```
function mpc = case1354pegase
%CASE1354PEGASE Power flow data for medium part of European system.
    Please see CASEFORMAT for details on the case file format.
응
   This case accurately represents the size and complexity of part of
the
  European high voltage transmission network. The network contains
1,354
   buses, 260 generators, and 1,991 branches and it operates at 380
응
and
   220 kV. Please note that the data are fictitious and do not
correspond
% to real world data. They can thus be used to validate methods and
  but should not be used for operation and planning of the European
grid.
   The data stems from the Pan European Grid Advanced Simulation and
   Estimation (PEGASE) project, part of the 7th Framework Program of
the
   European Union (http://www.fp7-pegase.com/).
응
   When publishing results based on this data, please cite:
응
9
응
     C. Josz, S. Fliscounakis, J. Maeght, and P. Panciatici, "AC Power
Flow
응
     Data in MATPOWER and QCQP Format: iTesla, RTE Snapshots, and
PEGASE"
     http://arxiv.org/abs/1603.01533
      S. Fliscounakis, P. Panciatici, F. Capitanescu, and L. Wehenkel,
      "Contingency ranking with respect to overloads in very large
응
power
     systems taking into account uncertainty, preventive and
corrective
     actions", Power Systems, IEEE Trans. on, (28)4:4909-4917, 2013.
     http://dx.doi.org/10.1109/TPWRS.2013.2251015
응
용
응
   Remarks:
응
  1. Line flow limits are 100 MVA (at 1 p.u. voltage) lower than the
   current flow limits found in PEGASE data.
용
   2. PEGASE data contains asymmetric shunt conductance and
susceptance in
% the PI transmission line model of branches. Thus total line
charging
   susceptance of branches is set to 0 p.u. and the nodal
representation
   of shunt condutance and susceptance is used. As a result, power
flow
   equations are left unchanged compared with original PEGASE data.
  However, line flow constraints in the optimal flow problem are
9
   modified.
응
```

```
3. Identical linear costs are used for all generators to form a
loss
용
   minimizing OPF objective function.
%
   4. Since some parts of the network are aggregated, some generators
   (e.g. with negative PMIN) represent aggregations of multiple loads
   and generators.
9
응
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응
   March 18th, 2015
9
  MATPOWER
   Copyright (c) 2015, 2016 by CF@dric Josz, StF@phane Fliscounakis,
Jean Maeght,
% and Patrick Panciatici
   Licensed under the Creative Commons Attribution 4.0 International
% http://creativecommons.org/licenses/by/4.0/
%% MATPOWER Case Format : Version 2
mpc.version = '2';
%%---- Power Flow Data ----%%
%% system MVA base
mpc.baseMVA = 100;
%% bus data
% bus i type Pd Qd Gs Bs area Vm Va baseKV zone
Vmax Vmin
mpc.bus = [
   3 1
           151 48.8
                      0
                          4.69
                                 0
                                    1.016674
                                                 -21.761632 220 5
1.1 0.9;
   4 1
           171.41 23.4
                          0 2.1 0
                                     1.026472
                                                 -7.007354
                                                            220 5
1.1 0.9;
   10 1
           134 24.7 0
                          12.44
                                0
                                     1.038534
                                                 -24.281644 220 5
1.1 0.9;
   21 1 161.2
                  39.3
                          0
                             30.71
                                     0 1.036195
                                                     -21.958828 220
   1.1 0.9;
   22 1 0 -0 0 0.85
                              0 1.035058
                                             -18.483339 220 5
                                                                1.1
0.9;
   26 1 167.3
                          0
                              110.54 0
                                         1.032267
                   54.8
                                                     -3.318448
                                                                380
  1.1 0.9;
   29 1
           152.9
                   49.4
                          0
                              27.65 0
                                         0.994409
                                                     -13.816418 380
   1.1 0.9;
   44 1
           -0 0
                   0 7.27
                              0 1.045829 -22.181066 220 5
0.9;
                  16.1 0
                             7.14 0 1.063422 -9.070013
   53 1 48.65
                                                               220
5 1.1 0.9;
```

```
58 1 0 0 0 2.31 0 0.983702 -21.159412 380 5 1.1
0.9;
   59 1 119.2
                 20.7
                       0
                           3.31
                                  0
                                    1.036808
                                                -23.631999
                                                          220
5
   1.1 0.9;
                           3.95
   90 1 363.25 115.39 0
                                  0
                                     1.042187
                                                -27.546292 220
5
   1.1 0.9;
   96 1 -8.4
                 28.66
                        0
                           3.49
                                  0
                                     1.030441
                                                -15.689479 220
   1.1 0.9;
   113 1 -0 -0 0
                   6.532711
                             0
                                 1.030718 -14.242909 380 5
1.1 0.9;
   115 1
        0 -0 0
                   4.21
                          0
                             1.066797 -19.783678 220 5
                                                         1.1
0.9;
   118 1 704.53 -35.33 0
                           13.102834 0 1.020256 -11.430028
380 5 1.1 0.9;
   124 2 0 0
                 0 0
                        0
                           1.081537
                                    8.330657
                                                220 5 1.1
0.9;
   128 1 23.73
                 12.7
                        0
                          0.52
                                0 1.020482 -16.063366 220
   1.1 0.9;
                        7.64 0 1.039096 -8.903623 220 5
   145 1 38.34
                 5.6 0
1.1 0.9;
                        6.1 0 1.041568 -7.991267 220 5 1.1
   148 1
          32.34
                 12 0
0.9;
          0 0
                          1.062805
                                     2.531831
   150 2
                 0 0
                        0
                                                220 5
                                                     1.1
0.9;
                                                -10.672351 220
   163 1 147.76
                32.73
                        Ω
                           8.34
                                 Ο
                                     1.047047
 1.1 0.9;
   171 1
          100.8
                 13.2
                        0
                           5.24
                                  0
                                    1.069649
                                                -25.153324
                                                         220
 1.1 0.9;
   174 1 370.5
                 -17 0
                        9.91
                             0 1.074846 -27.942789 220 5
1.1 0.9;
                0 2.42
                           0 1.042771 -11.94851 220 5
   184 1
          -0 -0
0.9;
   188 1
          36.84
                        0
                           3.3 0
                                 1.018752 -19.550413 220 5
                 13.9
1.1 0.9;
   195 1 73.14
                 21.55
                        0
                           8.52
                                  0
                                    1.056337 -8.791116
                                                          220
 1.1 0.9;
   196 1 0 -0
                           0 1.074825 -26.319857 220 5
                0 12.48
                                                          1.1
0.9;
                           1.44
   198 1 39.74
                                    1.01673 -16.306681 220 5
                 11.8
                        0
                                 0
1.1 0.9;
   207 1 321.98
                 84.4
                        0
                           1.34
                                  0
                                     1.026604 -13.457588 220
   1.1 0.9;
   216 1 155.6
                           2.21
                                     1.039362 -24.590496 220
                 54.7
                        0
                                  0
   1.1 0.9;
   217 1 105.2
                 0.1 0
                        7.36 0
                                  1.042762 -2.603638 220 5
1.1 0.9;
   218 1 69.83
                        0
                           2.23
                                 0
                                    1.045923 -13.114892 220
                 15.12
  1.1 0.9;
   221 2
         0 0
                   0
                        0
                           0.984682
                                     -21.807603 380 5 1.1
                 Ω
0.9;
   225 1
          0
             0
                 0 1.15
                           0 1.063761
                                        -20.174043 220 5
0.9;
   280 1 119.6
                 29.6
                        0
                           5.34
                                 0 1.035725
                                                -11.193679 220
  1.1 0.9;
   283 1 27.33
                 11.9
                      0
                          1.17
                                0 1.035204
                                                -12.094637 220
5 1.1 0.9;
```

```
292 1
         13.82
                1.4 0 0.7 0 1.047544
                                           -14.765137 220 5
                                                              1.1
0.9;
   305 1
          103 12
                  0
                    0.63
                             0
                                1.067188
                                           -32.434719 220 5
                                                              1.1
0.9;
                                1.030032
                  0 4.76
   306 1
           -0 0
                             0
                                           -18.823594 220 5
                                                              1.1
0.9;
   314 1
          163.1
                  46.3
                         0
                           10.6
                                   0 1.005548
                                                   -16.020947
                                                              220
   1.1 0.9;
   333 1
         524.5
                  43 0
                         6.85
                               0 1.014579 -42.137692 220 5
1.1 0.9;
   338 2
          0 0
                  0 0
                         0
                             1.048249
                                        -6.162533
                                                   220 5
                                                         1.1
0.9;
   346 1 197.5
                  48.3
                         0
                             0.71
                                   0
                                        1.040694
                                                   -21.298393 220
  1.1 0.9;
   350 1 110.4
                  26.2
                         0
                             5.62
                                   0
                                        1.043185
                                                   -24.295117 220
   1.1 0.9;
   352 2 0 0
                  0 0
                         0
                             1.055378
                                        0.262953
                                                   380 5 1.1
0.9;
   367 1 65.17
                             4.85
                                        1.07164 -23.599251 220 5
                  -51.5
                         0
                                   0
1.1 0.9;
   401 1 56.5
                  36.29
                             3.08
                                        1.026548
                         0
                                    0
                                                  -14.262083 220
   1.1 0.9;
   408 1 129.1
                                   1.039791 -11.549917 220 5
                  7.4 0
                         0.04 0
1.1 0.9;
   410 1
         170.89
                 50.38
                         0
                           6.44
                                    0
                                      1.041564 -26.439994 220
   1.1 0.9;
   413 2
          0 0
                  0 0
                         0
                             1.05013 -6.606455
                                              220 5 1.1 0.9;
                  13.5
   416 1
           70.68
                         0
                             6.96
                                    0 1.0458 -6.728632
                                                         220 5
1.1 0.9;
                  6.5 0
                         3.25
                                    1.040489
   426 1
          123.1
                               0
                                               -18.395441 220 5
1.1 0.9;
   432 1
           -0 -0
                 0
                    68.517663
                               0 1.047774 2.403578
                                                          380 5
1.1 0.9;
   444 1
              -0
                  0
                     2.45
                            0
                                1.036267
                                           -12.201434 220 5
           0
0.9;
   449 1
              0
                     29.42
                             0
                               1.021739
                                           -8.489958
                                                      380 5
           0
                  0
                                                              1.1
0.9;
                         0
                             1.018914
                                       -7.857046
   453 2
           0
              0
                  0
                      0
                                                   380 5
                                                         1.1
0.9;
          274.32
                  5.66
                         0
                            13.24
                                   0
                                        1.045882
                                                   -30.596498
                                                             220
   455 1
  1.1 0.9;
   490 1
          20.52
                  4 0
                         2.77
                               0
                                   1.036451 -23.014287 220 5
1.1 0.9;
   500 1 144.4
                  35.5
                         0
                             7.66
                                    0
                                        1.040423
                                                   -15.042452 220
   1.1 0.9;
                    1.96
   502 1
          -0 0
                  \cap
                             0 1.043564 -6.675538
                                                      220 5
                                                              1.1
0.9;
   506 1
                     0.4 0
                             1.063297
                                        -9.078728
          -0 0
                  0
                                                   380 5 1.1
0.9;
                             1.61 0
   513 1
          57.46
                  17.1
                        0
                                        1.038461
                                                   -7.443414
                                                              220
   1.1 0.9;
   516 2
                         0
                             1.075592
                                        -33.453515 220 5 1.1
          0 0
                  0
                    0
0.9;
   520 1 118.5
                  20.4
                        0
                             2.57 0
                                       1.048239 -27.108761 220
  1.1 0.9;
   549 1 0 -0
                 0 5.15 0 1.074517 -10.959606 220 5 1.1
0.9;
```

```
554 1
          0 -0 0
                    1.97 0 1.024071 -20.793083 220 5
                                                            1 1
0.9;
                                0 1.03694 -22.762979 220 5
   556 1
          16.52
                  9
                     0
                       1.17
                                                             1.1
0.9;
   561 1
          \cap
              -0
                  0
                     0.32
                            0
                               1.055451 -11.021763 220 5
                                                             1.1
0.9;
   564 2
          0
              0
                  0
                     0
                            1.069817 -47.078276 220 5
                                                          1.1
0.9;
   575 1
                  0
                     0.67
                            0
                               1.04436 -11.163788 220 5
                                                          1.1
          \Omega
              -0
0.9;
   583 2
          Ω
              0
                  0
                     0
                         0
                           1.045397 -15.568574 220 5
                                                          1 1
0.9;
   594 1
          67.57
                  17 0
                         5.75
                               0
                                  1.036683 -8.869667
                                                          220 5
1.1 0.9;
   601 1 140.6
                  42.6
                         0 5.71
                                    0 1.040685 -14.418335 220
   1.1 0.9;
   604 1
          33.24
                  4.4 0
                         24.54 0
                                   0.996939 -12.93567 380 5
1.1 0.9;
   608 1 150.9
                           4.77
                                   0 1.071753 -32.66829
                  10.4
                         0
                                                             220
  1.1 0.9;
                    5.67
                            0 1.025344 -14.779536 220 5
   609 1
          -0 -0
                  0
0.9;
   615 2
              0
                     0
                         0
                             1.063876
                                       -10.607341 220 5
          0
                  0
                                                          1.1
0.9;
              0
                  0
                     0
                         0
                             1.048713
                                       -12.997468 220 5
   616 2
          Ω
                                                          1.1
0.9;
   619 1 72.88
                  14.4
                         0
                             2.96
                                 0
                                       1.046742
                                                  -25.252227
                                                            220
5 1.1 0.9;
   639 2 0 0
                  0 0
                         0
                             1.051376
                                       -29.999643 220 5
                                                         1.1
0.9;
   641 1
                  18.5
                         0
                             0.74
                                   0
                                       1.03515 -13.956622 220 5
         45.32
1.1 0.9;
   658 1 258.4
                  66.7
                         0
                             5.87
                                       1.033849
                                                  -17.442414 220
                                   Ω
  1.1 0.9;
   661 1
          -0 -0
                 0 0.6 0
                             1.040021
                                       2.414523
                                                  380 5
                                                        1.1
0.9;
   666 1
                  -2.79
                       0
                            150.93 0
                                       1.03076 -5.413919
          -5.61
                                                        380 5
1.1 0.9;
   678 1
                  89.8
                            0.09 0
                                       0.986375 -18.62447 220
          232.1
                       0
   1.1 0.9;
   682 2
          0 0
                  0 0
                        0
                            1.0691 -10.045044 220 5 1.1 0.9;
                           1.05742 -4.068613 220 5 1.1 0.9;
   687 1
          -0 0
                  0 5.6 0
   707 1
                            5.36
                                   0 1.054495 -25.620212 220
          83.99
                  21.2
                         0
   1.1 0.9;
   718 1 135.11
                 41 0 5.31 0
                                   1.031148
                                             -24.884639 220 5
1.1 0.9;
   720 1
          -0 -0 0 23.554121 0
                                   0.981824 -26.763103 380 5
1.1 0.9;
   726 1 400.3
                  189.9 0 0.53
                                   0 1.048069
                                                  -4.933448 220
   1.1 0.9;
   742 1
          0 -0
                  0
                     2.83
                           0 1.05759 -4.070122
                                                  220 5
0.9;
   747 1
          69.58
                  16 0
                         3.03
                               0 1.073922 -26.380554 220 5
1.1 0.9;
   749 2
          0 0
                  \cap
                     0
                         0 1.057884 -28.950791 220 5
0.9;
```

```
750 1
          -0 -0
                 0
                    18.63
                            0 1.041141 -24.444747 220 5 1.1
0.9;
   757 2
                             1.017567 -13.765564 380 5 1.1
           0
              0
                  0
                     0
                         0
0.9;
                               1.047952 -19.8489 220 5
   766 1
          -0 0
                  0
                     7.85
                             0
                                                             1.1
0.9;
   769 1
          152.57
                  40
                     0
                         6.12
                               0
                                   1.024104 -10.886119 220 5
1.1 0.9;
   772 1
          343.9
                  141.9
                         0
                             5.55
                                   0
                                       1.034361
                                                  -14.167643 220
   1.1 0.9;
   776 2
              0
                  \cap
                     0
                         0
                             1.026368
                                       -13.331099 220 5
                                                         1 1
0.9;
   778 2
          0
              0
                  0
                      0
                         0
                             1.049411
                                       -6.680953 220 5
                                                          1.1
0.9;
   789 1
          -0
             -0
                  0
                      6.63
                             0 1.051689 -5.954643 220 5 1.1
0.9;
   795 2
              0
                  0
                      0
                         0
                            1.035522 -15.484388 220 5
                                                          1.1
0.9;
          50.56
                         0.11 0 1.034778 -12.128589 220 5
   800 1
                  18
                     0
1.1 0.9;
                            1.041369 -24.768342 220 5
   803 2
          0
              0
                  0
                     0
                         0
                                                          1.1
0.9;
   804 1
                     7.26
                            0 1.05585 -7.563603
                                                 220 5
          -0 -0
                  0
                                                          1.1
0.9;
          124.5
   805 1
                  29.6
                        Ω
                            15.4
                                   Ω
                                      1.05673 -11.12828
                                                          220 5
1.1 0.9;
   809 1
          0
              -0
                  0
                     58.088687 0 1.027525 -0.064839
                                                          380 5
1.1 0.9;
              -0
                     0.22
                             0
                               1.052169
                                         -0.720463
                                                     220 5 1.1
   819 1
          \cap
                  0
0.9;
   823 2
              0
                  0
                     0
                        0
                             1.044097 -2.229251 380 5
          \cap
                                                         1.1
0.9;
   839 1
                     8.17514 0 1.024385 -1.386321
                                                      380 5 1.1
          -0
              -0
                 0
0.9;
   851 2
          0
              0
                  0
                     0
                         0
                             1.00025 -17.401395 220 5 1.1 0.9;
                            1.031745 1.110134
   858 2
              0
                  0
                     0
                         0
                                                  380 5 1.1
          0
0.9;
   870 1
          110 3.4 0
                     11.95
                             0
                               1.040762
                                           -24.602002 220 5
                                                              1.1
0.9;
   871 1 108.89 -21.76 0
                                   0
                                      1.056945
                                                  -11.955754
                             3.72
                                                             220
  1.1 0.9;
   883 1
         192.5
                  78.3
                         0
                             6.65
                                    0
                                        1.017176
                                                   -10.133417 220
  1.1 0.9;
   891 2 0
              0
                  0
                     0
                         0
                             1.064525
                                        -18.97841
                                                   380 5
                                                          1.1
0.9;
   892 1
          -0 -0
                  0
                     9.1 0
                             1.069234
                                       -34.99461
                                                   220 5 1.1
0.9;
   900 1
                     0.15
                             0 1.050278 -15.385577 220 5
          0
              0
                  0
0.9;
   903 1
                  20.1 0
                             1.36 0
                                      1.073885 -26.405705 220
          82.69
   1.1 0.9;
   905 1 631.71
                             7.534129
                                          1.035643 -15.075813
                 -54.16 0
                                       0
380 5 1.1 0.9;
   907 1 -0 -0 0 0.05
                             0 1.038555 -9.767436
                                                     220 5
0.9;
   908 1 125.9 -0.5 0
                            0.21 0 1.065214 -7.929625
5 1.1 0.9;
```

```
8.5 0 1.11 0 1.045537 -20.769903 220 5
   920 1 34.44
1.1 0.9;
   923 1 62.07
                 14.7 0
                                  0 1.035596 -23.090183 220
                           4.84
   1.1 0.9;
                              1.019946
   933 1 -0 0
                 0
                   22.75
                            0
                                          -21.525393 220 5
                                                           1.1
0.9;
   935 1
          -0 0
                 0
                    9.46
                            0
                               1.049182
                                         -24.470238 220 5
0.9;
   953 1 108.7
                 -12.15 0
                            37.11
                                 0
                                     1.065973
                                                 -13.014498 380
5
   1.1 0.9;
   954 1 66.27
                 13.6
                      0
                           0.67
                                  0
                                     1.044324
                                                 -21.525875 220
5
   1.1 0.9;
   960 1 -0 -0 0 108.728602 0 1.063295 -9.078724 380 5
1.1 0.9;
   964 1 88.5
                 16.5
                       0 146.44 0 1.015553 -11.659761 380
   1.1 0.9;
   972 2
          0 0
                 0 0
                        0 1.072621 5.35893 380 5 1.3 0.7;
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                    -2.33
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10.509999 380 5 1.1 0.9;
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        1
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5
   1194 1
                         0
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                                   0.987964 -14.637206 380
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                   0 30.637696 0
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                            1.08 0 1.050304 -19.627666
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   1234
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0.7;
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                         0
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0.9;
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                                  0 1.032647
                                                 -18.856368 220
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                         0
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0.9;
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                        4.34
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                     15.2 0
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          1
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                         0.98
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0.9;
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0.9;
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0.9;
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0.9;
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        1 79.59
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8.5 0 1.05 0 1.043667 -11.062381 220
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                    0
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                           Λ
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220 5 1.1 0.9;
```

