 2537.079102 9.758182526 2632.344204 21.38689995
07 12 2018 05:30 2184.374023 9.07154274 2190.210239 24.74752045
07 12 2018 05:40 2583.883057 9.740289688 2619.755458 25.13080978
07 12 2018 05:50 2190.771973 8.899979591 2079.72233 24.25782013
07 12 2018 06:00 2663.538086 10.12405968 2866.857581 25.14970016
07 12 2018 06:10 2102.376953 8.951827049 2112.983247 25.92077065
07 12 2018 06:20 2312.76001 8.957766533 2116.801076 22.93317986
07 12 2018 06:30 2103.332031 8.667205811 1932.059509 24.21254921
07 12 2018 06:40 1692.86499 8.007732391 1534.427837 25.83674049
07 12 2018 06:50 1721.48999 8.142313004 1612.516113 27.13253021
07 12 2018 07:00 1284.218994 7.171482086 1095.089769 30.32588005
07 12 2018 07:10 1195.011963 6.718757153 894.2558125 24.30330086
07 12 2018 07:20 933.9284058 6.414031029 772.7713044 29.15757942
07 12 2018 07:30
                 1186.776978 6.68726778 881.2136385 27.58027077
07 12 2018 07:40 1234.602051 6.98472023 1009.12521 26.25814056
07 12 2018 07:50 790.1461182 6.075315952 649.6904493 32.69412994
07 12 2018 08:00 844.6885986 6.025006771 632.4583494 32.40372849
07 12 2018 08:10 1246.767944 6.892883778 968.4888786 30.10848045
07 12 2018 08:20
                 1097.647949 6.8247509 939.0107962 31.46817017
                 1198.324951 7.11887598 1070.412484 30.17606926
07 12 2018 08:30
07 12 2018 08:40
                 1130.954956 6.537281036 820.6511337 27.70593071
                 1335.892944 6.980123997 1007.066384 24.99356079
07 12 2018 08:50
07 12 2018 09:00
                 1381.754028 7.30736208 1160.58178 23.26641083
07 12 2018 09:10
                 1297.147949 7.083619118 1054.079448 20.75595093
07 12 2018 09:20
                 1396.228027 7.291269779 1152.690704 25.93226051
                 810.2288208 5.936420918 603.749022 24.83999062
07 12 2018 09:30
07 12 2018 09:40
                 992.9921875 6.568450928 833.0274537 32.2259903
07 12 2018 09:50
                 880.6400146 6.087213039 653.805025 28.85836983
07 12 2018 10:00
                 751.3161011 5.780803204 553.5232483 27.49967003
                 868.9675903 6.205949783 695.6988237 29.64212036
07 12 2018 10:10
07 12 2018 10:20 642.807312 5.670516014 519.4158276 25.76576996
07 12 2018 10:30 660.1356812 5.887616158 587.7267143 27.17505074
07 12 2018 10:40
                 704.1293945 5.87584877 583.9009023 26.24238968
07 12 2018 10:50
                 741.4990234 5.964076996 612.9401477 25.58579063
07 12 2018 11:00 930.8931274 6.447884083 785.755432 25.38829041
07 12 2018 11:10
                 776.2938232 5.893857956 589.7619122 31.42531967
07 12 2018 11:20
                 693.7141113 5.738842964 540.4041832 28.13075066
07 12 2018 11:30
                 687.6791992 5.764404774 548.3751671 29.84255028
07 12 2018 11:40
                 686.9495239 5.851290226 575.9627728 28.13776016
                 574.3126831 5.429008007 448.807721 26.94861984
07 12 2018 11:50
07 12 2018 12:00
                 768.4099731 6.022898197 631.742019 26.71805954
07 12 2018 12:10
                 737.8632202 5.847027779 574.5913646 27.74967003
07 12 2018 12:20
                 785.6785889 6.057765961 643.6484385 26.46517944
07 12 2018 12:30
                 851.3959961 6.030886173 634.4582265 22.52729988
07 12 2018 12:40
                 1212.894043 7.088757992 1056.449898 23.97859001
07 12 2018 12:50
                 962.9468994 6.564352989 831.3941013 23.99438095
07 12 2018 13:00 838.6373291 6.316260815 735.9744759 27.39740944
07 12 2018 13:10 508.1395874 5.254271984 401.0103807 28.40996933
07 12 2018 13:20 565.9014282 5.50564909 470.6264302 36.48543167
```

```
07 12 2018 13:30 385.2427063 4.792192936 286.5414584 36.63935089
                  383,9721069 4,910783768 314,3808149 32,77677917
07 12 2018 13:40
                  175.615799 4.027335167 128.0917587 35.96469879
07 12 2018 13:50
07 12 2018 14:00
                  260.4187927 4.46993494 215.6629157 33.26848984
07 12 2018 14:10
                  316.7131042 4.626095772 249.1776171 37.17079163
07 12 2018 14:20
                  271.0895996 4.453718185 212.2671365 44.70600891
07 12 2018 14:30
                  320.7507019 4.634954929 251.1245989 45.44823074
07 12 2018 14:40
                  499.6813049 5.328831196 421.0811766 45.82621002
                  429.5495911 5.092092037 358.9500044 45.07260132
07 12 2018 14:50
                  505.5591125 5.535700798 479.3287434 58.27703094
07 12 2018 15:00
07 12 2018 15:10
                  580.2130737 5.731972218 538.2727907 65.60542297
07 12 2018 15:20
                  537.0728149 5.599788189 498.1691139 68.36898804
07 12 2018 15:30
                  645.8900757 5.862510204 579.5816847 70.7875824
07 12 2018 15:40
                  565.5117798 5.668273926 518.7348791 73.3368988
07 12 2018 15:50
                  352.256012 4.902215004 312.335446 74.99903107
07 12 2018 16:00
                  348.6693115 5.098738194 360.6319088 76.31786346
07 12 2018 16:10
                  309.999115 4.61153698 245.9889293 78.22070313
07 12 2018 16:20
                  327.0578003 4.922587872 317.2072609 74.15598297
07 12 2018 16:30
                  323.6227112 4.758158207 278.7342284 68.13562775
                  370.1968994 4.984445095 332.1874507 69.4832077
07 12 2018 16:40
                  222.3970032 4.397524834 200.6184704 73.04562378
07 12 2018 16:50
                  54.23859024 3.123579025 21.17627085 84.86258698
07 12 2018 17:00
07 12 2018 17:10
                  3.450403929 2.768059969 0
                                                 107.6007996
07 12 2018 17:20
                  0
                        3.058701992 18.15413765 105.0056992
07 12 2018 17:30
                  60.87878036 3.763011932 86.99135855 134.7442017
07 12 2018 17:40
                  0.478466511 1.208933949 0
                                                 157.4299927
07 12 2018 17:50
                        0.911242723 0
                                          110.6689987
07 12 2018 18:00
                        1.239375949 0
                                           136.7106018
                  0
07 12 2018 18:10
                  0
                        1.506608009 0
                                           186.2537994
07 12 2018 18:20
                  0
                        2.354283094 0
                                          188.3473053
07 12 2018 18:30
                  0
                        1.542878985 0
                                          177.8367004
07 12 2018 18:40
                  0
                        1.280056
                                    0
                                          205.4203033
07 12 2018 18:50
                                           248.371994
                  0
                        1.703619003 0
07 12 2018 19:00
                        2.46686101 0
                                          210.4940033
                  0
07 12 2018 19:10
                        2.595307112 0
                                           209.9024048
                  0
07 12 2018 19:20
                        2.491352081 0
                                           207.1448975
                  0
07 12 2018 19:30
                  0
                        2.330809116 0
                                           205.253006
                        1.661303997 0
07 12 2018 19:40
                  0
                                           212.9747009
07 12 2018 19:50
                        2.353131056 0
                                           213.7133026
07 12 2018 20:00
                        1.971004009 0
                                          192.921402
07 12 2018 20:10
                        1.51552701 0
                                          176.4985962
                  0
07 12 2018 20:20
                                          171.2364044
                  0
                        1.094815016 0
07 12 2018 20:30
                  0
                        0.682874024 0
                                           60.67293167
07 12 2018 20:40
                  0
                        1.896371007 0
                                           219.490799
07 12 2018 20:50
                  0
                        1.37488699 0
                                           243.8769073
07 12 2018 21:00
                  0
                        1.522156954 0
                                           213.1988068
07 12 2018 21:10
                  0
                        1.038848996 0
                                           300.5971985
07 12 2018 21:20
                                          310.7007141
                  0
                        1.85927403 0
07 12 2018 21:30
                  0
                        2.471690893 0
                                           283.9306946
07 12 2018 21:40
                  0
                        1.233880997 0
                                           270.3192139
07 12 2018 21:50
                  0
                        1.835821986 0
                                           249.8892975
07 12 2018 22:00
                  0
                        1.735478044 0
                                           232.4927063
07 12 2018 22:10
                        1.627735019 0
                                          189.3211975
07 12 2018 22:20
                        2.797590971 0
                                          151.9954071
                  0
07 12 2018 22:30
                  0
                        1.932584047 0
                                           149.5346985
07 12 2018 22:40
                  0
                        2.880417109 0
                                           152.1571045
07 12 2018 22:50
                  0
                        2.939786911 0
                                          156.2236023
07 12 2018 23:00
                        3.522043943 54.5077965 172.401001
                  0
07 12 2018 23:10
                 77.55098724 3.686721087 75.70194282 151.504303
```

```
07 12 2018 23:20 -0.166333497
                                  2.733283043 0
                                                    157.8063965
07 12 2018 23:30 5.182004929 3.349773884 36.98010587 167.9790955
07 12 2018 23:40 21.36984062 2.856434107 0
                                            151.6230011
07 12 2018 23:50 0
                       2.666321039 0
                                        160.7503967
08 12 2018 00:00 0
                       2.607551098 0
                                        167.2859955
08 12 2018 00:10 0
                       3.523308992 54.65407188 165.1855927
08 12 2018 00:20 97.67537689 3.576769114 61.06962046 150.2595978
08 12 2018 00:30 17.03393936 2.665677071 0
                                            155.9942932
08 12 2018 00:40 0
                       3.180089951 24.35746964 156.7718964
08 12 2018 00:50 0
                       2.828900099 0
                                        150.75
08 12 2018 01:00 0
                       2.441755056 0
                                         158.7463074
08 12 2018 01:10 0
                       2.391117096 0
                                        155.7657013
08 12 2018 01:20 0
                       2.104099035 0
                                         156.8889008
08 12 2018 01:30 0
                       3.303117037 33.05014022 148.8961945
08 12 2018 01:40 51.55308151 3.357768059 37.68841659 141.9992065
08 12 2018 01:50 12.38271046 2.651463032 0
                                           140.6177979
08 12 2018 02:00 0
                    2.274151087 0
                                     147.6040955
08 12 2018 02:10 0
                       2.787064075 0
                                        149.3455963
08 12 2018 02:20 0
                       2.135348082 0
                                        141.8079987
08 12 2018 02:30 0
                       2.049388885 0
                                        151.8536072
08 12 2018 02:40 0
                       2.062786102 0
                                        144.827301
08 12 2018 02:50 0
                       2.568880081 0
                                        154.7776947
08 12 2018 03:00 0
                       2.116300106 0
                                        177.9541016
                                        188.4046936
08 12 2018 03:10 0
                     2.118938923 0
08 12 2018 03:20 0
                     1.458655 0
                                        216.526001
08 12 2018 03:30 0
                      1.318786979 0
                                        268.6119995
08 12 2018 03:40 0
                      1.341375947 0
                                        265.6737976
08 12 2018 03:50 0
                       1.029912949 0
                                         240.1215973
08 12 2018 04:00 0
                       0.988826275 0
                                         212.0550995
08 12 2018 04:10 0
                       1.436877966 0
                                        198.1636963
08 12 2018 04:20 0
                       2.323204994 0
                                        188.1645966
08 12 2018 04:30 0
                       2.290846109 0
                                         198.4654999
08 12 2018 04:40 0
                       3.252635956 29.19034468 181.4741058
08 12 2018 04:50 6.762598991 3.462285042 47.88971813 178.0681
08 12 2018 05:00 27.0887394 3.247114897 28.79293847 171.8679962
                 0.309199691 3.118464947 20.91359378 182.4627991
08 12 2018 05:10
                       3.072309017 18.73217607 182.8625946
08 12 2018 05:20 0
08 12 2018 05:30 88.30845642 3.080688953 19.10290308 176.1994019
08 12 2018 05:40 73.03412628 3.270008087 30.47260816 177.7951965
08 12 2018 05:50 10.89188004 2.408555984 0
                                              189.5778961
08 12 2018 06:00 0 2.91031003 0
                                        179.8361053
08 12 2018 06:10 0
                       2.619863987 0
                                         198.7015076
08 12 2018 06:20 0
                       2.767750978 0
                                         203.8905945
08 12 2018 06:30 0
                      2.661397934 0
                                         206.3148041
08 12 2018 06:40 0
                       2.719566107 0
                                         207.4432983
08 12 2018 06:50 0
                       2.577848911 0
                                         202.1110992
08 12 2018 07:00 0
                       2.82583499 0
                                        188.0583954
08 12 2018 07:10 9.903402328 3.327687979 35.07636823 184.9459991
08 12 2018 07:20 188.5140076 4.095883846 141.0093336 178.6405029
08 12 2018 07:30 224.8049927 4.467617035 215.1765998 182.1105042
08 12 2018 07:40 234.7610016 4.548760891 232.3926805 185.6056976
08 12 2018 07:50 339.4135132 5.106900215 362.7022095 184.6970062
08 12 2018 08:00 295.0057983 4.876036167 306.1196011 192.4152985
08 12 2018 08:10 266.2908936 4.748777866 276.5964244 196.4904938
08 12 2018 08:20 210.4544067 4.587055206 240.6572249 197.4555969
08 12 2018 08:30 243.717804 4.774540901 282.4823082 200.6313019
08 12 2018 08:40 285.375 4.973566055 329.5321121 200.8596954
08 12 2018 08:50 249.2205963 4.736933231 273.905541 200.3153992
08 12 2018 09:00 208.2256012 4.572574139 237.5212432 190.020401
```

```
08 12 2018 09:10 224.1911926 4.70897913 267.5923817 188.029007
                 195.6678925 4.618822098 247.582836 188.0843048
08 12 2018 09:20
08 12 2018 09:30
                 156.1123047 4.33557415 187.9836818 191.0890045
08 12 2018 09:40 202.3059998 4.604050159 244.3544075 196.8692017
08 12 2018 09:50 251.0617981 4.739740849 274.5425207 191.732193
08 12 2018 10:00 513.2946167 5.774137974 551.4275153 186.6221008
08 12 2018 10:10 602.8231201 6.128020763 668.0331635 185.2969055
08 12 2018 10:20 572.5084839 6.148458004 675.2257563 183.3096008
08 12 2018 10:30 833.1359863 6.882355213 963.8967695 183.9120026
                 1000.094971 7.180932999 1099.562595 186.0523987
08 12 2018 10:40
08 12 2018 10:50 974.6713867 7.153458118 1086.593034 184.3016968
08 12 2018 11:00 800.8289185 6.586737156 840.3390047 181.0834961
08 12 2018 11:10 983.8369141 7.298079014 1156.025206 182.3097992
08 12 2018 11:20
                 1300.31897 8.006837845 1533.91489 187.0337982
08 12 2018 11:30 1160.067017 7.415213108 1214.434669 186.8191986
08 12 2018 11:40 873.6801147 6.630095005 857.826351 184.703598
08 12 2018 11:50 1254.035034 7.438868999 1226.476357 191.9002991
08 12 2018 12:00 1010.64801 6.905690193 974.092807 186.9253998
08 12 2018 12:10 786.2932739 6.406631947 769.9501597 189.7433014
                 1044.040039 6.83737421 944.4299475 193.6862946
08 12 2018 12:20
                 1294.590942 7.433331013 1223.649785 194.3809967
08 12 2018 12:30
                 1879.503052 8.76558876 1994.111356 195.922699
08 12 2018 12:40
08 12 2018 12:50
                 1926.670044 8.883734703 2069.326237 195.156601
08 12 2018 13:00
                 1977.531006 8.884355545 2069.723323 196.9526978
08 12 2018 13:10
                 1678.650024 8.284463882 1696.860174 200.0153961
08 12 2018 13:20 2087.179932 9.32774353 2357.047571 205.4895935
08 12 2018 13:30 2585.483887 10.69400978 3153.358333 208.9763031
08 12 2018 13:40 2763.86499 10.77116966 3185.520867 207.4288025
08 12 2018 13:50 2616.248047 10.64391041 3131.675663 207.921402
08 12 2018 14:00 3194.635986 11.73954964 3475.509447 209.0491028
08 12 2018 14:10 3490.6521
                           12.51774025 3580.434082 209.5249023
08 12 2018 14:20 3593.719971 12.76885986 3593.79263 209.8829041
08 12 2018 14:30 3602.654053 13.02367973 3600 207.3518982
08 12 2018 14:40 3602.301025 12.55309963 3582.886439 202.9857941
08 12 2018 14:50 3598.038086 12.26185989 3556.923749 202.8282928
                 3602.782959 12.43373966 3573.841737 202.514801
08 12 2018 15:00
08 12 2018 15:10
                 3601.391113 12.57229042 3584.138096 204.4212036
08 12 2018 15:20
                 3600.9729
                            12.51091003 3579.938452 203.5762939
08 12 2018 15:30 3601.170898 12.65977001 3589.142686 203.6669006
08 12 2018 15:40 3601.518066 12.76138973 3593.529952 204.4656067
08 12 2018 15:50 3600.76709 13.02326965 3600 201.5935059
08 12 2018 16:00 3601.038086 13.00761986 3600 200.2012024
08 12 2018 16:10
                 3600.637939 12.99435997 3597.927739 200.6271973
08 12 2018 16:20
                 3600.683105 13.28921986 3600 200.3777008
08 12 2018 16:30
                 3601.863037 13.40993977 3600 201.2882996
08 12 2018 16:40
                 3602.466064 14.02250004 3600 198.4808044
08 12 2018 16:50
                 3602.459961 13.99353981 3600 197.7127991
                 3602.524902 13.85319996 3600 195.1255951
08 12 2018 17:00
08 12 2018 17:10
                 3602.753906 14.34004974 3600
                                               193.3338928
08 12 2018 17:20
                 3602.51709 14.22776031 3600
                                               196.8932953
08 12 2018 17:30
                 3602.493896 14.39041996 3600
                                               200.7984009
08 12 2018 17:40
                 3602.554932 14.28182983 3600 202.6069031
08 12 2018 17:50
                 3602.2771
                            13.84825993 3600
                                              201.9660034
08 12 2018 18:00
                 3602.465088 13.99676037 3600
                                              205.6687927
08 12 2018 18:10
                 3602.354004 13.73674011 3600
                                               206.7084045
08 12 2018 18:20
                 3602.073975 13.7580204 3600 203.6367035
08 12 2018 18:30 3602.427979 13.84014034 3600 203.9884033
08 12 2018 18:40 3602.268066 14.14888
                                         3600 205.7673035
08 12 2018 18:50 3602.336914 13.44326019 3600 204.6535034
```

```
08 12 2018 19:00 3602.561035 13.78551006 3600 203.7904968
                 3602.576904 13.79028988 3600 204.3356018
08 12 2018 19:10
                 3602.115967 13.42146969 3600 205.0796051
08 12 2018 19:20
08 12 2018 19:30
                 3601.943115 13.25774956 3600 200.8466949
08 12 2018 19:40
                 3602.315918 13.30539036 3600 202.3889008
08 12 2018 19:50
                 3602.032959 13.48888016 3600 198.5252991
08 12 2018 20:00
                 3602.159912 13.90435982 3600 201.8475952
08 12 2018 20:10
                 3602.093994 13.82425976 3600
                                              203.9091034
08 12 2018 20:20
                 3601.980957 14.88152027 3600
                                              208.9140015
                 3602.099121 14.13092041 3600
08 12 2018 20:30
                                              209.6838989
08 12 2018 20:40
                 3601.862061 13.41390991 3600 209.8428955
08 12 2018 20:50
                 3433.784912 12.39622021 3570.545057 214.4373016
08 12 2018 21:00
                 2512.657959 10.1943903 2907.164758 218.0184021
08 12 2018 21:10
                 3282.082031 11.69721031 3466.806636 209.0890961
08 12 2018 21:20 3584.052002 12.64702988 3588.484971 209.1092987
08 12 2018 21:30 3601.791016 13.04841042 3600 206.6632996
                 3602.162109 13.5095396 3600 208.2098999
08 12 2018 21:40
08 12 2018 21:50 3602.327881 15.02653027 3600 205.6811981
08 12 2018 22:00
                 3602.251953 15.72383976 3600 201.1306
                 3602.309082 16.01079941 3600 198.7630005
08 12 2018 22:10
08 12 2018 22:20
                 3602.290039 16.15279007 3600 196.0579987
                 3602.374023 15.90015984 3600 192.6844025
08 12 2018 22:30
                 3602.049072 16.16695976 3600 193.498703
08 12 2018 22:40
08 12 2018 22:50
                 3602.0979
                             15.84107971 3600 190.5487061
08 12 2018 23:00
                 3602.250977 15.71076965 3600 190.4539032
08 12 2018 23:10
                 3602.177002 15.77713966 3600 193.6528015
08 12 2018 23:20
                 3601.989014 15.5851202 3600 191.8917999
08 12 2018 23:30
                 3602.131104 15.00463009 3600 189.1325989
                 3601.9729 13.97963047 3600 190.2234955
08 12 2018 23:40
08 12 2018 23:50
                 3468.237061 12.1498003 3543.346676 192.8999023
09 12 2018 00:00 3515.788086 11.97373009 3517.805818 194.0877991
09 12 2018 00:10 3444.594971 11.85966015 3498.4206
                                                   194.5166931
09 12 2018 00:20
                 3596.560059 12.83016968 3595.641606 201.8253937
09 12 2018 00:30
                 3582.365967 12.2683897 3557.652142 203.5883026
09 12 2018 00:40 3478.784912 12.10264015 3537.016373 204.8059998
09 12 2018 00:50
                 3512.731934 12.44165039 3574.508919 203.6681061
09 12 2018 01:00
                 3602.045898 14.87471962 3600 208.1080933
09 12 2018 01:10
                 3602.031982 14.49536037 3600 204.7268982
09 12 2018 01:20
                 3601.922119 15.46214962 3600 204.9615021
09 12 2018 01:30
                 3601.844971 15.59759998 3600 205.9922028
09 12 2018 01:40 3602.178955 15.40237045 3600 207.0968018
09 12 2018 01:50 3602.168945 15.66596031 3600 209.1692963
09 12 2018 02:00
                 3602.12207 15.45882988 3600 210.2388
09 12 2018 02:10
                 3602.416992 15.32894039 3600 210.7341003
09 12 2018 02:20
                 3602.146973 14.82415009 3600 212.9476013
09 12 2018 02:30
                 3601.958008 14.42710018 3600 212.3609009
09 12 2018 02:40
                 3602.199951 15.00922012 3600 212.8119049
                 3602.251953 15.45781994 3600 210.2518005
09 12 2018 02:50
09 12 2018 03:00
                 3602.124023 15.07796001 3600
                                              210.7534027
                 3602.270996 15.14568996 3600
09 12 2018 03:10
                                              208.7388
09 12 2018 03:20
                 3602.245117 15.84202957 3600
                                              210.839798
09 12 2018 03:30
                 3602.333008 16.01729012 3600 213.6909027
09 12 2018 03:40
                 3602.227051 15.6412096 3600 216.1334076
09 12 2018 03:50
                 3602.195068 14.93297005 3600 214.6824951
09 12 2018 04:00
                 3602.264893 14.67724991 3600
                                              214.2046051
09 12 2018 04:10
                 3602.183105 14.53551006 3600
                                              211.3282013
09 12 2018 04:20
                 3602.145996 14.27373981 3600 209.1042938
09 12 2018 04:30 3602.218994 13.73713017 3600 208.1952057
09 12 2018 04:40 3600.899902 12.74837971 3593.052999 205.3070068
```

```
3601.024902 12.88932037 3596.910078 203.241806
09 12 2018 04:50
                 3601.846924 13.15837002 3600 204.5440979
09 12 2018 05:00
                 3602.216064 13.76546001 3600
09 12 2018 05:10
                                               207.7039032
09 12 2018 05:20
                 3602.070068 13.39402008 3600 206.3171997
09 12 2018 05:30
                 3602.055908 13.27404022 3600 205.4544067
09 12 2018 05:40
                 3601.697998 13.14288998 3600 202.7059937
09 12 2018 05:50
                 3602 13.84920979 3600 199.620697
                 3601.925049 13.87703037 3600
09 12 2018 06:00
                                               199.976593
09 12 2018 06:10
                 3601.533936 13.66374969 3600
                                               195.5484924
09 12 2018 06:20
                 3601.711914 14.94946957 3600
                                               198.1820984
                 3601.541016 14.61509037 3600
09 12 2018 06:30
                                               195.7205963
09 12 2018 06:40
                 3601.593018 14.29298973 3600
                                               192.3917999
09 12 2018 06:50
                 3601.712891 14.74555016 3600
                                               190.8946075
09 12 2018 07:00
                 3601.422119 14.52095985 3600
                                               191.5688019
09 12 2018 07:10
                 3601.191895 14.86820984 3600
                                               191.0552063
09 12 2018 07:20
                 3601.312012 15.89945984 3600
                                               191.7899017
09 12 2018 07:30
                 3602.051025 16.01882935 3600 195.8146057
09 12 2018 07:40 3601.957031 16.38965034 3600 193.1138
09 12 2018 07:50
                 3601.5
                             16.97920036 3600 191.1329956
09 12 2018 08:00
                 3601.503906 16.82888031 3600 190.9412994
09 12 2018 08:10
                 3601.629883 16.73542976 3600 191.8123932
09 12 2018 08:20
                 3601.741943 17.06393051 3600
                                               192.2126007
09 12 2018 08:30
                 3601.769043 17.13829994 3600
                                               191.8905029
09 12 2018 08:40
                 3601.577881 16.7874794 3600
                                               190.565506
09 12 2018 08:50
                 3601.593994 15.72751045 3600 189.4812927
09 12 2018 09:00
                 3601.839111 15.7419796 3600 188.3350067
09 12 2018 09:10
                 3601.830078 15.46815014 3600 188.4024963
09 12 2018 09:20
                 3601.946045 14.65108967 3600
                                               189.4656982
                 3600.931885 14.09076023 3600
09 12 2018 09:30
                                               186.5910034
                 3601.793945 14.62467957 3600 187.4040985
09 12 2018 09:40
09 12 2018 09:50
                 3577.610107 13.88162041 3600 186.4145966
09 12 2018 10:00
                 3516.435059 12.15927982 3544.574679 186.7624969
09 12 2018 10:10
                 3579.120117 13.38619041 3600 185.9649963
09 12 2018 10:20
                 3601.451904 13.88265991 3600 187.6768951
                 3501.669922 12.65999985 3589.15433 190.4835052
09 12 2018 10:30
09 12 2018 10:40
                 3538.269043 12.17840958 3547.007781 187.3009949
09 12 2018 10:50
                 3551.836914 12.62802982 3587.459181 185.290802
                 3595.830078 12.81221008 3595.156503 186.7798004
09 12 2018 11:00
09 12 2018 11:10
                 3591.560059 12.74396992 3592.885714 188.5523071
09 12 2018 11:20
                 3516.896973 12.21271038 3551.220468 189.085495
09 12 2018 11:30 2803.076904 10.39286995 3013.155503 181.1101074
09 12 2018 11:40 3207.304932 11.35476971 3383.829531 187.8582001
09 12 2018 11:50
                 3580.062988 12.63747025 3587.975587 188.3347931
09 12 2018 12:00
                 3565.295898 12.68943977 3590.581034 190.1230927
09 12 2018 12:10
                 3600.833008 13.6252203 3600 187.5092926
09 12 2018 12:20
                 3602.134033 14.49588013 3600 184.1083984
09 12 2018 12:30
                 3598.310059 13.15526009 3600 183.5957031
09 12 2018 12:40
                 3591.535889 13.24715042 3600
                                               187.2525024
09 12 2018 12:50
                 3601.874023 13.70872021 3600
                                               187.5979004
09 12 2018 13:00
                 3601.581055 14.44906044 3600
                                               181.8365936
                 3601.667969 15.34165001 3600
09 12 2018 13:10
                                               181.2465973
09 12 2018 13:20
                 3601.370117 15.49995041 3600
                                               178.084198
09 12 2018 13:30
                 3601.585938 16.62574959 3600
                                               176.3083954
09 12 2018 13:40
                 3601.745117 17.13096046 3600
                                               180.229599
09 12 2018 13:50
                 3601.625
                             18.63363075 3600
                                               180.0657959
09 12 2018 14:00
                 3601.687012 19.75322914 3600
                                               180.5617981
09 12 2018 14:10
                 3601.74292 19.20865059 3600 182.8847046
09 12 2018 14:20
                 3602.052979 17.93536949 3600 178.2613068
09 12 2018 14:30 3602.214111 16.83311081 3600 181.055603
```

```
09 12 2018 14:40 3602.270996 17.26985931 3600 185.7742004
09 12 2018 14:50
                 3602.2229
                             16.41945076 3600 185.1564026
09 12 2018 15:00
                 3602.334961 15.48974037 3600 178.9297028
09 12 2018 15:10 3602.389893 15.91557026 3600 180.1011963
                 3602.525879 14.92098999 3600 181.2882996
09 12 2018 15:20
09 12 2018 15:30
                 3602.5
                             14.4779501 3600 182.7187958
09 12 2018 15:40
                 3602.297119 13.8780899 3600 184.5567932
09 12 2018 15:50
                 3600.957031 13.21963024 3600 182.6092072
09 12 2018 16:00
                 3602.287109 13.11277962 3600 181.8110962
                 3602.154053 13.61896038 3600
09 12 2018 16:10
                                               182.216095
09 12 2018 16:20 3602.248047 13.94503975 3600 178.8551025
09 12 2018 16:30 3575.120117 12.62331009 3587.196015 181.1687927
09 12 2018 16:40 3494.669922 12.27416992 3558.291208 183.717804
09 12 2018 16:50 3505.629883 12.26088047 3556.813904 185.0281067
09 12 2018 17:00 3569.251953 13.67967987 3600 187.3936005
09 12 2018 17:10 3524.021973 12.92358017 3597.414935 186.4904022
09 12 2018 17:20 3502.153076 12.62236977 3587.143186 182.8704071
09 12 2018 17:30 3600.834961 13.64093018 3600 181.3300018
09 12 2018 17:40 3590.145996 13.36872005 3600 182.4506073
09 12 2018 17:50 3453.4729
                            11.83121014 3493.228413 182.5330963
09 12 2018 18:00 3541.475098 12.24717999 3555.261175 184.0529938
09 12 2018 18:10 3577.762939 12.82781029 3595.580541 185.3746033
09 12 2018 18:20 3583.093994 12.39990997 3570.87898 185.1719971
09 12 2018 18:30 3323.481934 11.64939022 3456.576833 191.171402
09 12 2018 18:40 3525.447021 12.23334026 3553.661924 194.1112976
09 12 2018 18:50 3464.418945 12.46488953 3576.412945 196.3435974
09 12 2018 19:00 3355.944092 11.88113022 3502.243702 196.2711029
09 12 2018 19:10 3283.220947 11.24419975 3352.01571 195.696701
09 12 2018 19:20 3560.573975 12.45578003 3575.676519 198.2265015
09 12 2018 19:30 3486.810059 12.19530964 3549.107382 196.0534058
09 12 2018 19:40 3599.096924 13.15532017 3600 199.6981964
09 12 2018 19:50 3557.549072 13.51453972 3600 206.1378021
09 12 2018 20:00 3589.614014 13.71463966 3600 211.2100983
09 12 2018 20:10 3598.24292 13.97222042 3600 218.5733032
09 12 2018 20:20 3585.487061 13.26860046 3600 218.3240051
09 12 2018 20:30
                 3598.012939 13.32320976 3600 217.5330048
09 12 2018 20:40
                 3279.35791 11.77672005 3482.878528 214.1343994
09 12 2018 20:50 3276.445068 11.58988953 3443.246829 209.9497986
09 12 2018 21:00 3479.845947 12.46702957 3576.584096 212.322998
09 12 2018 21:10 3585.074951 13.09897995 3600 218.2232971
09 12 2018 21:20 3456.045898 12.59832001 3585.747045 220.7528992
09 12 2018 21:30 3564.927002 12.85416985 3596.21706 222.1092987
09 12 2018 21:40 3436.842041 12.02754021 3526.167722 219.5278931
09 12 2018 21:50 3548.351074 12.57104969 3584.058856 223.8126068
09 12 2018 22:00 3570.011963 13.03441048 3600 219.6094971
09 12 2018 22:10 3584.673096 13.60070038 3600 223.4302063
09 12 2018 22:20 3522.996094 13.30570984 3600 221.3648071
09 12 2018 22:30 3579.246094 12.96041965 3597.770751 220.7454987
09 12 2018 22:40 3593.560059 13.28054047 3600 225.1864014
                 3599.774902 13.83108044 3600 224.1605072
09 12 2018 22:50
09 12 2018 23:00
                 3477.458008 12.83804035 3595.839489 223.5196991
09 12 2018 23:10
                 3089.860107 11.10929012 3309.679351 229.6096954
09 12 2018 23:20
                 2681.418945 10.03862
                                         2815.881993 230.0742035
09 12 2018 23:30 3083.654053 11.07443047 3298.092859 229.8766022
09 12 2018 23:40 3451.611084 11.67136002 3461.329753 224.6441956
09 12 2018 23:50 3373.835938 11.28512955 3364.089802 224.9485016
10 12 2018 00:00 3242.907959 11.26113987 3357.055785 221.9308929
10 12 2018 00:10 2850.506104 10.49876976 3065.201219 217.3993988
10 12 2018 00:20 3406.230957 11.83012962 3493.028369 213.4358978
```

```
10 12 2018 00:30 3255.419922 11.64667988 3455.984199 218.9304962
                 3355.034912 11.77143002 3481.845147 219.4432983
10 12 2018 00:40
10 12 2018 00:50
                 2756.904053 10.36341
                                         2998.129565 219.2554016
10 12 2018 01:00 2577.801025 9.999259949 2791.641771 221.5986023
10 12 2018 01:10 2949.835938 10.70184994 3156.694102 222.042099
10 12 2018 01:20 2879.086914 10.68190002 3148.175565 222.6764984
10 12 2018 01:30 2492.738037 9.690673828 2584.276127 222.2675018
                 2771.704102 10.55585003 3092.002472 218.100296
10 12 2018 01:40
10 12 2018 01:50
                 2923.811035 11.03905964 3286.059085 217.7382965
                 2612.090088 10.25084972 2938.465447 222.6958008
10 12 2018 02:00
10 12 2018 02:10
                 2693.562988 10.40592957 3019.739522 224.079895
10 12 2018 02:20
                 2778.221924 10.42949963 3031.503524 218.6264038
10 12 2018 02:30
                 2982.311035 10.91294003 3240.829962 212.5247955
10 12 2018 02:40
                 3031.166016 10.99211025 3269.649264 205.797699
10 12 2018 02:50 3365.159912 11.86437988 3499.26803 207.589798
10 12 2018 03:00 3193.014893 11.48620987 3418.393482 213.9149933
10 12 2018 03:10 3318.133057 11.82264996 3491.637866 219.7422028
10 12 2018 03:20 2976.687012 10.63043022 3125.732413 221.0066071
10 12 2018 03:30 2400.248047 9.343779564 2367.542913 223.569397
10 12 2018 03:40 2975.878906 10.49394989 3062.898408 215.6519012
10 12 2018 03:50 2764.056885 10.7340498 3170.232876 215.8699036
                 3195.133057 11.64486027 3455.585553 207.4503021
10 12 2018 04:00
10 12 2018 04:10
                 2907.719971 11.47509003 3415.603161 201.473999
10 12 2018 04:20
                 2656.086914 10.37662029 3004.897282 194.436203
10 12 2018 04:30 2805.941895 10.35569954 2994.156927 195.0420074
10 12 2018 04:40 2834.990967 10.39023018 3011.818931 199.8706055
10 12 2018 04:50 3134.659912 11.53553963 3430.478936 197.2720947
10 12 2018 05:00 3546.705078 12.3699398 3568.105095 196.6596985
10 12 2018 05:10 3430.464111 11.77385998 3482.320459 193.3744049
10 12 2018 05:20 3296.75708 11.69287014 3465.895778 189.6394043
10 12 2018 05:30 3258.001953 11.22113037 3345.054148 196.002594
10 12 2018 05:40 3097.387939 11.09603977 3305.307045 197.6665955
10 12 2018 05:50 2635.221924 10.45263004 3042.900312 196.8262939
10 12 2018 06:00 2659.431885 10.29876041 2964.3021
                                                     202,2274017
10 12 2018 06:10 3017.150879 10.93721008 3249.819442 199.6903076
                 2880.529053 10.58644962 3106.016485 197.8390961
10 12 2018 06:20
                             12.59082031 3585.293925 199.286499
10 12 2018 06:30
                 3585.9729
10 12 2018 06:40 3409.749023 11.40128994 3396.460567 195.804306
10 12 2018 06:50 3470.75708 12.12514973 3540.083876 200.0675964
10 12 2018 07:00 3588.730957 12.6078701 3586.311823 204.9564972
10 12 2018 07:10 3312.218994 11.79248047 3485.92715 205.2850952
10 12 2018 07:20 3297.851074 11.31457996 3372.560297 199.254303
10 12 2018 07:30 2261.229004 9.199266434 2273.160152 208.5119019
10 12 2018 07:40
                 1461.609985 7.643342018 1332.851495 204.1029053
10 12 2018 07:50
                 2120.509033 9.078138351 2194.480741 186.9506989
10 12 2018 08:00
                 2885.680908 10.75518036 3178.977307 180.0469971
10 12 2018 08:10 3422.552979 11.81011009 3489.284125 182.0697021
10 12 2018 08:20 3568.041992 12.41409016 3572.142527 180.6911926
10 12 2018 08:30 3577.923096 12.71887016 3591.879233 182.3531952
10 12 2018 08:40
                 3599.98291 12.8193903 3595.356051 186.7494965
10 12 2018 08:50
                 3572.406982 12.40406036 3571.252051 188.6638031
10 12 2018 09:00
                 3503.423096 11.72144985 3471.829527 189.021698
10 12 2018 09:10
                 3296.664063 11.29979992 3368.331876 186.9391937
10 12 2018 09:20
                 3073,4729
                             10.92516041 3245.37354 185.4447937
10 12 2018 09:30
                 3095.736084 11.01101017 3276.315503 186.767807
10 12 2018 09:40
                 2647.324951 10.36386967 2998.365875 185.9774017
10 12 2018 09:50 2525.852051 9.808176994 2666.946495 185.9449005
10 12 2018 10:00 2212.697021 9.430603027 2424.441198 181.0231018
10 12 2018 10:10 1626.828003 7.936601162 1493.902438 178.3722992
```