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                    0
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                   39 0
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                Ω
                       Ω
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5 1.1 0.9;
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                                                 -8.962289
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0.9;
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```

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                        3.9 0
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0.9;
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5 1.1 0.9;
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                                                   -27.697899
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41.441031 380 5 1.1 0.9;
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0.9;
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   3221
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11.611515 380 5 1.1 0.9;
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                         0
                              1.050305 -1.129073 220 5 1.1
0.9;
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            132 27 0 4.66
                              0 1.030192 -17.957576 220 5
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1.1 0.9;
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                    0
                      1.18
                              0 0.990554
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                              0.21 0
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220 5 1.1 0.9;
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            84.19
                    17.3
                         Ω
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                             0 1.038882 -22.03657 220 5
1.1 0.9;
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                                4.51 0
                                         1.038075 -11.39812
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0.9;
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0.9;
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0.9;
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0.9;
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                        0
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0.9;
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                                                     220 5
        1
                     \Omega
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                                                            1.1
0.9;
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                 0
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0.9;
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0.9;
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5 1.1 0.9;
```

```
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0.9;
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                                  0 1.03602 -21.337931 220
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5
                             5.26 0
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           138.5
                   19.3
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                         0
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1.1 0.9;
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0.9;
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0.9;
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5 1.1 0.9;
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0.9;
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```

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                                                -24.771259 220
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                    0
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                      0 75.020288 0 1.032772 -21.096452
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             310.2
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         1
             Ω
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   4300
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5 1.1 0.9;
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5 1.1 0.9;
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```

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0.9;
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                                   1.064315 -17.672609 380
5 1.1 0.9;
  4974 1 89.08
                    26.9
                        0
                             4.68
                                    0 1.023886 -13.4778
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  5002 1 -0 0
                    0 4.34 0 1.071581 -8.674239 220 5
1.1 0.9;
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0.9;
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                        40.291745
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                     29
                        0
                            2.05 0 1.01997 -20.429759 220 5
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                        0
                            0 1.037373
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                                                           1.1
0.9;
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                        0
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                              1.021924
                                         -7.972254
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   5083 1
              80.39
                     10.8
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                                     1.010775 -14.861295 220
                     28 0
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   5099
              0 0
                     0
                        9.34
                              0
                                                       220 5
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1.1 0.9;
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              39.94
                        0
                            2.47
                                  Ω
                                     1.071273 -31.590024 220
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                        0
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0.9;
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                            0
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                     0
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1.1 0.9;
              16.92
                            0.57 0 1.025017 -16.369795 220
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         1
                     \Omega
                        0
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                            0
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                                          -3.127844
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                               12.83 0 1.049521
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                                                     220 5
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                        0.89
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                 -0
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                        14.04
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                                                           1.1
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                 -0 0
                        70.905048 0 1.030298 -3.61649
5 1.1 0.9;
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5256
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                                                           1 1
0.9;
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                 0
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                        0.18
                               0 1.04776 -6.282341
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0.9;
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                        3.06
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              55.26
                     11
                        0 7.68
                                  0 1.041403 -24.362719 220
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                                     0.984486 -18.190432 380
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0.9;
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                                                    -21.65338
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  5350
         1
                 0
                     0
                        28.208233 0
                                      0.981529 -24.398889 380
5 1.1 0.9;
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              0
                 0
                     0
1.1 0.9;
        1 70.18
                     19.5
                            0
                               3.59
                                      0
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   5354
                                                     -8.643995
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                                     0
                                          1.043688
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                            0
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          2
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                        0
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0.9;
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                                                     380 5
                                                           1.3
0.7;
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   5383
              \cap
                 - \cap
                     Ω
                        24.7
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          1
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0.9;
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         1
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         1
              32.74
                     5.3 0 3.07
                                  0 1.057776 -12.050099 220
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5419 1 349.3
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                                 8.44 0
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0.9;
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                                            -7.317519
                                                        220 5
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0.9;
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0.9;
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0.9;
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                      0
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                                 0
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                                                           220 5
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                                    1.05903 -23.279891 220 5 1.1
           1
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               99.7 6
                          0 2.06 0 1.03922 -11.857544 220 5
1.1 0.9;
```

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0 0 0 1.057299 2.403578 220 5 1.1
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0.9;
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             0
                0
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5
   1.1 0.9;
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   5610 1
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                    9.2 0
5
  1.1 0.9;
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                    35.2
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220 5 1.1 0.9;
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             Ω
                0
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0.9;
   5664
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                                         0.956534
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                        0
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0.9;
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5 1.1 0.9;
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                    0
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0.9;
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                    -15.4
                           Ω
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             -0 -0
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         1
             99.4
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5 1.1 0.9;
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1.1 0.9;
```

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5799
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             -0 -0 0
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                                1.044051 -11.822108 220 5 1.1
0.9;
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                         132.04744 0
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                         0
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0.7;
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                     0
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              0
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                         2.22
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          1
              \cap
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220 5 1.1 0.9;
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               Ω
                   0
                        0
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            Ω
                      \Omega
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           91
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                      0
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           0
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                           0 1.026211 -16.329018 220 5
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                        0
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       1 231.9
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       1
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            49.25
                  12 0 7.28
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  6246
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        1 47.65
                              3.63 0 1.062557 -12.82926
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                 -0 0
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                              4.04 0
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                                        -8.297319
                                                   220 5
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                    0
0.9;
                       0.35
                              0 1.04624 -0.834636
                                                   220 5
  6371
          1
             -0 -0
                    Ω
                                                          1.1
0.9;
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             0
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                    0
                       0
                           0
                              1.046714
                                        -0.304027
                                                   220 5
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                                    0
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                           \cap
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                           \cap
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5 1.1 0.9;
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        1
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                       0
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0.9;
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             0 -0 0 6.03
1.1 0.9;
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                    2.1 0 1.92 0 1.010198 -10.933937 220
5 1.1 0.9;
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5 1.1 0.9;
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5 1.1 0.9;
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0.9;
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                  0
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                         1.58
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0.9;
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24.781868 380 5 1.1 0.9;
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380 5 1.1 0.9;
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0.9;
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0.9;
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5 1.1 0.9;
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                Ω
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0.9;
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            Ω
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                    0
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                         34.52 0 1.033083 -6.005598
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                    Ω
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5 1.1 0.9;
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                         Ω
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                Ω
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                          6.93 0
                                    1.001887 -19.403088 220
   9164
  1.1 0.9;
                              5.57 0 1.032906 -20.202148
   9173 1 66.07
                    15.6
                           0
220 5 1.1 0.9;
   9174 2 0
               0
                      0
                           0
                              1.03623 -32.377948 380 5
                    0
                                                     1.1
0.9;
   9176
        1
             -0 0
                    0
                       1.28
                              Ω
                                1.047842
                                          -12.93497
                                                      220 5
1.1 0.9;
   9180
             0
                0
                    0
                       0
                           0
                              1.061189
                                      -8.603491
                                                 220 5
0.9;
   9181 1
                    1.35
                           0
                              0.1 0
                                   1.032498
                                             -9.466095
             2.43
                                                         220
   1.1 0.9;
            66.97
                    18.6
                           0
                              18.5
                                     0
                                       1.051815
   9185 1
220 5 1.1 0.9;
   9189 1 62.57
                    -61 0
                           55.14
                                0
                                     1.048019 -25.022568 220
  1.1 0.9;
            -0 -0 0 2.34
   9191
         1
                             0
                                1.073685
                                           -24.80852
                                                      220 5
1.1 0.9;
         1
             627.36 -73.13 0
                             27.185221 0
   9203
                                          1.001613
12.605605 380 5 1.1 0.9;
         1
            -0 -0 0 10.210952 0 1.023742 -4.653017
  9213
                                                        380
   1.1 0.9;
   9217 1
            -0 0
                   0
                      6.33
                            0
                                1.040155 -8.875709
1.1 0.9;
   9222 1
                   -2.04 0
                              154.446402 0 1.053345
            -5.15
16.073005 380 5 1.1 0.9;
   9231 1 242.08 59.98 0
                             5.6 0 1.029833 -19.150137 220
   1.1 0.9;
   9241 1 0 -0 0 0.36 0 1.049081 -9.481609
                                                      220 5
1.1 0.9;
];
%% generator data
% bus Pg Qg Qmax Qmin Vg mBase status Pmax Pmin
Pc2 Qc1min Qc1max Qc2min Qc2max ramp agc ramp_10 ramp_30 ramp_q
apf
mpc.gen = [
   124 861.3
            56.53 440.32 -172.59 1.081537 100 1 161.3
333.33 0 0 0 0 0 0 0 0 0 0;
```