```
10 12 2018 10:20 1867.118042 8.48547554 1819.044562 183.9842987
                 1935.277954 8.844827652 2044.478666 180.3659058
10 12 2018 10:30
10 12 2018 10:40
                 1766.266968 8.490550041 1822.169405 183.1707001
10 12 2018 10:50
                 1244.005981 7.39463377 1204.027094 179.6121063
10 12 2018 11:00
                 1383 7.809825897 1423.045579 176.7095947
10 12 2018 11:10
                 1374.860962 7.611661911 1316.077595 178.9667969
10 12 2018 11:20
                 1028.890991 6.904481888 973.5632065 182.2256012
10 12 2018 11:30
                 2135.062012 9.710859299 2598.812209 165.4553986
10 12 2018 11:40
                 2512.177002 10.09453011 2849.491333 161.259903
10 12 2018 11:50
                 2837.284912 10.55037022 3089.46691 157.4969025
10 12 2018 12:00
                 2573.616943 10.13027954 2870.481866 161.5059967
10 12 2018 12:10
                 2569.094971 9.974228859 2775.973842 160.6248016
10 12 2018 12:20
                 2598.861084 9.800122261 2661.428212 163.2839966
10 12 2018 12:30
                 1838.651001 8.633195877 1910.743766 160.4815979
10 12 2018 12:40
                 1183.894043 7.499339104 1257.643759 161.1539001
10 12 2018 12:50 1006.288025 7.212210178 1114.45183 162.4109039
10 12 2018 13:00 699.9274902 6.405381203 769.4738639 159.5346985
10 12 2018 13:10
                 251.2239075 4.755884171 278.215419 163.1985016
10 12 2018 13:20 9.368376732 3.024497986 16.83194765 157.6450043
                 40.8340416 3.427349091 44.28535052 142.2621002
10 12 2018 13:30
                 411.1011047 5.33843708 423.7017073 144.5713959
10 12 2018 13:40
                 345.7254028 5.270865917 405.4364135 156.1764069
10 12 2018 13:50
10 12 2018 14:00
                 334.6824951 5.195434093 385.502502 165.4022064
10 12 2018 14:10
                 174.1611023 4.48814106 219.4937734 147.9378052
10 12 2018 14:20 43.14820099 3.46875
                                         48.578125
                                                     101.8891983
10 12 2018 14:30
                 150.9432068 4.243104935 169.5131515 71.64086151
10 12 2018 14:40 86.36477661 3.936661005 116.1598592 59.6960907
10 12 2018 14:50
                 188.0214996 4.452736855 212.0621415 57.27360916
10 12 2018 15:00 570.1483154 6.055253983 642.7863213 60.55836868
10 12 2018 15:10 480.9953003 5.559018135 486.1388421 66.59020233
10 12 2018 15:20 82.54060364 3.745363951 84.29703995 64.88900757
10 12 2018 15:30 560.7053833 5.542654037 481.3542001 71.29917145
10 12 2018 15:40
                 858.5913696 6.325436115 739.3835641 65.80322266
10 12 2018 15:50
                 789.6781006 6.330821991 741.3889331 69.94241333
                 456.2171936 5.504961014 470.4281567 76.57843781
10 12 2018 16:00
10 12 2018 16:10
                 576.6569824 5.952496052 609.0814694 73.27832794
10 12 2018 16:20
                 304.2643127 4.600409985 243.5609683 80.24181366
                 107.9957962 3.792980909 91.68088691 86.78304291
10 12 2018 16:30
10 12 2018 16:40
                 331.2598877 5.140068054 371.1698674 71.85851288
10 12 2018 16:50
                 193.0532074 4.445725918 210.59923
                                                     65.83148193
10 12 2018 17:00
                 198.5673981 4.527654171 227.876209 66.5164032
10 12 2018 17:10 111.6252975 3.984994888 125.1370308 62.03776932
10 12 2018 17:20
                 193.213501 4.603459835 244.2256791 65.73576355
10 12 2018 17:30
                 205.6582031 4.759643078 279.0731843 58.77128983
10 12 2018 17:40
                 165.4763947 4.496277809 221.2122534 45.93848038
10 12 2018 17:50
                 237.902298 4.714177132 268.7623343 45.51348114
10 12 2018 18:00
                 325.6091919 5.119153976 365.8203218 43.57535934
                 390.6383057 5.173231125 379.7248297 30.54849052
10 12 2018 18:10
10 12 2018 18:20
                 639.1171265 6.133302212 669.8876147 32.14923096
                 1385.470947 7.601562977 1310.757524 38.17441177
10 12 2018 18:30
10 12 2018 18:40
                 1685.508057 7.989695072 1524.101012 37.90615082
10 12 2018 18:50
                 922.2147827 6.401178837 767.8748133 35.17687988
10 12 2018 19:00
                 759.2659302 6.156398773 678.0324431 39.79648972
10 12 2018 19:10
                 995.2225952 6.626017094 856.1725249 19.61116982
10 12 2018 19:20
                 1337.43396 7.325277805 1169.41051 14.88323975
10 12 2018 19:30
                 1078.51001 6.816802979 935.6085927 14.75249958
10 12 2018 19:40
                 368.3658142 5.128430843 368.1888965 356.8304138
10 12 2018 19:50 246.8247986 4.606375217 244.8616333 4.442669868
10 12 2018 20:00 306.7712097 4.773441792 282.2302746 352.9360962
```

```
10 12 2018 20:10 488.0967102 5.444840908 453.2714701 334.631012
                 977.1837769 6.645377159 864.0410181 335.4363098
10 12 2018 20:20
10 12 2018 20:30
                 1277.139038 7.265627861 1140.192649 319.9350891
10 12 2018 20:40 794.1586304 6.386092186 762.1500517 322.7345886
10 12 2018 20:50 1577.435059 7.894566059 1470.209433 335.6384888
10 12 2018 21:00 2134.837891 8.857151031 2052.34086 341.6343994
10 12 2018 21:10 2173.906006 8.989663124 2137.32926 338.9212952
10 12 2018 21:20 3251.033936 12.01780033 3524.690867 342.9372864
10 12 2018 21:30 2735.217041 9.878018379 2713.894831 344.276001
10 12 2018 21:40
                 2474.73291 9.486515045 2461.13448 339.6565857
10 12 2018 21:50
                 2561.875
                             9.64554882 2551.270195 334.6256104
10 12 2018 22:00 2951.228027 10.6973896 3154.798248 334.855011
10 12 2018 22:10 3514.254883 12.71755981 3591.824147 331.1152954
10 12 2018 22:20 3570.451904 12.72719955 3592.223491 333.3973083
10 12 2018 22:30 3501.657959 12.53448963 3581.619414 330.9411011
10 12 2018 22:40 3572.488037 12.8025198 3594.875341 330.7391052
10 12 2018 22:50 3591.831055 14.07812977 3600 329.5888062
10 12 2018 23:00 3559.177002 12.7205801 3591.950737 330.6643066
10 12 2018 23:10 3116.547119 10.95798969 3257.406962 326.3785095
10 12 2018 23:20 3133.541992 11.32952976 3376.791168 319.7000122
10 12 2018 23:30 3539.335938 12.7434597 3592.866175 325.074585
10 12 2018 23:40 2821.625977 10.63813972 3129.137136 330.9866028
10 12 2018 23:50 2825.97998 10.19836998 2909.401655 333.3765869
11 12 2018 00:00 2776.300049 10.51869011 3074.652806 333.7760925
11 12 2018 00:10 2594.756104 10.15678978 2885.799014 338.0148926
11 12 2018 00:20 2449.928955 9.999400139 2791.728967 337.4831848
11 12 2018 00:30 1928.468018 8.257658005 1680.816917 333.1142883
11 12 2018 00:40 1810.630005 8.259429932 1681.875484 329.0405884
11 12 2018 00:50 2164.785889 9.170888901 2254.687311 325.6239014
11 12 2018 01:00 1703.942017 8.39649868 1764.565879 325.4046936
11 12 2018 01:10 2213.176025 9.434799194 2427.193798 317.7952881
11 12 2018 01:20 2288.260986 9.163672447 2249.993312 315.0299072
11 12 2018 01:30 2481.303955 10.10986042 2858.540003 324.1633911
11 12 2018 01:40 2447.490967 9.428775787 2423.242634 315.6459045
11 12 2018 01:50 2623.825928 10.80179977 3197.881084 311.2033081
11 12 2018 02:00 2467.74292 9.735787392 2616.570686 309.0002136
11 12 2018 02:10 2148.595947 9.345043182 2368.370132 311.914093
11 12 2018 02:20 2125.333008 8.893919945 2075.842946 309.0244141
11 12 2018 02:30 2545.416016 10.51723003 3073.963638 304.5726929
11 12 2018 02:40 2217.033936 9.84718895 2693.368827 314.0567017
11 12 2018 02:50 2140.303955 9.350412369 2371.885352 322.6159973
11 12 2018 03:00 1893.822021 8.780650139 2003.659341 323.6459961
11 12 2018 03:10 1688.999023 7.880980015 1462.5933
                                                     314.5715942
11 12 2018 03:20 1844.993042 8.677602768 1938.590075 296.6664124
11 12 2018 03:30 1968.161011 9.126673698 2225.951857 299.5109863
11 12 2018 03:40 2177.184082 10.0503397 2823.006705 303.1489868
11 12 2018 03:50 2308.389893 10.37084007 3001.942026 298.9822083
                 1590.206055 7.858338833 1449.946849 294.6534119
11 12 2018 04:00
11 12 2018 04:10 1768.274048 8.606039047 1893.775809 295.2374878
11 12 2018 04:20
                 2196.832031 9.970192909 2773.429087 294.6329956
11 12 2018 04:30
                 1892.980957 9.10519886 2212.017518 292.7731934
11 12 2018 04:40
                 1957.06897 8.827482224 2033.42533 281.874115
11 12 2018 04:50 2196.711914 10.19752979 2908.929792 290.0369873
11 12 2018 05:00 2352.905029 10.04771996 2821.417779 289.7575989
11 12 2018 05:10 2450.868896 10.11104965 2859.238965 288.906311
11 12 2018 05:20 2508.987061 10.49355984 3062.711778 296.1841125
11 12 2018 05:30 2303.785889 9.438622475 2429.701979 290.2901001
11 12 2018 05:40 2464.36792 10.18101025 2899.609838 294.8627014
11 12 2018 05:50 2502.881104 10.19705009 2908.660292 295.7585144
```

```
11 12 2018 06:00 2456.756104 10.35297012 2992.746669 295.2348938
                 2165.707031 9.450448036 2437.460972 295.3745117
11 12 2018 06:10
11 12 2018 06:20
                 1575.93396 7.923287868 1486.37754 294.6046143
11 12 2018 06:30
                 1528.417969 7.605874062 1313.026971 291.2702026
11 12 2018 06:40
                 1439.829956 7.663129807 1343.393393 292.3493042
11 12 2018 06:50
                 1099.212036 6.922087193 981.2974069 287.0414124
11 12 2018 07:00
                 1208.13501 7.339025974 1176.216795 287.5513916
                 1136.68396 6.901934147 972.4471197 284.7318115
11 12 2018 07:10
11 12 2018 07:20
                 883.9052734 6.603192806 846.9508925 288.3985901
11 12 2018 07:30
                 756.1939697 6.154561996 677.3826298 280.9443054
11 12 2018 07:40
                 877.1594849 6.322914124 738.4456089 283.7467041
11 12 2018 07:50
                 954.3259888 6.448228836 785.8883074 284.2485046
11 12 2018 08:00
                 879.7169189 6.099108219 657.934059 286.2210083
11 12 2018 08:10 684.3339233 5.791597843 556.9269032 277.6408997
11 12 2018 08:20 526.7058716 5.460538864 457.7195063 272.4910889
11 12 2018 08:30 694.0175171 5.949717999 608.1579699 271.894104
11 12 2018 08:40
                 734.31427
                            6.217216969 699.752609 276.8933105
11 12 2018 08:50
                 564.4030151 5.396560192 439.7298982 273.6231995
11 12 2018 09:00 696.9260254 6.005788803 625.9471502 272.2992859
                 843.3574829 6.22096777 701.1051187 270.8598022
11 12 2018 09:10
11 12 2018 09:20
                 996.3131714 6.438065052 781.9764509 267.3096008
                 1170.91394 6.57758522 836.6749914 263.3941956
11 12 2018 09:30
                 898.805481 6.202740192 694.5465458 264.8001099
11 12 2018 09:40
11 12 2018 09:50
                 1082.188965 6.554155827 827.3379142 264.9054871
11 12 2018 10:00
                 1020.866028 6.600272179 845.7751463 257.2521057
11 12 2018 10:10 922.3829956 6.429108143 778.5385063 257.6794128
11 12 2018 10:20 804.1569824 5.996606827 623.8556515 256.1998901
11 12 2018 10:30 700.5662231 5.879324913 585.0295641 257.4836121
11 12 2018 10:40
                 711.5678101 6.039527893 637.4044123 255.3759003
11 12 2018 10:50
                 701.331604 6.027736187 633.3862999 257.8051147
11 12 2018 11:00 833.0593872 6.242267132 708.8141358 251.4747009
11 12 2018 11:10 568.7445068 5.724938869 536.0958187 258.4057922
11 12 2018 11:20
                 539.3641968 5.408977985 443.1928954 248.5182037
11 12 2018 11:30
                 292.872406 4.736608982 273.8320111 254.2953033
11 12 2018 11:40
                 200.0222931 4.204483032 161.9310424 255.3881989
11 12 2018 11:50
                  127.4481964 3.971981049 122.6831663 241.8536072
11 12 2018 12:00
                 29.20161057 2.745475054 0
                                               242.595993
11 12 2018 12:10
                        3.165380001 23.48020361 264.0245972
11 12 2018 12:20
                 28.30567932 3.137204885 21.89657078 261.1005859
11 12 2018 12:30
                 0.458665788 2.073343992 0
                                               253.375
11 12 2018 12:40
                        3.052339077 17.89400078 210.2015991
11 12 2018 12:50 4.36420393 3.154392004 22.8474954 216.9297943
11 12 2018 13:00
                 21.97229004 3.251173019 29.08456748 233.5274048
11 12 2018 13:10
                 8.74126339 2.89456892 0
                                               225.4718933
11 12 2018 13:20
                 40.96797943 3.316350937 34.1294632 231.8845062
                 2.727533102 2.420414925 0
11 12 2018 13:30
                                               228.8592072
11 12 2018 13:40
                 0
                        2.650094986 0
                                         227.8811035
11 12 2018 13:50
                 0
                        2.852510929 0
                                         237.0457001
11 12 2018 14:00
                 0
                        2.725611925 0
                                         226.9866028
11 12 2018 14:10
                 0
                        2.661992073 0
                                          222.2070007
11 12 2018 14:20
                 0
                        2.400876999 0
                                          225.9268036
11 12 2018 14:30
                 0
                                         211.0437012
                        2.718338013 0
11 12 2018 14:40
                       2.246453047 0
                                         210.2104034
11 12 2018 14:50
                       1.581915021 0
                                         199.4622955
                 0
11 12 2018 15:00
                       1.016257048 0
                                         290.7401123
                 0
11 12 2018 15:10
                 0
                       0.924776375 0
                                         28.69743919
11 12 2018 15:20
                 0
                       1.229480982 0
                                         42.28464127
11 12 2018 15:30
                      1.153252006 0
                0
                                         17.64632034
11 12 2018 15:40 0
                       0.631837904 0
                                         56.07238007
```

```
11 12 2018 15:50 0
                       1.703537941 0
                                         82.38443756
11 12 2018 16:00
                                         58.03429031
                 0
                        1.516765952 0
11 12 2018 16:10
                        2,472325087 0
                                         52,06838989
                 0
11 12 2018 16:20 0
                       2.533282042 0
                                         51.33045959
                       3.229432106 27.55295469 77.07411957
11 12 2018 16:30 0
11 12 2018 16:40
                       2.385685921 0
                                         61.43891907
11 12 2018 16:50
                 0
                       2.492552042 0
                                         63.09376907
11 12 2018 17:00
                 0
                       1.771281004 0
                                         68.75486755
11 12 2018 17:10
                 0
                       1.372388959 0
                                         82.01722717
11 12 2018 17:20
                       1.128188014 0
                 0
                                         124.2929993
11 12 2018 17:30
                       1.692003965 0
                 Θ
                                         136.4965057
11 12 2018 17:40
                 0
                       2.125137091 0
                                         138.5075073
11 12 2018 17:50
                       1.943042994 0
                                         144.8946075
11 12 2018 18:00
                 0
                       1.547533989 0
                                         122.9791031
11 12 2018 18:10 0
                       1.578161001 0
                                         95.7352066
11 12 2018 18:20
                 0
                       1.615257025 0
                                         75.67256927
11 12 2018 18:30 0
                       2.329070091 0
                                         37.92948914
11 12 2018 18:40 0
                       2.537036896 0
                                         35.13389969
11 12 2018 18:50 0
                       2.969887018 0
                                         42.92116928
11 12 2018 19:00 0
                       2.855638981 0
                                         67.86810303
11 12 2018 19:10
                        2.961958885 0
                                         71.19788361
                 0
11 12 2018 19:20 31.77898979 3.678920984 74.60016773 68.96985626
11 12 2018 19:30
                 129.0843964 3.956440926 119.7884492 58.39012909
11 12 2018 19:40
                 16.67499924 3.526963949 55.07812668 73.89099884
11 12 2018 19:50
                 36.4835701 3.568248987 60.01652051 76.82441711
11 12 2018 20:00
                 13.70588017 3.236773968 28.06171991 62.25146103
11 12 2018 20:10 0
                        2.633965015 0
                                         57.42647934
11 12 2018 20:20
                 10.09844971 3.43055892 44.60836412 71.14526367
11 12 2018 20:30 66.25827789 3.89509201 108.7381209 73.81767273
11 12 2018 20:40
                 72.84863281 3.677728891 74.43264054 71.08500671
11 12 2018 20:50
                 15.14673042 2.484092951 0
                                               89.32663727
                       1.607272029 0
11 12 2018 21:00 0
                                         103.6521988
11 12 2018 21:10
                       1.673385978 0
                                         84.34464264
11 12 2018 21:20 0
                       3.094363928 19.73200976 91.19582367
11 12 2018 21:30 113.1174011 3.715445042 79.84316994 76.53440094
                 80.86334991 3.375125885 39.26158269 75.77832794
11 12 2018 21:40
11 12 2018 21:50
                 90.39272308 3.675585985 74.1320654 72.56635284
11 12 2018 22:00
                 62.56388855 3.908725977 111.1418634 79.51242065
11 12 2018 22:10 34.93096161 3.22974205 27.57425837 79.23995972
11 12 2018 22:20 217.3354034 4.579555988 239.0315765 69.30506897
11 12 2018 22:30 361.1210938 5.209915161 389.292602 63.49942017
11 12 2018 22:40 454.2481079 5.502710819 469.7800536 60.82320023
11 12 2018 22:50 608.3922119 5.87417078 583.3565291 58.45198822
11 12 2018 23:00 638.8391113 6.021430016 631.2435251 55.92435074
11 12 2018 23:10 619.6657715 5.991141796 622.0138911 56.90845108
11 12 2018 23:20 615.1359863 5.971933842 615.5661424 56.55123901
11 12 2018 23:30
                 720.4398804 6.257332802 714.2963798 58.28950119
11 12 2018 23:40 695.2437134 6.131865978 669.3830214 58.83987045
11 12 2018 23:50 692.9970093 6.170793056 683.137338 59.64152908
12 12 2018 00:00
                 770.875
                             6.432302952 779.7637645 63.28680038
12 12 2018 00:10
                 960.3947144 6.759703159 911.387663 65.30001831
12 12 2018 00:20
                 952.8256226 6.713961124 892.2619723 67.16449738
12 12 2018 00:30
                 919.2819214 6.640324116 861.9831865 60.98521042
12 12 2018 00:40 938.133728 6.307888031 732.8715078 58.02320099
12 12 2018 00:50 653.1087036 5.810522079 562.9224188 59.98249817
12 12 2018 01:00 666.697876 6.060597897 644.6211745 61.75941849
12 12 2018 01:10 478.7305908 5.457241058 456.7832176 65.33046722
12 12 2018 01:20 605.8895874 5.916649818 597.2280852 65.1578598
12 12 2018 01:30 832.2924805 6.267721176 718.090823 65.28437042
```

```
12 12 2018 01:40 778.1389771 6.22921896 704.0857465 65.68399048
12 12 2018 01:50 854.8098145 6.55727005 828.5754396 69.00807953
12 12 2018 02:00 812.3577881 6.457006931 789.2759844 70.37081146
12 12 2018 02:10 782.3480835 6.165733814 681.3405644 72.57787323
12 12 2018 02:20 745.5994263 6.074353218 649.3581516 72.38456726
12 12 2018 02:30 713.1533203 6.023777008 632.0405132 71.68739319
12 12 2018 02:40 638.8773804 5.602599144 499.0043659 68.4629364
                             5.17767477 380.8779294 58.62567139
12 12 2018 02:50 511.95401
12 12 2018 03:00 643.4802856 5.851425171 576.0062209 32.71841049
12 12 2018 03:10 539.4354248 5.82631588 567.9540989 32.90084839
12 12 2018 03:20
                 214.2828064 4.204435825 161.9218214 36.89319992
12 12 2018 03:30 237.2519989 4.51417017 225.0050851 40.3628006
12 12 2018 03:40 238.8215027 4.701307774 265.8690236 45.43370819
12 12 2018 03:50 312.6004944 4.869485855 304.5720536 44.6925087
12 12 2018 04:00 261.521698 4.85119009 300.2658743 54.52062988
12 12 2018 04:10 258.6300049 4.971048832 328.9189809 56.08480072
12 12 2018 04:20 322.530304 5.542760849 481.3853491 58.46511078
12 12 2018 04:30 274.0098877 4.842682838 298.2717005 48.77814102
12 12 2018 04:40 287.9093018 5.393910885 438.9928481 47.39487076
12 12 2018 04:50 286.661499 5.510253906 471.9544611 47.93215179
12 12 2018 05:00 94.26400757 3.811116934 94.58859631 44.8857193
12 12 2018 05:10 76.49360657 3.704796076 78.29247511 35.37195969
12 12 2018 05:20
                 185.6427002 4.772307873 281.970346 39.24979019
12 12 2018 05:30
                 373.780304 6.484271049 799.8520536 46.93019104
12 12 2018 05:40 381.3912964 6.864368916 956.0832184 49.59004974
12 12 2018 05:50 390.3623047 7.171666145 1095.176763 52.97145081
12 12 2018 06:00 391.9732971 7.090596199 1057.298663 47.90222931
12 12 2018 06:10 224.1578979 5.148223877 373.2655442 37.52968979
12 12 2018 06:20 346.8143921 5.960698128 611.8128573 28.34036064
12 12 2018 06:30 359.0736084 6.298339844 729.3421767 24.72769928
12 12 2018 06:40 382.6984863 7.164468765 1091.778392 28.1012001
12 12 2018 06:50 304.2538147 5.606856823 500.2709341 28.24010086
12 12 2018 07:00 137.1473999 4.142602921 149.9393639 16.63664055
12 12 2018 07:10 177.7218933 4.550278187 232.7184085 0.813517988
12 12 2018 07:20 354.931488 6.787152767 922.9830698 359.4671021
12 12 2018 07:30 383.7106934 6.891694069 967.9692986 356.985199
                 397.1261902 7.194179058 1105.851963 357.1984863
12 12 2018 07:40
12 12 2018 07:50
                 386.4045105 7.191703796 1104.674868 357.2521057
12 12 2018 08:00 378.8761902 6.849999905 949.8693264 352.0423889
12 12 2018 08:10 371.931488 7.351491928 1182.41193 348.3125916
12 12 2018 08:20 380.9428101 7.439587116 1226.84322 347.0541077
12 12 2018 08:30 409.6593018 7.35683012 1185.071726 346.4173889
12 12 2018 08:40 387.2716064 7.786464214 1410.1882
                                                     346.6207886
12 12 2018 08:50 359.8617859 7.447478771 1230.879956 346.4370117
12 12 2018 09:00 342.4823914 7.330793858 1172.138059 345.4407959
12 12 2018 09:10
                 349.4096985 7.353021145 1183.17345 340.138092
12 12 2018 09:20
                 324.8817139 7.617197037 1318.999053 338.2626953
12 12 2018 09:30 286.8811035 6.395431995 765.6911947 337.6910095
12 12 2018 09:40 267.5864868 6.698134899 885.7015507 329.7199097
12 12 2018 09:50
                 236.3506927 6.515729904 812.1575834 328.1300049
12 12 2018 10:00
                 167.7084961 5.622491837 504.9368733 323.3454895
12 12 2018 10:10
                 144.7691956 5.450133801 454.7687271 324.1931152
12 12 2018 10:20
                 152.0442963 5.260633945 402.7045345 321.8681946
12 12 2018 10:30
                 151.8582001 5.467350006 459.6564007 310.4424133
12 12 2018 10:40 134.3168945 5.83595705 571.0381916 314.2442932
12 12 2018 10:50 81.89698792 5.658337116 515.7228419 319.4841919
12 12 2018 11:00 73.35048676 5.453857899 455.8237201 316.8417969
12 12 2018 11:10 47.39570999 4.983942986 332.0647002 314.9653015
12 12 2018 11:20 40.73205185 4.76536417 280.380564 305.3091125
```

```
12 12 2018 11:30 106.7550964 5.795332909 558.1073533 304.0728149
12 12 2018 11:40 96.67328644 5.484476089 464.5452368 296.156189
12 12 2018 11:50 19.05604935 4.576486111 238.367117 277.9552917
12 12 2018 12:00 85.92915344 5.377993107 434.577518 266.0372009
12 12 2018 12:10 98.50753021 5.501228809 469.3534584 268.3630066
12 12 2018 12:20
                 101.8694
                             5.549543858 483.3656354 271.8947144
12 12 2018 12:30 0
                       4.346449852 190.186353 271.1704102
12 12 2018 12:40 57.16202164 5.24281311 397.9675337 280.528595
                 123.5466995 5.698198795 527.8638919 285.3251953
12 12 2018 12:50
12 12 2018 13:00 65.14933014 5.060752869 351.0660164 288.7049866
12 12 2018 13:10 24.77461052 4.57656908 238.3850677 289.7247925
12 12 2018 13:20 0
                       4.066248894 135.3982741 299.1910095
12 12 2018 13:30 0
                       3.329412937 35.22224464 301.7795105
12 12 2018 13:40 0
                       4.43249321 207.8458702 294.9837952
12 12 2018 13:50 0
                       4.506884098 223.4582544 283.0750122
12 12 2018 14:00 0
                       4.521144867 226.4888174 277.0271912
12 12 2018 14:10 41.94804001 5.053822041 349.3328012 275.3208008
12 12 2018 14:20 59.72365952 4.653278828 255.1676957 272.4559937
12 12 2018 14:30 21.60170937 4.195146084 160.1094336 271.5481873
12 12 2018 14:40 0.040199779 4.218433857 164.6610221 259.2066956
12 12 2018 14:50 0
                       3.684564114 75.39629369 267.868988
12 12 2018 15:00 118.6634979 5.759212017 546.7506049 269.2854919
12 12 2018 15:10 230.8959961 6.717058182 893.5491974 270.7703857
12 12 2018 15:20 213.7120972 6.347943783 747.784914 272.1943054
12 12 2018 15:30 214.4013062 6.101302147 658.6972626 265.2575989
12 12 2018 15:40 279.9666138 7.279489994 1146.937629 260.0332031
12 12 2018 15:50 294.6896057 7.436964035 1225.503547 255.8632965
12 12 2018 16:00 288.4360046 7.307936192 1160.863986 258.1680908
12 12 2018 16:10 276.0444946 7.056734085 1041.734153 264.4598999
12 12 2018 16:20 301.5213013 7.605336189 1312.743693 275.175293
12 12 2018 16:30 324.2926025 7.531703949 1274.321356 267.2633057
12 12 2018 16:40 285.002594 6.773207188 917.0809694 265.3973999
12 12 2018 16:50 289.9786987 6.850934029 950.2725291 267.0444031
12 12 2018 17:00 274.2427063 6.578570843 837.0691353 270.958313
12 12 2018 17:10 298.7760925 6.887559891 966.1651318 270.4529114
12 12 2018 17:20 242.5466003 5.869606018 581.8771107 268.7394104
12 12 2018 17:30 212.8887024 5.670391083 519.3778716 271.3085022
12 12 2018 17:40 220.611496 5.593266964 496.2342814 270.9338989
12 12 2018 17:50 220.6938019 5.546440125 482.4589728 268.9212036
12 12 2018 18:00 92.53717041 4.684938908 262.2048384 266.1238098
12 12 2018 18:10 141.4916992 4.744070053 275.525757 247.3448944
12 12 2018 18:20 59.87115097 4.105779171 142.8920715 233.0005035
12 12 2018 18:30
                 18.4194603 3.830743074 97.79450284 222.4277039
12 12 2018 18:40 0
                       3.80013895 92.8222336 221.6147003
12 12 2018 18:50 0
                       4.01367712 125.5435052 223.8137054
12 12 2018 19:00 20.5135498 3.6501019
                                        70.61385924 242.0447998
12 12 2018 19:10 0
                       3.284584045 31.58573577 243.8018036
12 12 2018 19:20 0
                       3.623723984 67.08169611 236.1716003
12 12 2018 19:30 0
                       3.986223936 125.3701781 224.9880066
12 12 2018 19:40 49.62205887 4.208006859 162.6196736 238.2590027
12 12 2018 19:50
                 112.2358017 4.293041229 179.4312192 231.1898041
12 12 2018 20:00 258.2984924 5.304481983 414.4742997 210.4662018
12 12 2018 20:10 238.7516937 5.370806217 432.591315 209.1255035
12 12 2018 20:20 326.2937012 6.311448097 734.1899485 204.3368073
12 12 2018 20:30 305.0701904 5.816747189 564.902607 200.3887024
12 12 2018 20:40 369.4674072 6.848180771 949.0844235 196.6215057
12 12 2018 20:50 375.7684021 7.046487808 1037.053881 198.414505
12 12 2018 21:00 380.4543152 7.509931087 1263.097967 199.6260986
12 12 2018 21:10 389.2858887 7.791367054 1412.881238 198.3473053
```

```
12 12 2018 21:20 391.7380981 8.088027
                                        1580.801922 200.6687927
12 12 2018 21:30 373.7155151 7.392190933 1202.795855 200.8952026
12 12 2018 21:40 340.2134094 6.306134224 732.2225035 201.4174042
12 12 2018 21:50 379.1105957 7.271634102 1143.11182 201.5970001
12 12 2018 22:00 374.714386 6.976758003 1005.56032 199.2879028
12 12 2018 22:10 379.126709 7.10272789 1062.911422 204.694397
12 12 2018 22:20 387.5447998 7.515387058 1265.90439 205.8914948
12 12 2018 22:30 380.6452026 6.957181931 996.8295349 201.0635986
12 12 2018 22:40 382.442688 7.378921986 1196.123438 199.9920959
12 12 2018 22:50
                 383.3764954 7.21600914 1116.269417 199.7602997
12 12 2018 23:00
                 381.5831909 7.117119789 1069.595031 199.5657959
12 12 2018 23:10 389.1455994 7.107697964 1065.216436 203.5538025
12 12 2018 23:20 399.5078125 8.127157211 1603.633436 206.1203003
12 12 2018 23:30 429.4187927 8.769072533 1996.318752 204.8439026
12 12 2018 23:40 426.3595886 8.633871078 1911.166243 204.691803
12 12 2018 23:50 425.1495972 7.979320049 1518.176448 201.5659943
13 12 2018 00:00 373.9325867 6.7572999 910.3767018 204.4933014
13 12 2018 00:10 359.3540039 6.167404175 681.9334847 205.4945984
13 12 2018 00:20 379.1557007 6.562046051 830.4754346 200.4078064
13 12 2018 00:30 383.4294128 6.76957798 915.5487776 203.4015961
13 12 2018 00:40 382.7236938 6.539339066 821.464939 202.6047058
13 12 2018 00:50 391.4248962 6.480857849 798.5235356 200.3251953
13 12 2018 01:00
                 380.4436035 6.296154976 728.5359599 201.8352966
13 12 2018 01:10 373.5651855 6.086244106 653.4693564 212.6020966
13 12 2018 01:20 383.0054016 6.119376183 665.0042641 217.7662964
13 12 2018 01:30 389.0577087 6.27507782 720.7849264 210.3500061
13 12 2018 01:40 411.2077026 6.609396935 849.4516738 207.7588043
13 12 2018 01:50 505.6350098 7.156630993 1088.085595 210.7055969
13 12 2018 02:00 676.7446899 7.263085842 1138.958695 210.460907
13 12 2018 02:10 609.1154175 6.789708138 924.0670636 211.9989014
13 12 2018 02:20 563.0228882 6.617030144 852.5344876 212.7758942
13 12 2018 02:30
                 722.675415 6.918033123 979.5130199 211.8262024
13 12 2018 02:40
                 728.9686279 6.688454151 881.7029225 212.8087006
13 12 2018 02:50 800.9743042 6.632052898 858.6210621 214.4266968
13 12 2018 03:00 852.6384277 6.712679863 891.72977
                                                     212.1820984
13 12 2018 03:10 684.3479004 6.227845192 703.588985 211.0003052
13 12 2018 03:20 690.2647705 6.199804783 693.4936687 209.3126984
13 12 2018 03:30 697.3737793 6.18443203 687.9948231 209.2758026
13 12 2018 03:40 819.4859009 6.307661057 732.7874961 207.5065002
13 12 2018 03:50 1076.979004 6.765710831 913.9178431 206.7584991
13 12 2018 04:00 1244.468994 7.01816988 1024.18922 203.8952026
13 12 2018 04:10 1553.942017 7.392118931 1202.759578 198.4602966
13 12 2018 04:20 1893.229004 8.400532722 1767.022708 196.0738983
13 12 2018 04:30 2020.801025 9.046871185 2174.249805 196.4940033
13 12 2018 04:40 2196.612061 9.509352684 2447.286081 194.9181061
13 12 2018 04:50 2078.335938 9.052939415 2178.173391 194.6790009
13 12 2018 05:00 2094.509033 8.945894241 2109.171226 193.2658997
13 12 2018 05:10 2033.764038 8.883722305 2069.318307 192.649704
13 12 2018 05:20 1975.819946 8.778866768 2002.528149 192.1800995
13 12 2018 05:30
                 1883.458984 8.636267662 1912.66603 192.7516022
13 12 2018 05:40
                 1804.310059 8.482764244 1817.375734 191.7462006
13 12 2018 05:50 1902.493042 8.633919716 1911.196677 192.0428009
13 12 2018 06:00
                 1937.160034 8.674902916 1936.893603 193.3049927
13 12 2018 06:10 2267.935059 9.488938332 2462.725514 191.1230011
13 12 2018 06:20 2672.888916 10.45046043 3041.837498 191.2234955
13 12 2018 06:30 2514.62207 9.923737526 2743.76517 191.6717987
13 12 2018 06:40 2498.760986 9.971434593 2774.212545 192.7406006
13 12 2018 06:50 2368.554932 9.554179192 2482.244886 191.9790039
13 12 2018 07:00 2210.804932 9.290213585 2332.504374 190.0440979
```