```
150 67.29 -7.99 77.09 -22.54 1.062805
                                       100 1 160 0 0
   0 0 0 0 0 0 0 0;
                 183.92 -65.3
   221 -155.39 97.68
                               0.984682
                                        100 1
                                               100 -207.18
   0 0 0 0 0 0 0 0 0;
            2.5 55.54 -19.16 1.048249 100 1 120 0 0
   338 83.7
                                                     Λ
   0 0 0 0 0 0 0;
   352 1250.4 278.94 926.35 -297.68 1.055378
                                        100 0
                                               2000
666.67 0 0 0 0 0 0 0 0 0;
   413 231 19.11 124.12 -49.84 1.05013 100 1
                                        280 0
                                               0
                                                 0
                                                     0
              0
   0 0 0
            0
                 0
                    0;
                 257.23 -74.4 1.018914
   453 260.1
           57.98
                                        100 1
                                               540 0
\cap
   0 0 0
           0 0 0 0 0;
   516 539.4
           190.43 261.79 -106.67 1.075592
                                        100 1
                                               600 200 0
   0 0 0
           0 0
                 0 0
                        0 0;
   564 -51.67 -3.31
                  18.47
                        -19.35 1.069817
                                        100 1
                                               100 -68.89
   0 0 0
            0 0
                 0 0
                        0 0
                               0;
   583 -270
            3.65
                  17.88
                        -7.03
                               1.045397
                                        100 1
                                               100 -360
   0 0 0
            0 0
                  0 0
                        0 0
                              0:
            -0.39
                 17.09
                        -7.79 1.063876
   615 38.2
                                        100 1
                                               40 0 0
0
   0 0 0
            0 0
                 0 0
                        0 0;
            37.76 217.9 -81.16 1.048713
   616 379.2
                                        100 1
                                               480 160 0
            0 0
                 0 0
                       0 0;
0
   0 0 0
            112.55 135.52 -38.9
   639 -46.2
                              1.051376
                                        100 1
                                               100 -61.6
   0 0 0
                 0 0 0 0
            0 0
0
                               0;
   682 37.4
            8.53
                  38.77
                        -11.06 1.0691 100 1 80
                                               0
                                                 Ω
                  0 0
\Omega
   0 0 0
            0 0
                        0;
   749 198.88 -11.17 105.69 -43.84 1.057884
                                        100 1
                                               240 0
   0 0 0
            0 0
                 0 0 0 0;
\cap
   757 116.7
            13.66
                  51.3
                        -23.41
                              1.017567
                                        100 1
                                               120 0
                                                     \cap
   0 0 0
            0 0
                  0 0
                        0 0;
                        -6.73
   776 -111.4 3.36
                  18.16
                                        100 1
                                               100 -148.53
                               1.026368
           0 0
                  0 0
                        0 0 0;
\cap
   0 0 0
   778 16.5
            -0.67
                 12.37
                        -9.36 1.049411
                                        100 1
                                               33.58
                                                     0
0
   0 0 0
            0 0 0 0
                        0 0 0;
   795 58.4
            7.75
                  36.75
                        -13.04 1.035522
                                        100 1
                                               80 0
           0 0
                 0 0
   0 0 0
                        0 0;
0
                        -25.54 1.041369
            -1.52
   803 -89.2
                  74.03
                                        100 1
                                               100 -118.93
   0 0 0
            0 0
                  0 0
                        0 0 0;
   823 1274.2 289.74 926.68 -298.31 1.044097
                                        100 0
                                               2000
666.67 0 0 0 0
                 0 0 0 0 0 0;
   851 59.56
           50.82
                 96.64
                        -27.81 1.00025 100 1 200 0
   0 0 0
           0 0
                 0 0 0;
           147.86 440.67 -172.15 1.031745
   858 855.6
                                        100 1
                                               1000
           0 0
                  0 0 0 0 0 0 0;
333.33 0 0
   891 1702.8 651.53 1097.41 -373.91 1.064525
                                        100 0
                                               2400
                                                     800
   0 0 0 0 0 0 0 0 0;
   972 1221.2 393.14 934.73 -291.52 1.072621
                                       100 0
                                               2000
666.67 0 0 0 0 0 0 0 0 0;
         92.1
              25.97 55.02 -19.81 1.074143 100 1 120 0
   1001
         0 0 0 0 0 0 0;
   0 0
                        -35.15 1.041506
         171 10.89
                 89.55
   1002
                                        100 1
                                               200 0
   0 0
         0 0
               0
                  0
                     0
                        0
                           0;
         829.5
               49 387.88 -163.4 1.028946
  1043
                                        100 0
                                               900 300 0
   0 0
         0 0
              0 0 0 0 0;
   1083
         91.8
              9.85 54.91 -19.88 1.049472 100 1 120 0
\Omega
   0 0
         0 0
              0 0 0 0 0;
```

```
1093 837 83.03 550.69 -185.15 1.027056 100 1 1200
                                                400
       0 0 0 0 0 0 0;
  0 0
       58.2 5.6 36.8 -13.01
0 0 0 0 0 0;
                      -13.01 1.042801
  1100
                                    100 1
                                           80 0
  0 0
  1102
        -124.15 7.32 38.05 -11.59 1.049879
                                       100 1
                                              100 -
165.54 0
       0 0 0 0 0 0 0 0;
        1504.8 364.78 906.61 -319.44 1.108028 100 1
                                              2000
666.67 0 0 0 0 0 0 0 0 0;
        837 77.94 550.69 -185.15 1.027102
  1251
                                     100 0 1200
                                                400
        0 0 0 0 0 0 0;
  0 0
        -124.1 4.52
  1295
                   36.92 -12.88 1.03682 100 1 100 -165.47
  0 0
        0 0 0 0 0 0 0;
  1341
        67.2 29.74 57.03 -17.62 1.032899 100 1
                                             120 0
  0 0
        0 0 0 0 0 0 0;
  1354
        -246.5 13.72 38.08 -11.73 1.041045
                                       100 1
                                             100 -
        0 0 0 0 0 0 0 0 0;
328.67 0
                              1.04353 100 1 100 -134.67
        -101
             2.33
                   18.09 -6.79
  1422
  0 0
        0 0
             0 0
                   0 0 0 0;
              2.95 37.72 -12.09 1.047684
  1436
        49.4
                                        100 1
                                              80 0
  0 0
        0 0
              0 0 0 0 0 0;
              7.49
                    36.4
                         -13.44 1.048068
  1478
        62.6
                                        100 1
                                              80
  0 0
        0 0 0 0 0 0 0;
0
                    37.66 -12.17 1.043862
  1604
        50.6
              13.86
                                        100 1
                                              80
                    0 0 0 0;
  0 0
        0 0
              0 0
                                        100 1
  1642
        50.4
              11.76
                    37.74 -12.11 1.028554
                                              80
              0 0
  0 0
        0 0
                   0 0 0 0;
        1250.4 274.36 928.89 -296.1 1.04395 100 0 2000
  1680
        0 0 0 0 0 0 0 0 0;
666.67 0
  1708
        860.8 121.94 439.37 -173.3 1.037938
                                        100 1
                                              1000
        0 0 0 0 0 0 0 0 0;
333.33 0
             1.73
                   18.52
                         -6.39
  1721
        28.1
                               1.062238
                                        100 1
                                              40
        0 0 0 0 0 0 0;
0 0 0
        40 3.62 16.99 -7.92 1.04286 100 1
                                        41.06
  1754
        0 0 0 0 0 0 0;
  1794
       1250.4 253.94 926.35 -297.68 1.05295 100 1 2000
666.67 0 0 0 0 0 0 0 0 0;
             -13.17 111.23 -38.16 1.046224
        -0.6
                                        100 1 100 -
  1808
0.8 0 0 0 0 0 0 0 0 0 0;
        15.6 -1.26 11.76 -8.89 1.04762 100 1 31.92
  1851
0 0 0
       0 0 0 0 0 0 0;
  1852
        -241.8 10.63 58.16 -16.52 1.054325
                                        100 1
                                             100 -
        0 0 0 0 0 0 0 0 0;
322.4 0
        573.68 42.43 396.02 -155.83 1.039377
  1888
                                        100 1
                                              912.78
        0 0 0 0 0 0 0 0 0;
312.78 0
        115.5
  1914
             -45.22 160.36 -150.95 1.035636
                                        100 1
                                              472.16
39.35 0
        0 0 0 0 0 0 0 0 0;
        31 0.56 18.14 -6.75 1.064692 100 1 40 0 0
  1959
        0 0 0 0 0 0;
        855.6 149.85 441.85 -171.27 1.03088 100 1 1000
  2035
        0 0 0 0 0 0 0 0 0;
333.33 0
             -16.43 962.2 -263.65 1.009914
  2050
        836.2
                                       100 0 2000
             0 0 0 0 0 0 0;
666.67 0
        0 0
        176 31.77 88.39 -36.19 1.040351 100 1
  2085
                                          200 0 0
 0 0
        0 0 0 0 0 0;
  2177
        -121.3 13.33 58.35 -16.26 1.07333 100 1 100 -161.73
        0 0 0 0 0 0 0;
```

```
-53.29 -1.42 19.51 -14.74 1.035528 100 1 100 -
       0 0 0 0 0 0 0 0 0;
71.05 0
              -22.64 41.67 -36.5 1.05324 100 1
   2276
        38.9
                                            119.3
   0 0
        0 0
             0 0 0 0 0;
   2291
        110.5 13.69 95.69 -28.93 1.072528
                                          100 1
                                                200 0
   0 0
         0 0 0 0 0 0 0;
   2359
         78.2
              7.2 34.35 -15.5 1.024884 100 1
                                             80
  0 0
       0 0 0 0 0 0;
        -320.4 4.66
                    37.39 -12.45 1.047766
   2421
                                          100 1
                                                100 -
        0 0 0 0 0 0 0 0 0 0;
427.2 0
        -100.5 5.31 54.3 -20.49 1.041186
  2425
                                          100 1
                                                100 -
134
   0
        0 0 0 0 0 0 0 0 0;
   2426
        -43.2 -30.65 105.34 -99.02 1.037687
                                          100 1
                                                100 -
57.6 0
        0 0 0 0 0 0 0 0 0;
   2446
        1367
              286.48 921.62 -304.73 1.06157 100 0 2000
666.67 0
         0 0
              0 0 0 0 0 0 0;
   2468
               5.15
                     38.02
                           -11.81 1.048132
                                          100 1
                                                80 0
         46.8
   0 0
         0 0
              0 0
                    0 0 0 0;
                    39.12 -10.71 1.042777
                                          100 1
   2481
         31.8
              11.5
                                                80
   0 0
         0 0
               0 0 0 0 0 0;
   2489
         286.5
               -15.8 162.4 -61.79 1.049366
                                          100 1
                                                360 0
               0 0 0 0
0
   0 0
         0 0
                          0 0;
         54.3
               4.31
                     58.23
                          -16.49 1.049384
   2550
                                          100 1
                                                120 0
               0 0
   0 0
         0 0
                     0 0
                          0 0;
  2600
         76.48
               16.9
                     76.08 -23.59 1.038821
                                          100 1
                                                160 0
         0 0
0
   0 0
               0 0
                     0 0
                          0 0;
               302.84 921.52 -304.79 1.061488
   2627
         1367
                                          100 0
                                                2000
666.67 0
         0 0
                     0 0 0 0 0 0;
               0 0
         41.92
               3.94
                     51.94
                          -22.8 1.036517
   2653
                                          100 1
                                                120 0
               0 0
   0 0
         0 0
                     0 0
                          0 0;
         77.6
               -15.35
                    70.15
                          -58.1 1.035384
                                                196.72
   2719
                                          100 1
  0 0
              0 0 0 0 0 0;
         0 0
         1221.2 372.42 934.81 -291.47 1.073795
   2786
                                          100 1
                                                2000
        0 0 0 0 0 0 0 0 0;
        -95.1 -11.62 88.33 -36.33 1.042226
   2797
                                          100 1
                                                100 -
        0 0 0 0 0 0 0 0 0;
126.8 0
              -1.21 77.91 -21.66 1.05396 100 1 160 0 0
        66.8
  2799
              0 0 0 0
  0 0
         0 0
                          0;
         1250.4 270.9 926.26 -297.74 1.053944 100 0
  2816
                                                2000
666.67 0
         0 0 0 0 0 0 0 0 0;
   2841
         80.7
              -3.29
                    55.98 -18.76 1.08248 100 1 120 0
   0 0
         0 0
             0 0
                    0 0 0;
                          -6.74 1.043712
              5.75
   2842
         31.6
                    18.19
                                         100 1
                                               40
             0 0 0 0 0;
   0 0
         0 0
                            1.063841 100 1 9.05
   2872
         4.5 0.33 3.31
                       -2.54
         0 0 0 0 0 0 0;
   0 0
\cap
         8.95
              -11.72 72.95 -68.71 1.057626
                                          100 1
   2878
                                                214.86
         0 0 0 0 0 0 0 0;
0
   0 0
         60.9
              10.71 57.69 -17.02 1.055151
   2886
                                          100 1
                                                120 0
         0 0 0 0 0 0 0;
0
   0 0
                          -5.72
   2902
         20.9
               1.11
                    19.19
                                 1.059072
                                          100 1
                                                40
              0 0 0
0
   0 0
         0 0
                       0 0 0;
              2.49
                    37.24 -12.54 1.047695
   2930
         53.2
                                          100 1
                                                80
                                                   0
0
   0 0
         0 0
              0 0 0 0 0 0;
   2934
         3.4 -0.16 2.51 -1.91 1.051149 100 1 6.83
              0 0 0 0 0;
0
   0 0
         0 0
```

```
46.6 -69.84 184.46 -132.67 1.053607
                                         100 1
                                               493.35
        0 0 0 0 0 0 0 0;
 0 0
              -4.77 89.61
                          -34.82 1.041705
   3018
        162.5
                                         100 1
                                                200 0
              0 0 0 0 0;
  0 0
        0 0
              146.13 441.85 -171.27 1.030654
  3028
        855.7
                                         100 1
                                                1000
333.33 0
        0 0
               0 0 0 0 0 0 0;
  3114
        38.6
               4.12
                   17.33 -7.61 1.071964
                                         100 1
                                                40 0
  0 0
        0 0
               0 0 0 0 0 0;
              0.39 113.97 -35.56 1.065372
  3133
        85.54
                                         100 1
                                                240 0
              0 0 0 0 0;
  0 0
        0 0
   3134
        -136.3 -11.71 70.25 -29.33 1.023117
                                         100 1
                                                100 -
181.73 0
        0 0 0 0 0 0 0 0 0;
  3183
        98.7
             -3.57 53.7 -20.98 1.055515
                                         100 1
                                                120 0
  0 0
        0 0 0 0 0 0 0;
   3205
        416.7 119.72 243.61 -88.46 1.041982
                                         100 1
                                                540 0
        0 0 0 0 0 0 0;
  0 0
                    36.79
   3218
        -107.4 4.44
                          -13 1.028507 100 1 100 -143.2
        0 0 0 0 0 0 0;
  0 0
        -42.3 -25.61 62.23 -51.37 1.050305
   3240
                                         100 1
                                               100 -
56.4 0
        0 0 0 0 0 0 0 0 0;
        861.3 143.67 439.2 -173.43 1.071978
   3306
                                         100 1
                                                1000
       0 0 0 0 0 0 0 0 0;
333.33 0
        -26.48 12.72 38.13 -11.64 1.014126
                                         100 1
  3324
                                                100 -
        0 0 0 0 0 0 0 0 0;
35.3 0
  3346
        56.8 11.49 37.1
                          -12.76 1.01594 100 1 80
  0 0
        0 0 0 0 0 0;
        19.07 5.42 38.2 -11.61 1.045739
  3353
                                        100 1
        0 0 0 0 0 0 0;
   0 0
   3364
        44.5
              -21.96 47.19 -41.44 1.0538 100 1
                                            135.27
         0 0 0 0 0 0 0;
   0 0
                 54.59
                       -20.19 1.039984
         2.4 12.68
                                     100 1
   3390
                                            120 0
   0 0
        0 0 0 0 0 0;
   3422
        53.7
             -3.24 58.19 -16.5 1.063657
                                        100 1 120 0
   0 0
         0 0 0 0 0 0 0;
   3436
         521 217.43 550.97 -184.89 1.060777 100 0
                                            1200
        0 0 0 0 0 0 0;
   0 0
0
        -370.8 2.02 53.75 -21.08
0 0 0 0 0 0 0 0;
                    53.75 -21.08 1.04852 100 1 100 -494.4
   3492
0
   0 0
  3513
        829.8 51 387.88 -163.4 1.028771 100 1
                                            900 300 0
  0 0
        0 0 0 0 0 0;
        15.88 2.27 38.83 -10.97 1.081614 100 1
  3565
        0 0 0 0 0 0 0;
  0 0
        539 189.12 261.7 -107.36 1.07602 100 1 600 0
   3580
                                                0
        0 0 0 0 0 0;
   0 0
                    54.59 -20.12 1.03905 100 1 100 -167.2
   3611
        -125.4 3.51
   0 0
        0 0 0 0 0 0 0;
   3656
        -26.2 12.26 116.07 -33.32 1.070983
                                         100 1
                                               100 -
        0 0 0 0 0 0 0 0 0;
34.93 0
        861.2 118.75 441.04 -172.05 1.059676
   3661
                                         100 1
                                                1000
       0 0 0 0 0 0 0 0 0;
333.33 0
        -12.58 3.09 36.34 -13.47 1.041813
0 0 0 0 0 0 0 0 0;
   3698
                                         100 1
                                                100 -
16.78 0
        854.7 190.06 548.57 -187.16 1.031629
  3741
                                         100 1
                                                1200
400 0 0 0 0 0 0 0 0 0;
        257 122.15 313.01 -116.73 1.084785 100 0 700 233.33
0 0 0 0 0 0 0 0 0 0;
```

```
3825
        837.3 54.8 388.17 -163.4 1.026994
                                         100 1
                                               900 300
        0 0 0 0 0 0 0;
 0 0
        855.6 148.23 440.69 -172.14 1.031907
  3869
                                         100 1
                                               1000
        0 0 0 0 0 0 0 0 0;
333.33 0
  3876
        -25.1 6.45 34.27 -15.52 1.044501
                                         100 1
                                               100 -
33.47 0
        0 0 0 0 0 0 0 0 0;
  3916
        -21.27 11.22 38.02 -11.77 1.043758
                                         100 1
                                               100 -
        0 0 0 0 0 0 0 0 0;
28.37 0
        -27.1 -74.05 126.16 -127.56 1.027439
                                         100 1
                                               100 -
  3951
36.13 0
        0 0 0 0 0 0 0 0 0;
  3971
        -134.5 9.64 55.67 -19.09 1.063145
                                         100 1
                                               100 -
179.33 0
        0 0 0 0 0 0 0 0;
  4024
        89.5 40.38 97.07 -27.44 1.040328
                                         100 1
                                               200 0
  0 0
        0 0 0 0 0 0 0;
  4056
        -76.9 3.73 38.05 -11.77 1.038526
                                               100 -
                                         100 1
        0 0 0 0 0 0 0 0 0;
102.53 0
        366.1
             46.44 264.94 -103.74 1.063234
                                         100 1
                                               600 0
  4084
  0 0
        0 0 0 0 0 0 0;
        41 5.09 38.37 -11.4 1.027195 100 1
  4118
                                            80
                                               0
                                                  0
  0 0
        0 0 0 0 0 0;
             16.3
                    36.89 -13 1.003502
  4125
        59.6
                                     100 1
                                            80
                                               0
                                                  0
        0 0 0 0 0 0;
0
  0 0
        67.5 24.27 57.03 -17.63
0 0 0 0 0 0 0 0;
              24.27 57.03 -17.63 1.019761
  4128
                                         100 1
                                               120 0
  0 0
  4231
        2641.24 771.6 99999 -99999 1.049182
                                         100 0
                                               4188.95
1333.33 0
        0 0 0 0 0 0 0 0 0;
        60.2 6.92
  4331
                    36.73 -13.12 1.028646
                                         100 1
                                               80 0
 0 0
        0 0 0 0 0 0 0;
  4395
        -129.1 6.73
                    38.48 -11.33 1.039834
                                         100 1
                                               100 -
        0 0 0 0 0 0 0 0 0;
172.13 0
        861.3
             121.55 441.04 -172.05 1.059565
                                               1000
  4419
                                         100 1
       0 0 0 0 0 0 0 0 0;
333.33 0
        861.3 143.79 439.2 -173.43 1.071852
                                               1000
  4480
                                         100 0
333.33 0 0 0 0 0 0 0 0 0 0;
              13.53 38.85 -10.95 1.049914
  4482
        35.2
                                         100 1
                                               80 0
       0 0 0 0 0 0 0;
  0 0
        -171.8 12.84 37.86 -11.95 1.036047
  4506
                                         100 1
                                               100 -
      0 0 0 0 0 0 0 0 0;
229.07 0
        -30.39 6.81 37.94 -11.87 1.073282
  4566
                                         100 1
                                               100 -
40.51 0
        0 0 0 0 0 0 0 0 0;
        68 8.25 35.62 -14.19 1.042135 100 1 80
  4624
       0 0 0 0 0 0;
  0 0
        -78.9 2.19 19.14 -5.77 1.049813
  4661
                                         100 1
                                               100 -
        0 0 0 0 0 0 0 0 0 0;
105.2 0
        93.2
  4701
             -41.31 98.4 -86.29 1.043063
                                         100 1
                                               281.85
 0 0
        0 0 0 0 0 0 0 0;
        861.3 141.62 439.2 -173.43 1.071981
                                         100 0
                                               1000
  4783
333.33 0 0 0 0 0 0 0 0 0 0;
        -26.08 10.07 38.37 -11.44 1.067305
                                               100 -
  4816
                                         100 1
        0 0 0 0 0 0 0 0 0;
34.77 0
             150.1 440.69 -172.14 1.031907
  4819
        855.6
                                         100 1
                                               1000
             0 0 0 0 0 0 0;
333.33 0
        0 0
                          -2.07 1.067114
              1.59
  4823
        10.3
                    4.44
                                         100 1
                                               10.46
  0 0
        0 0
             0 0
                   0 0 0 0 0;
  4850
        88.8
              11.86
                    76.52 -23.19 1.054975
                                         100 1
  0 0
        0 0
              0 0
                    0 0 0 0;
```

```
-40.3 5.06 75.62 -23.96 1.034991
   4880
                                         100 1
                                              100 -
      0 0 0 0 0 0 0 0 0;
53.73 0
        41.69 8.64 37.27 -12.57 1.057325
0 0 0 0 0 0 0 0;
  4918
        41.69
                                          100 1
                                                80 0
  0 0
  4952
        -12.57 4.47 37.23 -12.61 1.045386
                                         100 1
                                                100 -
16.77 0
        0 0 0 0 0 0 0 0;
   5004
        54.3 4.85 74.73 -70.41 1.0663 100 1 220.12 0
   0 0
         0 0 0 0 0 0 0;
                    37.72 -12.09 1.047693
   5019
        49.4
              2.95
                                         100 1
                                                80 0
             0 0 0 0 0;
   0 0
         0 0
   5051
        83.48 -1.38 74.55 -24.97 1.037373
                                         100 1
                                                160 0
\cap
   0 0
        0 0 0 0 0 0 0;
   5067
        542 142.39 258.91 -109.58 1.021924 100 1 600 0
   0 0
        0 0 0 0 0 0;
   5110
        -52.51 8.27
                   38.28 -11.5 1.032061
                                          100 1
                                                100 -
        0 0 0 0 0 0 0 0 0;
70.01 0
        75.6
              -5.04 56.35 -18.42 1.055539
                                          100 1
                                                120 0
   5120
  0 0
        0 0 0 0 0 0 0;
        1713.6 139.22 882.86 -343.24 1.035201
   5144
                                          100 0
                                                2000
666.67 0
         0 0 0 0 0 0 0 0 0;
                    75.02 -24.74 1.052719
   5237
        106.8 10.9
                                          100 1
                                                160 0
        0 0 0 0 0 0 0;
  0 0
              -0.06 51.3
                          -23.49 1.042037
        119.4
                                                120 0
  5278
                                          100 1
        0 0 0 0 0 0 0;
 0 0
  5340
                                         100 1
        -159 11.05 36.37 -13.43 1.054941
                                                100 -
        0 0 0 0 0 0 0 0 0;
212 0
        19.59 1.13 18.14 -6.75 1.061754
  5365
                                          100 1
                                                40 0
       0 0 0 0 0 0 0;
 0 0
   5379
        1250.6 358.22 926.47 -297.63 1.107976
                                          100 0
                                                2000
666.67 0
       0 0 0 0 0 0 0 0 0;
        -395.8 3.01
                    58.06 -16.66 1.048137
                                                100 -
   5395
                                          100 1
527.73 0
        0 0 0 0 0 0 0 0 0;
        43.4 10.92 38.26 -11.55 1.06213 100 1 80
   5461
 0 0
        0 0 0 0 0 0;
        1368.6 146.68 920.31 -305.64 1.063711
  5481
                                         100 0
                                                2000
        0 0 0 0 0 0 0 0 0;
666.67 0
              -22.21 101.32 -48.12 1.044486
        56.8
  5482
                                          100 1
                                                249.06
        0 0 0 0 0 0 0 0;
 0 0
        861.3 119.59 441.04 -172.05 1.059636
  5486
                                         100 1
                                                1000
333.33 0
       0 0 0 0 0 0 0 0 0;
   5488
        -96.4 14.63 37.49 -12.33 1.041881
                                               100 -
                                         100 1
        0 0 0 0 0 0 0 0 0;
128.53 0
        3424.8 295.7 1765.36 -686.67 1.068845
   5490
                                         100 1
                                                4000
        0 0 0 0 0 0 0 0 0;
1333.33 0
                       -35.71 1.038212 100 1
   5533
        173 14.6 88.87
                                             200 0
   0 0
        0 0 0 0 0 0;
   5546
         21.5
              1.97 19.16 -5.75 1.05378 100 1
                                             40
                                                   0
   0 0
         0 0 0 0 0 0;
   5564
         57.6
              11.81 36.8 -12.99 1.04123 100 1
                                             80
                                               0
                                                   0
         0 0 0 0 0 0;
0
   0 0
        229.8 77.84 103.18 -46.25 1.017689 100 1
0 0 0 0 0 0 0;
   5658
                                                240 0
0
   0 0
        128 14.87 72.71 -27.05 1.070507
   5664
                                      100 1
                                             160 0
0
   0 0
        0 0 0 0 0 0;
        837 75.6 550.69 -185.15 1.027078 100 1
                                            1200
        0 0 0 0 0 0 0;
0
```

```
1102.83 396.26 779.29 -324.79 1.0396 100 0 1800 600
        0 0 0 0 0 0 0;
  0 0
             41.72 196.98 -77.17 1.044051
                                       100 1
  5814
        181.2
                                             440
        0 0 0 0 0 0 0 0 0;
146.67 0
        305.7 19.99 214.13 -85 1.038417 100 1
  5856
                                           480 160 0
  0 0
        0 0 0 0 0 0;
  5881
        60 7.13 36.72 -13.13 1.065605 100 1
                                           80 0
       0 0 0 0 0 0;
  0 0
        -74.9 4.51
                   17.21 -7.73 1.030075
  5940
                                        100 1
                                              100 -
99.87 0 0 0 0 0 0 0 0 0;
  5971
        1221.2 370.23 934.54 -291.64 1.070056
                                         100 1
                                              2000
666.67 0 0 0 0 0 0 0 0 0;
  5983
        -102.5 3.55 37.27 -12.59 1.066029
                                        100 1
                                              100 -
136.67 0
        0 0 0 0 0 0 0 0 0;
  5994
        -87.3
             -16.58 60.51 -61.08 1.029184
                                              100 -
                                         100 1
        0 0 0 0 0 0 0 0 0;
116.4 0
             300.86 390.4 -161.16 1.043738
        820.2
                                        100 0
                                               900 300
  6036
  0 0
        0 0
              0 0 0 0 0;
        94.3
              -78.07 249.65 -261.82 0.988112
  6153
                                        100 1
                                              769.94
              0 0 0 0 0 0 0;
32.08 0
        0 0
        26.3
              0.4 19.86 -14.93 1.040343 100 1 53.76
  6168
        0 0
              0 0 0 0 0 0;
  0 0
              24.55 58.12 -16.6 1.040598
        55.5
                                        100 1
  6291
                                              120 0
              0 0 0 0 0;
  0 0
        0 0
  6331
        48.8
              5.01 37.76 -12.05 1.052181
                                         100 1
                                              80
             0 0 0 0 0 0;
0
  0 0
        0 0
        96 -9.58 96.56 -27.95 1.062214 100 1
  6332
                                          200 0
  0 0
        0 0 0 0 0 0;
        22.08 14.99 38.29 -11.56 1.064446
  6351
                                        100 1 80
        0 0 0 0 0 0 0;
  0 0
                51.11
                      -23.46 1.043835 100 1
        -145.3 3
                                          100 -193.73
  6368
  0 0
        0 0 0 0 0 0 0;
        -27.8 -23.17 148.65 -50.73 1.046714
                                        100 1 100 -
  6376
37.07 0
       0 0 0 0 0 0 0 0 0;
        171 18.2 88.83 -35.69 1.039574 100 1
  6429
                                           200 0 0
        0 0 0 0 0 0;
  0 0
              -12.86 438.72 -174.15 1.06557 100 1 1000
        718.5
  6474
333.33 0
        0 0 0 0 0 0 0 0 0;
        228.2 12.73 126.73 -47.83 1.052452
  6516
                                        100 1
                                              280 0
  0 0
        0 0 0 0 0 0 0;
  6552
        -204.2 5.93 37.58 -12.16 1.048796
                                              100 -
                                         100 1
        0 0 0 0 0 0 0 0 0;
272.27 0
             -77.78 311.52 -132.09 1.061492
        382.7
  6734
                                         100 1
                                               720 0
  0 0
        0 0
              0 0 0 0 0;
                    77.14
  6807
        44.07
              31.99
                         -22.46 1.006037
                                         100 1
                                              160 0
  0 0
        0 0
              0 0 0 0 0;
        16.53
              -8.62 77.35 -22.26 1.053803
                                              160 0
  6816
                                         100 1
        0 0
              0 0 0 0 0 0;
  0 0
        15.9
              -0.62 11.99 -9.06 1.049557
                                         100 1
  6820
                                               32.53
             0 0 0 0 0 0 0;
       0 0
  0 0
                   35.62 -14.25 1.031347
        -57.5
  6831
              4.01
                                         100 1
                                               100 -
76.67 0 0 0 0 0 0 0 0 0 0;
       102.9 17.09 53.24 -21.47 1.055216
  6845
                                         100 1
                                              120 0
0 0 0 0 0 0 0 0 0;
  6852
        -344.9 1.84 18.56 -6.34 1.031296
                                        100 1
459.87 0
       0 0 0 0 0 0 0 0 0;
```

```
2463.6 391.48 1865.83 -585.95 1.021411 100 0 4000
       0 0 0 0 0 0 0 0 0;
1333.33 0
                       -59.87 1.039234 100 1 300 88.67
         133 6.97
                 189.31
   6888
         0 0 0 0 0 0 0 0;
   0 0
   6947
         227.5 5.93
                     126.09 -48.29 1.051367
                                          100 1
                                                 280 0
   0 0
         0 0 0 0 0 0 0;
   6969
         39.8
               -1.81 38.53 -11.27 1.059486
                                           100 1
                                                 80 0
   0 0
         0 0 0 0 0 0 0;
                    56.22 -18.44 1.036531
   6982
        -12.6 9.53
                                           100 1
                                                 100 -
        0 0 0 0 0 0 0 0 0;
16.8 0
  7036
        65.8
              11.07 36.16 -13.72 1.041241
                                          100 1
                                                 80 0
0
   0 0
         0 0
              0 0 0 0 0 0;
  7049
         55.5
              16.47 58.18 -16.56 1.049669
                                          100 1
                                                 120 0
  0 0
         0 0
              0 0 0 0 0;
  7056
         448.85 137.55 267.36 -100.98 1.006597
                                           100 1
                                                 600 200
   0 0
         0 0
               0 0 0 0 0 0;
   7115
         65.87
               13.66
                     95.06
                           -83.34 1.008722
                                           100 1
                                                 272.28
   0 0
         0 0
              0 0 0 0 0 0;
         861.3 121.21 441.04 -172.05 1.059575
  7159
                                           100 0
                                                 1000
333.33 0
         0 0 0 0 0 0 0 0 0;
         1250.6 358.08 926.47 -297.63 1.107733
   7183
                                          100 1
                                                 2000
666.67 0
         0 0 0 0 0 0 0 0 0;
         7.3 0.36 3.12 -1.46 1.0 0 0 0 0;
                       -1.46 1.051113 100 1 7.35 0
  7209
  0 0
  7267
        -39.7 22.41 89.84 -34.84 1.010817
                                           100 1
                                                 100 -
        0 0 0 0 0 0 0 0 0;
52.93 0
        2340.4 94.47 1862.29 -588.16 1.034538
  7282
                                           100 1
                                                 4000
1333.33 0
        0 0 0 0 0 0 0 0 0;
         59.06 19.56 76.11
                           -23.62 1.043172
  7327
                                          100 1
                                                 160 0
         0 0 0 0 0 0 0;
 0 0
         53 24.18
                 37.45
                       -12.39 0.999675 100 1 80
  7328
 0 0
       0 0 0 0 0 0;
        -202.53 33.59 75.85 -77.06 1.057257
  7466
                                           100 1
                                                 100 -
270.04 0
        0 0 0 0 0 0 0 0 0;
                    56.27 -18.41 1.027108
  7474
         76.5 8.44
                                           100 1
                                                 120 0
         0 0 0 0 0 0 0;
  0 0
              67.52
                    214.23 -59.77 1.035256
  7495
         75.8
                                           100 1
                                                 200
              0 0
50.53 0
         0 0
                    0 0 0 0 0 0;
  7520
         702.4 277.3 350.36 -140.73 1.037447
                                           100 1
                                                 800
         0 0
266.67 0
              0 0 0 0 0 0 0;
  7522
         508 235.59 371.11 -119.67 0.99994 100 1
                                           800 266.67 0
              0 0 0 0 0;
  0 0
         0 0
                     378.21 -162.35 1.051427
         769.2
               22.2
   7641
                                           100 1
                                                 880 200
                    0 0 0 0;
   0 0
         0 0
              0 0
  7697
         228.2
               12.72
                     126.73 -47.83 1.052424
                                           100 1
                                                 280 0
   0 0
         0 0
              0 0 0 0 0;
         1221.2 354.58 934.73 -291.52 1.072261
                                          100 0
                                                 2000
   7776
666.67 0
         0 0 0 0 0 0 0 0 0;
   7808
         1250.4 279.8 926.35 -297.68 1.054562
                                           100 1
                                                 2000
              0 0 0 0 0 0 0;
666.67 0
         0 0
         165 23.34 90.08 -34.56 1.001912 100 1 200 0 0 0 0 0 0;
  7842
 0 0
         1368.6 146.28 920.41 -305.58 1.063764
  7913
                                          100 1
                                                 2000
666.67 0
         0 0 0 0 0 0 0 0 0;
  7998
         811.8 175.43 391.57 -160.95 1.048854
                                          100 1
0 0 0
         0 0 0 0
                    0 0 0 0;
```