```
13 12 2018 07:10 2475.400879 9.716698647 2602.991157 187.5359039
                 2287.405029 9.427271843 2422.256165 186.3614044
13 12 2018 07:20
13 12 2018 07:30 2282.968994 9.553372383 2481.622109 185.5139008
13 12 2018 07:40 1954.029053 9.037899017 2168.451097 186.2444
13 12 2018 07:50 1867.040039 8.805882454 2019.682432 186.4093933
13 12 2018 08:00 2198.5271
                             9.371422768 2385.645691 187.3567047
13 12 2018 08:10 2017.692017 9.154224396 2243.850081 186.5207977
13 12 2018 08:20 2252.245117 9.826205254 2679.219424 184.335907
13 12 2018 08:30 2664.74292 10.60614014 3114.905319 183.7604065
                 2599.570068 10.45625973 3044.675507 183.405899
13 12 2018 08:40
13 12 2018 08:50
                 2419.273926 9.936166763 2751.769297 182.0590973
13 12 2018 09:00 2595.339111 10.36820984 3000.594183 182.1195068
13 12 2018 09:10 2205.073975 9.360541344 2378.518189 181.4046021
13 12 2018 09:20 2373.941895 9.714177132 2601.188061 179.6134949
13 12 2018 09:30 2369.965088 9.609051704 2524.053774 181.1118011
13 12 2018 09:40 2272.590088 9.404776573 2407.504574 181.0417938
13 12 2018 09:50 2150.556885 9.084134102 2198.364169 180.6045074
13 12 2018 10:00 1949.312988 8.612506866 1897.812675 183.8567047
13 12 2018 10:10 2204.529053 9.201695442 2274.742397 183.9324951
13 12 2018 10:20 2004.30896 8.7930336
                                         2011.518883 183.9499969
13 12 2018 10:30 1949.06897 8.802027702 2017.232392 183.7774963
13 12 2018 10:40 2253.332031 9.255990028 2310.149657 182.5988007
                 2766.112061 10.23801041 2931.429111 185.4205933
13 12 2018 10:50
13 12 2018 11:00
                 2503.093018 9.726053238 2609.661465 182.5361938
13 12 2018 11:10 2856.35498 10.50669956 3068.976351 185.8025055
13 12 2018 11:20 3024.187988 10.95742989 3257.203866 186.4046936
13 12 2018 11:30 3343.220947 11.57946968 3440.84307 188.3415985
13 12 2018 11:40 3152.209961 11.16174984 3326.610587 186.4712982
13 12 2018 11:50 3131.443115 11.34016991 3379.774247 189.8394012
13 12 2018 12:00 3207.407959 11.37707043 3389.939548 188.4705963
13 12 2018 12:10 3243.985107 11.67101002 3461.254744 187.3417053
13 12 2018 12:20 3230.417969 11.60655022 3447.047145 190.0836945
13 12 2018 12:30 3336.8479
                            11.76377964 3480.341679 191.7402039
13 12 2018 12:40 3281.014893 11.73544979 3474.681172 190.428299
13 12 2018 12:50 3525.165039 12.54230976 3582.158231 191.6851044
13 12 2018 13:00 3591.212891 13.35068035 3600 194.4716034
13 12 2018 13:10
                 3602.495117 13.63317013 3600 194.1293945
13 12 2018 13:20
                 3602.191895 13.38329983 3600 190.8914948
13 12 2018 13:30 3601.066895 12.82826996 3595.592501 190.6486053
13 12 2018 13:40 3600.705078 12.85879993 3596.318512 190.8249969
13 12 2018 13:50 3600.406006 13.01655006 3600 189.2850037
13 12 2018 14:00 3599.745117 12.99713039 3597.933342 186.1537018
13 12 2018 14:10 2814.737061 10.84031963 3213.101469 185.4263
13 12 2018 14:20 2783.281982 10.76189995 3181.73494 187.0263977
13 12 2018 14:30 3450.950928 12.03065968 3526.637315 188.1278992
13 12 2018 14:40 3602.506104 13.24098015 3600 189.9965973
                 3602.634033 13.71210003 3600 193.9029999
13 12 2018 14:50
                 3602.593018 13.65713978 3600 194.8964996
13 12 2018 15:00
13 12 2018 15:10
                 3602.672119 13.76930046 3600 195.3950043
                                               194.0679016
13 12 2018 15:20
                 3602.648926 13.67218971 3600
13 12 2018 15:30
                 3602.708984 13.92090034 3600 192.115097
13 12 2018 15:40
                 3602.595947 14.84661961 3600 189.2472992
13 12 2018 15:50
                 3602.550049 15.30576038 3600 188.1199036
13 12 2018 16:00
                 3602.230957 15.39982986 3600 184.7902985
13 12 2018 16:10
                 3602.461914 15.4907999 3600 180.0299988
13 12 2018 16:20
                 3602.268066 15.46407032 3600 177.8153076
13 12 2018 16:30 3602.483887 14.7278204 3600 184.2989044
13 12 2018 16:40 3602.614014 14.43237019 3600 186.1148071
13 12 2018 16:50 3602.530029 13.84072971 3600 187.7454071
```

```
13 12 2018 17:00 3529.75293 12.38601017 3569.609966 187.365799
13 12 2018 17:10 3543.003906 12.58071041 3584.669716 191.3305054
13 12 2018 17:20 3071.388916 11.28022957 3362.6629
                                                    194.8195038
13 12 2018 17:30 1980.766968 9.22389698 2289.211669 201.5223999
13 12 2018 17:40 842.4688721 6.838683128 944.9929596 207.6889038
13 12 2018 17:50 736.5372925 6.597754955 844.7625722 206.5888062
13 12 2018 18:00 797.5767212 6.978384018 1006.287678 200.990799
13 12 2018 18:10 870.9730225 7.246164799 1130.767885 185.2760925
13 12 2018 18:20 629.5750122 6.585955143 840.0255534 164.0762939
13 12 2018 18:30 433.4107971 5.756120205 545.7846114 153.0664063
13 12 2018 18:40
                 21.72290039 2.876029015 0
                                               97.74725342
13 12 2018 18:50 0
                       3.364579916 38.30003852 96.08017731
13 12 2018 19:00 0
                       2.713231087 0
                                         111.7726974
13 12 2018 19:10 0
                       2.766160965 0
                                         116.9320984
13 12 2018 19:20 141.75
                             4.739089012 274.3945875 116.7307968
13 12 2018 19:30 375.6431885 5.173752785 379.8601139 127.7958984
13 12 2018 19:40 891.9078979 6.50852108 809.3280529 140.0955048
13 12 2018 19:50 1808.756958 8.666893959 1931.86373 146.7622986
13 12 2018 20:00 1811.149048 8.861552238 2055.150601 153.5444946
13 12 2018 20:10 1521.204956 8.289089203 1699.634688 155.5337982
13 12 2018 20:20 1295.093018 7.581714153 1300.339808 160.4944
13 12 2018 20:30 1333.10498 7.895823002 1470.915091 161.9273987
13 12 2018 20:40 1338.979004 7.934896946 1492.938114 159.8540955
13 12 2018 20:50 1209.722046 7.645967007 1334.247106 158.9013062
13 12 2018 21:00 997.1021729 6.909368992 975.7063317 162.6710052
13 12 2018 21:10 952.5866089 6.736851215 901.8021693 169.5041962
13 12 2018 21:20 1099.29895 6.912094116 976.9026489 180.9006958
13 12 2018 21:30 1368.70105 7.463908195 1239.314233 185.1950073
13 12 2018 21:40 1739.240967 8.300152779 1706.278621 187.4152985
13 12 2018 21:50 1927.422974 8.609680176 1896.048072 189.1934052
13 12 2018 22:00 1880.057007 8.613056183 1898.155654 192.0345001
13 12 2018 22:10 1813.562988 8.781364441 2004.11247 189.6502991
13 12 2018 22:20 1817.035034 8.685092926 1943.29888 189.1464996
13 12 2018 22:30 2155.476074 9.592217445 2511.341539 193.3648071
13 12 2018 22:40 2203.853027 9.432926178 2425.965111 192.1439972
13 12 2018 22:50 2368.591064 9.677294731 2574.564
                                                     190.4111938
13 12 2018 23:00 2057.775879 9.124562263 2224.581152 187.9447021
13 12 2018 23:10 2048.513916 9.158610344 2246.701544 188.1835938
13 12 2018 23:20 1926.89502 8.92096138 2093.167937 189.8079071
13 12 2018 23:30 1516 8.157906532 1621.678092 192.401001
13 12 2018 23:40 1231.859009 7.624908924 1323.075974 194.0776062
13 12 2018 23:50 1090.109009 7.393339157 1203.374473 193.1327972
14 12 2018 00:00 972.4821167 7.064969063 1045.505567 194.2100067
14 12 2018 00:10 828.8969727 6.737674236 902.1463306 196.1284027
14 12 2018 00:20 696.0933838 6.391798019 764.3122593 192.5337982
14 12 2018 00:30 809.6281738 6.818036079 936.1359402 186.5948029
14 12 2018 00:40 878.4401245 6.921654224 981.1067403 186.7944946
14 12 2018 00:50 869.526001 6.835793018 943.7500959 202.0144043
14 12 2018 01:00 836.9509888 6.889351845 966.9468886 208.2207031
14 12 2018 01:10 343.810791 5.137403965 370.486478 208.0648041
14 12 2018 01:20 372.0921936 5.452789783 455.5210073 203.8887024
14 12 2018 01:30 778.0532837 7.08304882 1053.816596 198.3934021
14 12 2018 01:40 837.8546143 7.186713219 1102.304168 192.7796021
14 12 2018 01:50 910.109375 7.05907917 1042.807248 194.3556061
14 12 2018 02:00 1332.932007 7.916307926 1482.440063 196.6952057
14 12 2018 02:10 1156.503052 7.487038136 1251.258188 195.4873047
14 12 2018 02:20 1503.089966 8.283992767 1696.577676 198.608902
14 12 2018 02:30 1378.083984 8.206665993 1650.472918 194.514801
14 12 2018 02:40 1395.526978 8.384008408 1756.967134 193.9468994
```

```
14 12 2018 02:50 1530.88501 8.620615005 1902.877168 195.7882996
                 1250.744995 8.236985207 1668.487177 186.7019043
14 12 2018 03:00
                 883.8355713 7.13158083 1076.33839 177.9087067
14 12 2018 03:10
14 12 2018 03:20
                 785.0446167 6.844385147 947.4480106 179.2187042
14 12 2018 03:30 535.8859253 6.103374958 659.4188058 178.4682007
14 12 2018 03:40
                 731.8826294 6.580169201 837.708541 173.1022949
14 12 2018 03:50
                 604.8352051 6.217071056 699.7000247 172.9311981
                 505.2538147 5.864064217 580.0839459 177.1651001
14 12 2018 04:00
14 12 2018 04:10
                 517.3729248 5.879072189 584.9474653 180.2453003
14 12 2018 04:20
                 472.480011 5.768959999 549.802507 183.3079987
14 12 2018 04:30
                 567.7678833 6.035728931 636.1082648 193.6309052
14 12 2018 04:40
                 636.7249756 6.270411015 719.0752027 193.2169952
14 12 2018 04:50
                 594.4926758 6.107563019 660.8780656 191.4438934
14 12 2018 05:00
                 621.2161865 6.211935043 697.8505467 187.5783997
14 12 2018 05:10
                 286.3096008 4.865383148 303.6043365 185.0117035
14 12 2018 05:20
                 191.0099945 4.459736824 213.5256328 194.5225067
14 12 2018 05:30
                 199.6894073 4.454957008 212.5260006 198.4835968
14 12 2018 05:40
                 337.781311 5.215795994 390.8367274 197.4154968
14 12 2018 05:50 427.8998108 5.682866096 523.1754834 197.0700073
14 12 2018 06:00
                 464.6686096 5.77620697 552.0775855 205.0626984
14 12 2018 06:10
                 330.4466858 5.246541023 398.956253 205.6609039
14 12 2018 06:20
                 408.3518982 5.711806774 532.04428
                                                     206.8345032
14 12 2018 06:30 547.2918091 6.228854179 703.9538203 200.0921021
14 12 2018 06:40
                 578.8178101 6.204021931 695.0065713 196.3860016
14 12 2018 06:50 578.1262207 6.315917015 735.846914 192.0305939
14 12 2018 07:00 1019.536987 7.355447769 1184.382561 186.3513947
14 12 2018 07:10
                 1227.953979 7.821010113 1429.223437 192.084198
                 1142.249023 7.632606983 1327.153177 193.9562988
14 12 2018 07:20
14 12 2018 07:30 864.6732178 7.066515923 1046.214972 192.6564026
14 12 2018 07:40 912.0759888 7.109376907 1065.99583 188.2028961
14 12 2018 07:50
                 1179.20105 7.676278114 1350.425341 189.6296997
14 12 2018 08:00 932.6497803 7.015287876 1022.885707 195.3670044
14 12 2018 08:10
                 1037.890015 7.315117836 1164.398111 194.8135986
14 12 2018 08:20
                 521.388916 5.849319935 575.3286145 192.8970947
                 363.5032043 5.312959194 416.7687006 192.6701965
14 12 2018 08:30
14 12 2018 08:40
                 636.8583984 6.2468009
                                         710.4613614 192.8173065
14 12 2018 08:50
                 628.9462891 6.369297981 755.8065315 191.5379944
14 12 2018 09:00
                 644.1021118 6.39700222 766.2874725 192.072998
14 12 2018 09:10
                 797.0717163 6.735438824 901.2117366 195.5514984
14 12 2018 09:20
                 688.739502 6.479846001 798.1299421 195.7274017
14 12 2018 09:30
                661.102478 6.467435837 793.3117853 200.7779999
14 12 2018 09:40 561.8463745 6.238566875 707.4713815 203.7330933
14 12 2018 09:50
                 585.6367798 6.392774105 764.6824997 202.2859955
14 12 2018 10:00 915.3765259 7.065755844 1045.866354 200.5787048
                 1009.182983 6.867924213 957.6245765 199.4965973
14 12 2018 10:10
14 12 2018 10:20 895.9572144 6.7564888
                                       910.0356559 200.9615936
14 12 2018 10:30
                 889.0379028 6.870038986 958.5421407 203.2209015
14 12 2018 10:40
                 914.821228 6.915143013 978.2421863 204.6903076
                 1094.649048 7.342186928 1177.785544 203.2727966
14 12 2018 10:50
14 12 2018 11:00
                 1262.18103 7.646893024 1334.739644 205.3453979
14 12 2018 11:10
                 1410.912964 7.894225121 1470.018057 205.3381958
14 12 2018 11:20
                 1714.495972 8.471808434 1810.637817 201.3209076
14 12 2018 11:30
                 1894.602051 8.820345879 2028.88215 200.1049042
14 12 2018 11:40
                 1525.589966 8.097082138 1586.072118 202.3110046
14 12 2018 11:50
                 1181.246948 7.470578194 1242.750108 204.5198975
14 12 2018 12:00 960.9487305 7.160491943 1089.903663 205.7532959
14 12 2018 12:10 1120.80896 7.339306831 1176.356123 203.6983948
14 12 2018 12:20 1203.647949 7.361255169 1187.279689 203.5397949
14 12 2018 12:30 1205.277954 7.438601017 1226.339473 206.7731018
```

```
14 12 2018 12:40 1405.457031 7.87902689 1461.500098 208.7960052
                 1429.906982 7.967728138 1511.570405 208.8506012
14 12 2018 12:50
14 12 2018 13:00
                 1674.78894 8.316104889 1715.87648 205.4696045
14 12 2018 13:10
                 1928.016968 8.851730347 2048.88159 204.5135956
                 1806.843018 8.685418129 1943.5034
14 12 2018 13:20
                                                     204.3222046
14 12 2018 13:30
                 1514.36499 8.191731453 1641.630077 200.8614044
14 12 2018 13:40
                 1246.42395 7.496236801 1256.031113 199.8627014
                 1477.879028 7.82873106 1433.496711 203.6544037
14 12 2018 13:50
14 12 2018 14:00
                 1635.410034 8.111638069 1594.560622 201.2799988
14 12 2018 14:10
                 1486.005981 8.178236008 1633.656925 200.6539001
14 12 2018 14:20
                 1275.692017 7.849118233 1444.81316 203.2863007
14 12 2018 14:30
                 1332.456055 8.008113861 1534.646603 204.811203
14 12 2018 14:40
                 1554.764038 8.474935532 1812.56011 196.5084991
14 12 2018 14:50
                 1606.057007 8.642425537 1916.521307 197.6230011
14 12 2018 15:00 1430.07605 8.208658218 1651.654063 193.7108002
14 12 2018 15:10
                1394.475952 8.026165962 1545.016317 194.8464966
14 12 2018 15:20
                 1452.284058 8.226167679 1662.050445 196.0832062
14 12 2018 15:30
                 1452.723999 8.179443359 1634.369548 198.1035004
14 12 2018 15:40
                 1772.290039 8.775620461 2000.469461 197.0980072
14 12 2018 15:50
                 2041.510986 9.294858932 2335.540691 201.5596008
14 12 2018 16:00
                 2188.525879 9.671714783 2570.495086 202.3603058
                 2003.949951 9.452830315 2439.024226 197.6139069
14 12 2018 16:10
14 12 2018 16:20
                 2050.974121 9.440626144 2431.016513 199.1015015
14 12 2018 16:30
                 2191.253906 9.545981407 2475.906074 202.4837036
14 12 2018 16:40 2266.677979 9.695793152 2587.975969 202.2344971
14 12 2018 16:50
                2110.714111 9.454021454 2439.805877 203.3934937
14 12 2018 17:00 2242.573975 9.724506378 2608.560539 204.4304047
14 12 2018 17:10 2320.86792 9.869488716 2708.246953 203.6009979
14 12 2018 17:20 2450.180908 10.16349983 2889.642643 206.7391968
14 12 2018 17:30 2535.447998 10.37763023 3005.41268 206.7769012
14 12 2018 17:40 2297.506104 9.882943153 2717.144953 207.1056976
14 12 2018 17:50 1839.892944 8.971033096 2125.334086 209.9859009
14 12 2018 18:00
                 1795.447998 8.985733986 2134.798247 208.684494
14 12 2018 18:10
                 1538.920044 8.461893082 1804.547426 208.1699066
                 1625.137939 8.635587692 1912.240467 207.5081024
14 12 2018 18:20
                 2046.998047 9.48293972 2458.78716 206.9674072
14 12 2018 18:30
14 12 2018 18:40
                 1804.946045 9.151904106 2242.341812 203.4850006
14 12 2018 18:50
                 2248.534912 9.686888695 2581.534713 201.9069977
14 12 2018 19:00
                 2093.625
                             9.438759804 2429.792074 200.7216034
14 12 2018 19:10
                 2565.871094 10.35603046 2994.32777 200.8970947
                 2603.9021
14 12 2018 19:20
                             10.47008991 3051.406813 201.5733032
14 12 2018 19:30 2292.099121 9.82653904 2679.445636 199.4528961
14 12 2018 19:40
                2189.591064 9.585643768 2506.350121 200.9264984
14 12 2018 19:50
                 2289.86499 9.902564049 2730.01563 198.3540039
14 12 2018 20:00
                 2218.673096 9.77029705 2640.806035 197.2247925
14 12 2018 20:10
                 2477.459961 10.41053963 3022.052452 196.5415955
14 12 2018 20:20
                 2291.891113 10.02299976 2806.319893 197.3047028
                 2254.079102 9.977311134 2777.913817 195.9575958
14 12 2018 20:30
                2669.560059 10.45938015 3046.198777 195.1636047
14 12 2018 20:40
14 12 2018 20:50
                 3235.218994 11.57711029 3440.295889 195.9407043
14 12 2018 21:00
                 3202.820068 11.51791
                                         3426.214473 195.6036987
14 12 2018 21:10
                 2836.26709 10.84587002 3215.265113 200.2080994
14 12 2018 21:20
                 3170.64209 11.36849976 3387.603351 202.3977051
14 12 2018 21:30
                 3147.155029 11.78026009 3483.567218 200.5509949
14 12 2018 21:40
                 3216.134033 11.86201
                                       3498.843011 200.0603943
14 12 2018 21:50 3383.396973 12.07363987 3532.939623 201.1721954
14 12 2018 22:00 3344.916016 11.84241009 3495.289653 200.7413025
14 12 2018 22:10 3427.51001 12.04294014 3528.469913 194.6634064
14 12 2018 22:20 3570.554932 12.3600502 3567.158859 195.510498
```

```
3338.873047 11.83994007 3494.836997 195.0059052
14 12 2018 22:30
                 2647.679932 10.37598038 3004.57057 191.2942963
14 12 2018 22:40
  12 2018 22:50
                 3170.38208 11.39344978 3394.362657 192.1269989
14 12 2018 23:00
                 2777.800049 10.3022604 2966.163746 194.5435944
14 12 2018 23:10
                 3332.830078 12.0686903 3532.229736 191.7368011
14 12 2018 23:20
                 3602.246094 13.43352985 3600 197.4248962
14 12 2018 23:30
                 3602.293945 13.45645046 3600 195.1132965
14 12 2018 23:40
                 3602.301025 13.50494957 3600 198.8213959
14 12 2018 23:50
                 3602.305908 14.90888023 3600
                                               198.773407
                 3602.035889 15.19480991 3600
15 12 2018 00:00
                                               195.8670044
15 12 2018 00:10
                 3602.220947 14.72290993 3600
                                               195.1909943
15 12 2018 00:20
                 3601.98999 13.95205975 3600 194.0991058
15 12 2018 00:30
                 3602.293945 13.9864502 3600
                                              191.0791931
15 12 2018 00:40
                 3602.281006 13.5320797
                                         3600
                                               192.4367981
15 12 2018 00:50
                 3602.090088 13.21284008 3600
                                               193.8883972
15 12 2018 01:00
                 3602.319092 13.91514969 3600
                                               194.5814056
15 12 2018 01:10
                 3602.138916 13.91390991 3600 192.5491943
15 12 2018 01:20
                 3601.971924 14.40719986 3600 195.5166016
15 12 2018 01:30
                 3601.89502 14.64350986 3600 196.2185059
15 12 2018 01:40
                 3601.97998 14.9986496 3600 197.0583954
                 3601.688965 15.35179043 3600 196.0144958
15 12 2018 01:50
                 3601.876953 15.1012001 3600
                                               192.8253021
15 12 2018 02:00
15 12 2018 02:10
                 3602.021973 14.83329964 3600
                                               192.7835999
15 12 2018 02:20
                 3601.7229
                             15.22095966 3600
                                               192.8699951
15 12 2018 02:30
                 3601.840088 15.11312962 3600
                                              195.3365936
15 12 2018 02:40
                 3601.943115 14.89453983 3600
                                               196.3612976
15 12 2018 02:50
                 3601.949951 14.54356956 3600
                                               195.108902
15 12 2018 03:00
                 3601.917969 15.31890011 3600 198.2825928
15 12 2018 03:10
                 3602 15.57176971 3600 201.5254059
15 12 2018 03:20
                 3602.041016 15.57971001 3600 200.072403
                 3601.733887 15.42055035 3600 198.5856018
15 12 2018 03:30
15 12 2018 03:40
                 3601.826904 15.11614037 3600 197.3233948
15 12 2018 03:50
                 3601.933105 14.95365047 3600 197.3121948
                                               197.7185974
15 12 2018 04:00
                 3601.906006 14.84506035 3600
                 3602.129883 15.24417019 3600
15 12 2018 04:10
                                               201.0937958
15 12 2018 04:20
                 3602.080078 15.23375988 3600
                                               199.6734009
15 12 2018 04:30
                 3601.934082 15.29006958 3600
                                               195.5543976
15 12 2018 04:40
                 3601.586914 15.36662006 3600
                                               195.5802002
                 3602.100098 16.14813995 3600
15 12 2018 04:50
                                               197.9613953
                 3602.173096 16.35106087 3600
15 12 2018 05:00
                                               197.526001
15 12 2018 05:10
                 3602.114014 15.52602959 3600
                                               195.7136993
15 12 2018 05:20
                 3602.035889 15.40692043 3600
                                              193.4689026
15 12 2018 05:30
                 3601.840088 15.21030045 3600
                                               192.3329926
15 12 2018 05:40
                 3601.928955 14.64196968 3600
                                               191.3419952
15 12 2018 05:50
                 3601.837891 15.04465961 3600 191.3312988
15 12 2018 06:00
                 3601.850098 14.86450958 3600
                                              192.0543976
15 12 2018 06:10
                 3602.010986 14.20674038 3600
                                               192.6306
                                               191.7304993
                 3601.860107 13.87063026 3600
15 12 2018 06:20
15 12 2018 06:30
                 3601.736084 13.90447998 3600
                                               189.6446075
15 12 2018 06:40
                 3601.959961 15.05210018 3600
                                               191.5014954
                 3601.832031 15.21018028 3600
15 12 2018 06:50
                                               191.2480011
15 12 2018 07:00
                 3602.041016 15.05268955 3600
                                               189.411499
15 12 2018 07:10
                 3601.966064 13.94754982 3600
                                               189.4064941
15 12 2018 07:20
                 3602.158936 14.15555954 3600
                                               189.091095
15 12 2018 07:30
                 3602.425049 14.42282009 3600
                                               189.2653961
15 12 2018 07:40
                 3602.218994 15.40437984 3600
                                               191.2751007
15 12 2018 07:50
                 3602.153076 15.22169018 3600 190.6813965
15 12 2018 08:00
                 3602.190918 14.67576027 3600 186.4004974
15 12 2018 08:10 3602.187988 14.86674023 3600 183.0811005
```

```
3602.35498 14.89383984 3600
15 12 2018 08:20
                                               181.7207031
15 12 2018 08:30
                 3602.5
                             14.83045006 3600 181.7400055
15 12 2018 08:40
                 3602.715088 15.56268024 3600
                                               181.7736969
15 12 2018 08:50
                 3602.427979 15.70125008 3600
                                               184.9066925
15 12 2018 09:00
                 3602.351074 15.22937012 3600
                                              184.5895996
                 3602.37793 15.06984997 3600
15 12 2018 09:10
                                              183.6719055
15 12 2018 09:20
                 3602.139893 14.49670029 3600
                                               182.1098938
                 3601.14502 13.61458969 3600
                                               179.180603
15 12 2018 09:30
15 12 2018 09:40
                 3595.803955 13.09747982 3600 178.6723022
15 12 2018 09:50
                 3367.349121 11.83090973 3493.172818 176.449707
15 12 2018 10:00
                 2538.568115 9.580559731 2502.47922 177.8744965
15 12 2018 10:10
                 2091.674072 8.933152199 2100.98924 177.4391937
15 12 2018 10:20
                 1829.769043 8.538585663 1851.840853 173.6239929
15 12 2018 10:30
                 1226.590942 7.324561119 1169.056449 176.384903
                 1427.952026 7.752665997 1391.700826 178.5892029
15 12 2018 10:40
15 12 2018 10:50
                 2033.036987 8.940052986 2105.419525 182.7301941
15 12 2018 11:00
                 2524.468994 9.952067375 2761.936892 183.6927032
15 12 2018 11:10 2525.064941 9.891066551 2722.488785 184.949707
15 12 2018 11:20 2227.205078 9.300575256 2339.277651 189.7926025
                 1857.517944 8.668147087 1932.650475 193.8670959
15 12 2018 11:30
15 12 2018 11:40
                 2093.978027 9.124880791 2224.787925 190.4291992
15 12 2018 11:50
                 2095.551025 9.274471283 2322.218281 189.8634949
15 12 2018 12:00
                 1581.956055 8.053724289 1560.910897 188.9154968
15 12 2018 12:10
                 1637.453979 8.240069389 1670.32426 185.8242035
15 12 2018 12:20
                 1710.170044 8.377275467 1752.876126 184.7830048
15 12 2018 12:30 1802.375
                             8.650444031 1921.545037 182.1546021
15 12 2018 12:40 1776.744995 8.748545647 1983.322134 181.1983948
15 12 2018 12:50 1542.688965 8.127028465 1603.558073 178.8587952
15 12 2018 13:00 1657.328979 8.394779205 1763.519066 178.4250946
15 12 2018 13:10
                 1719.011963 8.336139679 1727.960921 180.3878937
15 12 2018 13:20 1886.265991 8.804829597 2019.01317 179.9792023
15 12 2018 13:30 2198.773926 9.471060753 2450.989071 180.5628967
15 12 2018 13:40 2002.357056 9.148065567 2239.846985 181.3950958
15 12 2018 13:50 2044.708984 9.307781219 2343.989406 181.0364075
15 12 2018 14:00 2107.645996 9.487560272 2461.820728 179.2608032
                 1961.994995 9.190660477 2267.555572 179.7575989
15 12 2018 14:10
15 12 2018 14:20
                 1898.73999 9.067341805 2187.491035 181.5527039
                 1864.557983 9.055762291 2179.999062 179.8061981
15 12 2018 14:30
15 12 2018 14:40 1882.378052 8.973557472 2126.958595 181.5858002
15 12 2018 14:50
                 1545.506958 8.324595451 1720.993681 181.8350067
15 12 2018 15:00 1435.04895 8.091590881 1582.875183 180.8220978
15 12 2018 15:10 1480.369995 8.133914948 1607.591379 180.1062927
15 12 2018 15:20
                 1688.014038 8.787057877 2007.725181 175.6894989
15 12 2018 15:30
                 1705.875977 8.822072029 2029.980822 169.8238983
15 12 2018 15:40
                 1763.703979 8.765256882 1993.901105 169.2826996
                 1909.454956 8.890857697 2073.883149 171.3621063
15 12 2018 15:50
15 12 2018 16:00
                 1805.275024 8.833942413 2037.540295 169.4290009
                 1301.546997 7.791212082 1412.796072 169.2503052
15 12 2018 16:10
15 12 2018 16:20
                 1826.824951 8.895142555 2076.625523 168.3430023
15 12 2018 16:30
                 1772.962036 8.791711807 2010.679576 169.1040039
15 12 2018 16:40
                 1660.620972 8.502457619 1829.509334 168.3273926
15 12 2018 16:50
                 1675.718994 8.516187668 1837.985289 166.9804993
15 12 2018 17:00
                 1536.411011 8.210217476 1652.578763 166.8782043
15 12 2018 17:10
                 1441.887939 7.926074982 1487.951271 170.6898041
15 12 2018 17:20
                 1206.667969 7.469185829 1242.032306 173.6761017
15 12 2018 17:30 943.6577759 7.075293064 1050.246155 168.8115997
15 12 2018 17:40 1005.257996 7.28058815 1147.473123 167.9933929
15 12 2018 17:50 1198.470947 7.730367184 1379.578334 162.3036041
15 12 2018 18:00 1092.536011 7.319372177 1166.495178 165.0115967
```

```
15 12 2018 18:10 899.0922241 6.903659821 973.202997 163.3907928
                 911.8143921 6.83554697 943.6443319 165.7843018
15 12 2018 18:20
15 12 2018 18:30
                 813.5933228 6.685523033 880.494364 165.2438965
15 12 2018 18:40
                 1222.19397 7.434145927 1224.065425 168.7418976
15 12 2018 18:50
                 1182.817017 7.532331944 1274.646018 166.290802
15 12 2018 19:00
                 1156.953003 7.493394852 1254.555111 164.8760986
15 12 2018 19:10
                 1051.088013 7.200643063 1108.929825 169.2731018
                 727.1552124 6.53480196 819.6714625 172.7984924
15 12 2018 19:20
15 12 2018 19:30
                 707.9371948 6.477244854 797.1186557 170.652298
                 773.0192261 6.572813034 834.7681734 172.4017029
15 12 2018 19:40
15 12 2018 19:50
                 1038.057983 7.180787086 1099.493447 178.1943054
15 12 2018 20:00
                 1105.020996 7.427526951 1220.692364 175.5697021
15 12 2018 20:10
                 1450.025024 8.339030266 1729.70719 172.6320038
15 12 2018 20:20
                 1761.662964 8.835296631 2038.403163 171.9730072
15 12 2018 20:30 2153.987061 9.531590462 2464.719752 174.1107941
15 12 2018 20:40 1925.478027 9.192260742 2268.597581 173.9017944
15 12 2018 20:50 2057.780029 9.365653038 2381.866184 175.5937958
15 12 2018 21:00 2116.751953 9.416391373 2415.120298 175.7026062
15 12 2018 21:10 2050.229004 9.293367386 2334.565728 174.0276947
15 12 2018 21:20 1527.894043 8.216908455 1656.549266 174.7783051
15 12 2018 21:30 1553.437012 8.310287476 1712.373851 176.5720978
15 12 2018 21:40 1554.828003 8.281103134 1694.845368 176.8654022
15 12 2018 21:50
                 1670.046021 8.502074242 1829.272858 176.4279938
15 12 2018 22:00
                 1402.618042 8.058275223 1563.543083 176.9062042
15 12 2018 22:10 1266.647949 7.796414852 1415.656847 176.6761017
15 12 2018 22:20 1451.869995 8.209918976 1652.401724 175.7904968
15 12 2018 22:30 1878.813965 9.018527985 2155.941982 176.1367035
15 12 2018 22:40 1688.656982 8.615721703 1899.820213 175.6259003
15 12 2018 22:50 1551.473999 8.317519188 1716.72845 176.7044983
15 12 2018 23:00
                 1316.511963 7.828722954 1433.492221 177.4958954
15 12 2018 23:10 1355.67395 7.929790974 1490.050802 177.1105042
15 12 2018 23:20 1005.062012 7.147319794 1083.709322 180.941803
15 12 2018 23:30 1000.426025 7.105591774 1064.239232 182.5505981
15 12 2018 23:40 696.8948975 6.476760864 796.9305704 182.4568939
15 12 2018 23:50 600.5968018 6.389929771 763.6039016 177.6437073
16 12 2018 00:00
                 586.1881104 6.217799187 699.9624534 181.2050018
16 12 2018 00:10
                 357.4979858 5.499888897 468.9679398 174.8656006
                 194.0942993 4.663424015 257.4155524 165.7657928
16 12 2018 00:20
16 12 2018 00:30 164.7807007 4.540685177 230.6613951 149.0269012
16 12 2018 00:40 149.4013977 4.301794052 181.183253 142.1036072
16 12 2018 00:50 147.8500061 4.251031876 171.078832 145.7743988
16 12 2018 01:00 146.1210022 4.241578102 169.2119552 141.3905029
16 12 2018 01:10 115.8771973 4.057814121 133.8086817 144.360199
16 12 2018 01:20
                 146.6448059 4.274775982 175.7882493 147.8829041
16 12 2018 01:30
                 165.2850037 4.401341915 201.4040027 146.9255066
16 12 2018 01:40
                 162.5137024 4.419386864 205.1287866 141.2978973
16 12 2018 01:50
                 54.52645111 3.568660975 60.0671755 132.6824951
16 12 2018 02:00
                 11.90604019 3.169718981 23.73536998 133.7118073
16 12 2018 02:10
                 10.75839043 3.247551918 28.82421755 136.414093
16 12 2018 02:20
                 0.362000108 3.201258898 25.68069624 132.7608948
16 12 2018 02:30 0
                       3.005028009 16.16291877 126.7514038
16 12 2018 02:40 0
                       2.820239067 0
                                         119.5940018
16 12 2018 02:50 0
                       3.070084095 18.63563347 135.2469025
16 12 2018 03:00 0
                       3.385746956 40.24795971 157.5187988
16 12 2018 03:10 0
                       3.161875963 23.27633702 123.9912033
16 12 2018 03:20 0
                       3.060211897 18.2168185 140.9819946
16 12 2018 03:30 0
                       3.61866498 66.41698795 164.7893982
16 12 2018 03:40 316.0555115 5.328432083 420.9724697 171.5346069
16 12 2018 03:50 319.3039856 5.175365925 380.2785965 170.4398041
```

```
16 12 2018 04:00 457.5172119 5.733516216 538.7513494 169.2012024
                 724.5761108 6.537745953 820.8349338 167.7951965
16 12 2018 04:10
16 12 2018 04:20
                 772.3668823 6.664961815 872.0444269 172.3766022
16 12 2018 04:30
                 790.2891846 6.832871914 942.4949255 176.3551025
                 761.3547974 6.73597002 901.4337693 170.3428955
16 12 2018 04:40
16 12 2018 04:50 683.5333862 6.383360863 761.1162819 172.2689056
16 12 2018 05:00 644.4489136 6.24200201 708.7178792 176.1132965
16 12 2018 05:10 683.7219849 6.417406082 774.0601448 178.3157043
16 12 2018 05:20
                 626.6165161 6.269608021 718.7812556 176.7465057
16 12 2018 05:30
                 558.5839844 6.19331789 691.1702149 174.3372955
16 12 2018 05:40 468.4989014 5.870114803 582.0418985 171.9037933
16 12 2018 05:50 511.8034973 5.960241795 611.6607045 173.1638031
16 12 2018 06:00 540.7014771 6.101281166 658.6899616 172.438797
16 12 2018 06:10 576.5913696 6.185349941 688.3224502 163.044693
16 12 2018 06:20 505.5907898 5.951557159 608.7692645 161.2182007
16 12 2018 06:30 490.9191895 5.907001019 594.060668 161.9313965
16 12 2018 06:40 317.376709 5.219317913 391.7628471 160.3188934
16 12 2018 06:50 169.7207031 4.354540825 191.8292537 153.2304993
16 12 2018 07:00 381.336792 5.554397106 484.785174 143.0028992
16 12 2018 07:10 353.8877869 5.445759773 453.5312178 137.0552979
16 12 2018 07:20 933.0181885 7.327443123 1170.480683 138.1699066
16 12 2018 07:30 1427.265015 8.276272774 1691.951216 139.3211975
16 12 2018 07:40
                 1829.307007 8.773983955 1999.431867 144.3459015
16 12 2018 07:50
                 2234.835938 9.486925125 2461.403719 148.5059052
16 12 2018 08:00 2657.684082 10.33119011 2981.418206 147.4107056
16 12 2018 08:10 3068.042969 11.34607983 3381.421081 145.8406982
16 12 2018 08:20 3280.950928 12.00148964 3522.181449 144.9996948
16 12 2018 08:30 3089.341064 11.38173962 3391.205981 145.7453003
16 12 2018 08:40 2791.927002 10.65192986 3135.189291 152.0258026
16 12 2018 08:50 2194.025879 9.589580536 2509.341173 151.445694
16 12 2018 09:00 2482.233887 10.12205029 2865.684226 147.4174042
16 12 2018 09:10 2721.74292 11.00726986 3275.00272 144.9503937
16 12 2018 09:20 2507.410889 10.57409
                                         3100.385498 141.7554016
16 12 2018 09:30 2306.118896 9.840853691 2689.112238 138.9644928
16 12 2018 09:40 2411.009033 9.983931541 2782.070543 137.9263
16 12 2018 09:50 2452.224121 10.30764961 2969.023451 140.8312073
16 12 2018 10:00
                 2648.980957 10.54119968 3085.205923 142.3101959
16 12 2018 10:10
                 1701.880981 8.591739655 1884.860602 142.7492065
16 12 2018 10:20
                 1324.505981 7.913740158 1480.99289 137.6878052
                 1571.040039 8.42780304 1783.664229 137.3778992
16 12 2018 10:30
16 12 2018 10:40 1623.189941 8.372847557 1750.187652 134.1925049
16 12 2018 10:50 1735.203003 8.798594475 2015.050927 130.1591949
16 12 2018 11:00
                 1653.973022 8.703150749 1954.665037 130.0540009
16 12 2018 11:10
                 1457.369995 8.565518379 1868.547755 128.9593964
16 12 2018 11:20
                 1570.573975 8.347102165 1734.587243 128.1755981
16 12 2018 11:30
                 1940.313965 9.007323265 2148.712998 129.8350067
                 1616.345947 8.530855179 1847.05474 137.633194
16 12 2018 11:40
                 1256.472046 7.640907764 1331.558073 139.7077942
16 12 2018 11:50
                 1039.697998 7.358146191 1185.728106 141.245697
16 12 2018 12:00
16 12 2018 12:10
                 1102.922974 7.725131035 1376.740478 136.7884979
16 12 2018 12:20
                 865.0291138 6.84273386 946.7366319 138.1934052
16 12 2018 12:30
                 655.1583862 6.394134998 765.1988754 140.635498
16 12 2018 12:40
                 533.015686 5.968709946 614.4878202 148.3345947
16 12 2018 12:50
                 466.422699 5.523087025 475.6658784 158.5473938
16 12 2018 13:00
                 535.0969238 5.725220203 536.1828033 173.5229034
16 12 2018 13:10
                 683.9893799 6.313345909 734.893347 175.3244934
16 12 2018 13:20 909.1881714 7.076070786 1050.603832 178.9747925
16 12 2018 13:30 1083.317017 7.395671844 1204.550572 176.9853973
16 12 2018 13:40 998.5009155 7.148920059 1084.460621 178.4857025
```