```
-27 4.11 75.67 -23.96 1.066913
                                    100 1 100 -36 0
        0 0 0 0 0 0;
  0 0
        992 864.28 99999 -99999 1.067387
  8109
                                      100 1
                                            1041.6 0
  0 0
        0 0 0 0 0
                      0 0 0;
        153 -2.71 91.67 -33.01 1.052602
  8158
                                      100 1
                                            200 0
  0 0
        0 0 0 0 0 0;
  8222
        66.8 17.58 35.76 -14.05 1.02335 100 1
                                            80 0
        0 0 0 0 0 0 0;
  0 0
0
        17 6.35
                19.49 -5.42 1.071504 100 1
                                            40
                                                  0
  8225
                                              0
        0 0 0 0 0 0;
  0 0
  8267
        203.4 -3.04 106.84 -42.56 1.043326 100 1
                                               240 0
  0 0
       0 0 0 0 0 0 0;
  8311
        -8.75 3.43 17.8 -7.13 1.035451
                                        100 1
                                              100 -
11.66 0
        0 0 0 0 0 0 0 0 0;
  8312
        1702.2 433.08 1096.33 -374.64 1.07814 100 1 2400 800
        0 0 0 0 0 0 0;
  0 0
              -58.18 474.42 -138.49 1.042925
  8458
        517.1
                                         100 1
                                               1000
333.33 0
       0 0 0 0 0 0 0 0 0;
  8473
       -135 -7.13 90.21 -34.45 1.039202
                                        100 1
                                               100 -
180 0
        0 0 0 0 0 0 0 0 0;
        78.8 9.58 34.16 -15.67 1.04752 100 1 80
  8486
        0 0 0 0 0 0;
 0 0
        32.3
              -18.17 93.03 -31.43 1.053872
  8515
                                         100 1
                                               200 0
       0 0 0 0 0 0 0;
0 0 0
  8522

      -75.69
      1.02
      3.61
      -1.69
      1.019671

                                         100 1
                                               100 -
        0 0 0 0 0 0 0 0 0;
100.92 0
        -65 20.7 51.91 -22.86 1.019727 100 1 100 -86.67
  8564
       0 0 0 0 0 0 0;
0 0 0
        -138.3 10.82 37.4 -12.46 1.049066
  8670
                                         100 1
                                               100 -
        0 0 0 0 0 0 0 0 0;
184.4 0
        -259.1 12.69 34.92 -14.96 1.018762
  8676
                                               100 -
                                         100 1
345.47 0
        0 0 0 0 0 0 0 0 0;
        -37.28 0.32 54.32 -20.39 1.041975
  8683
                                         100 1
                                               100 -
49.7 0
        0 0 0 0 0 0 0 0 0;
        1232.6 152.55 932.68 -293.14 1.054052
  8721
                                         100 0
                                               2000
        0 0 0 0 0 0 0 0 0;
666.67 0
              -6.14 111.7 -37.85 1.054157
        166.2
  8795
                                         100 1
                                               240 0
 0 0
        0 0 0 0 0 0 0;
        -304
  8807
             3.53
                   35.84 -14.07 1.05109 100 1 100 -405.33
 0 0
        0 0
             0 0 0 0 0 0;
  8818
        44.66
             -2.57 76.87 -22.75 1.050791
                                        100 1
                                             160 0
  0 0
        0 0 0 0 0 0 0;
        1232.6 140.05 932.68 -293.14 1.053844
  8872
                                        100 1
                                               2000
        0 0 0 0 0 0 0 0 0;
666.67 0
        17 -1.08 28.99 -28.41 1.020268 100 1 86.73 0
  8903
 0 0
       0 0 0 0 0 0 0;
        -255.7 7.67 38.23 -11.61 1.047268
                                        100 1
  8950
                                               100 -
        0 0 0 0 0 0 0 0 0;
340.94 0
        -61.8 -11.18 53.52 -50.38 1.035459
                                         100 1
  8961
                                               100 -
        0 0 0 0 0 0 0 0 0;
82.4 0
        110 15.22 95.65 -28.95 1.046972 100 1 200 0 0
  8976
        0 0 0 0 0 0 0;
0 0 0
  8997
        78.2
              -5.23 107.59 -101.48 0.997131
                                        100 1
                                               317.09
0 0 0
        0 0 0 0 0 0 0 0;
  9067
        369.6 48.34 198.07 -76.34 1.040924
                                        100 1
       0 0 0 0 0 0 0 0 0;
146.67 0
```

```
698.8 0.54 442.99 -169.92 1.02885 100 1 1000
         0 0 0 0 0 0 0 0 0;
333.33 0
          -239.23 -1.6 18.65 -14.16 1.046626
0 0 0 0 0 0 0 0 0;
   9108
                                                    100 1
                                                           100 -
318.97 0
                 18.81 335.96 -93.23 1.049768
   9137
          42.7
                                                    100 1
                                                           100
         0 0 0 0 0 0 0 0 0;
28.47 0
   9140
          -37.2 28.17 73.19 -26.48 1.049624
                                                    100 1
                                                           100 -
49.6 0
          0 0 0 0 0 0 0 0;
          860.8 117.32 439.38 -173.28 1.037969
   9150
                                                    100 1
                                                           1000
333.33 0
           0 0
                  0 0
                         0 0 0 0 0;
                        175 -49.16 1.03623 100 1
   9174
           -331.4 142.7
                                                    100 -441.87 0
   0 0
           0 0 0 0
                        0 0 0;
   9180
           72 7.71
                     77.69 -21.97 1.061189 100 1 160 0 0
0
     0
             0
                  0
                      0
                          0
                            0
                                 0;
];
%% branch data
% fbus tbus r x b rateA
                                     rateB
                                            rateC
                                                    ratio
                                                           angle
status angmin angmax
mpc.branch = [
   7351
           5441
                  0.00018 0.000781
                                     0
                                         0
                                            0
                                                0
                                                    0
                                                        0
                                                           1
360 360;
   4314
           7571
                  0.002961 0.01669 0
                                         319 0
                                                0
                                                    0
                                                        \Omega
                                                           1
   360;
                  0.00056 0.00432 0
   5803
           3916
                                     0
                                         0
                                            0
                                                0
                                                    0
                                                        1
                                                           -360
360;
   6757
           6036
                  0.0002 0.00246 0
                                     657 0
                                            0
                                                0
                                                    0
                                                        1
                                                           -360
360;
   6757
           6921
                  0.0003 0.00377 0
                                     1315
                                            0
                                                0
                                                    0
                                                        0
                                                           1 -
360 360;
   5019
           9112
                  0.00014 0.00057 0
                                         0
                                            0
                                                0
                                                    0
                                                        1
                                                           -360
360;
                  0.00013 0.000729
   2930
           9112
                                     0
                                         0
                                            0
                                                0
                                                    0
                                                        0
                                                           1 -
360 360;
   1436
           9112
                  0.00012 0.000581
                                     0
                                         0
                                            0
                                                0
                                                    0
                                                        0
                                                           1 -
360
   360;
           9112
                  0.00011 0.00064 0
   1851
                                     0
                                         0
                                            0
                                                0
                                                    \Omega
                                                        1
                                                           -360
360;
   8331
           9112
                  0.00019 0.00056 0
                                         0
                                            0
                                                0
                                                    0
                                                        1
                                                           -360
                                     \cap
360;
                  0.00062 0.004909
                                                           1 -
   6220
           8791
                                         529 0
                                                0
                                                    0
                                                        0
    360;
360
           7842
                  7e-05 0.00076 0
   9203
                                     887 0
                                            0
                                                0
                                                    0
                                                           -360
                                                        1
360;
   9203
           8997
                  0.00066 0.00622 0
                                     1611
                                            0
                                                0
                                                    0
                                                        0
                                                           1 -
    360;
360
   9203
           2129
                  0.00054 0.00752 0
                                     0
                                         0
                                            0
                                                0
                                                    0
                                                        1
                                                           -360
360;
           29 0.00105 0.00877 0
   9203
                                1315
                                         0
                                            0
                                                0
                                                    0
                                                        1
                                                           -360
360:
            8e-05 0.00091 0
   118 8903
                                 657 0
                                         0
                                            0
                                                0
                                                    1
                                                        -360
360;
            0.00056 0.00719 0
                                                        -360
   118 4598
                                 953 0
                                         0
                                            \cap
                                                0
                                                    1
360:
   2426 5533 0.000531 0.002039
                                       0
                                            319 0
                                                    0
                                                        0 0
-360 360;
```

2426	4831	0.008659)	0.03769	9 0	300	0	0	0	0	1	-
360 360; 2426	8961	0.003849	9	0.02109	9	0	0	0	0	0	0	1
-360 360;		0 00000	0 0	25060	0	200	0	0	0	0	1	
2426 360 360;		0.00688				300		0	0	0	1	_
2426 360 360;		0.006729				0	0	0	0	0	1	_
2426 360 360;	3401	0.00111	0.00)6651	0	414	0	0	0	0	1	-
	641 0.00	0.00	8909	0	0	0	0	0	0	1	-360)
2426	2600	0.000841	L	0.00313	3 0	0	0	0	0	0	1	-
	5351	0.003521	L	0.01747	79	0	300	0	0	0	0	1
-360 360;	; 718 3.9∈	-05 0 00	1025	0 510) ()	0	0	0	1	-360)	
360;	710 3.96	-05 0.00	1023	0 510	0	O	U	U	1	-300	,	
3036 -360 360;		0.000159	9	0.00072	29	0	357	0	0	0	0	1
8651 -360 360;	7473	0.005281	L	0.03209	9	0	395	0	0	0	0	1
8651	7473	0.005651	L	0.02943	L 9	0	376	0	0	0	0	1
-360 360; 903 3654	; 4 0.00	00271	0.00	0036 0	0	0	0	0	0	1	-360)
360;							Ü			_		
8732 360;	7050	0.00044	0.00)143 0	472	0	0	0	0	1	-360)
8732 360 360;	3912	0.000159	9	0.00074	1 0	453	0	0	0	0	1	-
2273 360 360;		0.00019	0.00	0591	0	338	0	0	0	0	1	-
5131		0.00019	0.00	0087 0	0	0	0	0	0	1	-360)
360 ; 6629		0.002591	L	0.01365	59	0	319	0	0	0	0	1
-360 360;	; 7309	0 00305	0 01	168 0	0	0	0	0	0	1	-360)
360;												
413 1102 360 360;	2 0.00	0159	0.00	0599	0	433	0	0	0	0	1	-
	2 0.00	0159	0.00	0062 0	395	0	0	0	0	1	-360)
360 ; 3248	4918	0.00101	0.00)4229	0	472	0	0	0	0	1	_
360 360; 3248		0.00319				453		0	0	0	1	_
360 360;												
3248 360 360;	7309	0.000729				0	0	0	0	0	1	-
1146 -360 360;		0.002961	L	0.01283	31	0	281	0	0	0	0	1
1146		0.000591	L	0.00339	9 0	0	0	0	0	0	1	-
360 360; 8900	2421	0.00024	0.00)1219	0	0	0	0	0	0	1	_
360 360; 6071	2972	0.006219	9	0 03634	11	0	376	0	0	0	0	1
-360 360;		J. 000213	-	3.0000	-	Š	2,0	•	•	•	•	-

6071 360 360;	6031	0.001843	1	0.01	.193	0	472	0	0	0	0	1	-
3293 360 360;	7264	0.001409	9	0.01	.113	0	414	0	0	0	0	1	-
3293	283 0.00	0151 0.00	0768	0	376	0	0	0	0	1	-360)	
360; 3293	3069	0.00599	0.03	313	0	395	0	0	0	0	1	-360)
360 ; 3293		0.00177	1	0.01	.0151	_	0	357	0	0	0	0	1
	; 4936	0.00074	0.00	311	0	0	0	0	0	0	1	-360)
360 ; 4689	4936	0.000729	9	0.00	3159)	0	0	0	0	0	0	1
-360 360; 3218	; 7809	0.005273	1	0.01	906	0	281	0	0	0	0	1	_
360 360; 3218	5455	0.00906	0.05	3151	_	0	319	0	0	0	0	1	_
360 360; 3218	1857	0.00405	0.01	.53	0	0	0	0	0	0	1	-360)
360 ; 6806		0.00055				0	395		0	0	0	1	_
360 360; 6806	5410	0.00055				0	338		0	0	0	1	_
360 360;		0.00107							0	0	0	1	
6806 360 360;	1609					0	414						_
6806 360;	1609	0.00112				472		0	0	0	1	-360)
6806 360 360;		0.001033				0	0	0	0	0	0	1	-
6806 360 360;	2438	0.00062	0.00	3219)	0	0	0	0	0	0	1	-
6806 360;	954 0.00	0.00)2659)	0	414	0	0	0	0	1	-360)
9140 360;	502 0.00	0193 0.03	12479)	0	491	0	0	0	0	1	-360)
	3013	0.001159	9	0.00	7229)	0	0	0	0	0	0	1
9140 360 360;		0.00137	0.00	8729)	0	395	0	0	0	0	1	-
9140 360 360;	2949	0.001403	1	0.00	855	0	433	0	0	0	0	1	-
9140	2949	0.00133	1	0.00	8521	_	0	433	0	0	0	0	1
-360 360; 7070	2208	0.00031	0.00	081	0	281	0	0	0	0	1	-360)
360 ; 7070	8060	0.000343	1	0.00	119	0	281	0	0	0	0	1	-
360 360; 7070	4484	0.00031	0.00	1281	-	0	376	0	0	0	0	1	_
360 360; 7070	4239	0.00094	0.00	35	0	433	0	0	0	0	1	-360)
360 ; 8535	7047	7e-05	0.00	0651	_	0	0	0	0	0	0	1	_
360 360; 5477		0.00019				491	0	0	0	0	1	-360)
360;													

	8 0.	.000331	-	0.00	2539)	0	433	0	0	0	0	1
	8 0.	.0016	0.02	113	0	0	0	0	0	0	1	-360	
	7 0.	.000909)	0.00	4711	-	0	357	0	0	0	0	1
	7 0.	.00088	0.00	4969)	0	319	0	0	0	0	1	-
	0.0018	341	0.00	88	0	0	0	0	0	0	1	-360	
189	0.0101	13 0.04	1238	0	395	0	0	0	0	1	-360)	
					0	723	0	0	0	0			
								0	0		1		
391	8 0.	.00174	0.02	084	0	854	0	0	0	0	1	-360	
	1 0.	.00086	0.01	433	0	1151	-	0	0	0	0	1	-
	1 0.	.00087	0.01	404	0	723	0	0	0	0	1	-360	
	0 0.	.00126	0.01	447	0	1118	3	0	0	0	0	1	-
564	8 0.	.00122	0.01	509	0	1052	2	0	0	0	0	1	_
	8 0.	.00154	0.01	. 9	0	1282	2	0	0	0	0	1	_
	7 0.	.00474	0.03	564	0	472	0	0	0	0	1	-360	
595	7 0.	. 006	0.04	7849)	0	433	0	0	0	0	1	_
);													
);													
O;													_
	0 0.	.00045	0.00	2341	-	0	0	0	0	0	0	1	-
	4 0.	.000669)	0.00	4281	-	0	433	0	0	0	0	1
880	4 0.	.00068	0.00	419	0	0	0	0	0	0	1	-360	
	4 0.	.000729)	0.00	431	0	510	0	0	0	0	1	-
712	4 0.	.000591	-	0.00	4651	-	0	453	0	0	0	0	1
887	3 0.	.00099	0.00	5081	•	0	338	0	0	0	0	1	_
	2 0.	.00212	0.01	3031	-	0	0	0	0	0	0	1	_
);	1 0	.002159)	0.01	.275	0	0	0	0	0	0	1	_
334					-	-	-	-	-	-	-		
O;	8 0.	00025	0 00	1095	Ω	Ω	0	0	0	0	1	-360	