```
16 12 2018 13:50 1022.721985 7.062848091 1044.533373 188.1103973
                  1015,383972 7,155694008 1087,644684 192,1345062
16 12 2018 14:00
                  891.8189697 7.009225845 1020.147347 203.2393036
16 12 2018 14:10
16 12 2018 14:20
                  531.2449951 5.930086136 601.6551758 210.9739075
                  244.7891998 4.810258865 290.7181621 213.6893005
16 12 2018 14:30
16 12 2018 14:40
                  161.6580963 4.478590965 217.4818292 208.7655945
16 12 2018 14:50
                  216.8256989 4.8503232
                                          300.0624322 200.0325012
                                          392.8040472 196.0048065
                  302.240387 5.2232728
16 12 2018 15:00
                  199.9197998 4.704523087 266.5908617 184.6161041
16 12 2018 15:10
                  167.0594025 4.192237854 159.5429431 178.1228943
16 12 2018 15:20
16 12 2018 15:30
                  369.0078125 5.253180027 400.7199414 169.2644043
16 12 2018 15:40
                  506.8731079 5.761509895 547.4691659 161.8264008
16 12 2018 15:50
                  734.3811035 6.491177082 802.5440297 156.2727966
16 12 2018 16:00
                  295.3475952 4.864864826 303.4821644 164.7333069
16 12 2018 16:10
                  448.762085 5.704518795 529.803134 157.8641052
16 12 2018 16:20
                  308.59021
                              5.03728199 345.2116427 153.9640045
16 12 2018 16:30
                  327.9424133 5.124388218 367.1558851 156.3403931
16 12 2018 16:40
                  139.0480042 4.045372963 131.4700063 151.4664001
                  53.39128876 3.477153063 49.48290164 155.1255951
16 12 2018 16:50
                  169.6528015 4.234553814 167.8278345 156.5995941
16 12 2018 17:00
16 12 2018 17:10
                  93.53328705 3.772804976 88.50796163 155.6557007
16 12 2018 17:20
                  2.365005016 2.681626081 0
                                                 160.0610046
16 12 2018 17:30
                        1.42198801 0
                                           169.4779968
16 12 2018 17:40
                  0
                        1.175868034 0
                                          106.4570999
16 12 2018 17:50
                  0
                        1.883388042 0
                                          83.38522339
16 12 2018 18:00
                        2.430989027 0
                                          87.92536926
16 12 2018 18:10
                        2.58189106 0
                                          91.50285339
                  0
16 12 2018 18:20
                                          85.7723999
                        1.665869951 0
                  0
16 12 2018 18:30
                  0
                        2.253410101 0
                                          83.65480042
16 12 2018 18:40
                  0
                        2.687125921 0
                                          87.37315369
16 12 2018 18:50
                  0
                        3.033166885 17.14934371 75.86525726
16 12 2018 19:00
                  0
                        2.409183979 0
                                          69.16840363
16 12 2018 19:10
                        1.800948977 0
                                          81.47041321
                  0
16 12 2018 19:20
                        1.388393998 0
                                          79.17463684
                  0
16 12 2018 19:30
                        2.228899002 0
                                           58.21829987
                  0
16 12 2018 19:40
                  0
                        2.452205896 0
                                           70.07071686
16 12 2018 19:50
                  0
                        2.878804922 0
                                          89.32998657
16 12 2018 20:00
                  0
                        2.614375114 0
                                          82.86638641
16 12 2018 20:10
                        2.338355064 0
                                           72.83811188
16 12 2018 20:20
                        3.038744926 17.35993119 67.24095917
16 12 2018 20:30
                        3.481281996 49.93161262 70.8290863
16 12 2018 20:40
                  8.080527306 3.7889359
                                          91.0395371 66.81024933
16 12 2018 20:50
                  90.2061615 4.198166847 160.6982943 63.45640945
16 12 2018 21:00
                  59.76129913 3.794055939 91.85177674 55.51026917
16 12 2018 21:10
                  28.25193024 3.551861048 58.02360281 60.90921021
                  13.61738968 2.919440985 0
16 12 2018 21:20
                                                 69.39090729
16 12 2018 21:30
                  0
                        1.79203701 0
                                           61.17565918
16 12 2018 21:40
                  0
                        1.128026962 0
                                          68.08792114
16 12 2018 21:50
                  0
                        1.470561981 0
                                          44.93930054
16 12 2018 22:00
                  0
                        1.101191044 0
                                          55.31348038
16 12 2018 22:10
                  0
                        0.879008114 0
                                           48.71614075
16 12 2018 22:20
                        1.148388982 0
                                           20.40863037
16 12 2018 22:30
                        1.784270048 0
                                          17.22653008
16 12 2018 22:40
                        2.372410059 0
                                          23.61673927
                  0
16 12 2018 22:50
                        3.036950111 17.29162842 15.81266022
                  0
16 12 2018 23:00
                  0
                        3.212059021 26.38341094 13.01465034
16 12 2018 23:10
                  0
                        3.213265896 26.46309605 18.27514076
16 12 2018 23:20
                        2.358247995 0
                                          6.180397034
                  0
16 12 2018 23:30
                  0
                        2.381098032 0
                                          7.791300774
```

```
16 12 2018 23:40 0
                        2.070946932 0
                                          351.6477966
16 12 2018 23:50
                        1.829440951 0
                  0
                                          306.3168945
17 12 2018 00:00
                        3,203905106 25,85114675 239,9134979
                  0
17 12 2018 00:10 0
                        2.307205915 0
                                          230.0605927
17 12 2018 00:20
                  0
                        1.753779054 0
                                          251.4234924
17 12 2018 00:30
                        2.713536978 0
                                          263.5757141
17 12 2018 00:40
                  0
                        2.724221945 0
                                          283.6552124
17 12 2018 00:50
                  0
                        2.360110044 0
                                          306.5801086
17 12 2018 01:00
                  0
                        1.814139009 0
                                          285.2875977
17 12 2018 01:10
                  0
                        2,205039978 0
                                          245.9922028
17 12 2018 01:20
                        1.659544945 0
                  0
                                          255.6968994
17 12 2018 01:30
                        1.490262985 0
                                          198.2136993
17 12 2018 01:40
                        0.982306004 0
                                          239.2606049
                                          197.7592926
17 12 2018 01:50
                        0.776422203 0
17 12 2018 02:00
                        1.321640015 0
                                          197.2476959
                 0
17 12 2018 02:10
                  0
                        0.658023477 0
                                          20.53998947
17 12 2018 02:20
                 0
                        2.370610952 0
                                          46.06402969
17 12 2018 02:30
                 0
                        2.511234045 0
                                          35.63293076
17 12 2018 02:40 0
                        2.31062603 0
                                          40.54090881
17 12 2018 02:50
                 0
                        2.659535885 0
                                          43.85128021
17 12 2018 03:00
                        2.197896004 0
                                          59.7150116
                 0
17 12 2018 03:10
                        3.465125084 48.19131018 55.01200867
                 0
17 12 2018 03:20
                        2.267913103 0
                                          60.77032089
                        2.084981918 0
                                          76.28653717
17 12 2018 03:30
                 0
17 12 2018 03:40
                 0
                        1.299293995 0
                                          108.2555008
17 12 2018 03:50
                        1.411000013 0
                                          78.75784302
17 12 2018 04:00 0
                        1.666934013 0
                                          87.77333069
17 12 2018 04:10
                        1.840154052 0
                                          63.91653061
                 0
17 12 2018 04:20
                 0
                        1.976515055 0
                                          63.73371124
17 12 2018 04:30
                 0
                        2.097523928 0
                                          60.5763092
17 12 2018 04:40 0
                        2.431698084 0
                                          68.29994965
17 12 2018 04:50 0
                        2.732475996 0
                                          69.7245636
17 12 2018 05:00 0
                        2.832129955 0
                                          87.96777344
17 12 2018 05:10 0
                        2.835577965 0
                                          47.80070877
17 12 2018 05:20 0
                        3.101552963 20.07473517 54.04328918
17 12 2018 05:30
                 0
                        3.168369055 23.65566084 55.26556015
17 12 2018 05:40 0
                        3.068085909 18.54960436 43.57727051
17 12 2018 05:50 0
                        3.338202
                                    35.9729114 45.73035049
17 12 2018 06:00 12.10254002 3.918678045 112.9152455 50.74898148
17 12 2018 06:10 68.46836853 4.102694988 142.304762 49.68695831
17 12 2018 06:20
                 77.49212646 3.981009007 124.3825819 54.16981125
17 12 2018 06:30 64.76172638 3.888945103 107.6641149 61.17522049
17 12 2018 06:40 91.80673218 4.091563225 140.1887162 61.41878891
                  102.2454987 4.059295177 134.0875605 65.43599701
17 12 2018 06:50
                 96.15363312 4.067300797 135.5967423 68.24318695
17 12 2018 07:00
17 12 2018 07:10
                 138.5603943 4.411983013 203.5982549 69.56056976
                  166.2006989 4.538014889 230.0898146 70.1071167
17 12 2018 07:20
17 12 2018 07:30
                 144.3881989 4.239961147 168.893112 74.45934296
                  74.91885376 3.612720013 65.64110552 75.09651947
17 12 2018 07:40
17 12 2018 07:50
                  27.85564995 3.108067989 20.39247088 82.32274628
17 12 2018 08:00
                  19.82151985 3.031878948 17.10142773 81.80967712
17 12 2018 08:10
                  1.67226398 2.331635952 0
                                                84.88670349
17 12 2018 08:20
                        2.645266056 0
                                          99.96970367
17 12 2018 08:30
                        3.023798943 16.80687734 96.26096344
                  0
17 12 2018 08:40
                        3.070569992 18.65664965 101.7014999
                 0
17 12 2018 08:50
                  0
                        2.112449884 0
                                         92.66394043
17 12 2018 09:00
                 0
                        3.124603033 21.22937033 72.93982697
                    3.266185045 30.18627971 76.4655838
1.821791053 0 0
17 12 2018 09:10 0
17 12 2018 11:00 0
```

```
17 12 2018 11:10
                         2.046595097 0
                                            0
                  0
17 12 2018 11:20
                   0
                         1.637423992 0
                                            300.447113
   12 2018 11:30
                         1.438902974 0
                   0
                                            303.9543152
17
   12 2018 11:40
                  0
                         0.822534204 0
                                            349.3151855
17 12 2018 11:50
                   0
                         0.746913373 0
                                            20.23999977
17 12 2018 12:00
                         0.496041089 0
                                            326.1199951
17 12 2018 12:10
                   0
                         0.804725885 0
                                            186.8957062
                                            251.8871002
17 12 2018 12:20
                   0
                         0.955997407 0
17 12 2018 12:30
                   0
                         1.053388
                                     0
                                            277.1756897
17 12 2018 12:40
                   0
                         0.969371676 0
                                            215.3710022
17 12 2018 12:50
                   0
                         0.531100392 0
                                            171.5489044
17 12 2018 13:00
                         0.750502408 0
                                            177.1683044
17 12 2018 13:10
                         0.733014226 0
                                            192.3766937
17 12 2018 13:20
                         0.63707602
                                            105.0723038
17 12 2018 13:30
                         0.715268373 0
                                            245.9976044
                   0
17 12 2018 13:40
                   0
                         0.82456392
                                            299.5604858
17 12 2018 13:50
                  0
                         1.208343983 0
                                            167.9591064
17 12 2018 14:00
                   0
                         2.105135918 0
                                            238.1217041
17 12 2018 14:10
                   0
                         2.936567068 0
                                            271,2034912
17 12 2018 14:20
                   0
                         2.142539978 0
                                            254.7344055
17 12 2018 14:30
                         1.857300997 0
                                            260.7958984
                   0
17 12 2018 14:40
                         2.163784027 0
                   0
                                            240.8170929
17 12 2018 14:50
                   0
                         2.605860949 0
                                            240.831604
                                            252.7445984
17 12 2018 15:00
                  0
                         1.885422945 0
17 12 2018 15:10
                         2.668292999 0
                                            256.1393127
17 12 2018 15:20
                         2.424259901 0
                                            251.3690948
17 12 2018 15:30
                         2.104902983 0
                                            257.1234131
17 12 2018 15:40
                         1.720374942 0
                                            249.5272064
                   0
17 12 2018 15:50
                   0
                         0.888465524 0
                                            195.2111969
17 12 2018 16:00
                   0
                         0.868456125 0
                                            95.74733734
17 12 2018 16:10
                  0
                         0.704468429 0
                                            78.36501312
17 12 2018 16:20
                   0
                         0.9987638
                                            15.23192024
17 12 2018 16:30
                         1.620246053 0
                                            26.45903015
17 12 2018 16:40
                         0.95096612
                                            51.03631973
                   0
17 12 2018 16:50
                         1.059559941 0
                                            40.84661102
                   0
17 12 2018 17:00
                   0
                         0.885541618 0
                                            139.4349976
17 12 2018 17:10
                   0
                         0.666273117 0
                                            97.76428223
                         0.827649772 0
17 12 2018 17:20
                                            346.4491882
17 12 2018 17:30
                         2.097486973 0
                                            336.3713074
17 12 2018 17:40
                         1.510560036 0
                                            347.7155151
17 12 2018 17:50
                         0.756073296 0
                                            42.17805099
                  0
17 12 2018 18:00
                                            95.17495728
                   0
                         0.663834393 0
17 12 2018 18:10
                         1.184409022 0
                                            182.5074005
                   0
17 12 2018 18:20
                  0
                         1.559203029 0
                                            193.6840057
17 12 2018 18:30
                   0
                         2.039026022 0
                                            167.4111023
17 12 2018 18:40
                   0
                         2.425638914 0
                                            192.8587952
17 12 2018 18:50
                   0
                         2.74290204 0
                                            187.8011017
17 12 2018 19:00
                  0
                         3.5011549
                                     52.12945546 194.0140991
17 12 2018 19:10
                  8.774868965 3.616446972 66.12685263 192.2053986
17 12 2018 19:20
                   0.576533914 2.815365076 0
                                                  203.2187042
17 12 2018 19:30
                                            199.7971039
                   0
                         1.547281027 0
17 12 2018 19:40
                   0
                         2.393966913 0
                                            187.7639008
17 12 2018 19:50
                         2.11142993
                                            193.9311981
17 12 2018 20:00
                         2.012800932 0
                                            191.7628937
                  0
17 12 2018 20:10
                                            208.5270996
                   0
                         1.999184966 0
17 12 2018 20:20
                  0
                         1.512627959 0
                                            214.460495
17 12 2018 20:30
                  0
                         1.501230955 0
                                            207.4907074
17 12 2018 20:40
                  0
                         1.512706995 0
                                            220.1089935
17 12 2018 20:50
                  0
                         1.407994032 0
                                            204.7330933
```

```
17 12 2018 21:00 0
                        1.348150969 0
                                          232.5755005
17 12 2018 21:10
                 0
                        1.202993989 0
                                          201.4432983
17 12 2018 21:20
                        0.813666284 0
                                          222,2592926
                 0
17 12 2018 21:30
                 0
                        0.361772895 0
                                          208.3587036
17 12 2018 21:40
                 0
                        0.523351312 0
                                          209.5729065
17 12 2018 21:50
                        0.318446904 0
                                          210.4376068
17 12 2018 22:00
                 0
                        0.400312692 0
                                          188.0975952
                                          79.58055115
17 12 2018 22:10
                 0
                        0.889280498 0
17 12 2018 22:20
                 0
                        1.675107956 0
                                          62.17034149
17 12 2018 22:30
                 0
                        2.072194099 0
                                          50.54853821
17 12 2018 22:40
                        2.55547595 0
                 0
                                          37.77838135
17 12 2018 22:50
                  0
                        2.065746069 0
                                          42.71202087
17 12 2018 23:00
                        0.885774314 0
                                          85.6618576
17 12 2018 23:10
                        1.01870501 0
                                          170.9463959
17 12 2018 23:20
                        1.21717
                                          123.425499
                 0
                                    0
17 12 2018 23:30
                 0
                        1.411394954 0
                                          136.7355042
17 12 2018 23:40
                 0
                        1.390025973 0
                                          136,6128998
17 12 2018 23:50
                        1.568325043 0
                                          125.4159012
                 0
18 12 2018 00:00
                 0
                        1.111235023 0
                                          144.8016968
18 12 2018 00:10
                 0
                        1.173553944 0
                                          139.370697
18 12 2018 00:20
                        0.664153814 0
                                          115.9749985
                 0
18 12 2018 00:30
                                          85.36270905
                 0
                        0.93169111 0
18 12 2018 00:40
                 0
                        1.679515004 0
                                          57.89582062
                                          58.02957153
18 12 2018 00:50
                 0
                        1.836833954 0
18 12 2018 01:00
                 0
                        2.544859886 0
                                          51.71529007
18 12 2018 01:10
                        3.241379023 28.38523533 49.85680008
18 12 2018 01:20
                        3.950900078 118.7656791 51.16410065
                 0
18 12 2018 01:30
                 23.79706001 3.558820009 58.86462451 51.96924973
18 12 2018 01:40
                 6.939386845 3.133558035 21.70087701 49.13238907
                        2.106729031 0
                                          78.66648102
18 12 2018 01:50
                 0
18 12 2018 02:00
                 0
                        2.072422028 0
                                          71.66871643
18 12 2018 02:10 0
                        2.304008961 0
                                          81.71562958
18 12 2018 02:20
                        2.71715498 0
                                          71.8585968
                 0
18 12 2018 02:30
                        2.256088018 0
                                          72.28803253
                 0
18 12 2018 02:40
                        2.9426229
                                          71.4892807
                 0
                                    0
18 12 2018 02:50
                 0
                        3.696643114 77.11750992 67.95777893
                 64.01165009 3.895329952 108.7798163 55.58108902
18 12 2018 03:00
                 97.59570313 4.222840786 165.5254544 57.96834946
18 12 2018 03:10
18 12 2018 03:20
                 44.99031067 3.820681095 96.14319184 66.77744293
18 12 2018 03:30
                 -0.746329725
                                    3.111504078 20.56278324 86.01584625
18 12 2018 03:40 0
                        3.279999018 31.23192456 96.26654053
18 12 2018 03:50 0
                        3.21031189 26.26846774 78.18763733
18 12 2018 04:00
                        3.532720089 55.7502983 67.97471619
18 12 2018 04:10
                 76.3973465 4.099236965 141.6467983 57.07910919
18 12 2018 04:20
                 201.5599976 4.801372051 288.6607587 55.07522964
                  152.7062988 4.514093876 224.9888713 56.72726059
18 12 2018 04:30
                 248.8488007 4.966374874 327.7817857 56.22898102
18 12 2018 04:40
18 12 2018 04:50
                 235.8292999 4.775438786 282.6882612 56.97761154
18 12 2018 05:00 207.8383942 4.683823109 261.9557104 64.2038269
18 12 2018 05:10
                 241.7841949 4.87202692 305.172028 59.70275116
18 12 2018 05:20
                 349.7950134 5.283899784 408.9292251 55.56444931
18 12 2018 05:30
                 458.815094 5.724588871 535.987615 59.8147583
18 12 2018 05:40
                 455.7370911 5.658163071 515.6701708 54.66904831
18 12 2018 05:50 482.1289063 5.731780052 538.2132461 52.36433029
18 12 2018 06:00
                 530.3665161 5.951872826 608.8742208 56.58583069
18 12 2018 06:10
                 676.4498901 6.296717167 728.7433593 55.11796951
18 12 2018 06:20 827.9755859 6.754741192 909.3010964 58.95362091
18 12 2018 06:30 1238.68103 7.638222218 1330.132
                                                      59.66790009
18 12 2018 06:40 1427.255005 8.16431427 1625.449591 58.50074005
```

```
18 12 2018 06:50 1721.011963 8.567697525 1869.901691 57.17625046
                 1925.628052 8.957375526 2116.549695 55.82313919
18 12 2018 07:00
18 12 2018 07:10
                 1420.785034 7.928180218 1489.140543 56.18252182
18 12 2018 07:20 1633.708008 8.389222145 1760.137532 56.32229996
18 12 2018 07:30 1411.171021 7.833080769 1435.907143 56.28543091
18 12 2018 07:40 850.9746704 6.607626915 848.7377632 59.01449966
18 12 2018 07:50
                 937.4589233 6.82446003 938.8861519 55.89176941
                 1005.36499 6.934920788 986.9594967 52.00970078
18 12 2018 08:00
18 12 2018 08:10 405.8888855 5.337560177 423.462152 51.51462173
18 12 2018 08:20
                 485.9205017 5.564449787 487.732535
                                                     47.82242966
18 12 2018 08:30
                 1113.024048 7.320581913 1167.09196 56.65679932
18 12 2018 08:40
                 1283.89502 7.591316223 1305.373081 56.52519989
18 12 2018 08:50
                 1177.748047 7.418776989 1216.243441 53.96162033
18 12 2018 09:00
                 1062.509033 7.212340832 1114.514307 53.19073868
18 12 2018 09:10
                 1185.42395 7.464691162 1239.717205 50.56283951
18 12 2018 09:20
                 1197.000977 7.497426987 1256.649621 53.43254852
18 12 2018 09:30
                 1217.297974 7.510826111 1263.55807 51.12575912
18 12 2018 09:40
                 1473.047974 7.979817867 1518.460464 52.70534134
18 12 2018 09:50
                 1090.115967 7.198460102 1107.889761 51.74681091
                 1040.758057 7.157478809 1088.484648 52.4160614
18 12 2018 10:00
                 1201.128052 7.348936081 1181.139927 53.27859116
18 12 2018 10:10
18 12 2018 10:20
                 1400.953003 7.772986889 1402.799952 50.65407181
18 12 2018 10:30
                 1730.107056 8.299087524 1705.638458 46.71854019
18 12 2018 10:40
                 2015.702026 8.880232811 2067.086794 49.66781998
18 12 2018 10:50
                 1446.217041 7.704448223 1365.563611 46.71704865
18 12 2018 11:00 1621.067993 7.907935143 1477.723896 40.8787384
18 12 2018 11:10
                 1217.338013 7.23998785 1127.787819 41.91830063
18 12 2018 11:20 899.8256836 6.548874855 825.2418555 42.45824051
18 12 2018 11:30 1504.64502 7.745162964 1387.615202 40.63800812
                 2275.38208 9.235509872 2296.785153 41.96408844
18 12 2018 11:40
18 12 2018 11:50
                 1817.985962 8.226261139 1662.106011 39.88467026
18 12 2018 12:00
                 1670.488037 7.929092884 1489.656268 47.00603104
18 12 2018 12:10
                 1317.715942 7.139297009 1079.947925 36.95672989
18 12 2018 12:20
                 1361.519043 7.220279217 1118.314776 38.06579971
18 12 2018 12:30 919.9321289 6.499684811 805.8676155 41.53495026
                 1600.94397 7.761168003 1396.338571 39.76850891
18 12 2018 12:40
                 1714.531006 8.368168831 1747.348599 44.92361069
18 12 2018 12:50
                 1707.504028 8.103443146 1589.779095 41.6208992
18 12 2018 13:00
18 12 2018 13:10 1183.463013 6.920915127 980.7813167 39.33132172
18 12 2018 13:20
                 1361.652954 7.213531017 1115.083551 35.16400146
18 12 2018 13:30
                 1757.869995 8.020734787 1541.892949 31.80187988
18 12 2018 13:40 1275.561035 7.19258213 1105.092459 31.97423935
18 12 2018 13:50 920.5338745 6.393525124 764.9674403 34.73572159
18 12 2018 14:00 888.9365845 6.401478767 767.9888766 34.18616104
18 12 2018 14:10
                 740.1685791 6.218254089 700.1264358 38.55138016
18 12 2018 14:20
                 1011.320984 6.719725132 894.658553 33.6493187
                 1296.255981 7.203188896 1110.143603 34.23978043
18 12 2018 14:30
                 1954.131958 8.508213997 1833.061273 32.5120697
18 12 2018 14:40
18 12 2018 14:50 1633.811035 7.83073616 1434.607586 35.16641998
18 12 2018 15:00
                 1394.796021 7.568214893 1293.284084 39.63006973
18 12 2018 15:10
                 1468.909058 7.687157154 1356.259951 36.23896027
18 12 2018 15:20
                 1351.177002 7.403490067 1208.498263 45.17554092
18 12 2018 15:30
                 1702.151001 7.968243122 1511.863584 44.42313004
18 12 2018 15:40
                 1836.978027 8.135321617 1608.415801 43.7134285
18 12 2018 15:50
                 2363.886963 9.104067802 2211.28403 42.84062958
18 12 2018 16:00 2480.906982 9.190041542 2267.152573 44.00838852
18 12 2018 16:10 2141.094971 8.238548279 1669.41811 37.18851089
18 12 2018 16:20 3028.920898 10.52418995 3077.243688 34.97193909
18 12 2018 16:30 3414.606934 11.42467976 3402.645595 33.71652985
```

```
18 12 2018 16:40 3508.420898 12.50994015 3579.867496 32.51037979
18 12 2018 16:50 3153.870117 11.03814983 3285.74584 34.11600876
18 12 2018 17:00 3224.149902 11.40149021 3396.513993 33.98440933
18 12 2018 17:10 2885.436035 10.22811985 2925.976112 36.71395111
18 12 2018 17:20 2696.61792 9.936882973 2752.229011 32.63360977
18 12 2018 17:30 3124.730957 10.98575974 3267.391013 32.10541916
18 12 2018 17:40 2600.697021 9.780656815 2648.002961 37.78047943
18 12 2018 17:50 3307.581055 10.82936001 3208.807454 34.08063889
18 12 2018 18:00 3283.569092 11.53631973 3430.66624 31.17112923
                 3481.391113 12.3044796 3561.554739 34.17958832
18 12 2018 18:10
18 12 2018 18:20 3536.275879 12.24481964 3554.990613 34.27053833
18 12 2018 18:30 3486.287109 12.45094013 3575.280047 31.64798927
18 12 2018 18:40 3407.790039 11.68904972 3465.091101 32.34783173
18 12 2018 18:50 3526.016113 12.4602499 3576.039469 32.18906021
18 12 2018 19:00 3550.968994 13.1096096 3600 34.74158096
18 12 2018 19:10 3570.11792 12.89651966 3597.030118 32.68111038
18 12 2018 19:20 3439.958984 11.77982998 3483.483665 33.80311966
18 12 2018 19:30 3588.907959 13.49831009 3600 32.51533127
18 12 2018 19:40 3569.186035 13.36713982 3600 33.90446091
18 12 2018 19:50 3594.075928 12.9829998 3597.893392 32.40919113
18 12 2018 20:00 3568.065918 13.20503998 3600 30.66054916
18 12 2018 20:10 3593.189941 13.75794983 3600 29.49427986
18 12 2018 20:20
                 3577.181885 12.99246979 3597.923293 33.45756149
18 12 2018 20:30 3577.198975 13.60902977 3600 33.3586998
18 12 2018 20:40 3601.394043 15.08813953 3600 35.19889069
18 12 2018 20:50 3584.365967 14.02285004 3600 34.56309891
18 12 2018 21:00 3436.555908 11.51282978 3424.97435 26.49704933
18 12 2018 21:10 3585.909912 13.14608002 3600 24.87011909
18 12 2018 21:20 3601.091064 13.68181992 3600 24.14306068
18 12 2018 21:30 3601.196045 14.16563988 3600 24.4246006
18 12 2018 21:40 3601.583008 15.36448956 3600 26.11510086
18 12 2018 21:50 3597.981934 14.49668026 3600 24.84202003
18 12 2018 22:00 3601.173096 15.48198032 3600 26.48513031
18 12 2018 22:10 3595.436035 15.77620983 3600 25.19655991
18 12 2018 22:20 3601.058105 15.40849972 3600 24.64080048
                 3601.019043 15.30373001 3600
18 12 2018 22:30
                                              26.35907936
18 12 2018 22:40
                 3595.470947 15.17115021 3600 25.30397034
18 12 2018 22:50 3601.212891 14.58238029 3600 25.76366043
18 12 2018 23:00 3601.241943 14.59566975 3600 25.93206978
18 12 2018 23:10 3601.309082 15.61544037 3600 28.24714088
18 12 2018 23:20 3535.365967 12.80720997 3595.013127 30.09231949
18 12 2018 23:30 3481.404053 13.16160965 3600 24.17803955
18 12 2018 23:40 3541.668945 14.14305019 3600 26.33605957
18 12 2018 23:50 3592.522949 14.27340984 3600 19.2052803
19 12 2018 00:00 3595.039063 12.7020998 3591.155133 20.5044899
19 12 2018 00:10 3589.75293 13.47632027 3600 20.67086983
19 12 2018 00:20 3601.253906 14.96615982 3600 16.58075905
19 12 2018 00:30 3601.215088 14.62625027 3600 18.35276985
19 12 2018 00:40 3601.468018 14.20108032 3600 17.67469978
19 12 2018 00:50
                 3600.479004 14.2934103 3600 23.54174995
19 12 2018 01:00
                 3600.634033 14.67724037 3600 23.8934803
19 12 2018 01:10 3601.371094 14.24913979 3600 18.08606911
19 12 2018 01:20 3600.470947 14.95135021 3600 21.68181038
19 12 2018 01:30 3597.168945 14.37117004 3600 21.22471046
19 12 2018 01:40 3601.156006 15.37847042 3600 19.08576965
19 12 2018 01:50 3601.454102 14.25765038 3600 15.20582962
19 12 2018 02:00 3601.374023 15.15888977 3600 15.04786968
19 12 2018 02:10 3598.331055 14.03252029 3600 17.81735992
19 12 2018 02:20 3363.102051 12.75823975 3593.416744 18.70665932
```

```
19 12 2018 02:30 3535.581055 12.65137959 3588.71224 18.88739967
19 12 2018 02:40
                 3553.547119 12.4489603 3575.116823 11.86513996
19 12 2018 02:50
                 3592.398926 13.3475399 3600 12.65645981
19 12 2018 03:00
                 3600.461914 13.53637028 3600 12.80163956
19 12 2018 03:10
                 3598.333008 13.77068996 3600 11.60447979
19 12 2018 03:20
                 3601.12207 14.29084015 3600 11.49575043
19 12 2018 03:30
                 3572.761963 13.82481956 3600 11.46263981
19 12 2018 03:40
                 3512.939941 13.8335104 3600
                                               11.36775017
19 12 2018 03:50
                 3508.812012 13.08335972 3600
                                               10.73602962
19 12 2018 04:00
                 3432.23999 13.57221031 3600
                                               9.842006683
19 12 2018 04:10
                 2815.368896 13.11005974 3600 8.434421539
19 12 2018 04:20 2438.981934 13.23036957 3600 6.513539791
19 12 2018 04:30 2378.393066 13.94853973 3600
                                               6.537485123
19 12 2018 04:40
                 2389.731934 13.74403954 3600
                                              7.170814037
19 12 2018 04:50
                 2367.187988 13.25889015 3600 6.780131817
19 12 2018 05:00
                 2413.282959 13.53234959 3600
                                              6.138453007
19 12 2018 05:10
                 2367.726074 13.08012009 3600 6.550032139
19 12 2018 05:20 2374.470947 13.38623047 3600 7.904537201
19 12 2018 05:30 2252.870117 11.85916042 3498.330642 12.13074017
                 2088.099121 9.972880363 2775.124159 6.443411827
19 12 2018 05:40
19 12 2018 05:50
                 2051.447021 10.3080101 2969.214444 2.692115068
                             10.84626007 3215.416885 7.052978992
19 12 2018 06:00
                 2162.75
19 12 2018 06:10
                 2186.798096 11.66668034 3460.324941 9.291248322
19 12 2018 06:20
                 2256.599121 12.22605038 3552.807083 9.798894882
19 12 2018 06:30 2210.929932 12.55690956 3583.139359 8.736319542
19 12 2018 06:40 2245.498047 13.55700016 3600 8.122367859
19 12 2018 06:50 2239.24707 13.04706001 3600 8.812408447
19 12 2018 07:00 2184.883057 11.69958973 3467.304513 7.484975815
19 12 2018 07:10 2263.091064 12.30350971 3561.45258 7.697247982
19 12 2018 07:20 2113.26709 10.42613983 3029.83594 7.390727997
19 12 2018 07:30 2259.754883 12.5420599 3582.141158 8.562573433
19 12 2018 07:40 2287.673096 12.66767979 3589.538897 8.504863739
19 12 2018 07:50 2285.590088 11.58911037 3443.067806 8.37400341
19 12 2018 08:00 2092.712891 10.47630024 3054.412626 4.481918812
19 12 2018 08:10 1933.17395 9.943802834 2756.662225 356.3157043
19 12 2018 08:20
                 1976.269043 10.61499023 3118.867785 356.1221924
                 1972.240967 10.87843037 3227.809372 356.9403076
19 12 2018 08:30
                 1891.553955 10.75627995 3179.429325 356.6164856
19 12 2018 08:40
19 12 2018 08:50 1822.897949 10.60286999 3113.436047 356.7401123
19 12 2018 09:00
                 1818.692017 11.23355007 3348.816062 356.8525085
19 12 2018 09:10
                 1774.260986 11.32011986 3374.133514 357.3208008
19 12 2018 09:20 1718.573975 10.83862019 3212.437513 357.4880981
19 12 2018 09:30
                 1668.535034 11.20018959 3338.636577 357.9588928
19 12 2018 09:40
                 1573.842041 11.61894035 3449.839052 357.2749023
19 12 2018 09:50
                 1055.077026 10.61203957 3117.548926 356.696106
19 12 2018 10:00
                 1063.838989 11.24022007 3350.82285 356.9670105
                 775.7664795 10.30224037 2966.153103 356.5245972
19 12 2018 10:10
                 766.8565063 9.689322472 2583.297964 357.1585083
19 12 2018 10:20
19 12 2018 10:30
                 834.3707275 10.32166004 2976.419261 357.7134094
19 12 2018 10:40
                 699.7282104 9.89971447 2728.15414 357.1940002
19 12 2018 10:50
                 526.7487793 8.586957932 1881.882361 357.1164856
19 12 2018 11:00
                 710.2850952 9.513609886 2450.637528 357.1559143
19 12 2018 11:10
                 728.27948
                             9.786052704 2651.737201 357.8103943
19 12 2018 11:20
                 641.3084717 9.090616226 2202.564019 357.0335083
19 12 2018 11:30
                 590.6848755 8.64444828 1917.788212 359.6007996
19 12 2018 11:40
                 644.8676147 8.961654663 2119.301137 2.847718
19 12 2018 11:50 659.9135742 8.850151062 2047.874025 2.153738976
19 12 2018 12:00 717.6906738 9.12107563 2222.318006 1.338577032
19 12 2018 12:10 687.4796753 8.594601631 1886.643875 1.082108021
```