	60; 291 531 60; 531 00; 531 00; 676 189 293 391 391 658 0; 658 383 0; 564 0; 490 595 0; 523 0; 730 0; 368 0; 880 60; 880 712 60; 712 60; 887 0; 712	60;	60;	60;	60;	60;	2918	60; 2918 0.0016 0.02113 0 0 0 5317 0.000909 0.004711 0 60; 5317 0.00088 0.004969 0 319 0; 676 0.001841 0.0088 0 0 0 189 0.01013 0.04238 0 395 0 0 2938 0.00059 0.00802 0 723 0 2938 0.00054 0.0079 0 657 0 3918 0.00171 0.02128 0 986 0 3918 0.00174 0.02084 0 854 0 6581 0.00086 0.01433 0 1151 0; 6581 0.00087 0.01404 0 723 0 3830 0.00126 0.01447 0 1118 0; 5648 0.00122 0.01509 0 1052 0; 4907 0.00474 0.03564 0 472 0 5957 0.006 0.047849 0 433 0; 5233 0.008039 0.03375 0 281 0; 7309 2.1e-05 0.000211 0 510 0; 3680 0.00045 0.002341 0 0 0; 8804 0.00069 0.004281 0 60; 8804 0.00069 0.004281 0 60; 8804 0.00069 0.00431 0 510 0; 7124 0.000729 0.00431 0 510 0; 7124 0.000729 0.00431 0 510 0; 7124 0.000729 0.004651 0 60; 8873 0.00099 0.005081 0 338	60; 2918	60; 2918	60; 2918 0.0016 0.02113 0 0 0 0 0 0 0 5317 0.000909 0.004711 0 357 0 0 60; 5317 0.00088 0.004969 0 319 0 0 0 0; 676 0.001841 0.0088 0 0 0 0 0 0 189 0.01013 0.04238 0 395 0 0 0 0 0 2938 0.00059 0.00802 0 723 0 0 0 0 2938 0.00054 0.0079 0 657 0 0 0 0 3918 0.00171 0.02128 0 986 0 0 0 0 3918 0.00174 0.02084 0 854 0 0 0 0 6581 0.00086 0.01433 0 1151 0 0 0 0; 6581 0.00087 0.01404 0 723 0 0 0 0 3830 0.00126 0.01447 0 1118 0 0 0 0; 5648 0.00122 0.01509 0 1052 0 0 0 0; 5648 0.00154 0.019 0 1282 0 0 0 0; 5957 0.006 0.047849 0 433 0 0 0 0; 5233 0.008039 0.03375 0 281 0 0 0 0; 5233 0.008039 0.03375 0 281 0 0 0 0; 5233 0.008039 0.03375 0 281 0 0 0 0; 5233 0.008039 0.03375 0 281 0 0 0 0; 5240 0.00474 0.02541 0 510 0 0 0; 8804 0.000669 0.004281 0 433 0 0 0; 8804 0.000689 0.004281 0 433 0 0 0; 7124 0.000729 0.00431 0 510 0 0 0; 7124 0.000729 0.00431 0 510 0 0 0; 7124 0.000729 0.00431 0 510 0 0 0; 7124 0.000729 0.00431 0 510 0 0 0; 7124 0.000591 0.004651 0 453 0 0	60;	60; 2918 0.0016 0.02113 0 0 0 0 0 0 1 -360 5317 0.000909 0.004711 0 357 0 0 0 0 0 60; 5317 0.00088 0.004969 0 319 0 0 0 1 -360 0; 676 0.001841 0.0088 0 0 0 0 0 1 -360 189 0.01013 0.04238 0 395 0 0 0 0 1 -360 2938 0.00059 0.00802 0 723 0 0 0 0 1 -360 2938 0.00059 0.00802 0 723 0 0 0 0 1 -360 3918 0.00171 0.02128 0 986 0 0 0 0 1 -360 3918 0.00174 0.02084 0 854 0 0 0 0 1 -360 6581 0.00086 0.01433 0 1151 0 0 0 1 -360 6581 0.00087 0.01404 0 723 0 0 0 0 1 -360 3830 0.00126 0.01447 0 1118 0 0 0 0 1 -360 6584 0.00122 0.01509 0 1052 0 0 0 1 -360 716 5648 0.00154 0.019 0 1282 0 0 0 0 1 -360 5957 0.006 0.047849 0 433 0 0 0 0 1 -360 5957 0.006 0.047849 0 433 0 0 0 0 1 -360 5957 0.006 0.047849 0 433 0 0 0 0 1 -360 60; 5233 0.008039 0.03375 0 281 0 0 0 0 1 -360 5957 0.006 0.047849 0 433 0 0 0 0 1 -360 60; 58804 0.00069 0.004281 0 433 0 0 0 0 1 -360 7124 0.000729 0.00431 0 510 0 0 0 0 1 -360 7124 0.000729 0.00431 0 510 0 0 0 0 1 -360 7124 0.000591 0.004651 0 453 0 0 0 0 0 0 0 0 0 0 0 0 0

2.00		3698	0.000271	L	0.00	089	0	0	0	0	0	0	1	-
		2801	0.001961	L	0.01	.2409)	0	281	0	0	0	0	1
) 360 <i>;</i> 8683		0.00044	0.00	207	0	472	0	0	0	0	1	-360)
	8683 360;	8511	0.000469	9	0.00	143	0	529	0	0	0	0	1	-
360	8683	6570	0.001271	L	0.01	406	0	529	0	0	0	0	1	-
360	8683	6570	0.00124	0.01	3021	-	0	529	0	0	0	0	1	-
	•	8975	0.000409	9	0.00	239	0	0	0	0	0	0	1	-
	8683	216 0.00	0.00)5	0	338	0	0	0	0	1	-360)	
360;	8683	2961	0.000219	9	0.00	07	0	529	0	0	0	0	1	-
360;		6773	6e-05	0.00	025	0	0	0	0	0	0	1	-360)
	8683		5e-05	0.00	0229)	0	0	0	0	0	0	1	_
		2751	0.00019	0.00	0909)	0	0	0	0	0	0	1	-
		5546	0.001711	L	0.00	782	0	0	0	0	0	0	1	-
			0.002651	L	0.01	176	0	319	0	0	0	0	1	_
360	7766	444 0.00	01409	0.01	.0599)	0	0	0	0	0	0	1	-
360	7766		0.001419)	0.01	.0219)	0	0	0	0	0	0	1
			0.00	212	0	756	0	0	0	0	1	-360)	
360;	839 809	0.00026	0.00313	0	1282	?	0	0	0	0	1	-360)	
360;	4506	2286	0.0047	0.03	318	0	376	0	0	0	0	1	-360)
360;	4506	6802	0.00136	0.00	768	0	338	0	0	0	0	1	-360)
360;	4506		0.005669	9	0.02	27789)	0	300	0	0	0	0	1
		6271	0.004409	9	0.03	3091	_	0	281	0	0	0	0	1
	360 ; 7273	1435	0.01056	0.04	14469)	0	0	0	0	0	0	1	-
		7148	0.01963	0.07	736	0	338	0	0	0	0	1	-360)
360;	7273	7437	0.01157	0.04	1694	0	357	0	0	0	0	1	-360)
360;	6104	871 0.00	00479	0.00	255	0	357	0	0	0	0	1	-360)
360;	7580	871 0.00	00469	0.00	236	0	0	0	0	0	0	1	-360)
360 <i>;</i> 360		1539	0.01237	0.06	57039)	0	281	0	0	0	0	1	_

1188	8515	0.0132	0.05	56229	9	0	281	0	0	0	0	1	_
360 360; 3971		0.00026	0 00)1711	1	0	0	0	0	0	0	1	_
360 360;													1
-360 360		0.000273					0	0	0	0	0	0	1
6845 -360 360,		0.000213	1	0.00	00401	L	0	0	0	0	0	0	1
8294 360 360;		0.00105	0.00)5159	9	0	0	0	0	0	0	1	-
7115	6807	0.00212	0.00	931	0	319	0	0	0	0	1	-360)
	1 0.00	00151	0.00	0068	0	0	0	0	0	0	1	-360)
360 ; 5418	4908	0.00019	0.00	0082	0	0	0	0	0	0	1	-360)
360; 5120	6816	0.003219	9	0.01	1405	0	300	0	0	0	0	1	_
360 360;								281		0	0	0	1
6692 -360 360,	;	0.007273					0						1
6692 360 360;		0.006659	9	0.03	3132	0	300	0	0	0	0	1	-
3445 360 360;	2848	0.00057	0.00	668	0	1480)	0	0	0	0	1	-
3445	7056	0.00057	0.00	758	0	1414	1	0	0	0	0	1	-
	7056	0.00039	0.00	0607	0	821	0	0	0	0	1	-360)
360 ; 3445	1642	0.00155	0.01	L79	0	0	0	0	0	0	1	-360)
360 ; 3445	4594	0.00036	0 00	1485	Λ	1545	5	0	0	0	0	1	_
360 360;													_
6114 -360 360		0.000583					0	338	0	0	0	0	1
6114 360;	8190	0.00056	0.00)431	0	0	0	0	0	0	1	-360)
6114 -360 360		0.003099	9	0.02	20531	L	0	472	0	0	0	0	1
6114	, 3191	0.00118	0.01	16919	9	0	510	0	0	0	0	1	-
360 360; 6114	5300	0.00188	0.01	L407	0	0	0	0	0	0	1	-360)
360; 6114	4889	0.00545	0.04	1082	0	357	0	0	0	0	1	-360)
360;	444 0.00						0	0	0	1	-360		
360;													
7264 360 360;	4747	0.002479	9	0.01	1549	0	0	0	0	0	0	1	_
7982 -360 360	9011	0.000159	9	0.00)1229)	0	472	0	0	0	0	1
7982 360;		0.00026	0.00	162	0	453	0	0	0	0	1	-360)
7982		0.000159	9	0.00	0113	0	376	0	0	0	0	1	-
360 360; 7982		0.000463	1	0.00	3219)	0	472	0	0	0	0	1
-360 360	;												

1354 502 0.00069 0.005 0 491 0 0 0 0 1 -360 891 3697 0.00036 0.00455 0 1809 0 0 0 0 1 -360 881 3697 0.00036 0.00453 0 1776 0 0 0 0 1 -360 360; 891 3697 0.00036 0.00453 0 1776 0 0 0 0 1 -360 360; 8312 7541 0.00066 0.00997 0 1348 0 0 0 0 1 -360 360; 8312 7541 0.00064 0.01016 0 986 0 0 0 0 1 -360 360; 8312 7541 0.00064 0.01016 0 986 0 0 0 0 1 -360 360; 8312 7541 0.00064 0.01016 0 986 0 0 0 0 0 1 -360 360; 8312 7541 0.00064 0.01016 0 986 0 0 0 0 0 1 -360 360; 8426 4418 6e-05 0.000469 0 0 0 0 0 0 1 -360 360; 4826 952 0.002531 0.01943 0 433 0 0 0 0 1 -360 360; 4826 7124 0.00945 0.06418 0 414 0 0 0 0 0 1 -360 360; 9128 217 0.00087 0.00387 0 0 0 357 0 0 0 0 1 -360 360; 720 5350 0.0015 0.01785 0 1183 0 0 0 0 1 -360 360; 1711 639 0.00151 0.0113 0 376 0 0 0 0 1 -360 360; 1711 639 0.00147 0.0182 0 1151 0 395 0 0 0 0 1 -360 360; 1711 9130 0.00147 0.0182 0 1151 0 395 0 0 0 0 1 -360 360; 1711 9130 0.00147 0.01841 0 414 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 0 1 -360	7982		5	0.00	00159	9	0.00)1229	9	0	0	0	0	0	0	1
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1711 639 0.00151 0.0113 0 376 0 0 0 0 1 -360 360; 1711 639 0.001479 0.011521 0 395 0 0 0 0 1 - 360 360; 1711 9130 0.00174 0.010341 0 414 0 0 0 0 1 - 360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 - 360 360; 8209 1998 0.00069 0.000479 0 0 0 0 0 1 - 360 360; 8209 7974 0.00044 0.00139 0 0 0 0 0 1 -360 360; 1035 8180 0.002039 0.01601 0 0 0 0 0 1 -360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 -360		0	0.0	0147	0.01	182	0	1151	L	0	0	0	0	1	-360)
1711 639 0.001479 0.011521 0 395 0 0 0 0 1 - 360 360; 1711 9130 0.00174 0.010341 0 414 0 0 0 1 - 360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 1 - 360 360; 8209 1998 0.00069 0.000479 0 0 0 0 0 1 - 360 360; 8209 7974 0.00044 0.00139 0 0 0 0 0 1 -360 360; 1035 8180 0.002039 0.01601 0 0 0 0 0 1 -360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 -360 360;		639	0.0	0151	0.01	113	0	376	0	0	0	0	1	-360)	
360	,	639	0.0	01479	9	0.01	11521	L	0	395	0	0	0	0	1	_
360 360; 1711 9130 0.001659 0.01206 0 453 0 0 0 0 1 - 360 360; 8209 1998 0.00069 0.000479 0 0 0 0 0 1 - 360 360; 8209 7974 0.00044 0.00139 0 0 0 0 0 1 - 360 360; 1035 8180 0.002039 0.01601 0 0 0 0 0 1 - 360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 - 360 360;	360 360;													0	1	_
360 360; 8209 1998 0.00069 0.000479 0 0 0 0 0 1 - 360 360; 8209 7974 0.00044 0.00139 0 0 0 0 0 1 -360 360; 1035 8180 0.002039 0.01601 0 0 0 0 0 1 - 360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 -360 360;	360 360;									453	0	0	0	0	1	_
360 360; 8209 7974 0.00044 0.00139 0 0 0 0 0 1 -360 360; 1035 8180 0.002039 0.01601 0 0 0 0 0 1 - 360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 -360 360;	360 360;											0	0	0		_
360; 1035 8180 0.002039 0.01601 0 0 0 0 0 1 - 360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 -360 360;	360 360;)
360 360; 1035 7466 0.01349 0.05662 0 357 0 0 0 0 1 -360 360;	360;													0		
360;	360 360;															
1000 000 000 000 00 00 00 00 00 00 00 00	360 ;													_		•
360; 1035 305 0.0008 0.004461 0 281 0 0 0 1 -360	360;)
360;		303	0.0	000	0.00) 4 4 0 .	L	U	Z01	U	U	U	U	Т	-301	J

	5106	0.00109	1	0.00	888	0	453	0	0	0	0	1	_
	5106	0.00111	0.00	7039		0	491	0	0	0	0	1	-
360 360; 2527	8466	0.00084	9	0.00	537	0	433	0	0	0	0	1	-
	8893	0.00061	0.00	275	0	357	0	0	0	0	1	-360)
360; 6206		0.00141	0.01	88	0	1315	5	0	0	0	0	1	-
	6624	0.00121	0.01	427	0	1545	5	0	0	0	0	1	-
	8158	0.00171	1	0.00	7159)	0	338	0	0	0	0	1
	; 8795	0.00545	0.02	381	0	300	0	0	0	0	1	-360)
	4143	0.00077	1	0.00	4331	_	0	0	0	0	0	0	1
	; 2797	0.00414	0.03	282	0	453	0	0	0	0	1	-360)
360 ; 3240		0.00264	0.01	1521		0	338	0	0	0	0	1	_
	6384	0.00261	0.01	1	0	376	0	0	0	0	1	-360)
360 ; 3240	7523	0.00239	0.00	919 (0	319	0	0	0	0	1	-360)
360 ; 3240	2889	0.000539	9	0.00	226	0	0	0	0	0	0	1	_
360 360; 3240	6887	0.00325	0.01	7979		0	472	0	0	0	0	1	_
360 360; 1249	4541	0.00076	0.00	71 (0	1216	5	0	0	0	0	1	_
360 360; 819 752;	3 0.00	00651	0.00	343	0	0	0	0	0	0	1	-360)
360;	4353							0	0	0	0	1	_
360 360;											1	-360	
360;	6246										0	1	
360 360; 9174		0.00059				1085		0	0	0	0	1	_
360 360; 9174	5658	0.00087				1677		0	0	0	0	1	_
360 360; 9174	5658	0.00073				1249		0	0	0	0	1	_
360 360; 2924	3645	0.00163				0	0	0	0	0	0	1	_
360 360;	3645					0	0	0	0	0	0	1	
360 360;													_
360;						472		0	0	0	1	-360	
360;	0.00					529		0	0	0	1	-360	
6510 360;	9033	0.00032	0.00	112	U	395	U	0	0	0	1	-360	J

CE10											
6510 360 ;	5918	0.0018	0.01401	0	395	0	0	0	0	1	-360
	5918	0.00212	0.012469)	0	433	0	0	0	0	1 -
•	2850	0.00063	0.00411	0	0	0	0	0	0	1	-360
•	4110	0.009729	0.03	3505	0	0	0	0	0	0	1 -
6426	3558	0.01007	0.03056	0	0	0	0	0	0	1	-360
	2816	0.00042	0.00623	0	0	0	0	0	0	1	-360
	352 0.00	0.00	722 0	1743	3	0	0	0	0	1	-360
	6581	0.00053	0.0078	0	854	0	0	0	0	1	-360
	1923	0.00109	0.0173	0	723	0	0	0	0	1	-360
	5837	0.00071	0.01144	0	0	0	0	0	0	1	-360
	3830	0.00157	0.01884	0	1151	-	0	0	0	0	1 -
	3577	0.00032	0.00384	0	756	0	0	0	0	1	-360
360 ; 8030	1794	0.00041	0.00649	0	1447	7	0	0	0	0	1 -
360 360; 8030	7808	0.0004	0.00658	0	0	0	0	0	0	1	-360
360 ; 8030	6581	0.00054	0.00763	0	854	0	0	0	0	1	-360
360 ; 8030	1923	0.00107	0.01602	0	821	0	0	0	0	1	-360
360 ; 8030	5837	0.0007	0.01165	0	0	0	0	0	0	1	-360
360;		0.0016	0.01844		1249		0	0	0	0	1 -
360 360;		0.00032			854		0	0	0	1	-360
360;)212 0.01					0	0	1	-360	
360;		5e-05			0	0			0	1	, -360
360;											
6271 360 360;					0	319		0	0	0	1 -
360;		0.00675				0		0	0	1	-360
360 360;		0.00195				338		0	0	0	1 -
8361 360;						0		0	0	1	-360
360 360;		0.00037				357	0	0	0	0	1 -
600 1011	0.00	257 0.01	7169	0	376	0	0	0	0	1	-360

609 5419 360;	0.00	0.00	0406 0	395	0	0	0	0	1	-360)	
609 2079	0.00	3901	0.023	961	0	472	0	0	0	0	1	-
360 360; 609 772	0.00249	0.019211	L 0	357	0	0	0	0	1	-360)	
360; 3654	2928	0.00025	0.001	159	0	376	0	0	0	0	1	_
360 360; 1355		0.00195	0.029	24 0	0	0	0	0	0	1	-360)
360; 1355	2197	0.00152	0.015	27 0	1381	L	0	0	0	0	1	_
360 360; 1355	7640	0.00149	0.015	58 0	1513	3	0	0	0	0	1	_
360 360;	1081	0.00253			1282		0	0	0	0	1	_
360 360;												
360 360;		0.00263			1480		0	0	0	0	1	_
1355 360 360;		0.00077			1315		0	0	0	0	1	_
1355 360;		0.00112	0.017	05 0	657	0	0	0	0	1	-360)
5856 360 ;	8546	0.00226	0.011	01 0	0	0	0	0	0	1	-360)
5856 -360 360;		0.004531	L 0	.02903	9	0	395	0	0	0	0	1
	8005	0.002081	L 0	.03040	9	0	0	0	0	0	0	1
5856		0.0053	0.032	57 0	338	0	0	0	0	1	-360)
360; 5856	3324	0.00513	0.041	901	0	453	0	0	0	0	1	-
	4748	0.001461	L 0	.01056	0	357	0	0	0	0	1	_
360 360; 8265	4816	0.0005	0.002	591	0	0	0	0	0	0	1	_
360 360; 6151		0.00055	0.003	3 0	357	0	0	0	0	1	-360)
360;	6532	0.002289	9 0	.01763	0	376	0	0	0	0	1	_
360 360;	2177					357		0	0	0	1	_
360 360;												
360 360;		0.00138			0	0	0	0	0	0	1	_
5723 360;						0		0	0	1	-360)
2327 360 360;	9189	0.00038	0.001	331	0	395	0	0	0	0	1	_
2327 360 360;	3400	0.00019	0.001	461	0	0	0	0	0	0	1	-
207 4747 360 360;	0.00)2151	0.013	401	0	376	0	0	0	0	1	-
207 7791 360 360;	0.00	0789	0.005	669	0	472	0	0	0	0	1	-
3205	6735	3e-05	0.000	42 0	657	0	0	0	0	1	-360)
360;												

3205 360;	666 0.00	079 0.	00899	0	1282	2	0	0	0	0	1	-360)
3205 360;	666 0.00	008 0.	00879	0	1447	7	0	0	0	0	1	-360)
3205	4435	0.0033	4 0.0	3393	0	1282	2	0	0	0	0	1	-
360 360; 3205 360;	1644	0.0006	3 0.0	0789	0	0	0	0	0	0	1	-360)
3205	3483	0.0006	0.0	0842	0	1216	5	0	0	0	0	1	-
360 360; 4683	7989	0.0001	1 0.0	0125	0	0	0	0	0	0	1	-360)
360; 4683	6516	0.0001	2 0.0	01091	1	0	0	0	0	0	0	1	-
360 360; 4683	7697	9.9e-0	5 0.0	0125	0	0	0	0	0	0	1	-360)
	416 0.00	294 0.	02443	0	529	0	0	0	0	1	-360)	
360; 4683	2847	0.0014	4 0.0	11151	1	0	395	0	0	0	0	1	-
360 360; 4683	2563	0.0018	31	0.01	10849)	0	491	0	0	0	0	1
-360 360; 4683		0.0015	99	0.01	1055	0	472	0	0	0	0	1	_
360 360; 4683	2995	0.0014	4 0.0	19591	1	0	281	0	0	0	0	1	_
360 360; 5691	1001	0.0133	0.0	9551	0	510	0	0	0	0	1	-360)
360; 5691		0.0095	91	0.0	73961	L	0	414	0	0	0	0	1
-360 360; 5350	2721	0.0007	0.0	0671	0	1447	7	0	0	0	0	1	_
360 360; 5350	2721	0.0007	2 0.0	0658	0	1480)	0	0	0	0	1	_
360 360; 2361	4936	0.0019	01	0.00	0964	0	529	0	0	0	0	1	_
360 360; 2361	5179	0.0017	11	0.01	1189	0	510	0	0	0	0	1	_