```
19 12 2018 12:20 674.7078247 8.667884827 1932.485813 0.953871012
19 12 2018 12:30
                 549.2816162 7.97357893 1514.902902 6.954805851
19 12 2018 12:40
                  554.3927002 8.325040817 1721.262266 6.235890865
19 12 2018 12:50
                 470.5835876 8.277963638 1692.964083 5.946426868
19 12 2018 13:00
                 473.2752075 8.621192932 1903.238314 6.654747963
19 12 2018 13:10
                 449.6733093 8.128170013 1604.226347 7.428864956
19 12 2018 13:20
                  504.4682007 8.196746826 1644.597442 6.766009808
                  481.7464905 8.693636894 1948.674298 6.445125103
19 12 2018 13:30
19 12 2018 13:40
                  616.2313232 9.393697739 2400.242048 7.247107983
                  517.1724243 8.936868668 2103.374942 7.631291866
19 12 2018 13:50
19 12 2018 14:00
                  462.6626892 8.745928764 1981.666939 8.102679253
19 12 2018 14:10
                  439.5075989 8.487925529 1820.553015 4.198726177
19 12 2018 14:20
                  447.2868042 8.39840126 1765.724437 2.2039361
19 12 2018 14:30
                 406.9003906 8.111741066 1594.62076 2.780189037
                 416.1223145 8.721266747 1966.087142 4.030882835
19 12 2018 14:40
19 12 2018 14:50
                 415.0270996 8.768603325 1996.021412 9.248680115
19 12 2018 15:00
                 382.5299988 8.437883377 1789.830178 11.43756962
                  391.5549927 8.73073101 1972.061917 11.46216965
19 12 2018 15:10
19 12 2018 15:20
                  368.6104126 8.81867981 2027.821865 10.54769039
                  348.7001038 8.595872879 1887.436152 11.26720047
19 12 2018 15:30
19 12 2018 15:40
                  363.8158875 9.062918663 2184.628682 11.31233978
                  313.1842957 8.264645576 1684.992953 12.54028988
19 12 2018 15:50
                  310.7307129 8.647525787 1919.716239 11.95051956
19 12 2018 16:00
19 12 2018 16:10
                  321.7597046 8.552165985 1860.258773 14.99503994
19 12 2018 16:20
                  341.1008911 9.085305214 2199.12284 13.43463039
19 12 2018 16:30
                  354.7308044 9.530294418 2463.708633 13.3814497
19 12 2018 16:40
                 362.8092041 9.916348457 2738.98329 13.81774044
19 12 2018 16:50
                 305.0994873 9.381174088 2392.034593 11.91215038
                 265.0740051 8.980946541 2131.715198 14.43953991
19 12 2018 17:00
                  199.5567017 8.394906044 1763.596277 14.31346989
19 12 2018 17:10
19 12 2018 17:20
                 232.256897 9.014960289 2153.639668 14.6125803
19 12 2018 17:30
                  139.3309937 8.344890594 1733.249655 13.7420702
19 12 2018 17:40
                  151.7328033 8.773299217 1998.997765 14.13518047
19 12 2018 17:50
                  108.1880035 8.763858795 1993.01546 13.75693035
                  64.35534668 8.451674461 1798.278413 13.25329018
19 12 2018 18:00
                  6.69667387 7.60010004 1309.98795 14.80278969
19 12 2018 18:10
19 12 2018 18:20
                  0
                        8.175992012 1632.332796 16.8692894
19 12 2018 18:30
                  0
                        7.709187984 1368.120326 20.93293953
19 12 2018 18:40
                        7.135426044 1078.136142 24.76519966
19 12 2018 18:50
                        6.955739021 996.1879098 19.85886002
19 12 2018 19:00
                  0
                        7.071433067 1048.472092 18.74015045
19 12 2018 19:10
                        6.710925102 891.0011986 21.64686012
                  0
19 12 2018 19:20
                        6.385972023 762.1045545 22.87373924
                  0
19 12 2018 19:30
                  0
                        6.42075491 775.3402033 21.06245041
19 12 2018 19:40
                  0
                        6.240404129 708.1379029 18.38546944
19 12 2018 19:50
                        6.617656231 852.7876383 20.94202995
19 12 2018 20:00
                  0
                        6.495361805 804.1778089 26.60786057
19 12 2018 20:10
                        6.150668144 676.0062592 21.10004044
                  0
                        6.086396217 653.5220458 23.07324028
19 12 2018 20:20
                  0
19 12 2018 20:30
                  0
                        6.456344128 789.0198964 23.58801079
19 12 2018 20:40
                        5.942127228 605.6387788 25.96405983
19 12 2018 20:50
                        5.922904015 599.2863904 27.87818909
19 12 2018 21:00
                        6.026368141 632.9210903 28.76980972
19 12 2018 21:10
                        6.383780956 761.2752289 26.3375206
                  0
19 12 2018 21:20
                        6.309909821 733.6200926 26.53196907
                  0
19 12 2018 21:30
                  0
                        6.093530178 655.9959368 28.02725983
19 12 2018 21:40
                  0
                        6.224762917 702.4751554 24.45063019
19 12 2018 21:50
                  0
                       6.625682831 856.0370462 25.69721031
                       6.615846157 852.0558788 26.93465996
19 12 2018 22:00 0
```

```
5.890690804 588.7287231 21.73763084
19 12 2018 22:10
                  0
                        6.200259209 693.6566024 22.29047012
19 12 2018 22:20
                  0
19 12 2018 22:30
                  0
                        5.864668846 580.2794315 20.50011063
19 12 2018 22:40
                  0
                        5.984662056 619.8343335 24.22641945
                  0
19 12 2018 22:50
                        5.342625141 424.8467366 31.65525055
19 12 2018 23:00
                        5.791930199 557.0318853 34.47948837
19 12 2018 23:10
                  0
                        5.487989902 465.5516078 32.18880844
19 12 2018 23:20
                  0
                        4.645968914 253.5521899 32.27328873
19 12 2018 23:30
                  0
                        6.215141773 699.0049582 26.29099083
19 12 2018 23:40
                  0
                        6.064758778 646.0519417 35.58282852
19 12 2018 23:50
                        6.070556164 648.0485243 42.11169815
                  0
20 12 2018 00:00
                        6.145957947 674.3434998 38.76052856
20 12 2018 00:10
                        5.957706928 610.8159217 36.13694
20 12 2018 00:20
                        6.374138832 757.6318708 38.02246857
20 12 2018 00:30
                        5.895247936 590.215683 40.17282104
                  0
20 12 2018 00:40
                  0
                        5.753960133 545.1102954 40.73583984
20 12 2018 00:50
                  0
                        5.436157227 450.8204982 43.76234055
20 12 2018 01:00
                  0
                        5.702880859 529.3001688 42.40036011
                  0
20 12 2018 01:10
                        6.576070786 836.0695922 41.87617111
20 12 2018 01:20
                  0
                        6.156206131 677.9642734 41.03250122
                                     771.676643 37.68407822
20 12 2018 01:30
                        6.4111619
                  0
                        6.137235165 671.2705117 41.38806152
20 12 2018 01:40
                  0
20 12 2018 01:50
                  0
                        6.799586773 928.2649048 42.68000031
20 12 2018 02:00
                  0
                        6.211056232 697.5343704 45.05184174
20 12 2018 02:10
                        6.183278084 687.583077 51.17446899
20 12 2018 02:20
                        6.145505905 674.1840482 51.7134285
20 12 2018 02:30
                        6.464200974 792.0586674 55.59576035
20 12 2018 02:40
                        6.561823845 830.3869794 57.34740829
                  0
20 12 2018 02:50
                  0
                        5.714060783 532.7384782 50.30582047
20 12 2018 03:00
                  0
                        5.702077866 529.0536879 54.8059082
20 12 2018 03:10
                  0
                        6.459900856 790.3946796 56.27352142
                  0
                        6.867072105 957.255015 55.53673935
20 12 2018 03:20
20 12 2018 03:30
                        6.964254856 999.9784569 57.94223022
                  0
20 12 2018 03:40
                        6.934590816 986.8136598 62.15076065
                  0
20 12 2018 03:50
                        6.750163078 907.3785144 66.51496124
                  0
20 12 2018 04:00
                  0
                        6.745994091 905.6298879 67.36595917
20 12 2018 04:10
                  0
                        6.987650871 1010.439347 65.84121704
20 12 2018 04:20
                  0
                        6.679303169 877.9330771 66.8923111
20 12 2018 04:30
                        6.489889145 802.0415901 64.8131485
20 12 2018 04:40
                        6.36674118 754.8434678 60.22235107
20 12 2018 04:50
                        6.708819866 890.1275833 59.53744125
                  0
                        6.264441013 716.8914607 56.96738052
20 12 2018 05:00
                  0
20 12 2018 05:10
                        6.415155888 773.2007186 58.79175949
                  0
20 12 2018 05:20
                  0
                        5.525883198 476.4765731 51.06895065
                  0
                        5.217743874 391.3488124 52.17673874
20 12 2018 05:30
20 12 2018 05:40
                        5.359562874 429.4931506 57.26173019
20 12 2018 05:50
                  0
                        5.401734829 441.1713032 52.62709045
20 12 2018 06:00
                        6.208674908 696.6780397 57.71572876
                  0
20 12 2018 06:10
                  0
                        6.019246101 630.5024438 60.97436142
20 12 2018 06:20
                  0
                        5.147299767 373.0278202 67.19351959
20 12 2018 06:30
                  0
                        5.950856209 608.5362422 64.47992706
20 12 2018 06:40
                        6.154741764 677.4462119 60.60462189
20 12 2018 06:50
                        6.33941412 744.5946183 58.0428009
20 12 2018 07:00
                        5.65855217 515.7879271 65.44490814
                  0
20 12 2018 07:10
                        5.314188004 417.1017967 68.49011993
                  0
20 12 2018 07:20
                  0
                        6.082304001 652.1054147 73.14981842
20 12 2018 07:30
                  0
                        5.816112995 564.700691 77.77854156
                  0
                        4.862187862 302.8514915 82.76866913
20 12 2018 07:40
                        4.840940952 297.8640214 81.81237793
20 12 2018 07:50
```

```
4.171136856 155.4453608 74.41751099
20 12 2018 08:00
                  0
20 12 2018 08:10
                  0
                        4.340857983 189.0530126 88.52263641
20 12 2018 08:20
                  0
                        4.003999233 123.7428738 83.1794281
20 12 2018 08:30
                  0
                        3.414139986 42.9734338 91.16887665
20 12 2018 08:40
                  0
                        3.217091084 26.71719776 84.1456604
20 12 2018 08:50
                        3.305486917 33.2413619 59.78057098
20 12 2018 09:00
                  0
                        2.767154932 0
                                           59.15256882
                        2.713726044 0
                                           78.44656372
20 12 2018 09:10
                  0
20 12 2018 09:20
                  0
                        3.644398928 69.84076393 85.28819275
20 12 2018 09:30
                  0
                        2.940530062 0
                                           81,61688232
20 12 2018 09:40
                        3.323864937 34.75475776 92.65740967
                  0
20 12 2018 09:50
                        2.403889894 0
                                           102.8608017
20 12 2018 10:00
                        2.779833078 0
                                           94.08882141
20 12 2018 10:10
                        2.785156012 0
                                           92.36282349
20 12 2018 10:20
                        2.37144804 0
                                           85.21970367
                  0
20 12 2018 10:30
                  0
                        3.502135992 52.23959611 91.02131653
20 12 2018 10:40
                  0
                        3.218482018 26.81017592 96.26006317
20 12 2018 10:50
                  0
                        3.953784943 119.2975755 93.19238281
                  0
20 12 2018 11:00
                        4.302050114 181.2345701 92.91732025
20 12 2018 11:10
                  0
                        4.79004097 286.0454528 105.8044968
                        4.991250992 333.8531644 98.13126373
20 12 2018 11:20
                  0
                        4.196390152 160.3518938 94.11431885
20 12 2018 11:30
                  0
20 12 2018 11:40
                  0
                        4.508480072 223.7968053 97.61347198
20 12 2018 11:50
                  0
                        3.611001015 65.41781167 95.49501038
20 12 2018 12:00
                        4.410793781 203.3527081 87.44802094
20 12 2018 12:10
                        4.069888115 136.0851231 82.801651
20 12 2018 12:20
                        4.915863037 315.5957736 78.2662735
20 12 2018 12:30
                        5.160235882 376.3618705 92.80435181
                  0
                        4.531827927 228.7671592 91.5528717
20 12 2018 12:40
                  0
20 12 2018 12:50
                  0
                        5.245038986 398.5577417 89.70437622
                        5.033812046 344.3497479 89.82633972
20 12 2018 13:00
                  0
                  0
                        5.65711689 515.3536293 87.16564178
20 12 2018 13:10
20 12 2018 13:20
                        5.392683029 438.6514637 88.04927063
20 12 2018 13:30
                  0
                        4.985547066 332.4569157 87.22387695
20 12 2018 13:40
                        5.185864925 383.0074546 87.96205902
                  0
20 12 2018 13:50
                  0
                        4.642048836 252.6872689 100.020401
                        4.196843147 160.4401988 98.50389099
20 12 2018 14:00
                  0
                        4.693172932 264.0458155 102.7434998
20 12 2018 14:10
20 12 2018 14:20
                        5.69034481 525.4594318 109.7182007
20 12 2018 14:30
                        6.119083881 664.9019868 109.3389969
20 12 2018 14:40
                        5.408146858 442.9606875 106.1548996
                        5.566180229 488.240844 108.8473969
20 12 2018 14:50
                  0
20 12 2018 15:00
                        6.031589031 634.6975507 110.5868988
                  0
20 12 2018 15:10
                  0
                        6.602027893 846.4818219 110.5493011
                  0
                        6.51533699 812.0032121 114.1036987
20 12 2018 15:20
20 12 2018 15:30
                        5.934265137 603.0359911 112.5208969
20 12 2018 15:40
                  0
                        5.800045013 559.5986114 108.8393021
20 12 2018 15:50
                        6.069625854 647.7278899 110.0531998
                  0
20 12 2018 16:00
                  0
                        6.138586044 671.7458868 110.9404984
20 12 2018 16:10
                  0
                        6.903822899 973.2744472 115.2230988
20 12 2018 16:20
                        7.287200928 1150.701316 117.2304001
20 12 2018 16:30
                        8.153628349 1619.162162 119.5960999
20 12 2018 16:40
                        9.047384262 2174.581497 121.6591034
20 12 2018 16:50
                        7.332532883 1172.998872 130.4169006
20 12 2018 17:00
                        4.902337074 312.3645467 135.0744934
                  0
20 12 2018 17:10
                  0
                        3.129993916 21.51167874 139.8018036
20 12 2018 17:20
                  0
                        1.503785014 0
                                           170.3717041
20 12 2018 17:30
                  0
                        1.750367045 0
                                           245.7142944
                        3.008066893 16.26334654 277.697113
20 12 2018 17:40
```

```
20 12 2018 17:50
                        4.107541084 143.2277883 294.6033936
                  0
20 12 2018 18:00
                  0
                        2.830993891 0
                                           276.940094
20 12 2018 18:10
                  0
                        2.300146103 0
                                           230.6343994
20 12 2018 18:20
                  0
                        2.171142101 0
                                           254.8553009
20 12 2018 18:30
                  0
                        3.609112978 65.17310489 281.2619934
20 12 2018 18:40
                        4.30752182 182.331992 280.5412903
                        4.505692005 223.2054781 286.517395
20 12 2018 18:50
                  0
20 12 2018 19:00
                  0
                        4.195010185 160.0829526 279.968689
20 12 2018 19:10
                  0
                        3.017471075 16.58349348 271.4327087
20 12 2018 19:20
                        3.093290091 19.68152618 259.1242981
                  0
20 12 2018 19:30
                        3.567260027 59.89503591 238.621994
                  0
20 12 2018 19:40
                        2.705876112 0
                                           232.5876007
20 12 2018 19:50
                        2.004884005 0
                                           232.5621948
20 12 2018 20:00
                  0
                        1.783648968 0
                                           251.7241974
20 12 2018 20:10
                        1.844094992 0
                                           238.6170959
                  0
20 12 2018 20:20
                  0
                        1.599838972 0
                                           232.0903931
20 12 2018 20:30
                  0
                        1.518491983 0
                                           219.0307007
20 12 2018 20:40
                  0
                                           228.621994
                        2.206374884 0
20 12 2018 20:50
                  0
                        2.094377041 0
                                           228.0971985
20 12 2018 21:00
                  0
                        1.93849194 0
                                           246.6746063
20 12 2018 21:10
                        2.048250914 0
                                           237.2720947
                  0
20 12 2018 21:20
                        2.489629984 0
                  0
                                           234.7431946
20 12 2018 21:30
                  0
                        3.246571064 28.75405722 254.7308044
20 12 2018 21:40
                  0
                        3.529007912 55.31620282 256.2608948
20 12 2018 21:50
                        3.76384902 87.12039467 244.0979004
20 12 2018 22:00
                        3.308584929 33.49269036 245.155304
20 12 2018 22:10
                        3.134361982 21.74383482 257.7421875
20 12 2018 22:20
                        3.36094594 37.97282781 259.4378967
                  0
20 12 2018 22:30
                  0
                        3.631002903 68.04526598 258.4295959
20 12 2018 22:40
                        3.916433096 112.5138286 268.9650879
                  0
20 12 2018 22:50
                  0
                        2.923243999 0
                                           258.0755005
20 12 2018 23:00
                  0
                        2.34510994 0
                                           269.1004944
20 12 2018 23:10
                        2.752136946 0
                                           249.3441925
                  0
20 12 2018 23:20
                        3.497682095 51.74082441 238.1251068
                  0
20 12 2018 23:30
                        2.855288982 0
                                           245.6952972
                  0
20 12 2018 23:40
                  0
                        4.444553852 210.3549449 229.4947052
20 12 2018 23:50
                  0
                        3.572742939 60.57053198 249.8426056
21 12 2018 00:00
                  0
                        2.771100044 0
                                           241.8659058
21 12 2018 00:10
                        2.170464039 0
                                           235.4002075
21 12 2018 00:20
                        2.774902105 0
                                           226,7485046
21 12 2018 00:30
                        3.722434044 80.87076523 225.1459961
                  0
21 12 2018 00:40
                        4.38761282 198.5824927 239.4385986
                  0
21 12 2018 00:50
                        4.349330902 190.7709461 244.960907
                  0
21 12 2018 01:00
                  0
                        2.877331972 0
                                           247.4913025
                  0
                        3.120475054 21.01634081 250.1405029
21 12 2018 01:10
21 12 2018 01:20
                        4.242124081 169.3196458 236.9803009
21 12 2018 01:30
                  0
                        4.361581802 193.2618968 236.9927979
21 12 2018 01:40
                        4.040604115 130.5754319 241.4882965
                  0
                        3.742553949 83.8726358 256.2322998
21 12 2018 01:50
                  0
21 12 2018 02:00
                  0
                        3.480531931 49.84989672 255.2138062
21 12 2018 02:10
                  0
                        3.01057291 16.34727604 263.8640137
21 12 2018 02:20
                        3.352730036 37.2408394 258.8122864
21 12 2018 02:30
                        3.819739103 95.98942711 236.8227997
21 12 2018 02:40
                        3.516503096 53.87013488 227.0003967
                  0
21 12 2018 02:50
                        4.196277142 160.3298657 223.3858948
                  0
21 12 2018 03:00
                  0
                        3.885327101 107.0347933 237.4532928
21 12 2018 03:10
                  0
                        3.300862074 32.86902537 232.6338043
21 12 2018 03:20
                  0
                        3.368055105 38.6149282 237.5307007
                  0
                        4.189589024 159.0273499 234.8867035
21 12 2018 03:30
```

```
3.460303068 47.68001135 232.2234039
21 12 2018 03:40 0
21 12 2018 03:50
                       3.053750038 17.95112655 237.1199036
                 0
21 12 2018 04:00
                 0
                       3,649192095 70,49017711 227,2819977
21 12 2018 04:10 0
                       3.484430075 50.27556217 228.8632965
21 12 2018 04:20 0
                       4.072227955 136.5270565 219.0583038
21 12 2018 04:30
                       3.545896053 57.30887379 213.9170074
                 0
                       4.693891048 264.2065857 201.8921967
21 12 2018 04:40
                 0
21 12 2018 04:50
                       6.50988102 809.8613995 192.2566986
                 0
21 12 2018 05:00 425.0555115 7.435625076 1224.820107 189.8643951
21 12 2018 05:10
                 1384.037964 7.045410156 1036.562422 174.455307
21 12 2018 05:20
                 743.173584 5.511200905 472.2278185 161.4801025
                 137.6822968 3.560334921 59.04873535 164.1819
21 12 2018 05:30
21 12 2018 05:40
                 20.3051796 2.648756027 0
                                               175.433197
21 12 2018 05:50
                4.730607986 2.15774703 0
                                               172.0744019
21 12 2018 06:00 0
                       1.547235012 0
                                         173.1121979
21 12 2018 06:10
                 0
                       1.899492025 0
                                         166.9042969
21 12 2018 06:20 0
                       2.1530509 0
                                         184.7436066
21 12 2018 06:30 0
                       2.497378111 0
                                         156.6977997
21 12 2018 06:40 0
                       2.103939056 0
                                        142.7397003
21 12 2018 06:50 0
                       1.351915002 0
                                         147.3742981
21 12 2018 07:00 0
                       1.773216009 0
                                         156.7281036
21 12 2018 07:10 0
                       1.403982997 0
                                         176.4165955
21 12 2018 07:20
                 0
                       2.64031291 0
                                         217.7810974
21 12 2018 07:30 0
                       3.618268013 66.36500329 227.2828064
21 12 2018 07:40 0
                       3.199863911 25.59129176 209.8229065
21 12 2018 07:50 0
                       2.878115892 0
                                         210.6492004
21 12 2018 08:00 0
                       3.68504405 75.46423767 211.4958954
21 12 2018 08:10 0
                       3.718272924 80.2580131 219.7926025
21 12 2018 08:20 159.2960052 4.189014912 158.9156457 214.1831055
21 12 2018 08:30 111.5599976 3.555891037 58.50970078 205.4015961
21 12 2018 08:40 81.99429321 3.232872009 27.79025411 202.5460968
21 12 2018 08:50 343.5062866 5.069777012 353.3283267 195.9172974
21 12 2018 09:00 265.447113 4.76281786 279.7984065 188.7743988
21 12 2018 09:10 238.2747955 4.367516994 194.4716828 189.4633026
21 12 2018 09:20 116.0184021 3.554639101 58.35841382 198.3858032
21 12 2018 09:30 222.4136963 4.331377983 187.1355594 189.9978027
21 12 2018 09:40 61.20935059 3.346970081 36.73410159 210.0083008
21 12 2018 09:50
                 139.0523987 3.908472061 111.0968248 193.5469971
21 12 2018 10:00 491.9276123 5.502251148 469.647716 182.7503967
21 12 2018 10:10 130.3856049 3.976855993 123.5992023 187.8032074
21 12 2018 10:20 453.949707 5.452672005 455.4876342 189.3114929
21 12 2018 10:30 506.2171936 5.753098011 544.8412948 189.2389984
21 12 2018 10:40 794.6552124 6.627389908 856.7290679 188.4754028
21 12 2018 10:50 488.8912048 5.666251183 518.1209684 188.6569977
21 12 2018 11:00 377.3518066 4.985926151 332.5496347 190.7218018
21 12 2018 11:10 430.8735046 5.389494896 437.7656806 193.0386963
21 12 2018 11:20 336.2992859 4.895576
                                        310.7543917 193.2814941
21 12 2018 11:30 419.3463135 5.290071011 410.5880263 192.3547974
21 12 2018 11:40 591.9019165 6.035604
                                         636.0656663 197.2810059
21 12 2018 11:50 941.2609253 7.195613861 1106.534658 200.3816071
21 12 2018 12:00 669.8081055 6.206383228 695.8545198 199.964798
21 12 2018 12:10 629.6104736 6.142068863 672.9723921 199.0700989
21 12 2018 12:20 1042.661011 7.36070013 1187.002585 202.9967957
21 12 2018 12:30 893.4458008 7.009335995 1020.197062 208.5166931
21 12 2018 12:40 1149.491943 7.382753849 1198.047661 209.5852966
21 12 2018 12:50 1366.155029 8.075860977 1573.733862 205.853302
21 12 2018 13:00 1626.974976 8.409585953 1772.540981 208.6138
21 12 2018 13:10 1537.687988 8.296704292 1704.206608 209.9212036
21 12 2018 13:20 1346.659058 7.880186081 1462.148868 208.112793
```

```
21 12 2018 13:30 1236.10498 7.643207073 1332.779774 207.8914032
21 12 2018 13:40 1134.401978 7.463171005 1238.934905 203.1638031
21 12 2018 13:50
                 1250.573975 7.787885189 1410.968424 205.8394928
21 12 2018 14:00 1542.130981 8.391050339 1761.249739 212.0803986
21 12 2018 14:10 1561.817993 8.609882355 1896.174268 217.1181946
21 12 2018 14:20
                 1467.162964 8.440303802 1791.311858 218.7288055
21 12 2018 14:30
                 1369.010986 8.205532074 1649.800804 216.4114075
                 1332.031006 8.036491394 1550.962596 216.5791016
21 12 2018 14:40
21 12 2018 14:50
                 732.5617065 6.381320953 760.3447336 219.9095001
                 312.1531067 5.179999828 381.4819109 219.7234039
21 12 2018 15:00
21 12 2018 15:10 628.2838135 6.369287014 755.802399 216.6954041
21 12 2018 15:20 652.7952881 6.245178223 709.8715505 217.5061951
21 12 2018 15:30 545.3555298 5.904858112 593.3585428 219.6992035
21 12 2018 15:40 657.6904297 6.438492775 782.1408448 219.5498962
21 12 2018 15:50 698.0648804 6.480587959 798.4185415 219.151001
21 12 2018 16:00 1071.615967 7.634812832 1328.322878 213.7084961
21 12 2018 16:10 1688.572998 8.523994446 1842.810614 214.514801
21 12 2018 16:20 2095.01001 9.08038044 2195.932788 212.8898926
21 12 2018 16:30 2268.487061 9.182593346 2262.303767 214.4131927
21 12 2018 16:40 2401.582031 9.641774178 2548.47711 216.2225037
21 12 2018 16:50 1642.630005 8.137860298 1609.904151 224.1719971
21 12 2018 17:00 1877.506958 8.568097115 1870.149996 217.6257019
21 12 2018 17:10 1624.800049 8.263149261 1684.09834 221.672699
21 12 2018 17:20
                 1377.524048 7.701966763 1364.226166 227.8009949
21 12 2018 17:30 1341.103027 7.617054939 1318.924004 220.0368958
21 12 2018 17:40 1081.840942 6.944149971 991.0439899 219.0343018
21 12 2018 17:50 641.5675049 5.886680126 587.4218633 219.2584076
21 12 2018 18:00 815.6887207 6.541605949 822.3618798 221.9160004
21 12 2018 18:10 974.746582 6.822168827 937.9046781 220.392395
21 12 2018 18:20 1127.069946 6.968379021 1001.817463 215.9850006
21 12 2018 18:30 831.5939941 6.175309181 684.743539 220.1287994
21 12 2018 18:40 583.8265991 5.695352077 526.9916827 205.9577026
21 12 2018 18:50 1329.402954 8.096587181 1585.783839 208.4517975
21 12 2018 19:00 1416.792969 7.846412182 1443.308363 210.7496033
21 12 2018 19:10 1279.131958 7.799645901 1417.435055 206.5475006
21 12 2018 19:20 1874.984985 8.637104988 1913.190116 213.2539063
                 2047.043945 9.155397415 2244.612647 219.1965942
21 12 2018 19:30
21 12 2018 19:40
                 1803.131958 8.495435715 1825.179735 218.7563934
21 12 2018 19:50 1407.244995 7.568161011 1293.255969 226.0023956
21 12 2018 20:00 893.9885254 6.427752972 778.0191156 229.4311981
21 12 2018 20:10 1223.889038 7.234004021 1124.905978 211.5590057
21 12 2018 20:20 1446.291016 7.688325882 1356.887634 209.6183929
21 12 2018 20:30 1689.993042 8.528274536 1845.457938 207.8146973
21 12 2018 20:40 2047.115967 8.799994469 2015.940405 207.0812988
21 12 2018 20:50
                 1873.613037 8.620781898 1902.981457 207.7566986
21 12 2018 21:00
                 2073.170898 9.473885536 2452.843312 205.0700073
                 2198.941895 9.515593529 2452.196875 203.7888031
21 12 2018 21:10
21 12 2018 21:20
                 2094.835938 9.185061455 2263.910344 205.2713928
21 12 2018 21:30 1674.875977 8.13492012 1608.180472 210.7630005
21 12 2018 21:40
                 1000.981995 6.882205009 963.8313551 214.5366058
21 12 2018 21:50
                 1008.388
                             6.882761002 964.0735058 228.1329041
21 12 2018 22:00
                 1155.254028 7.090826035 1057.404817 225.4371033
21 12 2018 22:10
                 1327.652954 7.600758076 1310.334073 223.2980957
21 12 2018 22:20
                 1510.619995 8.011140823 1536.383046 219.3078003
21 12 2018 22:30 1333.602051 7.84957695 1445.068329 211.9309998
21 12 2018 22:40 1388.262939 7.521552086 1269.080371 209.1813965
21 12 2018 22:50 1483.109009 7.474173069 1244.604736 210.6674957
21 12 2018 23:00 1539.613037 7.684185028 1354.66449 208.9431
21 12 2018 23:10 1410.952026 7.619669914 1320.305519 209.7351074
```

```
21 12 2018 23:20 1832.713013 8.610383987 1896.487388 205.7946014
21 12 2018 23:30 2109.177002 9.46790123 2448.915195 204.5895996
21 12 2018 23:40 2054.791016 9.381192207 2392.046466 202.2671051
21 12 2018 23:50 2494.384033 10.01657963 2802.367737 203.2859039
22 12 2018 00:00 2849.197021 10.73771954 3171.759458 203.7042999
22 12 2018 00:10 3350.268066 12.01130009 3523.696243 201.777298
22 12 2018 00:20 3602.268066 13.50949001 3600 204.523407
22 12 2018 00:30 3602.100098 13.09729004 3600 203.1423035
22 12 2018 00:40 3566.320068 12.24565029 3555.085932 202.436203
22 12 2018 00:50 3123.0271
                            10.50508976 3068.211334 206.6555939
22 12 2018 01:00 2813.806885 9.974653244 2776.241127 206.9389954
22 12 2018 01:10 2603.371094 9.599154472 2516.592164 206.4837036
22 12 2018 01:20 2605.483887 9.803800583 2663.950907 207.1576996
22 12 2018 01:30 2761.529053 10.17366982 2895.442632 204.7265015
22 12 2018 01:40 2589.618896 9.726031303 2609.64586 209.2565002
22 12 2018 01:50 2578.166016 9.581011772 2502.823771 212.3381958
22 12 2018 02:00 3453.361084 11.99018002 3520.41473 206.3278046
22 12 2018 02:10 3527.958008 12.10879993 3537.864185 206.126297
22 12 2018 02:20 3435.754883 11.98785019 3520.048054 203.908905
22 12 2018 02:30 3184.193115 11.10270023 3307.509699 205.5567017
22 12 2018 02:40 3012.560059 10.59173965 3108.414438 204.5559998
22 12 2018 02:50 3048.262939 10.8699398 3224.562643 206.4123993
22 12 2018 03:00 2791.7771 10.23795986 2931.401316 206.9801941
22 12 2018 03:10 3346.541992 11.87493038 3501.148097 205.5227966
22 12 2018 03:20 3469.374023 11.93292046 3511.131713 205.2640991
22 12 2018 03:30 3353.851074 11.70063972 3467.523883 206.6528931
22 12 2018 03:40 3540.283936 12.33911991 3565.105461 206.0370026
22 12 2018 03:50 3542.360107 12.13798046 3541.794727 206.7577057
22 12 2018 04:00 3429.081055 11.95265007 3514.394376 207.1593933
22 12 2018 04:10 3535.687988 12.3162899 3562.786723 208.2700958
22 12 2018 04:20 3474.669922 12.03157997 3526.775536 207.0413055
22 12 2018 04:30 3427.202881 12.17140961 3546.124432 203.9873962
22 12 2018 04:40 3531.261963 12.27571964 3558.461636 203.9304047
22 12 2018 04:50 3439.072021 11.84574986 3495.899969 205.5989075
22 12 2018 05:00 3495.393066 11.9348402 3511.452151 206.8746033
22 12 2018 05:10 3575.625
                             12.12145042 3539.585539 206.9967957
22 12 2018 05:20 3598.531982 12.68309021 3590.284181 205.5301971
22 12 2018 05:30 3602.268066 13.09278965 3600 205.1699982
22 12 2018 05:40 3601.075928 12.58094978 3584.684673 209.5780029
22 12 2018 05:50 3435.686035 11.84239006 3495.285987 207.2682037
22 12 2018 06:00 3547.99292 12.31566048 3562.721624 202.7915955
22 12 2018 06:10 3579.886963 12.6079998 3586.3194
                                                     198.7915955
22 12 2018 06:20 3601.759033 13.47072029 3600 194.8871002
22 12 2018 06:30 3602.343994 13.25936985 3600 194.4732971
22 12 2018 06:40 3545.572021 12.43424988 3573.88506 201.6605072
22 12 2018 06:50 3302.981934 11.37699986 3389.920373 205.0205994
22 12 2018 07:00 3267.304932 11.59267044 3443.884844 204.0088959
22 12 2018 07:10 3307.176025 11.56558037 3437.606522 203.028595
22 12 2018 07:20 3501.096924 12.25174046 3555.781388 205.3811951
22 12 2018 07:30 3597.417969 12.86262035 3596.399898 205.3959961
22 12 2018 07:40
                 3602.512939 13.20950985 3600 202.9474945
22 12 2018 07:50
                 3602.593994 13.50477028 3600 202.6208038
22 12 2018 08:00 3602.019043 12.8847599 3596.83019 201.6029968
22 12 2018 08:10 3601.835938 12.75716972 3593.377958 201.8751984
22 12 2018 08:20 3502.736084 12.04953003 3529.442778 199.9241943
22 12 2018 08:30 3291.431885 11.43148041 3404.42326 201.3876038
22 12 2018 08:40 3186.435059 11.46786976 3413.778271 205.5785065
22 12 2018 08:50 2974.256104 10.80060959 3197.405081 207.2902069
22 12 2018 09:00 3230.64502 11.42516994 3402.774039 211.0139008
```

```
2951.011963 10.8730402 3225.750198 204.591095
22 12 2018 09:10
                 3010.375977 10.99738026 3271.516268 203.4933929
22 12 2018 09:20
22 12 2018 09:30
                 2660.049072 10.25063038 2938.345641 205.2429962
22 12 2018 09:40 2596.481934 10.06359005 2831.010902 207.1006012
22 12 2018 09:50 2070.052979 9.070988655 2189.851552 204.3457031
22 12 2018 10:00 2386.128906 9.589554787 2509.321628 202.9523926
22 12 2018 10:10 2550.35498 9.890855789 2722.35041 198.3027039
22 12 2018 10:20 2421.181885 9.460442543 2444.019796 206.0350037
22 12 2018 10:30 2776.533936 10.38241005 3007.848094 212.6432953
                 3153.818115 10.88237953 3229.31367 210.1378021
22 12 2018 10:40
22 12 2018 10:50 3422.528076 11.54761982 3433.366134 205.7315979
22 12 2018 11:00 3541.207031 12.00152969 3522.187667 205.631897
22 12 2018 11:10 3327.974121 11.5938797 3444.161819 204.6304932
22 12 2018 11:20 3206.969971 11.0722599 3297.362473 203.8796997
22 12 2018 11:30 2874.85791 10.69676971 3154.53437 206.9125061
22 12 2018 11:40 2806.061035 10.40507984 3019.312565 204.9568024
22 12 2018 11:50 2436.323975 9.69203186 2585.258487 204.7689972
22 12 2018 12:00 1845.854004 8.39922142 1766.223954 205.7545013
22 12 2018 12:10 1481.687012 7.723993778 1376.124555 206.4246979
22 12 2018 12:20 2117.524902 9.060866356 2183.300808 209.4328003
22 12 2018 12:30 2607.794922 9.901823044 2729.53182 206.351593
22 12 2018 12:40 3078.206055 10.94147968 3251.386647 201.3003998
                 3354.104004 11.3593502 3385.092808 204.8256073 3447.184082 11.3901701 3393.481367 214.9683075
22 12 2018 12:50
22 12 2018 13:00
22 12 2018 13:10 3568.486084 11.85663033 3497.874509 217.4013062
22 12 2018 13:20 3534.580078 11.8260603 3492.273107 213.303299
22 12 2018 13:30 3520.602051 11.84265995 3495.335382 207.7176056
22 12 2018 13:40 3520.950928 11.74674034 3476.95471 204.7037048
22 12 2018 13:50 3555.202881 11.98919964 3520.260549 205.0942993
22 12 2018 14:00 3244.438965 11.05090046 3290.118837 199.8908997
22 12 2018 14:10 2983.376953 10.42370987 3028.627938 199.2400055
22 12 2018 14:20 3203.294922 11.02867985 3282.474229 200.4929962
22 12 2018 14:30 3579.37207 12.31678009 3562.837378 204.4376984
22 12 2018 14:40 3598.193115 12.54286957 3582.196446 204.8894043
22 12 2018 14:50 3601.968994 13.10916996 3600 206.9472046
                 3602.396973 13.2045002 3600 207.7386017
22 12 2018 15:00
22 12 2018 15:10
                 3601.743896 13.05370045 3600 207.9421997
                 3602.35791 13.26780033 3600 204.1994019
22 12 2018 15:20
22 12 2018 15:30 3602.10791 13.11604977 3600 205.3421021
22 12 2018 15:40 3599.738037 12.80144978 3594.843459 205.8802032
22 12 2018 15:50 3602.191895 13.04829979 3600 206.7978058
22 12 2018 16:00 3599.593994 12.89949036 3597.077486 212.0346069
22 12 2018 16:10 3574.165039 12.76797009 3593.76177 212.5679016
22 12 2018 16:20 3595.413086 12.81744957 3595.302853 212.2566986
22 12 2018 16:30 3397.548096 12.13105011 3540.874022 213.571701
22 12 2018 16:40 3519.666016 12.1715498 3546.142202 215.8946075
                 3590.797119 12.36044025 3567.196471 217.4884949
22 12 2018 16:50
22 12 2018 17:00 3601.083008 12.55768013 3583.190246 217.0670013
22 12 2018 17:10 3601.693115 12.80346966 3594.903504 214.8184052
22 12 2018 17:20
                 3601.547119 12.70989037 3591.496661 215.726593
22 12 2018 17:30
                 3601.483887 12.24048042 3554.49087 217.1016998
22 12 2018 17:40
                 3592.260986 12.14671993 3542.944447 217.6923981
22 12 2018 17:50
                 3599.139893 12.22455978 3552.63123 215.4998016
22 12 2018 18:00
                 3563.227051 12.04160023 3528.271202 215.6358948
22 12 2018 18:10
                 3501.274902 11.80698967 3488.694027 217.0462036
22 12 2018 18:20
                 3303.361084 11.66596031 3460.169975 217.9062042
22 12 2018 18:30 3255.038086 11.69904041 3467.189665 218.331604
22 12 2018 18:40 3162.706055 11.47249031 3414.947284 218.1685028
22 12 2018 18:50 3215.189941 11.44439983 3407.774836 215.9680023
```

```
22 12 2018 19:00 3360.230957 11.71722984 3470.962871 215.6204987
                 3418.781006 11.7980299 3486.989903 215.5621948
22 12 2018 19:10
22 12 2018 19:20
                 3459.615967 11.91411018 3507.957943 215.7812042
22 12 2018 19:30 3581.779053 12.35336018 3566.510034 215.5384979
22 12 2018 19:40 3449.562012 12.06130028 3531.162155 214.4190063
22 12 2018 19:50 3154.062988 11.43398952 3405.076792 214.5919037
22 12 2018 20:00 2911.38501 10.96103954 3258.512162 215.2241974
22 12 2018 20:10 2622.834961 10.13059998 2870.668266 221.9750977
22 12 2018 20:20 2828.50708 10.28155041 2955.09718 222.0097961
22 12 2018 20:30
                 2806.569092 10.66314983 3140.077685 219.4311981
22 12 2018 20:40
                 2661.085938 10.31637001 2973.633309 221.1159058
22 12 2018 20:50 2528.559082 10.12650967 2868.286569 222.4963074
22 12 2018 21:00 2336.621094 9.939914703 2754.173175 220.8088074
22 12 2018 21:10 2268.285889 9.725310326 2609.132824 221.2223053
22 12 2018 21:20 2182.503906 9.542337418 2473.080626 224.4091949
22 12 2018 21:30 1952.092041 8.796595573 2013.781116 226.9320984
22 12 2018 21:40 2156.949951 9.148851395 2240.357691 226.3300934
22 12 2018 21:50 2416.099121 9.739132881 2618.93783 225.6065979
22 12 2018 22:00 2862.291992 10.5219202 3076.175423 224.9736023
22 12 2018 22:10 3136.803955 11.06190968 3293.86517 223.0444946
22 12 2018 22:20 3292.409912 11.30097008 3368.668304 222.0769043
22 12 2018 22:30 3360.069092 11.27950954 3362.4528
                                                     222.5243988
22 12 2018 22:40 3322.031982 11.52985954 3429.111582 219.9734039
22 12 2018 22:50 3473.944092 11.79872036 3487.121742 221.2920074
22 12 2018 23:00 3500.041992 12.0337801 3527.105396 221.5664978
22 12 2018 23:10 3496.545898 12.17074013 3546.039527 220.4107971
22 12 2018 23:20 3594.774902 12.47671986 3577.350259 218.7276001
22 12 2018 23:30 3601.879883 13.22717953 3600 216.660202
22 12 2018 23:40 3601.656006 13.3328104 3600 212.5366058
22 12 2018 23:50 3600.154053 13.07880974 3600 211.719696
23 12 2018 00:00 3587.481934 12.70796967 3591.413291 212.3672943
23 12 2018 00:10 3597.11499 12.81655025 3595.278016 211.0059967
23 12 2018 00:20 3591.405029 12.66147041 3589.228645 211.5997925
23 12 2018 00:30 3600.733887 12.7498703 3593.108901 212.4129944
23 12 2018 00:40 3597.558105 12.73556042 3592.558799 211.9806976
                 3600.884033 12.93772984 3597.574482 213.5991974
23 12 2018 00:50
                 3574.561035 12.52556992 3580.993491 211.1661987
23 12 2018 01:00
                 3600.774902 12.96133995 3597.777166 212.0807037
23 12 2018 01:10
23 12 2018 01:20 3600.919922 13.20471001 3600 210.8710022
23 12 2018 01:30 3602.02002 13.62668037 3600 211.3981018
23 12 2018 01:40 3602.124023 13.80183983 3600 212.1278076
23 12 2018 01:50 3601.853027 13.34679985 3600 213.5908051
23 12 2018 02:00 3601.98291 13.18721008 3600 211.9483032
23 12 2018 02:10 3601.038086 13.08565998 3600 211.6799011
23 12 2018 02:20 3601.856934 13.02705956 3600 211.9364929
23 12 2018 02:30
                 3601.891113 13.09951019 3600 212.1058044
                 3600.156982 12.87835979 3596.713041 209.2993927
23 12 2018 02:40
                 3599.731934 12.5450201 3582.342811 210.6705017
23 12 2018 02:50
23 12 2018 03:00 3591.189941 12.58625984 3585.014255 213.921402
23 12 2018 03:10
                 3585.344971 12.24481964 3554.990613 212.2321014
23 12 2018 03:20
                 3526.739014 11.79370975 3486.163046 211.3607941
23 12 2018 03:30
                 3599.715088 12.47951984 3577.568953 212.013504
23 12 2018 03:40
                 3600.083984 12.69600964 3590.881914 211.6746063
23 12 2018 03:50
                 3601.929932 13.24300003 3600 215.0733948
23 12 2018 04:00 3601.903076 13.37532997 3600 215.2088013
23 12 2018 04:10 3590.120117 12.7391901 3592.701173 214.3717041
23 12 2018 04:20 3602.216064 13.80177021 3600 215.5570068
23 12 2018 04:30 3602.020996 14.52029037 3600 215.1587067
23 12 2018 04:40 3602.077881 13.8290596 3600 217.1342926
```

```
23 12 2018 04:50 3601.975098 13.15285969 3600 218.2360992
                 3601.762939 13.25778008 3600 224.5525055
23 12 2018 05:00
                 3601.569092 14.18517971 3600 220.6154938
23 12 2018 05:10
23 12 2018 05:20 3601.718994 13.75360966 3600 217.9622955
23 12 2018 05:30 3601.562012 13.57131958 3600 216.2288971
23 12 2018 05:40 3601.809082 13.23976994 3600 218.0151062
23 12 2018 05:50
                 3601.543945 13.58255959 3600 218.3843994
23 12 2018 06:00 3601.760986 13.14997005 3600 219.5659943
23 12 2018 06:10 3601.887939 13.24388981 3600 219.8524933
23 12 2018 06:20
                 3601.7771
                            13.24061012 3600 220.0991974
23 12 2018 06:30 3601.501953 13.64334965 3600 222.8600006
23 12 2018 06:40 3601.781006 13.46658039 3600 224.0359955
23 12 2018 06:50 3596.787109 12.60023022 3585.861106 229.4306946
23 12 2018 07:00 3601.271973 12.59620953 3585.620387 227.7245026
23 12 2018 07:10 3601.533936 12.88817978 3596.890378 228.5856018
23 12 2018 07:20 3597.36499 12.63803005 3588.005791 229.4730988
23 12 2018 07:30 3544.959961 11.90855026 3507.007998 228.4960938
23 12 2018 07:40 3542.683105 11.78061008 3483.635184 230.8964996
23 12 2018 07:50 3481.665039 11.48754025 3418.725681 230.0025024
23 12 2018 08:00 3457.514893 11.61736012 3449.484596 226.332901
23 12 2018 08:10 3591.73291 12.21858978 3551.923305 228.5325928
23 12 2018 08:20 3553.003906 12.25446033 3556.090049 234.6618042
23 12 2018 08:30 3315.129883 11.54732037 3433.294906 237.3851013
23 12 2018 08:40 3186.760986 10.82783985 3208.209567 229.2621002
23 12 2018 08:50 3276.170898 11.44913006 3408.993617 230.8701019
23 12 2018 09:00 2750.521973 10.39424992 3013.853442 234.4613037
23 12 2018 09:10 3144.530029 10.82783031 3208.205815 226.2151031
23 12 2018 09:20 3184.968994 11.22008038 3344.734597 229.1204071
23 12 2018 09:30 3114.320068 11.25802994 3356.135053 231.9920044
23 12 2018 09:40 2856.816895 10.62113953 3121.609116 232.366394
23 12 2018 09:50 2585.553955 9.93674469 2752.140264 241.4322968
23 12 2018 10:00 2417.664063 9.429767609 2423.893207 248.0899048
23 12 2018 10:10 2077.549072 8.845898628 2045.161639 250.2415924
23 12 2018 10:20 2132.944092 8.968144417 2123.475464 247.9669037
23 12 2018 10:30 2524.883057 9.858216286 2700.746499 249.0426025
23 12 2018 10:40 2557.581055 9.65037632 2554.835081 247.4718018
23 12 2018 10:50 2367.88208 9.457669258 2442.199739 247.482193
23 12 2018 11:00 2151.650879 8.775653839 2000.490625 245.779007
23 12 2018 11:10 2117.455078 8.96523571 2121.604311 246.1775055
23 12 2018 11:20 1560.801025 7.864892006 1453.60126 253.2971954
23 12 2018 11:30 2009.942017 8.768003464 1995.641295 258.9973145
23 12 2018 11:40 2221.562012 9.178657532 2259.74217 258.4742126
23 12 2018 11:50 1876.581055 8.207115173 1650.739196 254.491394
23 12 2018 12:00 1993.639038 8.929493904 2098.64148 254.8865051
23 12 2018 12:10 1795.036987 8.468441963 1808.569185 253.9645996
23 12 2018 12:20 782.5446777 6.24618721 710.2382642 257.0179138
23 12 2018 12:30 729.194519 6.17805481 685.7211139 274.2824097
23 12 2018 12:40 1302.902954 7.588136196 1303.704823 261.3537903
23 12 2018 12:50 1102.779053 7.121259212 1071.522458 251.7478943
23 12 2018 13:00 1106.140991 6.960061073 998.1105954 248.3961029
23 12 2018 13:10
                 1594.650024 8.040646553 1553.358559 245.8941956
23 12 2018 13:20 2275.852051 9.430026054 2424.062733 242.3650055
23 12 2018 13:30 2528.753906 9.789902687 2654.395626 241.035202
23 12 2018 13:40 2275.949951 9.302059174 2340.247851 240.2465973
23 12 2018 13:50 1909.672974 8.613162041 1898.221751 240.9550934
23 12 2018 14:00 2059.824951 8.911673546 2087.2136
                                                   246.7855988
23 12 2018 14:10 2268.24292 9.286007881 2329.755817 247.6959076
23 12 2018 14:20 2433.093994 9.44705677 2435.235729 250.6499939
23 12 2018 14:30 1725.902954 8.378608704 1753.685928 255.3498993
```

```
23 12 2018 14:40 1544.246948 7.929853916 1490.086378 254.9048004
                 1744.949951 8.23087883 1664.852429 268.3529053
23 12 2018 14:50
23 12 2018 15:00
                 2682.043945 10.15917969 2887.169531 276.4484863
23 12 2018 15:10
                 2516.799072 9.777766228 2645.998501 273.1442871
23 12 2018 15:20
                 2017.232056 8.858231544 2053.030574 268.1712036
23 12 2018 15:30
                 1776.892944 8.416991234 1777.059511 261.0151062
23 12 2018 15:40
                 1330.095947 7.412879944 1213.25155 255.865799
                 1618.182983 8.383360863 1756.573522 261.6932983
23 12 2018 15:50
23 12 2018 16:00 1153.517944 7.184049129 1101.04002 257.5997925
23 12 2018 16:10
                 1393.140991 7.77783823 1405.456977 261.7246094
23 12 2018 16:20
                 1158.249023 7.322496891 1168.037079 269.8088989
23 12 2018 16:30 996.6633301 7.080963135 1052.855657 263.8070984
23 12 2018 16:40 689.4622192 6.178061008 685.7233219 256.2658081
23 12 2018 16:50
                 1097.107056 7.33554697 1174.491871 250.6121979
23 12 2018 17:00 1792.22998 8.464404106 1806.089104 251.7126007
23 12 2018 17:10 1798.786987 8.52605629 1844.085746 255.735199
23 12 2018 17:20 1805.697021 8.654115677 1923.84673 256.416687
23 12 2018 17:30 1637.764038 8.053339958 1560.688701 261.6184998
23 12 2018 17:40 1594.256958 8.042423248 1554.383578 258.5620117
23 12 2018 17:50
                 1630.176025 7.977529049 1517.154859 253.2173004
23 12 2018 18:00
                 1411.750977 7.637790203 1329.902679 248.2922058
23 12 2018 18:10 1285.052002 7.333526134 1173.490725 255.8327942
23 12 2018 18:20
                 1209.531006 7.291035175 1152.575935 259.0249939
23 12 2018 18:30
                 1686.61499 8.265843391 1685.70924 255.0500946
                                                     259.7052917
23 12 2018 18:40
                 1555.938965 7.84487009 1442.4512
23 12 2018 18:50 1332.577026 7.516448021 1266.450591 259.7197876
23 12 2018 19:00 1656.545044 8.248019218 1675.063431 270.2456055
23 12 2018 19:10 1572.969971 8.139440536 1610.830905 276.2715149
                 1976.833984 8.906446457 2083.864294 278.443512
23 12 2018 19:20
23 12 2018 19:30 2079.628906 9.01398468 2153.010172 283.0252991
23 12 2018 19:40 2681.051025 10.16652012 2891.368336 282.2124939
23 12 2018 19:50
                 1867.925049 8.64773941 1919.850094 270.8183899
23 12 2018 20:00
                 1624.150024 8.331635475 1725.241204 271.2114868
23 12 2018 20:10 1380.829956 7.772643089 1402.611762 269.2580872
23 12 2018 20:20 1721.463013 8.457518578 1801.862759 273.4668884
23 12 2018 20:30
                 1619.745972 8.172570229 1630.314582 278.9111938
                 1092.715942 7.140580177 1080.548947 273.1729126
23 12 2018 20:40
23 12 2018 20:50
                 1051.921021 7.059256077 1042.888228 278.5534058
23 12 2018 21:00
                 985.5776978 7.052302837 1039.708391 273.281311
23 12 2018 21:10
                 936.6464844 6.818367958 936.2779024 272.5827026
23 12 2018 21:20
                 719.1066284 6.368535995 755.5194419 264.5158997
23 12 2018 21:30 654.0894165 6.101498127 658.7654634 259.8638
23 12 2018 21:40 654.835022 6.143414021 673.4464483 262.0628052
23 12 2018 21:50 565.5216064 5.898962021 591.4291697 256.8208008
23 12 2018 22:00 660.5485229 6.242867947 709.0322992 264.9126892
23 12 2018 22:10 482.5169983 5.636210918 509.0503535 268.2681885
23 12 2018 22:20 564.5775757 5.964508057 613.0840501 267.375
                 564.3466797 6.049365997 640.7681924 271.3465881
23 12 2018 22:30
23 12 2018 22:40 470.0812073 5.704938889 529.9321758 267.5891113
23 12 2018 22:50
                 407.888092 5.438001156 451.3403798 272.2137146
23 12 2018 23:00
                 485.7802124 5.767299175 549.2818607 276.7401123
23 12 2018 23:10
                 503.0787964 5.853043079 576.5272835 278.5841064
23 12 2018 23:20
                 533.0028076 5.906480789 593.89017
                                                     278.6261902
23 12 2018 23:30
                 570.703186 6.04263401 638.4653182 277.2333069
23 12 2018 23:40 435.7897949 5.814849854 564.2986515 262.3021851
23 12 2018 23:50
                 381.9545898 5.594820976 496.6949863 250.0715942
24 12 2018 00:00 467.600708 5.860743999 579.011146 251.3585052
24 12 2018 00:10 476.5228882 5.966118813 613.6219494 250.0776978
24 12 2018 00:20 558.947876 6.085894108 653.3481307 243.8948059
```

```
24 12 2018 00:30 726.1107788 6.405610085 769.5610116 244.990799
                 692.9296265 6.430832863 779.1998237 248.3511047
24 12 2018 00:40
24 12 2018 00:50
                 784.6234131 6.754776001 909.315724 244.3179932
24 12 2018 01:00 870.8865967 6.724891186 896.8098048 241.8531952
24 12 2018 01:10 897.3427734 6.856225014 952.5583084 239.593399
24 12 2018 01:20
                 1130.083984 7.33773613 1175.577073 233.9869995
24 12 2018 01:30
                 1043.661987 7.220254898 1118.30312 233.5343933
24 12 2018 01:40 980.3477173 6.987969875 1010.582458 235.3757935
24 12 2018 01:50
                 983.3256836 7.110040188 1066.303839 230.3950043
                 982.3922119 7.012225151 1021.501617 227.0538025
24 12 2018 02:00
24 12 2018 02:10
                 1260.677002 7.501911163 1258.980025 228.5084991
24 12 2018 02:20
                 1354.290039 7.661168098 1342.346094 229.7696075
24 12 2018 02:30
                 1273.145996 7.590544224 1304.967965 227.8919067
24 12 2018 02:40
                 1389.938965 7.993618011 1526.34411 223.6878967
24 12 2018 02:50
                 1591.655029 8.338844299 1729.594822 218.4048004
24 12 2018 03:00
                 1791.494019 8.796876907 2013.959822 219.3386993
24 12 2018 03:10
                 1929.390991 9.262242317 2314.231642 215.6437988
24 12 2018 03:20 1886.79895 8.825655937 2032.262421 212.9878998
24 12 2018 03:30 1742.209961 9.076956749 2193.715569 205.0706024
24 12 2018 03:40 2079.408936 9.435693741 2427.78063 204.9257965
24 12 2018 03:50
                 1972.715942 9.298065186 2337.636646 204.2207031
24 12 2018 04:00
                 1690.702026 8.626740456 1906.706042 206.9376984
24 12 2018 04:10
                 1546.800049 8.305915833 1709.743585 209.2028961
24 12 2018 04:20
                 1686.821045 8.580411911 1877.807711 208.4429016
24 12 2018 04:30 2119.608887 9.48684597 2461.351749 206.3103027
24 12 2018 04:40 2258.448975 9.697505951 2589.211826 207.9689026
24 12 2018 04:50 2486.906006 10.17214966 2894.577633 203.1049042
24 12 2018 05:00 3190.12207 11.45172977 3409.661555 204.1983948
24 12 2018 05:10 3144.041016 11.51858044 3426.377754 201.2881012
24 12 2018 05:20 3131.438965 11.35875988 3384.930241 202.7635956
24 12 2018 05:30 3045.884033 11.15528965 3324.558072 202.1363983
24 12 2018 05:40 3138.319092 11.33298016 3377.761082 202.1596069
24 12 2018 05:50 2843.397949 10.81741047 3204.092587 201.6439972
24 12 2018 06:00 3181.275879 11.27995014 3362.581377 202.6963043
                 3521.743896 11.93118954 3510.842242 197.8419037
24 12 2018 06:10
24 12 2018 06:20
                 3600.621094 13.01784039 3600 193.3719025
24 12 2018 06:30
                 3602.061035 14.89517975 3600 193.5805054
24 12 2018 06:40
                 3601.86499 16.48171043 3600 196.7436066
                 3602.083984 16.99312973 3600 196.0998993
24 12 2018 06:50
24 12 2018 07:00
                 3601.845947 15.95421028 3600 192.246994
24 12 2018 07:10 3601.951904 17.7387104 3600 193.607605
24 12 2018 07:20 3601.88501 17.58901024 3600 195.6325073
24 12 2018 07:30
                 3602.1521
                             16.46825981 3600 196.6983032
24 12 2018 07:40
                 3602.062012 16.6315403 3600 194.6033936
24 12 2018 07:50
                 3602.064941 16.8834095 3600 194.361496
24 12 2018 08:00
                 3602.197021 16.84104919 3600 194.5381927
24 12 2018 08:10
                 3601.958984 16.91604996 3600 194.0718994
                 3602.176025 16.4782505 3600 193.258606
24 12 2018 08:20
                                               192.4501953
24 12 2018 08:30
                 3602.083984 16.42601013 3600
24 12 2018 08:40
                 3601.967041 15.84794998 3600
                                               193.3379059
                 3601.798096 15.51138973 3600
24 12 2018 08:50
                                               194.4989014
24 12 2018 09:00
                 3601.571045 15.80078983 3600 195.4122009
24 12 2018 09:10
                 3266.668945 15.23180962 3600
                                              197.1466064
24 12 2018 09:20
                 1283.034058 14.66331959 3600
                                              197.9721069
24 12 2018 09:30
                 3601.209961 15.35828972 3600
                                               196.9048004
24 12 2018 09:40
                 3600.906006 15.09928036 3600
                                               198.0903015
24 12 2018 09:50
                 3600.656006 16.76959038 3600 200.1573944
24 12 2018 10:00 3600.697998 16.58492088 3600 198.2286987
24 12 2018 10:10 3600.769043 16.86449051 3600 193.4057007
```

```
24 12 2018 10:20
                 3600.815918 15.23692989 3600
                                                193.5942993
24 12 2018 10:30
                  3600.656982 16.80042076 3600
                                                193.4613037
24 12 2018 10:40
                  3600.532959 17.08410072 3600
                                                193.5148926
24 12 2018 10:50
                  3600.781006 16.41460991 3600
                                                192.6522064
24 12 2018 11:00
                  3600.856934 15.88932991 3600
                                                194.7962036
24 12 2018 11:10
                  3600.819092 16.94887924 3600
                                                193.5457001
24 12 2018 11:20
                  3601.071045 15.77738953 3600
                                                196.052002
24 12 2018 11:30
                  3601.128906 15.46121979 3600
                                                196.6421967
24 12 2018 11:40
                  3601.283936 16.33624077 3600
                                                200.1728058
24 12 2018 11:50
                  3600.808105 16.19614029 3600
                                                200.7093964
24 12 2018 12:00
                  3601.043945 16.56888008 3600
                                                200.0343018
                                                200.8074036
24 12 2018 12:10
                  3601.048096 16.98101997 3600
24 12 2018 12:20
                  3601.0271
                              16.59495926 3600
                                                198.5543976
24 12 2018 12:30
                  3601.100098 17.02753067 3600
                                                195.7812958
24 12 2018 12:40
                  3600.621094 16.7206192 3600
                                                193.2617035
24 12 2018 12:50
                  3600.523926 16.62528038 3600
                                                194.5126038
24 12 2018 13:00
                  3600.271973 15.82577991 3600
                                                191.9781036
24 12 2018 13:10
                  3600.852051 15.95228004 3600
                                               191.2666931
24 12 2018 13:20
                  3600.625977 16.88916016 3600
                                                192.3484955
                  3600.343994 16.12084007 3600
24 12 2018 13:30
                                                195.7451019
24 12 2018 13:40
                  3600.26001 17.38949013 3600
                                                194.5677032
                  3600.11792 18.77787971 3600
24 12 2018 13:50
                                                196.789093
24 12 2018 14:00
                  3599.600098 18.94647026 3600
                                                196.8202972
24 12 2018 14:10
                  3599.833008 19.14641953 3600
                                                196.4412994
24 12 2018 14:20
                  3599.912109 18.79451942 3600
                                                196.3143005
24 12 2018 14:30
                  3600.320068 19.69787979 3600
                                                198.6884003
24 12 2018 14:40
                  3600.375977 20.23608971 3600
                                                199.0050049
24 12 2018 14:50
                  3600.624023 19.68235016 3600
                                                198.5061035
24 12 2018 15:00
                  3600.495117 18.9708004 3600
                                                195.9532013
24 12 2018 15:10
                  3600.468994 19.65914917 3600
                                                195.8809967
24 12 2018 15:20
                  3600.185059 19.92670059 3600
                                               197.105896
24 12 2018 15:30
                  3600.282959 19.4477005 3600
                                               198.5661011
24 12 2018 15:40
                  3600.231934 20.09243011 3600
                                                200.1678009
24 12 2018 15:50
                  3600.268066 20.01796913 3600
                                                201.789093
                  3600.020996 19.64549065 3600
24 12 2018 16:00
                                                202.4909973
24 12 2018 16:10
                  3600.150879 20.56485939 3600
                                                201.5576019
24 12 2018 16:20
                  3600.379883 19.89299965 3600
                                                203.3869019
                                                202.0498047
24 12 2018 16:30
                  3600.177002 19.5427494 3600
24 12 2018 16:40
                  3600.346924 20.00782013 3600
                                                203.0541992
24 12 2018 16:50
                  3600.319092 19.94717979 3600
                                                203.2509003
24 12 2018 17:00
                  3600.550049 20.1754303 3600
                                                204.5261993
24 12 2018 17:10
                 3599.846924 20.31792068 3600
                                                205.5673981
24 12 2018 17:20
                  3599.801025 18.80731964 3600
                                                206.7624054
24 12 2018 17:30
                  3599.584961 19.19768906 3600
                                                208.779007
24 12 2018 17:40
                  3599.858887 20.55755043 3600
                                                209.4051056
24 12 2018 17:50
                  3599.695068 20.33127975 3600
                                                207.7935944
24 12 2018 18:00
                  3600.144043 21.24559975 3600
                                                207.9273071
                  3599.866943 20.45564079 3600
24 12 2018 18:10
                                                206.4273987
24 12 2018 18:20
                  3600.022949 20.87647057 3600
                                                208.1204071
24 12 2018 18:30
                  3599.72998 19.87873077 3600
                                                209.7120056
24 12 2018 18:40
                  3599.645996 21.28927994 3600
                                                211.2010956
24 12 2018 18:50
                  3599.574951 20.54190063 3600
                                                208.440094
24 12 2018 19:00
                  3599.639893 21.44617081 3600
                                                205.4916992
24 12 2018 19:10
                  3599.198975 20.58691025 3600
                                                207.3280945
24 12 2018 19:20
                  3599.532959 19.76269913 3600
                                                209.8249969
24 12 2018 19:30
                  3599.788086 20.01836967 3600
                                                211.1329956
24 12 2018 19:40
                 3599.470947 21.62100029 3600
                                                207.7252045
24 12 2018 19:50
                 3599.343994 20.60687065 3600
                                                209.8659058
24 12 2018 20:00 3599.037109 21.23448944 3600
                                                210.0375977
```

```
24 12 2018 20:10 3599.202881 20.88693047 3600
                                               209.0787964
                 3599.352051 20.56669998 3600
24 12 2018 20:20
                                              207.262207
24 12 2018 20:30
                 3598.977051 20.45199966 3600
                                               206.919693
24 12 2018 20:40 3599.501953 21.01815033 3600 206.9524994
24 12 2018 20:50 3599.791016 20.42705917 3600 209.6186981
24 12 2018 21:00 3600.298096 19.25418091 3600 208.2642059
24 12 2018 21:10
                 3600.003906 18.63348007 3600
                                              204.9273987
                 3600.566895 18.81813049 3600
                                               204.8869934
24 12 2018 21:20
24 12 2018 21:30
                 3600.137939 18.99217033 3600
                                               208.0112
                 3600.316895 18.75893021 3600
                                               209.405899
24 12 2018 21:40
24 12 2018 21:50
                 3600.450928 17.97653961 3600
                                               209.5704041
24 12 2018 22:00
                 3600.860107 17.80986977 3600 210.8186035
24 12 2018 22:10
                 3600.715088 17.56138039 3600 211.5641022
24 12 2018 22:20
                 3600.719971 17.47880936 3600 213.716095
24 12 2018 22:30 3600.425049 17.38961029 3600
                                               212.9313965
24 12 2018 22:40 3600.655029 17.35026932 3600 216.324295
24 12 2018 22:50
                 3600.511963 17.29029083 3600 217.4862976
24 12 2018 23:00 3600.099121 17.71244049 3600 217.8336029
24 12 2018 23:10 3600.620117 17.89191055 3600 217.8713074
                 3600.939941 17.52279091 3600 219.1107941
24 12 2018 23:20
24 12 2018 23:30
                 3600.735107 15.97579002 3600 219.0536957
24 12 2018 23:40
                 3600.513916 17.10173988 3600
                                              218.7987976
24 12 2018 23:50
                 3600.320068 17.15607071 3600
                                               217.7783051
25 12 2018 00:00
                 3600.559082 15.14927959 3600 219.0254974
25 12 2018 00:10 2219.075928 9.585331917 2506.112948 259.7504883
25 12 2018 00:20 2072.250977 8.702544212 1954.282949 311.2712097
25 12 2018 00:30 1380.213013 7.241847038 1128.684225 342.7788086
25 12 2018 00:40 2065.225098 8.911344528 2087.002742 350.3146973
25 12 2018 00:50 1668.980957 7.942326069 1497.144149 358.1586914
25 12 2018 01:00
                 3045.191895 10.67193031 3143.880909 339.1348877
25 12 2018 01:10 3153.894043 10.95753002 3257.2402
                                                     341.2922974
25 12 2018 01:20 2947.381104 10.57234955 3099.589351 351.0898132
25 12 2018 01:30
                 2447.056885 9.223161697 2288.732261 351.8586121
25 12 2018 01:40 2804.783936 10.0974102 2851.196746 352.3569031
25 12 2018 01:50 2381.025879 9.21746254 2285.016857 351.9797974
                 2178.157959 8.554581642 1861.757477 7.153038025
25 12 2018 02:00
25 12 2018 02:10 2416.523926 9.342382431 2366.628323 2.43275404
                 1812.557007 8.303721428 1708.423896 7.145994186
25 12 2018 02:20
25 12 2018 02:30 2438.889893 9.539449692 2470.838153 15.51681995
25 12 2018 02:40 2117.083984 8.688824654 1945.64615 9.268666267
25 12 2018 02:50 3569.312012 12.6370697 3587.953946 13.37611961
25 12 2018 03:00 3271.045898 11.71148014 3469.776773 12.96634007
25 12 2018 03:10 2611.879883 9.244744301 2302.809898 9.843197823
25 12 2018 03:20 2775.639893 10.91571045 3241.863084 15.15435982
25 12 2018 03:30 2192.138916 9.218803406 2285.890921 14.24592018
25 12 2018 03:40 1467.509033 7.789171219 1411.674758 17.83407021
25 12 2018 03:50
                 1527.01001 7.968924046 1512.251275 22.87207985
                 2031.901978 8.796567917 2013.763549 18.08476067
25 12 2018 04:00
25 12 2018 04:10 2060.556885 9.788410187 2653.365639 18.54311943
25 12 2018 04:20
                 1907.692017 8.851238251 2048.567626 13.92965984
25 12 2018 04:30
                 1651.553955 8.416008949 1776.459899 10.18507004
25 12 2018 04:40
                 1683.430054 8.196407318 1644.396498 7.511802197
25 12 2018 04:50
                 1269.005981 7.40903616 1211.304184 10.92405033
25 12 2018 05:00
                 1099.829956 7.157044888 1088.280396 20.15196037
25 12 2018 05:10
                 1729.534058 8.592139244 1885.10955 22.54130936
25 12 2018 05:20
                 1734.063965 8.299445152 1705.853364 22.01509094
25 12 2018 05:30 1847.746948 9.196022034 2271.047016 18.30141068
25 12 2018 05:40 1983.687988 10.33030987 2980.957556 16.9648304
25 12 2018 05:50 2118.991943 11.71170044 3469.822331 16.0561409
```

```
25 12 2018 06:00 2037.817017 10.74534988 3174.922927 16.20754051
25 12 2018 06:10 1971.729004 10.2452898 2935.424313 17.80882072
25 12 2018 06:20 1832.046997 9.560305595 2486.966222 17.83217049
25 12 2018 06:30 1766.094971 9.478822708 2456.084348 22.87663078
25 12 2018 06:40 1543.274048 8.925057411 2095.7951
                                                     23.79980087
25 12 2018 06:50 1747.838989 9.893179893 2723.875498 24.26099014
25 12 2018 07:00 1584.233032 9.218176842 2285.48248 27.43948936
25 12 2018 07:10 1534.94397 9.551178932 2479.927793 28.16275024
25 12 2018 07:20 1655.704956 9.740819931 2620.13008 28.40315056
25 12 2018 07:30
                 1341.504028 9.584801674 2505.709602 28.13064003
25 12 2018 07:40 996.1340942 9.456377983 2441.352327 28.44168091
25 12 2018 07:50 1124.029053 10.38140965 3007.338893 28.63660049
25 12 2018 08:00 898.5844727 9.908870697 2734.126123 27.75370979
25 12 2018 08:10 577.9119873 9.3366642 2362.885427 27.38858986
25 12 2018 08:20 538.5927124 8.977240562 2129.329246 27.4919796
25 12 2018 08:30 514.9639893 9.216161728 2284.168948 27.91526031
25 12 2018 08:40 430.0295105 8.627381325 1907.106772 27.13849068
25 12 2018 08:50 500.9661865 9.373397827 2386.939594 27.19506073
25 12 2018 09:00 491.1960144 9.599452019 2516.816994 27.04853058
25 12 2018 09:10 441.6223145 9.665594101 2566.019427 27.80724907
25 12 2018 09:20 422.8222046 9.319741249 2351.812012 28.06283951
                             10.33903027 2985.511493 27.33234978
25 12 2018 09:30 632.46698
25 12 2018 09:40 513.229126 9.518590927 2454.550417 27.81183052
25 12 2018 09:50 525.4940796 9.041706085 2170.911236 27.98391914
25 12 2018 10:00 844.8895264 9.583465576 2504.692812 27.66501999
25 12 2018 10:10 1189.478027 10.73573017 3170.932313 27.77279091
25 12 2018 10:20 1001.633972 10.17570019 2896.596885 28.21808052
25 12 2018 10:30 1010.659973 10.10626984 2856.427067 29.1776104
25 12 2018 10:40 1079.813965 10.30012989 2965.030942 27.38521957
25 12 2018 10:50 752.6796265 9.649028778 2553.840804 27.45309067
25 12 2018 11:00
                 779.4332275 9.974850655 2776.36544 28.89649963
25 12 2018 11:10
                 775.4708862 9.539748192 2471.070094 27.80629921
25 12 2018 11:20
                 819.5889893 10.27373028 2950.886478 27.42630959
25 12 2018 11:30 663.96698
                             9.054269791 2179.033764 26.48163986
25 12 2018 11:40 509.4263916 8.663279533 1929.595045 27.49029922
25 12 2018 11:50 549.7388916 9.016397476 2154.567057 27.8449707
                 707.5761108 9.923667908 2743.720198 27.72315979
25 12 2018 12:00
25 12 2018 12:10 657.104126 10.01842976 2803.50797 28.94087029
25 12 2018 12:20 582.2797852 9.518220901 2454.260052 31.53528023
25 12 2018 12:30 385.7316895 7.516630173 1266.544382 23.29286957
25 12 2018 12:40 355.7363892 7.674522877 1349.485359 22.08065033
25 12 2018 12:50 430.1850891 8.741958618 1979.156533 21.91921043
25 12 2018 13:00 520.3439941 9.854076385 2697.981442 27.03524017
25 12 2018 13:10
                 710.8292236 10.97451019 3263.367927 30.17367935
25 12 2018 13:20 574.2219849 10.67850971 3146.71794 28.02695084
25 12 2018 13:30
                 603.1538696 10.40272999 3018.130808 29.06967926
                             11.08209991 3300.665177 28.32430077
25 12 2018 13:40
                 702.78479
                 535.8950806 9.93019104 2747.927256 28.58292007
25 12 2018 13:50
25 12 2018 14:00
                468.023407 9.699333191 2590.529143 27.4157505
25 12 2018 14:10
                 772.2504883 11.43435001 3405.170583 29.26896095
25 12 2018 14:20
                 549.6530762 10.16543007 2890.74583 31.54571915
25 12 2018 14:30 647.522583 11.12008953 3313.214206 33.88206863
25 12 2018 14:40
                 703.0460205 11.05959988 3293.081422 35.96385956
25 12 2018 14:50 587.7128296 9.836828232 2686.400707 37.73294067
25 12 2018 15:00 529.934082 9.454592705 2440.180749 38.15359116
25 12 2018 15:10 546.2722778 9.381848335 2392.476404 38.28068924
25 12 2018 15:20 454.9500122 9.251508713 2307.22447 34.48059082
25 12 2018 15:30 464.6459045 9.018890381 2156.175872 42.52767944
25 12 2018 15:40 549.7047119 9.827323914 2679.977412 43.29724121
```

```
25 12 2018 15:50 543.9318237 9.832928658 2683.768872 45.92475128
25 12 2018 16:00 491.9388123 9.442111969 2431.991339 46.29066849
                 775.5258789 11.69548035 3466.443993 44.13135147
25 12 2018 16:10
25 12 2018 16:20
                 776.2216797 10.91263962 3240.717829 41.1409111
25 12 2018 16:30
                 826.0806274 12.15180969 3543.608216 38.04362106
                 761.0952759 11.49458027 3420.47779 40.18701172
25 12 2018 16:40
25 12 2018 16:50
                 587.9777222 10.21735001 2920.005879 39.77819061
                 596.1113892 10.3725996 3002.842607 38.18231964
25 12 2018 17:00
                 601.0045776 10.75687981 3179.67579 39.05088043
25 12 2018 17:10
25 12 2018 17:20
                 630.0753784 11.01506042 3277.733478 37.34077072
25 12 2018 17:30
                 502.7583923 9.596653938 2514.701486 37.48019028
25 12 2018 17:40 624.0469971 10.25335026 2939.830256 32.40232849
25 12 2018 17:50
                 714.7352295 11.35849953 3384.85852 41.73989868
25 12 2018 18:00 628.3253174 10.77647018 3187.676215 38.55503082
25 12 2018 18:10 465.4808044 9.948081017 2759.395401 37.44142914
25 12 2018 18:20 413.8747864 10.02355003 2806.658035 37.22156143
25 12 2018 18:30
                 367.0765076 9.326480865 2356.22138 38.11412048
25 12 2018 18:40 320.8149109 9.153532982 2243.400621 38.18568039
25 12 2018 18:50 273.446106 8.589697838 1883.588694 38.90296936
                 201.0820007 7.907574177 1477.520746 38.12776184
25 12 2018 19:00
                 177.7758942 7.651274204 1337.071413 42.29045868
25 12 2018 19:10
                             7.789010048 1411.586226 43.1180191
25 12 2018 19:20
                 166.4888
25 12 2018 19:30
                 288.8960876 9.177843094 2259.212153 45.20254135
25 12 2018 19:40
                 312.888092 10.01671028 2802.448294 40.7893219
25 12 2018 19:50
                 266.1144104 9.632896423 2541.888223 35.41202164
25 12 2018 20:00 238.4971924 9.500664711 2440.425998 37.76578903
25 12 2018 20:10 167.3972931 8.799908638 2015.88587 37.79544067
25 12 2018 20:20 140.3663025 8.237138748 1668.578613 38.84951019
25 12 2018 20:30 221.2303009 9.518746376 2454.672385 36.96932983
25 12 2018 20:40
                 153.1813049 8.528790474 1845.777143 36.92259979
25 12 2018 20:50 207.8578033 9.258161545 2311.56729 36.87305832
25 12 2018 21:00
                 168.7682953 8.927984238 2097.672804 36.68935013
25 12 2018 21:10
                 211.1578979 9.425692558 2421.220309 35.93833923
25 12 2018 21:20 186.8269958 9.13117218 2228.872664 36.52325058
25 12 2018 21:30 195.070694 9.092061043 2203.50033 36.36885071
25 12 2018 21:40
                 118.6622009 8.272200584 1689.512893 35.39525986
25 12 2018 21:50
                 90.35288239 7.979443073 1518.246634 36.12408829
25 12 2018 22:00
                 222.8598938 9.102133751 2210.029902 35.23566055
25 12 2018 22:10 177.218399 8.776786804 2001.209047 35.9682312
25 12 2018 22:20
                 177.0774994 8.628893852 1908.052649 35.29006958
25 12 2018 22:30 130.2516022 8.274735451 1691.030538 34.84373093
25 12 2018 22:40 141.8388062 8.560106277 1865.186531 34.37939835
25 12 2018 22:50 206.0466003 8.948484421 2110.835313 22.8710804
25 12 2018 23:00
                 183.3603058 8.903176308 2081.769554 27.08646965
25 12 2018 23:10 215.4842072 9.242176056 2301.134108 30.51511955
25 12 2018 23:20
                 190.2539978 8.737426758 1976.292032 26.65776062
25 12 2018 23:30
                 261.1010132 9.7076931 2596.541416 25.60803986
25 12 2018 23:40 212.1215057 9.075032234 2192.469413 26.38034058
25 12 2018 23:50 296.9511108 10.10663986 2856.644995 25.96607018
26 12 2018 00:00
                 394.4838867 11.23911953 3350.492384 25.70726013
26 12 2018 00:10
                 369.4728088 11.01616955 3278.121125 25.65374947
26 12 2018 00:20
                 342.4653931 10.68914032 3151.278731 26.02655983
26 12 2018 00:30
                 379.8721008 10.95353985 3255.790569 25.36730003
26 12 2018 00:40 346.7128906 10.38255978 3007.92428 24.96637917
26 12 2018 00:50 358.1684875 10.26014996 2943.532434 25.01679039
26 12 2018 01:00 342.6322937 9.605724335 2521.549118 23.52927971
26 12 2018 01:10 294.8649902 8.925094604 2095.818959 22.42606926
26 12 2018 01:20 256.4798889 7.462996006 1238.84487 22.0899601
26 12 2018 01:30 349.6029968 9.448989868 2436.504152 21.64806938
```

```
26 12 2018 01:40 285.7011108 8.502230644 1829.36933 22.08028984
                  303.5371094 10.02715969 2808.873842 21.56461906
26 12 2018 01:50
26 12 2018 02:00
                  252.6273956 9.504170418 2443.197451 22.29236984
26 12 2018 02:10
                  211.0274048 8.466162682 1807.169085 22.10499954
26 12 2018 02:20
                  365.055603 10.63605022 3128.215862 21.6692009
26 12 2018 02:30
                  269.6072998 9.803115845 2663.481637 22.31753922
26 12 2018 02:40
                  285.7875977 10.39361954 3013.534684 22.76568985
                  252.1907959 9.856316566 2699.478367 21.01666069
26 12 2018 02:50
26 12 2018 03:00
                  196.3988953 9.593392372 2512.232043 22.09760094
26 12 2018 03:10
                  124.6903
                              8.98200798 2132.398669 21.21599007
26 12 2018 03:20
                  103.0356979 7.944667816 1498.471175 19.39773941
26 12 2018 03:30
                  161.3099976 8.88910675 2072.762765 14.13029003
26 12 2018 03:40
                  44.83031845 8.044891357 1555.808022 13.19404984
26 12 2018 03:50
                  175.1943054 9.247599602 2304.673182 14.39686966
26 12 2018 04:00
                  186.1797943 10.2065897 2914.007032 14.10791969
26 12 2018 04:10
                  7.553111076 8.458477974 1802.451426 15.71953964
26 12 2018 04:20
                  0
                        7.985352993 1521.620131 20.74972916
26 12 2018 04:30
                  0
                        8.626771927 1906.72572 21.58950043
                  0
26 12 2018 04:40
                        7.306979179 1160.393592 22.83905983
26 12 2018 04:50
                  0
                        6.331510067 741.6453566 25.95808029
                        5.916076183 597.0395038 22.22577095
26 12 2018 05:00
                  0
                        7.079727173 1052.28648 20.77407074
26 12 2018 05:10
                  0
26 12 2018 05:20
                  0
                        8.943694115 2107.757962 21.70075989
26 12 2018 05:30
                  0
                        6.794212818 925.9798489 18.92020035
26 12 2018 05:40
                        7.132998943 1077.001171 15.35130978
26 12 2018 05:50
                        7.303647995 1158.757255 20.30563927
26 12 2018 06:00
                  0
                        7.295771122 1154.894287 19.92036057
26 12 2018 06:10
                  9.581793785 7.95701313 1505.476768 11.88125038
26 12 2018 06:20
                  0
                        7.622766972 1321.942857 19.29787064
                  0
26 12 2018 06:30
                        6.51192522 810.6634893 35.64902115
                        5.907258987 594.1452242 49.81578827
26 12 2018 06:40
                  0
26 12 2018 06:50
                        6.98947382 1011.257328 41.89038086
26 12 2018 07:00
                        6.222611904 701.6984566 46.38237
26 12 2018 07:10
                  0
                        7.528804779 1272.823224 33.54106903
26 12 2018 07:20
                        7.044157028 1035.991126 25.64348984
                  0
26 12 2018 07:30
                  0
                        6.212497234 698.0528538 29.70084953
                        6.379593849 759.691851 25.48105049
26 12 2018 07:40
                  0
26 12 2018 07:50
                        6.32819891 740.4118666 23.70018959
26 12 2018 08:00
                        6.209197044 696.8657494 22.91109085
26 12 2018 08:10
                        6.369089127 755.7278361 24.78170967
26 12 2018 08:20
                        6.249300003 711.3702896 20.30990028
                        7.35172987 1182.530398 11.44225979
26 12 2018 08:30
                  0
26 12 2018 08:40
                        7.055642128 1041.234725 17.21894073
                  0
26 12 2018 08:50
                  0
                        7.482872963 1249.101292 24.00452995
26 12 2018 09:00
                  0
                        8.216981888 1656.592864 35.2038002
26 12 2018 09:10
                        7.946241856 1499.363485 34.58649063
26 12 2018 09:20
                  0
                        7.006188869 1018.777235 44.09064102
26 12 2018 09:30
                        6.814026833 934.4220135 50.90488052
                  0
26 12 2018 09:40
                  0
                        7.065042019 1045.539018 49.09846115
26 12 2018 09:50
                  0
                        6.397812843 766.5954042 46.27407074
26 12 2018 10:00
                  0
                        6.5104599
                                    810.0884895 41.84600067
26 12 2018 10:10
                        7.040131092 1034.15709 38.39881134
26 12 2018 10:20
                        6.523951054 815.3915221 38.94049072
26 12 2018 10:30
                        6.695244789 884.506656 44.33972931
26 12 2018 10:40
                        6.245081902 709.8365486 37.02634048
                  0
26 12 2018 10:50
                  0
                        5.910858154 595.3256775 23.51531029
26 12 2018 11:00
                  0
                        6.274740219 720.6611648 19.56014061
                  0
                       6.094257832 656.2485756 22.22353935
26 12 2018 11:10
                        5.600924015 498.5065246 24.96574974
26 12 2018 11:20
```

```
5.519497871 474.6263374 27.68222046
26 12 2018 11:30
                  0
26 12 2018 11:40
                        5,240253925 397,2894592 34,89677048
                  0
26 12 2018 11:50
                  0
                        5.191477776 384.4700272 39.55632019
26 12 2018 12:00
                  0
                        4.756536007 278.364096 25.12476921
                  0
26 12 2018 12:10
                        5.419415951 446.1143949 31.6085701
26 12 2018 12:20
                        3.846323013 100.3833479 28.78436089
26 12 2018 12:30
                  0
                        4.239486217 168.7994875 30.13002014
                        4.527307987 227.8023586 22.74058914
26 12 2018 12:40
                  0
26 12 2018 12:50
                  0
                        3.445674896 46.15168573 11.81548977
26 12 2018 13:00
                  0
                        3.757857084 86.19921551 14.66983032
26 12 2018 13:10
                        4.435522079 208.4751976 49.63352966
                  0
26 12 2018 13:20
                        4.702591896 266.1572268 49.47938919
26 12 2018 13:30
                        3.996870995 127.4000142 44.52270889
26 12 2018 13:40
                        4.285134792 177.8521205 48.63898087
26 12 2018 13:50
                        4.619878769 247.8143054 59.52256012
                  0
26 12 2018 14:00
                  0
                        6.247258186 710.6276272 56.41934967
26 12 2018 14:10
                  0
                        6.107833862 660.972501 49.70067978
26 12 2018 14:20
                  0
                        4.86677599 303.9327345 48.52042007
                  0
26 12 2018 14:30
                        6.270376205 719.0624589 36.50870895
26 12 2018 14:40
                  0
                        5.572659969 490.1467415 29.80047035
                        4.738464832 274.2529578 26.4074192
26 12 2018 14:50
                  0
26 12 2018 15:00
                        4.36905098 194.7846783 28.68786049
                  0
26 12 2018 15:10
                  0
                        5.264605999 403.764
                                                 30.1971302
26 12 2018 15:20
                  0
                        4.020353794 126.7881666 40.07474899
26 12 2018 15:30
                        4.018010139 126.3510377 38.38187027
26 12 2018 15:40
                        4.006617069 124.2295296 25.9738102
26 12 2018 15:50
                        4.019110203 126.5561865 32.97483826
26 12 2018 16:00
                        4.282052994 177.2375143 44.18136978
                  0
26 12 2018 16:10
                  0
                        4.657158852 256.0265971 40.4839592
26 12 2018 16:20
                  0
                        3.872407913 104.8046986 39.23423004
26 12 2018 16:30
                  0
                        3.642193079 69.54313458 50.72275925
                  0
                        3.395735979 41.19210854 49.37741089
26 12 2018 16:40
26 12 2018 16:50
                  0
                        4.323941231 185.6348157 55.36323929
26 12 2018 17:00
                        4.508172035 223.73145
                                                 42.80231857
                  0
26 12 2018 17:10
                        4.14154911 149.7367791 46.92187881
                  0
26 12 2018 17:20
                  0
                        4.071938992 136.4724653 48.02928925
26 12 2018 17:30
                  0
                        3.287050009 31.77741688 44.92858887
26 12 2018 17:40
                        2.993494034 0
                                           55.38713074
26 12 2018 17:50
                        3.146055937 22.38037691 60.9770813
26 12 2018 18:00
                        2.919131994 0
                                           57.25878906
26 12 2018 18:10
                        2.141547918 0
                                           40.13972855
                  0
26 12 2018 18:20
                                           54.18130112
                  0
                        2.01978302 0
26 12 2018 18:30
                  0
                        2.327033997 0
                                           61.82086945
26 12 2018 18:40
                  0
                        3.005031109 16.16302045 35.16973877
                  0
                        4.439795017 209.3639168 17.59787941
26 12 2018 18:50
26 12 2018 19:00
                        4.07626009 137.2892145 39.41545868
26 12 2018 19:10
                  0
                        3.062824965 18.32615696 40.30453873
26 12 2018 19:20
                  0
                        2.736761093 0
                                           42.58396912
26 12 2018 19:30
                  0
                        2.806459904 0
                                           37.67097855
26 12 2018 19:40
                  0
                        2.398049116 0
                                           20.07216072
26 12 2018 19:50
                  0
                        2.425807953 0
                                           35.74814987
26 12 2018 20:00
                        2.549521923 0
                                           41.85905838
26 12 2018 20:10
                        2.524183035 0
                                           34.4930687
26 12 2018 20:20
                                           21.15757942
                  0
                        2.27294302 0
26 12 2018 20:30
                                           26.81421089
                  0
                        2.44295907
                                     0
26 12 2018 20:40
                  0
                        2.802304983 0
                                           27.0782299
26 12 2018 20:50
                  0
                                           29.07202911
                        2.210933924 0
26 12 2018 21:00
                  0
                        2.124857903 0
                                           12.49666023
26 12 2018 21:10
                  0
                        2.491741896 0
                                           357.3338928
```

```
26 12 2018 21:20 0
                        2.758202076 0
                                          355.8302917
26 12 2018 21:30
                        3.307859898 33.43373405 350.3788147
                  0
26 12 2018 21:40
                        3.658627987 71.77936159 343.1791992
                  0
26 12 2018 21:50
                 0
                        3.466411114 48.3283018 341.4883118
26 12 2018 22:00
                  0
                        3.590104103 62.7411595 341.3330078
                        3.683151007 75.19645605 343.23349
26 12 2018 22:10
26 12 2018 22:20
                  0
                        4.19691515 160.4542356 345.3778076
26 12 2018 22:30
                        4.296521187 180.1273039 342.2431946
                  0
26 12 2018 22:40
                        4.106200218 142.9722849 345.9844971
                  0
26 12 2018 22:50
                        3.093772888 19.70420079 350.9635925
                  0
26 12 2018 23:00
                        2.408966064 0
                                          345.343689
                  0
26 12 2018 23:10
                        2.547614098 0
                                          332.6806946
26 12 2018 23:20
                        3.254508018 29.32620311 325.5584106
26 12 2018 23:30
                        3.116275072 20.8023937 327.8341064
26 12 2018 23:40
                        2.464838982 0
                                          344.3305969
                  0
26 12 2018 23:50
                  0
                        2.618094921 0
                                          359.9422913
27 12 2018 00:00
                 0
                        2.683599949 0
                                          2.246984005
27 12 2018 00:10
                  0
                        2.534603119 0
                                          351,6937866
27 12 2018 00:20
                  0
                        2.439714909 0
                                          348.824585
27 12 2018 00:30
                  0
                        2.379822969 0
                                          356.5794983
27 12 2018 00:40
                        2.96506691 0
                                          9.770687103
                  0
27 12 2018 00:50
                        3.201824903 25.71706025 18.61887932
                  0
27 12 2018 01:00
                  0
                        3.49781394 51.75554359 25.00843048
27 12 2018 01:10
                  0
                        3.586388111 62.2725009 28.12682915
27 12 2018 01:20
                        4.215229988 164.0331954 24.0947094
27 12 2018 01:30
                        4.087559223 139.4290167 22.40139961
27 12 2018 01:40
                        3.991924047 126.4546348 16.60084915
27 12 2018 01:50
                        4.358848095 192.7053368 16.6778698
                  0
27 12 2018 02:00
                        4.581420898 239.4355146 15.95281982
                  0
27 12 2018 02:10
                        4.096752167 141.17436
                  0
                                                11.49094009
                        3.143739939 22.25257164 8.657313347
27 12 2018 02:20
                  0
27 12 2018 02:30
                  0
                        3.624784946 67.22161663 358.8161926
27 12 2018 02:40
                        4.426980019 206.7017211 348.6736145
27 12 2018 02:50
                        4.431074142 207.5512043 0.746172428
                  0
27 12 2018 03:00
                        3.841984987 99.65861709 13.73139
                  0
27 12 2018 03:10
                        4.070033073 136.1124945 345.9674072
                  0
27 12 2018 03:20
                  0
                        2.568562031 0
                                          336.9212952
27 12 2018 03:30
                  0
                        2.363256931 0
                                          337.5299988
27 12 2018 03:40
                        2.799137115 0
                                          357.7338867
27 12 2018 03:50
                        2.64308095 0
                                          355.7672119
                        2.33364892 0
27 12 2018 04:00
                                          333.593689
                  0
27 12 2018 04:10
                        2.396183968 0
                                          357.9614868
                  0
27 12 2018 04:20
                                          4.60840416
                  0
                        2.475151062 0
27 12 2018 04:30
                  0
                        3.53532505 56.05623437 14.7791996
27 12 2018 04:40
                        3.462584972 47.92150765 15.97527981
                  0
27 12 2018 04:50
                  0
                        3.723145962 80.97587734 17.90291977
27 12 2018 05:00
                  0
                        4.527337074 227.8085634 24.17090034
27 12 2018 05:10
                        4.472939014 216.2936675 39.89181137
                  0
27 12 2018 05:20
                  0
                        3.840734005 99.45018153 33.95954895
27 12 2018 05:30
                  0
                        2.607497931 0
                                          34.34117889
27 12 2018 05:40
                  0
                        2.183239937 0
                                          31.73207092
27 12 2018 05:50
                                          12.76218987
                        2.321223974 0
27 12 2018 06:00
                        1.623816967 0
                                          8.975563049
27 12 2018 06:10
                        2.250844002 0
                                          358.0900879
                  0
27 12 2018 06:20
                                          343.3255005
                  0
                        2.296916962 0
27 12 2018 06:30
                  0
                        1.740041018 0
                                          21.33316994
27 12 2018 06:40
                  0
                        1.912894964 0
                                          19.13920021
27 12 2018 06:50
                 0
                        2.416224003 0
                                          7.321165085
                        3.382249117 39.92112273 346.8146973
27 12 2018 07:00 0
```

```
27 12 2018 07:10
                        3.158010006 23.05369315 335.2424011
                  0
27 12 2018 07:20
                  0
                        2.953180075 0
                                          324.4621887
27 12 2018 07:30
                  0
                        2.715595961 0
                                           329.5555115
27 12 2018 07:40
                  0
                        2.481074095 0
                                           331.8804016
                  0
27 12 2018 07:50
                        2.619194984 0
                                           333.5284119
27 12 2018 08:00
                        3.08028698 19.08486328 333.093811
27 12 2018 08:10
                  0
                        3.139710903 22.03227982 332.2988892
27 12 2018 08:20
                        3.126732111 21.34030979 329.1372986
                  0
27 12 2018 08:30
                  0
                        3.526391983 55.01162504 318.7235107
27 12 2018 08:40
                        3.321871042 34.58795078 309.0708923
                  0
27 12 2018 08:50
                        2.804963112 0
                                           310.9179077
                  0
27 12 2018 09:00
                        3.963798046 121.1540714 323.0898132
27 12 2018 09:10
                        3.161714077 23.26696588 310.8594055
27 12 2018 09:20
                        2.981770039 0
                                           307.1809082
27 12 2018 09:30
                        3.652261019 70.90790753 313.5990906
                  0
27 12 2018 09:40
                  0
                        3.492851019 51.20340275 317.7437134
27 12 2018 09:50
                  0
                        4.192673206 159.6277179 317.5552979
27 12 2018 10:00
                  0
                        3.218878984 26.83676829 305.3009033
                  0
                        2.685251951 0
27 12 2018 10:10
                                          292.4757996
                        3.718805075 80.33622122 289.7554932
27 12 2018 10:20
                  0
27 12 2018 10:30
                        4.034699917 129.4693075 318.9556885
                  0
27 12 2018 10:40
                        4.552093983 233.108404 314.5174866
                  0
27 12 2018 10:50
                  0
                        3.58641696 62.27613077 314.3158875
27 12 2018 11:00
                  0
                        3.471081018 48.82797867 313.6314087
27 12 2018 11:10
                        3.331258059 35.37880998 324.1039124
27 12 2018 11:20
                        3.297444105 32.59605102 328.968689
27 12 2018 11:30
                        3.557002068 58.64417042 335.416687
27 12 2018 11:40
                        3.023209095 16.78578401 324.4674072
                  0
27 12 2018 11:50
                  0
                        2.95390296 0
                                           313.1225891
27 12 2018 12:00
                  0
                        2.908183098 0
                                           326.8710022
27 12 2018 12:10
                  0
                        2.97802496 0
                                           329.1600037
27 12 2018 12:20
                  0
                        2.879631042 0
                                           334.6225891
27 12 2018 12:30
                        4.450781822 211.6539133 346.6593018
                  0
27 12 2018 12:40
                        4.838181019 297.2185142 338.1480103
                  0
                        4.371661186 195.3175687 337.0752869
27 12 2018 12:50
                  0
                        6.085410118 653.1805173 342.6650085
27 12 2018 13:00
                  0
27 12 2018 13:10
                  0
                        5.717712879 533.8643304 351.8544922
27 12 2018 13:20
                        4.533943176 229.2190964 348.3619995
27 12 2018 13:30
                        4.411137104 203.4235874 352.9985046
27 12 2018 13:40
                        5.557690144 485.7496198 355.1435852
27 12 2018 13:50
                        6.178699017 685.9505992 350.1697998
27 12 2018 14:00
                        6.959488869 997.8559131 354.4200134
                  0
27 12 2018 14:10
                        5.926341057 600.4193053 3.963013887
                  0
27 12 2018 14:20
                  0
                        6.083809853 652.6264978 18.24790001
27 12 2018 14:30
                  0
                        4.334266186 187.7192149 25.25839043
27 12 2018 14:40
                        4.098947048 141.5916609 27.92856979
27 12 2018 14:50
                  0
                        4.157334805 152.7770899 20.67104912
27 12 2018 15:00
                        4.151350975 151.6231784 28.88134956
                  0
27 12 2018 15:10
                  0
                        3.591608047 62.93146407 27.0463295
27 12 2018 15:20
                  0
                        3.998647928 127.7405485 33.18712997
27 12 2018 15:30
                  0
                        4.322563171 185.3570526 37.91691971
27 12 2018 15:40
                        3.897289991 109.123626 33.87163162
27 12 2018 15:50
                        3.348500013 36.86818117 24.66142082
27 12 2018 16:00
                        3.528373003 55.24217852 24.80414963
27 12 2018 16:10
                        3.731633902 82.23533813 18.41662025
                  0
27 12 2018 16:20
                  0
                        4.262038231 173.2581643 32.48020935
27 12 2018 16:30
                  0
                        5.380541801 435.2829798 28.29153061
                  0
                        4.728354931 271.962632 27.54301071
27 12 2018 16:40
                        5.333432198 422.3353537 22.80352974
27 12 2018 16:50
```

```
27 12 2018 17:00
                        5.135919094 370.1058282 26.41595078
                  0
27 12 2018 17:10
                        4.109864235 143.6706691 21.53388023
                  0
27 12 2018 17:20
                        4.331917763 187.2446049 12.45133972
                  0
27 12 2018 17:30
                  0
                        3.607132912 64.91708297 18.54582024
27 12 2018 17:40
                  0
                        4.33501482 187.8705753 11.23351002
27 12 2018 17:50
                        4.399415016 201.0073552 8.090555191
27 12 2018 18:00
                  0
                        4.315976143 184.0307878 20.34522057
                        3.713972092 79.62759875 26.22513008
27 12 2018 18:10
                  0
27 12 2018 18:20
                  0
                        3.973954916 123.0536116 12.73499966
27 12 2018 18:30
                        3.945060015 117.692995 2.091300011
                  0
27 12 2018 18:40
                        3.195672035 25.32450876 5.286382198
                  Θ
27 12 2018 18:50
                        3.53640008 56.18280619 359.4855957
27 12 2018 19:00
                        3.177190065 24.18178763 359.6115112
27 12 2018 19:10
                        3.297130108 32.57106753 354.8718872
27 12 2018 19:20
                        3.874962091 105.2434798 351.9678955
                  0
27 12 2018 19:30
                  0
                        3.835625887 98.60167821 6.698526859
27 12 2018 19:40
                  0
                        2.882460117 0
                                           356.6617126
27 12 2018 19:50
                  0
                        2.697036982 0
                                           5.666049004
27 12 2018 20:00
                  0
                        2.585169077 0
                                           2.101258993
27 12 2018 20:10
                  0
                        2.530930996 0
                                           354.8544006
27 12 2018 20:20
                        2.452698946 0
                                           353.967804
                  0
27 12 2018 20:30
                        3.390974045 40.74002573 339.5985107
                  0
27 12 2018 20:40
                  0
                        2.787508965 0
                                           344.4993896
27 12 2018 20:50
                  0
                        2,490272045 0
                                           356.5795898
27 12 2018 21:00
                        2.279438019 0
                                           355.2131958
27 12 2018 21:10
                        3.101093054 20.05256216 348.7348022
27 12 2018 21:20
                        3.165235996 23.47178664 343.4511108
27 12 2018 21:30
                        2.835167885 0
                                           346.3695984
                  0
27 12 2018 21:40
                  0
                        2.310046911 0
                                           1.861608982
27 12 2018 21:50
                  0
                        2.413835049 0
                                           12.34162045
27 12 2018 22:00
                  0
                        2.235080957 0
                                           11.54872036
27 12 2018 22:10
                  0
                        2.230103016 0
                                           7.235816956
27 12 2018 22:20
                  0
                        2.37262702 0
                                           19.0167408
27 12 2018 22:30
                        2.443649054 0
                                           16.9116497
                  0
27 12 2018 22:40
                        2.401232004 0
                  0
                                           10.1876297
27 12 2018 22:50
                        2.183516979 0
                                           0.536107123
                  0
27 12 2018 23:00
                  0
                        2.440012932 0
                                           16.63599014
                                           22.66135979
27 12 2018 23:10
                        2.411612034 0
27 12 2018 23:20
                        2.114938021 0
                                           17.91949081
27 12 2018 23:30
                        2.14846611 0
                                           7.878721237
27 12 2018 23:40
                        2.510921955 0
                                           1.344045043
                  0
27 12 2018 23:50
                        3.632956028 68.30525956 27.61338997
                  0
28 12 2018 00:00
                        3.804169893 93.46857396 33.69865036
                  0
28 12 2018 00:10
                  0
                        3.332964897 35.52412653 21.48851013
                  0
                        4.82416296 293.9482142 40.76773834
28 12 2018 00:20
28 12 2018 00:30
                        3.604789972 64.61495196 34.50167847
28 12 2018 00:40
                  0
                        2.510965109 0
                                           31.26544952
28 12 2018 00:50
                                           50.38061142
                  0
                        2.994649887 0
                        3.289606094 31.97713021 56.22217941
28 12 2018 01:00
                  0
                        3.66178894 72.21441423 59.92639923
28 12 2018 01:10
                  0
28 12 2018 01:20
                        2.851161003 0
                                           46.55207062
28 12 2018 01:30
                        3.227380037 27.4122957 59.45600128
28 12 2018 01:40
                        3.449673891 46.56609318 61.04204941
28 12 2018 01:50
                        3.368613958 38.66574669 60.83279037
28 12 2018 02:00
                        3.202366114 25.75187915 60.31591034
                  0
28 12 2018 02:10
                  0
                        2.430823088 0
                                           54.54833984
28 12 2018 02:20
                  0
                        2.741627932 0
                                           61.5862999
28 12 2018 02:30
                        3.013456106 16.44508074 68.54250336
                  0
28 12 2018 02:40
                  0
                        3.359028101 37.80099341 77.96877289
```

```
28 12 2018 02:50
                        3.40752697 42.32712153 72.44024658
                  0
28 12 2018 03:00
                        3.25357604 29.25849794 66.88407898
                  0
28 12 2018 03:10
                        2,689166069 0
                  0
                                           52.23693085
28 12 2018 03:20
                  0
                        2.797727108 0
                                           54.13822174
28 12 2018 03:30
                  0
                        2.623217106 0
                                           50.43994141
28 12 2018 03:40
                        2.969686985 0
                                           53.11233902
28 12 2018 03:50
                  0
                        3.408915997 42.46229527 61.82281876
28 12 2018 04:00
                  0
                        3.402199984 41.81158562 64.5251236
                        3.14921689 22.55619492 68.2661438
28 12 2018 04:10
                  0
28 12 2018 04:20
                  0
                        3.106792927 20.32975199 62.16566086
28 12 2018 04:30
                        2.890657902 0
                  0
                                           57.71910095
28 12 2018 04:40
                        3.067718029 18.53383545 57.54726028
28 12 2018 04:50
                        3.667761087 73.04074439 60.20589066
28 12 2018 05:00
                        3.422923088 43.84265389 61.85816956
28 12 2018 05:10
                        3.67592001 74.17886906 77.50164032
                  0
28 12 2018 05:20
                  0
                        3.064660072 18.40359631 76.59375
28 12 2018 05:30
                  0
                        3.120990038 21.04276836 69.2961731
28 12 2018 05:40
                  0
                        3.763777971 87.10943823 66.11593628
                        3,613059998 65,68532477 60,87445068
28 12 2018 05:50
                        3.548913956 57.66976904 63.61185074
28 12 2018 06:00
                  0
28 12 2018 06:10
                        3.308231115 33.46390933 67.0139389
                  0
                        3.154938936 22.87853188 70.5800705
28 12 2018 06:20
                  0
28 12 2018 06:30
                        3.53460598 55.97167566 79.13585663
28 12 2018 06:40
                  0
                        3.962235928 120.8633881 87.19893646
28 12 2018 06:50
                        3.744610071 84.18305493 90.7649231
28 12 2018 07:00
                        3.322819948 34.66725586 94.89312744
28 12 2018 07:10
                        3.08455205 19.27758952 95.8948822
28 12 2018 07:20
                        3.617959023 66.324557
                                                 98.29144287
                  0
28 12 2018 07:30
                  0
                        3.679586887 74.69384739 99.68733978
28 12 2018 07:40
                        3.662564039 72.32133774 110.9147034
                  0
                        3.598896027 63.85878891 118.1578979
28 12 2018 07:50
                  0
28 12 2018 08:00
                  0
                        3.845284939 100.2096483 143.4248962
28 12 2018 08:10
                        3.536567926 56.20258482 146.6459045
28 12 2018 08:20
                        3.328660011 35.1585126 159.3865051
                  0
28 12 2018 08:30
                        2.755245924 0
                                           159.9322968
                  0
28 12 2018 08:40
                        2.005537987 0
                                           152.7505951
                  0
28 12 2018 08:50
                  0
                        1.902155995 0
                                           158.6311951
                        1.764860988 0
28 12 2018 09:00
                                           134.9508057
28 12 2018 09:10
                        1.738862038 0
                                           116.6337967
28 12 2018 09:20
                        1.437420011 0
                                           86.5770874
28 12 2018 09:30
                        1.862460017 0
                                           91.89762878
                  0
28 12 2018 09:40
                  0
                        1.972097039 0
                                           99.35714722
28 12 2018 09:50
                        2.066406012 0
                  0
                                           111.1794968
28 12 2018 10:00
                  0
                        1.430539966 0
                                           98.85907745
28 12 2018 10:10
                  0
                        1.347561002 0
                                           81.1841507
28 12 2018 10:20
                        1.456514955 0
                                           77.84390259
28 12 2018 10:30
                  0
                        2.048475981 0
                                           99.03579712
28 12 2018 10:40
                                           70.154953
                  0
                        1.403818965 0
28 12 2018 10:50
                  0
                        1.999701023 0
                                           108.419899
28 12 2018 11:00
                  0
                        1.932834029 0
                                           135.1246948
28 12 2018 11:10
                  0
                        1.341663957 0
                                           126.8445969
28 12 2018 11:20
                        1.753497958 0
                                           123.7751007
28 12 2018 11:30
                        2.359400988 0
                                           92.0952301
28 12 2018 11:40
                        2.38527894 0
                                           66.92785645
28 12 2018 11:50
                        2.122864008 0
                                           57.66051102
                  0
28 12 2018 12:00
                  0
                        1.780958056 0
                                           61.84621048
28 12 2018 12:10
                  0
                        1.488106012 0
                                           45.35134888
28 12 2018 12:20
                  0
                        2.042629957 0
                                           104.3307037
28 12 2018 12:30
                        2.477612972 0
                                           145.4862061
```

```
28 12 2018 12:40 0
                       1.975834966 0
                                         131.3511963
28 12 2018 12:50
                 0
                       1.98021102 0
                                         111.8610001
28 12 2018 13:00
                       1.435330033 0
                                         165.4255981
                 0
28 12 2018 13:10 0
                       1.744474053 0
                                         171.5289001
                       2.159607887 0
28 12 2018 13:20 0
                                         175.2738953
28 12 2018 13:30
                 0
                       1.96311605 0
                                         166.490799
28 12 2018 13:40
                 0
                       2.449774981 0
                                         190.7812042
28 12 2018 13:50
                 0
                       2.925652027 0
                                         182.8746948
28 12 2018 14:00
                 0
                       2.702192068 0
                                         173.5993958
28 12 2018 14:10
                 0
                       3.184254885 24.61214531 174.5559998
28 12 2018 14:20
                 0
                       2.799407959 0
                                         175.9463959
28 12 2018 14:30 0
                       2.968378067 0
                                         171.4230042
28 12 2018 14:40 0
                       2.972249031 0
                                         162.9414063
28 12 2018 14:50 0
                       3.317692995 34.24048297 163.6506958
28 12 2018 15:00 0
                       3.720720053 80.61803324 164.7835999
28 12 2018 15:10 0
                       4.464731216 214.5715737 172.3327026
28 12 2018 15:20 78.72039795 3.963680983 121.1322743 169.8919067
28 12 2018 15:30
                 165.0836945 4.424488068 206.1851436 169.2917938
28 12 2018 15:40
                 195.7684021 4.719769001 270.0229545 171.4205017
28 12 2018 15:50
                 187.0066986 4.572289944 237.4598298 174.6376038
28 12 2018 16:00
                 205.5682068 4.593149185 241.9808514 183.4571991
28 12 2018 16:10 239.1829071 4.696798801 264.8579156 186.0944977
28 12 2018 16:20
                 165.3679962 4.378442764 196.7038526 188.979599
28 12 2018 16:30
                 144.2510071 4.187246799 158.57173
                                                     191,2393036
28 12 2018 16:40 274.4949036 4.896152973 310.8916685 188.4837036
28 12 2018 16:50 418.6777954 5.678365231 521.8035885 180.7926025
28 12 2018 17:00 548.7891846 5.796690941 558.5369038 182.222702
28 12 2018 17:10 637.1392822 6.066730022 646.7304229 182.8171997
28 12 2018 17:20 743.8317871 6.407009125 770.0938265 186.3560944
28 12 2018 17:30 682.1818237 6.447216034 785.4979886 188.7881012
28 12 2018 17:40 645.0565796 6.358447075 751.7242412 188.9756012
28 12 2018 17:50 496.1932983 5.923213959 599.3885028 194.4508057
28 12 2018 18:00
                 560.8239746 6.112817764 662.7116448 193.969101
28 12 2018 18:10
                 568.4869995 6.220253944 700.8476026 194.167099
28 12 2018 18:20 549.6143188 6.213707924 698.4886412 202.5830994
28 12 2018 18:30 495.5108948 6.046003819 639.6174548 205.2033997
                 584.9387207 6.132671833 669.666116 204.1887054
28 12 2018 18:40
28 12 2018 18:50
                 740.1193848 6.546134949 824.1555966 202.5207062
28 12 2018 19:00 877.4970703 6.837337017 944.4139523 204.8513031
28 12 2018 19:10 815.7860718 6.662803173 871.1601242 206.7057953
28 12 2018 19:20 685.284729 6.357573986 751.396327 206.0469971
28 12 2018 19:30 627.5870972 6.112654209 662.6545297 206.0870056
28 12 2018 19:40 609.8441772 6.202157021 694.3372994 202.8117065
28 12 2018 19:50 803.4296265 6.907996178 975.1040191 195.6275024
28 12 2018 20:00
                 773.7495728 6.847136974 948.6342364 190.0628967
28 12 2018 20:10 609.2910156 6.33275795 742.1105327 191.4107971
28 12 2018 20:20 450.2630005 5.904182911 593.1374124 195.4028015
28 12 2018 20:30
                 343.091095 5.441442013 452.3113215 200.2745972
28 12 2018 20:40 287.2600098 4.980619907 331.2527885 209.9535065
28 12 2018 20:50
                 165.4438934 4.041038036 130.6567873 220.0612946
28 12 2018 21:00
                 161.6074982 4.043803215 131.1754279 222.5083008
28 12 2018 21:10
                 135.9846039 3.972244978 122.7326631 229.6967926
28 12 2018 21:20
                 170.8105011 4.250673771 171.0080309 230.3345032
28 12 2018 21:30 201.3455963 4.46115303 213.8220701 227.5301056
28 12 2018 21:40
                 281.4859924 4.969677925 328.5852632 230.4221954
28 12 2018 21:50 248.101593 4.713726997 268.6609478 233.7960052
28 12 2018 22:00 207.5140076 4.494615078 220.8607631 241.1369934
28 12 2018 22:10 151.138504 4.283053875 177.4370658 239.7062073
28 12 2018 22:20 138.8789063 4.232316017 167.3874158 235.857193
```

```
28 12 2018 22:30 272.6187134 5.012472153 339.0695154 230.5525055
28 12 2018 22:40
                 350.0927124 5.293322086 411.4632083 226.767395
28 12 2018 22:50
                 346.5983887 5.28339386 408.7933784 227.3632965
28 12 2018 23:00 287.8067017 5.006224155 337.5301418 221.4165039
28 12 2018 23:10 238.7129974 4.662197113 257.143353 223.4989014
28 12 2018 23:20 182.1038055 4.389224052 198.91307
                                                     220.5966034
28 12 2018 23:30
                 172.8321075 4.399662018 201.0581881 217.5211945
                 144.5532074 4.145938873 150.5810243 215.6038055
28 12 2018 23:40
28 12 2018 23:50
                 209.6092072 4.520425797 226.3357127 214.3771973
29 12 2018 00:00 444.1068115 5.690546989 525.521252 206.0540924
29 12 2018 00:10 506.8830872 6.023519993 631.9532077 210.6822968
29 12 2018 00:20 375.2991028 5.402947903 441.5095513 213.2792053
29 12 2018 00:30 442.2546997 5.731461048 538.1144072 207.2498932
29 12 2018 00:40 481.7333984 5.853609085 576.7096348 206.8625946
29 12 2018 00:50 532.5076904 6.11867094 664.7575128 205.7245026
29 12 2018 01:00 508.0223999 6.003344059 625.1216839 212.4268036
29 12 2018 01:10 478.6740112 5.676403999 521.2064111 221.1192932
29 12 2018 01:20 618.8522949 6.277328014 721.6101425 215.3518066
29 12 2018 01:30
                 724.0540161 6.718500137 894.1488963 210.5950012
29 12 2018 01:40
                 727.2385254 6.455677986 788.7625676 216.1123047
29 12 2018 01:50
                 886.9282837 6.910900116 976.3783756 214.2707977
29 12 2018 02:00
                 824.5300293 6.635716915 860.1094657 216.7814026
29 12 2018 02:10
                 808.0128784 6.501791
                                         806.691649 215.0673981
29 12 2018 02:20 647.6646729 6.018359184 630.2016263 217.3952942
29 12 2018 02:30 524.5302734 5.591383934 495.6763427 221.8088074
29 12 2018 02:40 705.8209839 6.220505238 700.9382516 221.3923035
29 12 2018 02:50 634.6546021 6.113344193 662.8954981 216.7966003
29 12 2018 03:00 502.4215088 5.586421013 494.2074494 222.0043945
29 12 2018 03:10 381.4313965 5.164944172 377.5787136 222.9279022
29 12 2018 03:20 443.9630127 5.386787891 437.0142791 224.4707947
29 12 2018 03:30 411.2054138 5.382454872 435.8128813 228.8459015
29 12 2018 03:40 272.875885 4.867519855 304.108177 217.9747009
29 12 2018 03:50 185.6094971 4.199612141 160.9801989 227.7953033
29 12 2018 04:00 191.6430969 4.413783073 203.9700763 228.9004059
29 12 2018 04:10 408.7944031 5.35591507 428.4903572 218.1499023
                 293.1867065 4.734394073 273.329927 213.7082977
29 12 2018 04:20
29 12 2018 04:30
                 290.1434021 4.860575199 302.4718076 207.6092072
29 12 2018 04:40
                 407.6863098 5.313868046 417.0150526 213.3226013
29 12 2018 04:50
                 396.2312012 5.211905956 389.8150028 218.8305969
29 12 2018 05:00
                 594.0039063 5.812094212 563.4221361 219.6918945
29 12 2018 05:10 561.208313 5.850343227 575.6579216 226.1564941
29 12 2018 05:20 580.005188 5.893359184 589.5991332 225.3119049
29 12 2018 05:30 518.2982178 5.704905987 529.9220686 224.2953949
29 12 2018 05:40 427.6818848 5.355731964 428.4400516 229.5655975
29 12 2018 05:50
                 395.9195862 5.142621994 371.8255376 228.7330933
29 12 2018 06:00
                 417.493988 5.177293777 380.7790009 226.9873962
29 12 2018 06:10 482.0197144 5.509098053 471.6209286 224.9828949
29 12 2018 06:20 485.2304993 5.553068161 484.3962482 232.0157013
29 12 2018 06:30 505.9920959 5.57131815 489.7517448 228.8307037
29 12 2018 06:40 830.7598267 6.547873974 824.8449502 219.7662964
29 12 2018 06:50
                 1192.858032 7.46186018 1238.260614 215.0904999
29 12 2018 07:00
                 1143.850952 7.055101871 1040.987685 218.0856018
29 12 2018 07:10
                 1104.477051 6.987582207 1010.408544 221.854599
29 12 2018 07:20
                 1515.280029 7.935919762 1493.516833 226.3289032
29 12 2018 07:30
                 1702.887939 8.079545975 1575.873181 226.0737
29 12 2018 07:40
                 1526.785034 7.734099865 1381.603381 227.0016937
29 12 2018 07:50
                 114.4944992 7.521370888 1268.986952 232.5480042
29 12 2018 08:00 0
                    7.751029015 1390.808864 238.9143982
29 12 2018 08:10 0
                       8.069631577 1570.120458 232.9246979
```

```
29 12 2018 08:20
                        8.443056107 1792.997239 226.5079041
                  0
                        8.727371216 1969.940294 219.4237061
29 12 2018 08:30
                  0
29 12 2018 08:40
                  0
                        7,673556805 1348,968162 240,3278046
29 12 2018 08:50
                  0
                        7.257124901 1136.068671 225.0950012
                  0
29 12 2018 09:00
                        7.3177948
                                     1165.717348 234.3408051
29 12 2018 09:10
                        6.954493046 995.6340657 245.9785004
29 12 2018 09:20
                  0
                        8.050056458 1558.790998 248.0084991
                        8.726451874 1969.359867 255.0513
29 12 2018 09:30
                  0
29 12 2018 09:40
                  0
                        8.495932579 1825.485977 253.2870941
29 12 2018 09:50
                        7.752961159 1391.861688 257.5870972
                  0
29 12 2018 10:00
                        7.222688198 1119.469782 257.6138916
                  0
29 12 2018 10:10
                        7.616713047 1318.743444 255.690506
29 12 2018 10:20
                        6.82627821 939.6654473 254.6990051
29 12 2018 10:30
                        7.589630127 1304.488383 260.4616089
29 12 2018 10:40
                        7.085422993 1054.911142 259.1188049
                  0
29 12 2018 10:50
                  0
                        7.03151083 1030.2371
                                                 263.6777039
29 12 2018 11:00
                  0
                        7.736657143 1382.991723 266.1885071
29 12 2018 11:10
                  0
                        7.013906956 1022.261501 261.7117004
29 12 2018 11:20
                        6.491387844 802.626268 257.8057861
29 12 2018 11:30
                  0
                        7.190873146 1104.280044 263.5215149
                        7.615354061 1318.025886 265.7279968
29 12 2018 11:40
                  0
29 12 2018 11:50
                        7.357274055 1185.293107 268.1408081
                  0
29 12 2018 12:00
                  0
                        6.425178051 777.0327918 263.2724915
29 12 2018 12:10
                  0
                        6.601212025 846.1533912 264.6720886
29 12 2018 12:20
                        7.001118183 1016.492244 274.5683899
29 12 2018 12:30
                        7.232337952 1124.104475 274.2410889
29 12 2018 12:40
                        7.389655113 1201.518685 277.5552979
29 12 2018 12:50
                        6.717961788 893.9249724 273.789093
                  0
29 12 2018 13:00
                  0
                        6.464620113 792.2209682 269.9526978
                        7.647090912 1334.844912 278.4047852
29 12 2018 13:10
                  0
                        6.875020027 960.7054815 275.5293884
29 12 2018 13:20
                  0
29 12 2018 13:30
                  0
                        6.55941391 829.427996 267.1494141
29 12 2018 13:40
                        6.118774891 664.7938798 265.4458008
29 12 2018 13:50
                  0
                        5.558371067 485.9491716 266.9223022
                        4.870780945 304.877781 257.5140991
29 12 2018 14:00
                  0
29 12 2018 14:10
                  0
                        4.641666889 252.6030498 266.8597107
29 12 2018 14:20
                  0
                        4.36005497 192.9509953 257.1164856
29 12 2018 14:30
                  0
                        4.732447147 272.8888637 262.1997986
29 12 2018 14:40
                        4.365344048 194.0285377 264.5940857
                  3.731596947 4.399477959 201.0203084 268.9975891
29 12 2018 14:50
                  0.638265312 4.08313179 138.5898509 271.7980957
29 12 2018 15:00
29 12 2018 15:10
                        4.508152962 223.7274035 279.5293884
                  0
29 12 2018 15:20
                        4.242603779 169.4142758 284.1199951
                  0
29 12 2018 15:30
                  0
                        4.146423817 150.6743468 296.5516052
29 12 2018 15:40
                  0
                        4.251974106 171.2651526 295.2882996
29 12 2018 15:50
                        3.485383034 50.37999224 286.241394
29 12 2018 16:00
                  0
                        3.143421888 22.23508747 288.3512878
29 12 2018 16:10
                        3.066543102 18.48361803 301.8547058
                  0
29 12 2018 16:20
                  0
                        3.205019951 25.92329285 297.408905
29 12 2018 16:30
                  0
                        3.338812113 36.02547943 295.124115
29 12 2018 16:40
                        3.379904032 39.70309488 304.5393066
29 12 2018 16:50
                        3.243216991 28.51530412 301.8962097
29 12 2018 17:00
                        3.361704111 38.04092067 311.8837891
29 12 2018 17:10
                        4.271495819 175.135898 303.0450134
29 12 2018 17:20
                        3.632580996 68.25528913 313.0029907
                  0
29 12 2018 17:30
                  0
                        4.271276951 175.0923902 329.052887
29 12 2018 17:40
                  0
                        4.230472088 167.0247074 330.1557007
29 12 2018 17:50
                  0
                        3.820940018 96.18548158 341.0835876
                        3.148729086 22.52895803 315.6810913
29 12 2018 18:00
```

```
3.189378977 24.92927901 323.8429871
29 12 2018 18:10
                  0
29 12 2018 18:20
                        3.836508989 98.7480708 321.4895935
                  0
29 12 2018 18:30
                  0
                        3.250938892 29.06767077 308.3013916
29 12 2018 18:40
                  0
                       4.235037804 167.923122 311.9473877
                  0
29 12 2018 18:50
                        3.495944977 51.54715286 324.1072998
29 12 2018 19:00
                        4.248448849 170.5682901 341.3548889
29 12 2018 19:10
                  0
                        4.454421997 212.4141938 328.1572876
29 12 2018 19:20
                  0
                        4.769389153 281.3016931 322.1191101
29 12 2018 19:30
                  0
                        5.035636902 344.8029056 320.5679932
29 12 2018 19:40
                  25.41494942 6.81060791 932.9619661 330.8046875
29 12 2018 19:50
                  48.65140915 6.766983032 914.4541875 338.0107117
29 12 2018 20:00
                  66.39788818 7.675438881 1349.975859 343.9880981
29 12 2018 20:10
                  83.70852661 7.482070923 1248.68627 345.3156128
29 12 2018 20:20
                  133.1356964 8.360022545 1742.409633 350.6430969
29 12 2018 20:30
                129.767395 8.111866951 1594.694263 1.767529011
29 12 2018 20:40
                 262.1516113 10.26692009 2947.205252 5.318912983
                 231.5343933 9.404957771 2407.62337 8.096040726
29 12 2018 20:50
29 12 2018 21:00
                 133.9450989 8.911466599 2087.080973 19.28403091
29 12 2018 21:10
                 0
                        10.37767029 3005.433115 30.15243912
29 12 2018 21:20
                        10.08115005 2841.535369 24.51885986
29 12 2018 21:30
                  110.3447037 8.384227753 1757.100471 20.1466198
                  72.90104675 7.646958828 1334.774648 25.75935936
29 12 2018 21:40
                  59.99045944 7.295495987 1154.759515 25.72854996
29 12 2018 21:50
29 12 2018 22:00
                  28.01482964 6.778467178 919.3044161 21.63612938
29 12 2018 22:10
                  194.0323944 8.305007935 1709.197536 24.02288055
29 12 2018 22:20
                 201.8547058 8.488331795 1820.803194 25.01771927
29 12 2018 22:30
                 85.0735321 7.392216206 1202.808589 24.69129944
                 72.44271088 7.198320866 1107.823445 26.83736992
29 12 2018 22:40
29 12 2018 22:50
                 9.269182205 6.678700924 877.6853147 32.08993912
29 12 2018 23:00
                 0
                        6.394506931 765.3400364 36.25299072
29 12 2018 23:10
                  58.5655098 7.818377018 1427.767684 32.23799896
29 12 2018 23:20
                  60.55276108 7.782952785 1408.261175 33.12712097
29 12 2018 23:30
                  62.69454956 8.002206802 1531.260701 31.99930954
29 12 2018 23:40
                  92.3615036 8.609997749 1896.246296 30.94345093
                  31.89502907 7.83141613 1434.984411 30.60219955
29 12 2018 23:50
30 12 2018 00:00
                  1.735934019 7.294915199 1154.475058 30.96434975
30 12 2018 00:10
                        6.091262817 655.2090796 31.09218025
30 12 2018 00:20
                  0
                        5.796831131 558.5812571 26.99538994
30 12 2018 00:30
                        4.402968884 201.7390747 26.26979065
30 12 2018 00:40
                        5.929699898 601.5276492 31.33931923
30 12 2018 00:50
                        4.720608234 270.2123304 29.46763992
30 12 2018 01:00
                        6.462654114 791.4598545 35.73649979
                  0
30 12 2018 01:10
                        6.633296013 859.1258707 31.05912971
                  0
30 12 2018 01:20
                  0
                        6.430617809 779.1173469 29.27914047
30 12 2018 01:30
                  0
                        6.037378788 636.6709811 27.15098
                        6.406067848 769.7353242 21.12719917
30 12 2018 01:40
30 12 2018 01:50
                  0
                        6.068901062 647.4781516 23.24262047
30 12 2018 02:00
                        5.850769997 575.7952927 18.58459091
                  0
30 12 2018 02:10
                  0
                        6.131731987 669.3359573 24.35555077
30 12 2018 02:20
                  0
                        5.241178036 397.5342457 22.58247948
30 12 2018 02:30
                        4.954984188 325.0172287 11.56690979
30 12 2018 02:40
                        6.185835838 688.4959163 14.27686977
30 12 2018 02:50
                        5.219294071 391.7565742 16.18769073
30 12 2018 03:00
                        5.114045143 364.5188663 14.41650009
                  0
30 12 2018 03:10
                        3.78243494 90.01427296 4.69315815
                  0
30 12 2018 03:20
                  0
                        5.639882088 510.1541763 359.6564941
30 12 2018 03:30
                  0
                       5.294487953 411.7772768 16.02606964
30 12 2018 03:40
                 0
                     5.114218235 364.5629268 21.61557961
30 12 2018 03:50 0
                    4.130193233 147.5571333 18.9701004
```

```
30 12 2018 04:00
                         3.931617975 115.2447393 2.902151108
                  0
30 12 2018 04:10
                         3,276395082 30,95618197 9,824861526
                  0
30 12 2018 04:20
                         3,459127903 47,5559674 22,12803078
                  0
30 12 2018 04:30
                  0
                         4.15356493 152.0499095 41.20681
                  0
30 12 2018 04:40
                         3.934175014 115.7082371 41.00041962
30 12 2018 04:50
                         3.177043915 24.17296909 33.11180115
30 12 2018 05:00
                  0
                         3.237467051 28.11019363 37.80199051
30 12 2018 05:10
                         3.663070917 72.39131264 44.58744812
                  0
30 12 2018 05:20
                  0
                         3.328871965 35.17644446 46.89619827
30 12 2018 05:30
                         3.486210108 50.47074496 36.67070007
                  0
30 12 2018 05:40
                                     67.09209749 38.97809982
                  0
                         3,6238029
30 12 2018 05:50
                         3.064483881 18.39613786 34.60876083
30 12 2018 06:00
                         3.053064108 17.92331542 34.75923157
30 12 2018 06:10
                         2.919246912 0
                                           37.02019882
30 12 2018 06:20
                         2.15219903
                                           28.27689934
                  0
                                     0
30 12 2018 06:30
                  0
                         2.078869104 0
                                           21.52279091
30 12 2018 06:40
                  0
                         2.10352993 0
                                           31.69135094
30 12 2018 06:50
                  0
                                           33.71583176
                         1.657978058 0
30 12 2018 07:00
                  0
                         1.036332965 0
                                           358.446106
30 12 2018 07:10
                  0
                         1.278848052 0
                                           5.169591904
30 12 2018 07:20
                         2.480264902 0
                                           65.48825836
                  0
30 12 2018 07:30
                  0
                         2.284791946 0
                                           69.65309906
30 12 2018 07:40
                  0
                         1.493144989 0
                                           66.53382111
30 12 2018 07:50
                  0
                         1.799607992 0
                                           11.23130989
30 12 2018 08:00
                         2.124962091 0
                                           352.1760864
30 12 2018 08:10
                         1.509071946 0
                                           346.8970032
30 12 2018 08:20
                         1.330430031 0
                                           333.894104
30 12 2018 08:30
                         3.289056063 31.9340666 335.6944885
                  0
                         3.149101019 22.54972171 358.8747864
30 12 2018 08:40
                  0
30 12 2018 08:50
                  0
                         2.982235909 0
                                           32.82558823
30 12 2018 09:00
                  0
                         2.537240982 0
                                           29.03923035
30 12 2018 09:10
                  0
                         2.418884993 0
                                           27.4930191
30 12 2018 09:20
                                           9.902495384
                         1.430860043 0
30 12 2018 09:30
                         3.249109983 28.93598218 337.9563904
                  0
30 12 2018 09:40
                         2.930958986 0
                                           334.3620911
                  0
30 12 2018 09:50
                  0
                         3.267147064 30.25811037 340.2341919
30 12 2018 10:00
                  0
                         2.643300056 0
                                           344.4065857
30 12 2018 10:10
                         1.857944965 0
                                           20.79351044
30 12 2018 10:20
                         1.815587044 0
                                           358.1860046
30 12 2018 10:30
                         1.87095201
                                           346.4995117
                                           346.5382996
30 12 2018 10:40
                         2.365089893 0
                  0
30 12 2018 10:50
                                           355.342804
                  0
                         1.631662011 0
30 12 2018 11:00
                                           352.47229
                  0
                         1.354956985 0
30 12 2018 11:10
                  0
                         1.32080996 0
                                           348.341095
30 12 2018 11:20
                  0
                         1.742970943 0
                                           348.8843994
30 12 2018 11:30
                         1.580816031 0
                                           15.74252987
30 12 2018 11:40
                  0
                         1.395005941 0
                                           18.43751907
30 12 2018 11:50
                  0
                         1.455844998 0
                                           355.9602051
30 12 2018 12:00
                  0
                         1.379814982 0
                                           20.37232018
30 12 2018 12:10
                  0
                         1.132179976 0
                                           29.84007072
30 12 2018 12:20
                  0
                         0.938840985 0
                                           51.77993011
30 12 2018 12:30
                                           48.3853302
                         0.789525628 0
30 12 2018 12:40
                         0.627706289 0
                                           18.18239021
30 12 2018 12:50
                         0.474267513 0
                                           254.5850067
30 12 2018 13:00
                                           157.7615051
                  0
                         0.589193821 0
30 12 2018 13:10
                  0
                         0.87792629 0
                                           65.09068298
30 12 2018 13:20
                  0
                         1.021916032 0
                                           48.92811966
30 12 2018 13:30
                  0
                         0.785644472 0
                                           9.620763779
30 12 2018 13:40
                         1.611832023 0
                                           28.92593002
```

```
30 12 2018 13:50
                         2.503633022 0
                                           34.22114182
                  0
30 12 2018 14:00
                         3.03490901 17.21457944 56.04605865
                  0
30 12 2018 14:10
                  0
                         2.506426096 0
                                           62.82878876
30 12 2018 14:20
                         3.191601038 25.06810984 68.54608154
                  0
30 12 2018 14:30
                  0
                         2.71374011 0
                                           59.63920975
30 12 2018 14:40
                         1.323112011 0
                                           65.20670319
30 12 2018 14:50
                  0
                         2.318058968 0
                                           68.34259796
30 12 2018 15:00
                  0
                         1.93007195 0
                                           77.43817902
30 12 2018 15:10
                  0
                         2.320672989 0
                                           57.71170044
30 12 2018 15:20
                  0
                         2,697052956 0
                                           49.6665802
30 12 2018 15:30
                                           53.25096893
                  Θ
                        2.789098978 0
30 12 2018 15:40
                  0
                         2.824851036 0
                                           65.59951782
30 12 2018 15:50
                         3.038446903 17.34855405 64.2203598
30 12 2018 16:00
                         2.438230991 0
                  0
                                           53.57667923
30 12 2018 16:10
                         2.451113939 0
                                           55.26313019
                  0
30 12 2018 16:20
                  0
                         2.386054039 0
                                           60.35496902
30 12 2018 16:30
                  0
                        2.094968081 0
                                           63.55855179
30 12 2018 16:40
                  0
                                           67.00975037
                        2.694499969 0
30 12 2018 16:50
                  0
                         2.553922892 0
                                           57.07226944
30 12 2018 17:00
                  0
                         2.565778971 0
                                           58.72576904
30 12 2018 17:10
                         2.831573009 0
                                           62.30624008
                  0
30 12 2018 17:20
                         3.169109106 23.69932257 63.53750992
                  0
30 12 2018 17:30
                  0
                         3.307400942 33.39645726 62.6293602
30 12 2018 17:40
                  0
                        4.11402607 144.4647144 65.13189697
30 12 2018 17:50
                  3.527201891 3.601988077 64.25479007 60.50296021
30 12 2018 18:00
                  -1.077131033
                                     2.528825998 0
                                                        63.71228027
30 12 2018 18:10
                         2.115319014 0
                                           65.0369873
30 12 2018 18:20
                         2.728797913 0
                                           76.20999908
                  0
30 12 2018 18:30
                  0
                         2.282512903 0
                                           79.58733368
30 12 2018 18:40
                  0
                         1.798509002 0
                                           64.85128784
30 12 2018 18:50
                  0
                         2.150093079 0
                                           52.9256897
30 12 2018 19:00
                         2.726715088 0
                  0
                                           46.26660919
30 12 2018 19:10
                         2.163038969 0
                                           72.41681671
                  0
30 12 2018 19:20
                                           87.44812775
                  0
                        1.841107965 0
30 12 2018 19:30
                                           92.7507019
                  0
                         1.375700951 0
30 12 2018 19:40
                         0.343080312 0
                                           246.854599
                  0
30 12 2018 19:50
                  0
                        1.183115005 0
                                           289.979187
                         1.461264968 0
                                           295.4910889
30 12 2018 20:00
                  0
30 12 2018 20:10
                        1.191409945 0
                                           5.272600174
30 12 2018 20:20
                        0.93279779 0
                                           73.92524719
30 12 2018 20:30
                        0.775210977 0
                                           91.67262268
                  0
30 12 2018 20:40
                  0
                        0.669238806 0
                                           92.54734802
30 12 2018 20:50
                                           54.10422134
                  0
                        0.850992978 0
30 12 2018 21:00
                  0
                         1.529662967 0
                                           34.64167023
30 12 2018 21:10
                  0
                         1.051697016 0
                                           66.8865509
30 12 2018 21:20
                  0
                         1.215422034 0
                                           36.10372925
30 12 2018 21:30
                  0
                        0.593324482 0
                                           74.79483032
30 12 2018 21:40
                  0
                        0.455601513 0
                                           62.37514877
30 12 2018 21:50
                  0
                         1.204344988 0
                                           286.8139038
30 12 2018 22:00
                  0
                         1.129122972 0
                                           243.2799072
30 12 2018 22:10
                  0
                         1.239547968 0
                                           216.2644043
30 12 2018 22:20
                         1.184887052 0
                                           203.1217041
30 12 2018 22:30
                         1.578366041 0
                                           207.1788025
30 12 2018 22:40
                         1.140902042 0
                                           175.8153076
                  0
30 12 2018 22:50
                        0.491281509 0
                                           133.4967041
                  0
30 12 2018 23:00
                  0
                        0.554951489 0
                                           84.73339081
30 12 2018 23:10
                  0
                        0.867918074 0
                                           106.125
30 12 2018 23:20
                  0
                        1.103975058 0
                                           120.8382034
30 12 2018 23:30
                  0
                        1.199679017 0
                                           99.52709961
```

```
30 12 2018 23:40
                  0
                         0.816038907 0
                                           74.1878891
30 12 2018 23:50
                  0
                         0.588163495 0
                                           83.41226196
31 12 2018 00:00
                         0.538558483 0
                                            71.81552887
                  0
31 12 2018 00:10
                  0
                         0.657424986 0
                                           72.03378296
31 12 2018 00:20
                  0
                         0.378508687 0
                                           68.75778198
31 12 2018 00:30
                         0.860654175 0
                                           83.40235901
31 12 2018 00:40
                  0
                         1.189110041 0
                                            85.58692169
31 12 2018 00:50
                  0
                         2.265235901 0
                                           97.0304718
31 12 2018 01:00
                  0
                         2.760900021 0
                                            118.356102
31 12 2018 01:10
                         3.922821999 113.6583392 124.5227966
                  0
31 12 2018 01:20
                  140.3684998 4.743673801 275.4357087 138.4147949
                  122.7876968 4.153810024 152.0971652 148.047699
31 12 2018 01:30
31 12 2018 01:40
                         2.472466946 0
                                            241.0489044
31 12 2018 01:50
                  0
                         2.495381117 0
                                            269.1097107
31 12 2018 02:00
                         2.917551041 0
                                            233.2915955
                  0
31 12 2018 02:10
                  0
                         2.521464109 0
                                            240.4434052
31 12 2018 02:20
                  0
                         2.614639044 0
                                            252.3977966
31 12 2018 02:30
                  0
                         2.625967979 0
                                           256.7522888
31 12 2018 02:40
                  0
                         2.454027891 0
                                            262.9450989
31 12 2018 02:50
                  0
                         2.482789993 0
                                            259.8240051
31 12 2018 03:00
                         2.155762911 0
                                            263.0315857
                  0
31 12 2018 03:10
                  0
                         2.314760923 0
                                            259.6104126
31 12 2018 03:20
                         2.519936085 0
                                            258.6106873
                         2.209003925 0
31 12 2018 03:30
                  0
                                            251.7073975
31 12 2018 03:40
                         1.885414958 0
                                            250.8520966
31 12 2018 03:50
                         1.578966022 0
                                            260.1476135
31 12 2018 04:00
                         1.035516977 0
                                            278.3417053
31 12 2018 04:10
                         1.464390039 0
                                            271.3581848
                  0
31 12 2018 04:20
                  0
                         2.703879118 0
                                            245.1295013
31 12 2018 04:30
                                     30.84468042 234.6125946
                  0
                         3.27493
31 12 2018 04:40
                  0
                         2.88549304
                                     0
                                           235.0621948
31 12 2018 04:50
                  0
                         2.267091036 0
                                            241.6466064
31 12 2018 05:00
                         2.246105909 0
                                            242.0688019
31 12 2018 05:10
                         1.178282022 0
                                           274.2495117
                  0
31 12 2018 05:20
                         1.529314041 0
                                            254.1188965
                  0
31 12 2018 05:30
                  0
                         1.134006023 0
                                            233.8464966
31 12 2018 05:40
                  0
                         0.362704486 0
                                            191.9149017
                         0.431046098 0
31 12 2018 05:50
                                            224.7369995
31 12 2018 06:00
                         0.539924681 0
                                            316.6773071
31 12 2018 06:10
                         0.72445178
                                           128,5596924
31 12 2018 06:20
                         0.520939827 0
                                           211.1481018
31 12 2018 06:30
                                           263.4042969
                  0
                         0.971961975 0
31 12 2018 06:40
                                            192.3764954
                  0
                         0.419129789 0
31 12 2018 06:50
                  0
                         0.719733775 0
                                           43.08456039
31 12 2018 07:00
                  0
                         0.573223472 0
                                           51.26446152
31 12 2018 07:10
                         0.338600397 0
                                            319.6402893
31 12 2018 07:20
                  0
                         0.602191687 0
                                           16.09581947
31 12 2018 07:30
                  0
                         0.884661317 0
                                           11.4243803
31 12 2018 07:40
                  0
                         1.719339967 0
                                           0.95386368
31 12 2018 07:50
                  0
                         1.310927033 0
                                            39.67063141
31 12 2018 08:00
                  0
                         1.11084795 0
                                            104.6250992
31 12 2018 08:10
                         1.065520048 0
                                            126.6735992
31 12 2018 08:20
                         1.40022397
                                            139.3359985
31 12 2018 08:30
                         1.336794019 0
                                           145.6813049
                  0
31 12 2018 08:40
                                           129.3858032
                  0
                         0.605822682 0
31 12 2018 08:50
                  0
                         1.634240985 0
                                            6.104557037
31 12 2018 09:00
                  0
                         1.13774097 0
                                           51.42327118
31 12 2018 09:10
                  0
                         0.680524826 0
                                           116.9581985
31 12 2018 09:20
                         0.449524701 0
                                           146.885498
```

```
31 12 2018 09:30
                       1.024410009 0
                                         33.89385986
                 0
31 12 2018 09:40
                 0
                       1.101052999 0
                                         33.50521088
31 12 2018 09:50
                       1.33465004 0
                                         28.00086975
                 0
31 12 2018 10:00
                 0
                       2.702630997 0
                                         65.38915253
31 12 2018 10:10
                 0
                       3.118733883 20.92730305 67.77802277
31 12 2018 10:20
                       2.498549938 0
                                         67.67456055
31 12 2018 10:30
                 0
                       2.620518923 0
                                         71.88020325
31 12 2018 10:40
                 0
                       2.827516079 0
                                         80.6074295
31 12 2018 10:50
                 0
                       2.563019991 0
                                         81.2424469
31 12 2018 11:00
                 0
                       1.680799961 0
                                         95.11618042
31 12 2018 11:10
                       2.386904955 0
                 0
                                         108.5259018
31 12 2018 11:20
                 0
                       2.425184965 0
                                         99.0668335
31 12 2018 11:30
                       2.946491003 0
                                         83.45806122
31 12 2018 11:40
                       2.795087099 0
                                         87.65632629
31 12 2018 11:50
                       3.916591883 112.5421946 78.96170044
                 0
31 12 2018 12:00
                 0
                       3.091042995 19.57648202 87.31062317
31 12 2018 12:10
                 0
                       2.892369032 0
                                         89.73709106
31 12 2018 12:20
                 0
                       2.722503901 0
                                         82.73625183
31 12 2018 12:30
                 0
                       2.86985302 0
                                         81.97429657
31 12 2018 12:40
                 0
                       3.201951981 25.72523158 73.19438934
31 12 2018 12:50
                       3.861320019 102.9120146 75.00507355
                 0
31 12 2018 13:00
                       3.012923002 16.42689639 79.55198669
                 0
31 12 2018 13:10
                 0
                       2.998980999 0
                                         76.01847839
31 12 2018 13:20
                 0
                       2.647907972 0
                                         78.27629089
31 12 2018 13:30 0
                       2.79698205 0
                                         68.1455307
31 12 2018 13:40 0
                       3.670288086 73.3921082 71.95465851
31 12 2018 13:50 0
                       4.544963837 231.5781625 69.7095871
31 12 2018 14:00 69.73737335 4.369006157 194.7755308 63.8162117
31 12 2018 14:10 74.72646332 4.090992928 140.0804649 56.39891815
31 12 2018 14:20
                 100.8292007 4.125376225 146.634436 57.14556885
31 12 2018 14:30
                 115.6657028 4.172730923 155.7541381 55.4996109
31 12 2018 14:40 183.7449951 4.502260208 222.478263 57.75294113
31 12 2018 14:50
                 338.5911865 5.285727024 409.4200419 65.54566193
                 501.6131897 5.882676125 586.1188535 67.5424118
31 12 2018 15:00
31 12 2018 15:10 483.5599976 5.832771778 570.0182068 67.638237
31 12 2018 15:20 548.9656982 6.08310318 652.3819315 70.3223877
                 479.4242859 5.89615202 590.5109372 72.43047333
31 12 2018 15:30
31 12 2018 15:40
                 368.2694092 5.456291199 456.5137233 74.77071381
31 12 2018 15:50 573.746521 6.039964199 637.553372 74.83528137
31 12 2018 16:00
                 1140.021973 7.65790987 1340.60769 76.58083344
31 12 2018 16:10 1478.978027 8.315361977 1715.429019 74.67810059
31 12 2018 16:20 1359.036987 8.209787369 1652.323671 75.2869873
31 12 2018 16:30
                 1597.265991 8.62415123 1905.087285 76.23316956
31 12 2018 16:40
                 1250.109985 7.93000412 1490.171275 76.35656738
                 744.182373 5.749670982 543.7727235 76.05283356
31 12 2018 16:50
                 476.4739075 4.824297905 293.9796297 85.39331055
31 12 2018 17:00
                 433.6409912 4.591996193 241.7302396 85.16118622
31 12 2018 17:10
31 12 2018 17:20 453.3581848 4.792756081 286.6713104 81.0506897
31 12 2018 17:30
                 356.442688 4.478367805 217.4348803 86.71853638
31 12 2018 17:40
                 333.7408142 4.600289822 243.534791 91.98673248
31 12 2018 17:50
                 343.7839966 4.505049229 223.0692166 94.69139099
31 12 2018 18:00
                 323.7253113 4.502377987 222.5032092 92.35072327
31 12 2018 18:10
                 341.9054871 4.556025982 233.9536132 91.58849335
31 12 2018 18:20
                 399.6538086 4.798016071 287.8852413 94.32974243
31 12 2018 18:30
                 372.0795898 4.795229912 287.241996 98.70626068
31 12 2018 18:40 411.729187 4.860610008 302.480001 97.23905945
31 12 2018 18:50 471.4197083 4.994784832 334.7194392 99.13633728
31 12 2018 19:00 529.9389038 5.197527885 386.0494369 97.63218689
31 12 2018 19:10 877.9152832 5.782113075 553.9356354 90.30925751
```

```
31 12 2018 19:20 711.6832275 5.478546143 462.8494362 87.52031708
31 12 2018 19:30 992.0341187 6.146048069 674.3752919 84.24091339
31 12 2018 19:40 1574.197998 7.936306953 1493.735939 78.98703766
31 12 2018 19:50 1706.860962 8.350188255 1736.454419 79.04279327
31 12 2018 20:00 1731.552979 8.674524307 1936.655737 78.16972351
31 12 2018 20:10 1592.900024 8.13588047 1608.743387 78.77377319
31 12 2018 20:20 1403.121948 7.486556053 1251.00841 80.06111145
31 12 2018 20:30 1433.415039 7.493729115 1254.72865 81.27924347
31 12 2018 20:40 1550.709961 7.72467804 1376.495123 79.51912689
31 12 2018 20:50 2062.549072 8.986495018 2135.288428 81.05686188
31 12 2018 21:00 2309.875
                            9.714014053 2601.071371 80.27268219
31 12 2018 21:10 1901.602051 8.498630524 1827.149165 79.39440918
31 12 2018 21:20 2240.629883 9.63561821 2543.911219 79.35626221
31 12 2018 21:30 1814.355957 8.472826004 1811.26326 79.69956207
31 12 2018 21:40 1992.348999 8.433422089 1787.100338 80.13250732
31 12 2018 21:50 2554.37793 9.976659775 2777.504103 80.08161163 31 12 2018 22:00 2681.27002 10.41683006 3025.199012 80.45224762
31 12 2018 22:10 3019.893066 10.71366978 3161.693967 80.96069336
31 12 2018 22:20 2771.110107 10.1545496 2884.512812 82.33519745
31 12 2018 22:30 3333.819092 12.06766033 3532.081496 81.98590088
31 12 2018 22:40 3455.282959 12.19565964 3549.150371 82.21061707
31 12 2018 22:50 3429.021973 12.49250984 3578.567804 82.11186981
31 12 2018 23:00 3514.269043 12.55916977 3583.288363 80.49526215
31 12 2018 23:10 2963.980957 11.40402985 3397.190793 80.50272369
31 12 2018 23:20 1684.353027 7.3326478 1173.055771 84.06259918
31 12 2018 23:30 2201.106934 8.435358047 1788.284755 84.74250031
31 12 2018 23:40 2515.694092 9.421365738 2418.382503 84.2979126
31 12 2018 23:50 2820.466064 9.97933197 2779.184096 82.27462006
```