360 360; 2044	4748	0.0002	5 0.0	0187	0	0	0	0	0	0	1	-360)
360; 4197	5522	0.0004	3 0.0	02211	1	0	0	0	0	0	0	1	_
360 360; 5699	8670	0.0004	01	0.00	0243	0	0	0	0	0	0	1	_
360 360; 7809	5110	0.0033	6 0.0	17	0	357	0	0	0	0	1	-360)
360 ; 7222	4816	0.0055	21	0.03	31031	L	0	0	0	0	0	0	1
-360 360; 4402	3817	9.9e-0	5 0.0	0026	0	0	0	0	0	0	1	-360)
360 ; 6857	2732	0.0004	5 0.0	0718	0	986	0	0	0	0	1	-360)
360 ; 6857	4550	0.0004	4 0.0	0665	0	821	0	0	0	0	1	-360)
360 ; 6857	4339	0.0010	3 0.0	1516	0	1183	3	0	0	0	0	1	_
360 360;													

6857	7513	0.00101	0.01	.546	0	854	0	0	0	0	1	-360)
360; 5016	26 0.0	0045 0.00	0608	0	1414	1	0	0	0	0	1	-360	
360; 5016	9213	0.0004	0.00	501	0	1249	9	0	0	0	0	1	_
360 360; 6112	9002	0.001729	9	0.01	L337	0	491	0	0	0	0	1	-
	6231	0.00264	0.01	489	0	414	0	0	0	0	1	-360)
	883 0.0	02341	0.01	8961	L	0	414	0	0	0	0	1	_
360 360; 6112	5738	0.001841	L	0.01	L363	0	376	0	0	0	0	1	_
360 360; 8860	7700	0.001219	9	0.00	949	0	395	0	0	0	0	1	_
360 360; 8860	9002	0.002271	L	0.01	1151	0	395	0	0	0	0	1	_
360 360; 8860	5990	0.010781	L	0.05	5775	0	0	0	0	0	0	1	_
360 360; 8860	6450	0.00251					300	0	0	0	0	1	_
360 360;	7726	0.00101				0	414		0	0	0	1	_
360 360; 2489	4110	0.00061					529		0	0	0	1	_
360 360; 3985	6376	0.004289					0	0	0	0	0	0	1
-360 360	;												
3985 360 360;	4110	0.0008					529		0	0	0	1	-
3985 360 360;	4829	0.008099	9	0.03	3519	0	510	0	0	0	0	1	-
3985 360 360;	7857	0.00063	0.00)4591	L	0	414	0	0	0	0	1	-
2806 360 360;	7857	0.000651	L	0.00)456	0	0	0	0	0	0	1	-
	9012	0.00114	0.00)581	0	0	0	0	0	0	1	-360)
2489 360 360;	2231	0.001211	L	0.00)538	0	0	0	0	0	0	1	-
658 3793	3 0.0	0418 0.03	30159)	0	472	0	0	0	0	1	-360)
	7 0.0	0324 0.02	2413	0	510	0	0	0	0	1	-360)	
	7 0.0	03169	0.02	24591	L	0	529	0	0	0	0	1	-
360 360; 3502	9002	0.000219	9	0.00	0088	0	395	0	0	0	0	1	-
360 360; 3502	9002	0.000289	9	0.00	0095	0	414	0	0	0	0	1	_
360 360; 6313		035 0.02	22211	_	0	453	0	0	0	0	1	-360)
360 ; 6313	7582	0.00313	0.02	2256	0	0	0	0	0	0	1	-360)
360;		0.000831					0	0	0	0	0	1	_
360 360;	-												

360	3183 360;	8515	5	0.00209	9	0.01	1068	0	300	0	0	0	0	1	-
	1005	8515	5	0.00224	0.00	976	0	0	0	0	0	0	1	-360)
360	8787	1448	3	0.00169	0.01	1231	0	529	0	0	0	0	1	-360)
	6636	9051	L	0.00011	0.00	076	0	0	0	0	0	0	1	-360)
360	9109	9051	L	0.00011	0.00	0068	0	0	0	0	0	0	1	-360)
360	6961		5	0.00547	9	0.02	21909)	0	0	0	0	0	0	1
		8818	3	0.00333	1	0.01	L7039)	0	338	0	0	0	0	1
	360; 5077	4353	3	0.00047	9	0.00)1271	_	0	0	0	0	0	0	1
	360; 7471	: 5241	L	0.00109	0.01	L629	0	723	0	0	0	0	1	-360)
360;	7471	8200)	4e-05	0.00	0063	0	1710)	0	0	0	0	1	_
)	0.00	0.0	24531	L	0	472	0	0	0	0	1	-360)
360	549 2291	L	0.00	04659	0.02	21919	9	0	319	0	0	0	0	1	_
360	360; 549 3656	5	0.00	01659	0.01	L043	0	472	0	0	0	0	1	-360)
360		4144	1	0.00696	1	0.05	53539)	0	395	0	0	0	0	1
-360	360; 1888	; 5441	L	0.00036	0.00)288	0	529	0	0	0	0	1	-360)
360	; 1888	5441	L	0.00038	0.00)3	0	529	0	0	0	0	1	-360)
360		4970)	0.00048	0.00	0643	0	0	0	0	0	0	1	-360)
360	; 5490	4970)	0.00051	0.00	066	0	0	0	0	0	0	1	-360)
360,	; 5490	4970)	0.00046	0.00	729	0	1776	5	0	0	0	0	1	_
360	360; 5490	5461	L	0.0006	0.00	0868	0	1710)	0	0	0	0	1	_
360	360; 5490	7778	3	0.00068				1842	2	0	0	0	0	1	_
360	360; 5490			0.00066				1809		0	0	0	0	1	_
360	360;			0.00101				0	300		0	0	0	1	_
360	360;			03901				0	0	0	0	0	1	-360)
360	;			0.00				453		0	0	0	1	-360	
360	;			0.588 0.0				0	0	0	0	0	1	-360	
360	;			3.9e-05				0	0	0	0	0	0	1	
360	360;			0.00131				0	0	0	0	0	1	-360	
360		5075	1	0.00131	0.00	,,,,	U	J	U	J	U	U	_	200	,

2854 360;	1081	0.00679	0.04	1679	0	920	0	0	0	0	1	-360)
2854 360;	8267	0.00138	0.01	L466	0	986	0	0	0	0	1	-360)
9112	9176	0.00353	1	0.0	1724	0	0	0	0	0	0	1	-
360 360, 9112	1422	0.01324	0.06	5936	0	376	0	0	0	0	1	-360)
360; 9112	8515	0.00363	0.01	L743	0	338	0	0	0	0	1	-360)
360 ; 9112	8515	0.00257	0.01	L662	0	433	0	0	0	0	1	-360)
360 ; 9112	5051	0.01399	0.0	56289	9	0	319	0	0	0	0	1	_
360 360, 9112	; 1051	0.00343	0.01	L751	0	357	0	0	0	0	1	-360)
360; 9112	1397	0.00301	0.01	L5409	9	0	0	0	0	0	0	1	_
360 360, 9112		0.00857	0 - 03	33091	1	0	376	0	0	0	0	1	_
360 360, 6168		0.003341					0	0	0	0	0	1	_
360 360, 7653		3.9e-05				0	0	0	0	0	0	1	
360 360	;												_
7341 360;		0.00087				357		0	0	0	1	-360	
4701 360;	8267	0.00011				657	0	0	0	0	1	-360)
1672 360 360,	5365 ;	0.00021	9	0.00	0101	0	0	0	0	0	0	1	-
3880 -360 360	5365 D ;	0.00021	9	0.00	01031	L	0	0	0	0	0	0	1
6648 360 360,	5365	0.00027	1	0.00	0101	0	0	0	0	0	0	1	-
3609 -360 360	5365	0.00027	1	0.00	00979	9	0	0	0	0	0	0	1
2782	5365	0.000289	9	0.00	0107	0	0	0	0	0	0	1	-
360 360, 1844	5365	0.00028	9	0.00	0105	0	0	0	0	0	0	1	-
	6053	0.001593	1	0.0	12289)	0	281	0	0	0	0	1
	5237	0.00027	1	0.00	01901	L	0	395	0	0	0	0	1
-360 360 2166	2886	0.00186	0.01	1071	1	0	414	0	0	0	0	1	_
360 360, 1043		1e-05	0.00	002	0	0	0	0	0	0	1	-360)
360;	883 0.0	00169	0.00	00271	1	0	0	0	0	0	0	1	_
360 360						0	0	0	0	0	1	-360	
360;	5814							0	0	0	1	-360	
360;													
8107 -360 360		0.00022	9	0.00	10599	2	U	0	0	0	0	0	1

0;		0.00	089	0.00	4091	_	0	338	0	0	0	0	1	-
		0.00	093	0.00) 4	0	300	0	0	0	0	1	-360	
		0.00	289	0.01	3099)	0	300	0	0	0	0	1	_
	6430	0.00	2599)	0.01	6479)	0	433	0	0	0	0	1
60 ; 775		.00369	0.02	2712	0	453	0	0	0	0	1	-360)	
857	0.	.0062	0.04	1864	0	529	0	0	0	0	1	-360)	
33	0.0080)21	0.05	59031	_	0	529	0	0	0	0	1	-360	
		.004979							0	0	0	1	-360	
		0.00						0	0	0	0	0	0	
60;														
		0.00						0	0	0	0	1	-360	
0;		0.00)1521	_	0.01	.075	0	0	0	0	0	0	1	-
0;		0.00	868	0.04	1711	_	0	0	0	0	0	0	1	-
	6828	0.01	118	0.05	986	0	0	0	0	0	0	1	-360	
		0.00	3229)	0.02	2543	0	491	0	0	0	0	1	-
0;		0.00	218	0.01	.869	0	0	0	0	0	0	1	-360	
		0.00)1901	_	0.02	21909)	0	472	0	0	0	0	1
60;		0.00	974	0.04	13969)	0	300	0	0	0	0	1	_
0;	7226	0.00	3461		0.01	814	0	357	0	0	0	0	1	_
0;		0.00						319			0	0	1	
0;														_
60;		0.00									0	0		1
	5502	0.00	169	0.00)887	0	300	0	0	0	0	1	-360	
0;	8873	0.00)1711	-	0.01	336	0	414	0	0	0	0	1	-
	980 0.	00031	0.00	0539)	0	300	0	0	0	0	1	-360	
	3331	0.00	27	0.01	157	0	0	0	0	0	0	1	-360	
	639 0.	.000909)	0.00	6901	_	0	414	0	0	0	0	1	_
	4936	0.00	1729)	0.01	214	0	414	0	0	0	0	1	_
0; 492	0.	.00614	0.03	3106	0	338	0	0	0	0	1	-360)	
937	0.	.00418	0.02	2388	0	414	0	0	0	0	1	-360)	
93	37	37 0.	0.00418	0.00418 0.02	0.00418 0.02388	0.00418 0.02388 0	0.00418 0.02388 0 414	0.00418 0.02388 0 414 0	0.00418 0.02388 0 414 0 0	0.00418 0.02388 0 414 0 0 0	0.00418 0.02388 0 414 0 0 0 0	0.00418 0.02388 0 414 0 0 0 1	37 0.00418 0.02388 0 414 0 0 0 0 1 -360	0.00418 0.02388 0 414 0 0 0 1 -360

260	3255 360;	1262	0.00238	0.01	L7771	1	0	0	0	0	0	0	1	-
	3255	1803	8.1e-05	0.00	063	0	0	0	0	0	0	1	-360)
360	7373	367 0.00	01599	0.01	L618	0	0	0	0	0	0	1	-360)
	4251	2132	0.00532	0.02	26961	1	0	319	0	0	0	0	1	-
	360; 4251	2132	0.00361	0.02	2814	0	453	0	0	0	0	1	-360)
360	4251	5567	0.002469	9	0.01	1025	0	433	0	0	0	0	1	_
	360 ; 6376	1808	0.005229	9	0.02	2675	0	300	0	0	0	0	1	_
	360; 6376	1808	0.00512	0.02	2726	0	319	0	0	0	0	1	-360)
360	; 6376	7857	0.00355	0.01	L694	0	300	0	0	0	0	1	-360)
360	; 9185	7289	0.00139	0.00	7659	9	0	357	0	0	0	0	1	_
360	360; 9185	3999	0.000169	9	0.00	00669	9	0	414	0	0	0	0	1
-36	0 360;	;	0.00111	0.00	712	0	376	0	0	0	0	1	-360)
360	;		0.00				433		0	0	0	1	-360	
360	;		0.000281					0	0	0	0	0		1
-36	0 360;	;	0.000281			01651			0	0	0	0	0	
-36	4205 0 360;	;						0						1
360		6556	0.000271			0169		0	0	0	0	0	1	_
360	5857 360;		0.001521			0843		281		0	0	0	1	-
360	5857 360;		0.000841				0	433		0	0	0	1	-
360			0.00019				414	0	0	0	0	1	-360)
360		9 0.00	00219	0.00	143	0	0	0	0	0	0	1	-360)
360	2918 360;	8109	0.00121	0.01	L796	0	1776	ō	0	0	0	0	1	-
360		8109	0.0014	0.01	1512	0	0	0	0	0	0	1	-360)
	, 6532 0 360;		0.008409	9	0.06	63651	L	0	0	0	0	0	0	1
360	6532		0.00918	0.07	7344	0	510	0	0	0	0	1	-360)
360	6532	608 0.00	04219	0.03	345	0	414	0	0	0	0	1	-360)
	6532	608 0.00	0.03	31651	L	0	357	0	0	0	0	1	-360)
360	4494	8763	0.00121	0.01	1381	0	1447	7	0	0	0	0	1	-
360	4494	7056	0.00107	0.01	L326	0	1480)	0	0	0	0	1	_
360	360;													

6828 360 360;		0.00340	1	0.02	2607	0	0	0	0	0	0	1	-
3670 360;		0.000289	0.0	0138	0	319	0	0	0	0	1	-360)
		0.00103	1	0.00	06039	9	0	0	0	0	0	0	1
	7702	0.00105	0.0	05909	9	0	0	0	0	0	0	1	-
	7624	0.00109	1	0.00	7901	L	0	319	0	0	0	0	1
8448	1129	0.00332	0.0	24021	L	0	453	0	0	0	0	1	-
360 360; 8448	3070	0.00344	0.0	21419)	0	300	0	0	0	0	1	-
		0.00095 0.0	1041	9	0	414	0	0	0	0	1	-360)
	306	0.00093 0.0	1062	0	376	0	0	0	0	1	-360)	
360 ; 8448		0.00474	0.0	25409	9	0	0	0	0	0	0	1	_
360 360; 4685	2089	0.00027	1	0.00	0841	L	0	281	0	0	0	0	1
-360 360 7485	6253	0.00027	1	0.00)119	0	281	0	0	0	0	1	_
360 360; 7485	: 1562	0.00028	9	0.00	076	0	0	0	0	0	0	1	_
360 360; 7776	: 1644	0.00031	0.0	0454	0	1842	2	0	0	0	0	1	_
360 360; 5971		0.00032	0.0	044	0	0	0	0	0	0	1	-360)
360;		0.00028				0	0	0	0	0	1	-360)
360;		0.00028 0.0				0	0	0	0	1			
360 ;	,	0.00020 0.0	0000	O	O	O	O	O	O	_	300	,	
8906 360 ;	923 (0.000531	0.0	0093	0	0	0	0	0	0	1	-360)
8906 360 360;		0.0003	0.0	01031	L	0	395	0	0	0	0	1	-
2656 360 ;		0.00139	0.0	2163	0	657	0	0	0	0	1	-360)
2656 360 360;	7164	0.00164	0.0	2321	0	1776	ō	0	0	0	0	1	-
3519	9101	0.00136	0.0	2205	0	657	0	0	0	0	1	-360)
360; 3519	7164	0.0016	0.0	2367	0	657	0	0	0	0	1	-360)
360; 1775	9137	0.00209	1	0.01	L174	0	281	0	0	0	0	1	-
360 360; 1775	9137	0.00171	9	0.00	961	0	453	0	0	0	0	1	_
360 360; 5641	1026	0.01234	1	0.0	76781	L	0	319	0	0	0	0	1
0.00);	0 00156	0 0	10/11	9	0	491	0	0	0	0	1	_
-360 360 5641	9137	0.00176	0.0	J 5 4 I 3	,								
						0	0	0	0	0	1	-360)

360	7380 360;		0.0	0386	0.02	2348	0	1183	3	0	0	0	0	1	-
	7380 360;	4787	0.0	0017	0.00	0104	0	1052	2	0	0	0	0	1	-
	3543	5308	0.00	0061	0.00	808	0	1513	3	0	0	0	0	1	-
360	360; 3543		0.0	0059	0.00	067	0	0	0	0	0	0	1	-360)
360	2372	1027	0 - 00	0059	0.00	748	0	1381		0	0	0	0	1	_
360	360; 2372										0	0		-360	
360) ;						0	0	0	0			1		1
360	367 117: 360;	2	0.00103	1	0.00)8789	9	0	529	0	0	0	0	1	-
360	367 919	1	0.00051	0.00	06169	9	0	529	0	0	0	0	1	-360)
	367 872	2	0.0005	0.00	0619	0	529	0	0	0	0	1	-360)	
	1833	3610	0.0	0049	0.00	376	0	472	0	0	0	0	1	-360)
360	1833	3610	0.0	00539	9	0.00	3229	9	0	433	0	0	0	0	1
-36	360 1833	; 3962	0.00	01031	1	0.00	0882	0	0	0	0	0	0	1	_
360	360; 1833			0071			0463		357		0	0	0	1	
360	360;														_
-36	1833 50 360	2230 ;	0.00	00711	l	0.00)4539)	0	0	0	0	0	0	1
360	5388 360;	2467	0.0	0206	0.01	L5341	L	0	414	0	0	0	0	1	-
		2467	0.0	02021	1	0.01	L564	0	414	0	0	0	0	1	-
	6110	8853	0.00	0094	0.00	5781	L	0	510	0	0	0	0	1	-
360	360; 6110		0.0	02219	9	0.01	L6969)	0	529	0	0	0	0	1
-36	50 360 _. 7583		0.00	0238	0.01	L187	0	281	0	0	0	0	1	-360)
360		2889	0.00	0707	0 03	2095	Λ	281	Ω	0	0	0	1	-360)
360) ;														
360			0.00256				1545		0	0	0	0	1	-360	
360	26 247:);	9	0.00203	0.02	2416	0	1052	2	0	0	0	0	1	-360)
360	26 459	8	0.001	0.0	1459	0	0	0	0	0	0	1	-360)	
	26 423	1	0.00103	0.00	0987	0	1513	3	0	0	0	0	1	-360)
360	26 514	4	0.00038	0.00	0483	0	1348	3	0	0	0	0	1	-360)
360		4	0.00041	0.00	0398	0	1216	5	0	0	0	0	1	-360)
360	7691	2479	0.00	0167	0 - 01	L721	0	1282	2	0	0	0	0	1	_
360		2129								0	0	0	1	-360	١
360		Z1Z9	0.00	0030	0.0.	140/	U	001	J	U	U	U	Τ.	-300	,

7 360	7691 360;	9213	0.00042	0.00	342	0	1249)	0	0	0	0	1	-
	7691	9213	0.00019	0.00	248	0	1480)	0	0	0	0	1	-
7	7691	4231	0.00105	0.00	966	0	1809)	0	0	0	0	1	_
		3513	0.00043	0.00	473	0	1282	2	0	0	0	0	1	_
		3513	0.00041	0.00	397	0	1216	5	0	0	0	0	1	_
		3906	0.00051	0.00	514	0	1118	}	0	0	0	0	1	_
360 1	360; L13 3906	0.00	0.00	503	0	1315	5	0	0	0	0	1	-360)
360 ;	7752	3758	0.00455	0.02	2771	-	0	300	0	0	0	0	1	_
360 7	•	3758	0.00557	0.02	055	0	281	0	0	0	0	1	-360)
360;		3758	0.00339					0	0	0	0	1	-360)
360;		8976	0.00237				338		0	0	0	1	-360	
360;		8189	0.00237				0	281		0	0	0		_
360	360;	7886	0.01407				0	0	0	0	0	0	1	_
360	360;	4544	0.01407			.5409		0	510		0	0	0	1
-360	360;													
-360	360;		0.001711			.5091		0	0	0	0	0	0	1
360	360;	3697	0.00172	0.01	619	0	1578	}	0	0	0	0	1	-
7 360;	7905	7541	0.00029	0.00	447	0	887	0	0	0	0	1	-360)
7 360		7541	0.00033	0.00	387	0	1019)	0	0	0	0	1	-
7 360 ;		4141	0.00079	0.01	154	0	887	0	0	0	0	1	-360)
	7905	4141	0.00077	0.01	177	0	887	0	0	0	0	1	-360)
7	7905 360 ;	3022	0.00127	0.01	498	0	1447	7	0	0	0	0	1	-
1	L768	163 0.00	214 0.01	.2599		0	395	0	0	0	0	1	-360)
	1245	2425	0.000159)	0.00	125	0	357	0	0	0	0	1	-
3			0.000211	-	0.00	0669)	0	357	0	0	0	0	1
7			0341	0.00	1169	,	0	414	0	0	0	0	1	-
	360 ; 750 870	0.00024	0.001469)	0	472	0	0	0	0	1	-360)	
360;		0.00	018 0.00	0669	ı	0	433	0	0	0	0	1	-360)
7														
360;		7988	0.00033	0 00	683	0	821	0	0	0	Ο	1	-360)

3499 360 360;	2197	0.00121	0.01	1211	0	1315	5	0	0	0	0	1	-
3499	7640	0.00123	0.01	L185	0	1348	3	0	0	0	0	1	-
360 360; 3499	4231	0.00058	0.00	97	0	1085	5	0	0	0	0	1	_
360 360; 3499	5144	0.00103	0.01	L292	0	1151	L	0	0	0	0	1	_
360 360; 3499		0.00116	0.01	L266	0	821	0	0	0	0	1	-360)
360 ; 7289	3999	0.0013	0.00	06841	L	0	357	0	0	0	0	1	_
360 360;		6e-05				0	338		0	0	0	1	_
360 360;												1	
360 360;		0.000169		0.00		0	300		0	0	0		_
9131 -360 360	2020 ;	0.000169	9	0.00	00719	9	0	0	0	0	0	0	1
6308 -360 360		0.00027	1	0.00)1031	1	0	0	0	0	0	0	1
4831 -360 360	3680	0.00827	1	0.03	36841	1	0	0	0	0	0	0	1
5410	2751	0.002969	9	0.02	2299	0	319	0	0	0	0	1	-
360 360; 3082	4623	0.00124	0.01	1273	0	1118	3	0	0	0	0	1	-
360 360; 3082	4339	0.00106	0.00	989	0	1381	L	0	0	0	0	1	_
360 360; 3082		7e-05	0.00	0029	0	657	0	0	0	0	1	-360)
360; 3082	5421	9e-05	0.00	079	0	657	0	0	0	0	1	-360)
360;	6475	0.00196				1513		0	0	0	0	1	_
360 360;													
3082 360 360;		0.00158				1183		0	0	0	0	1	_
6224 360 360;	2732	0.00172	0.01	L811	0	1513	3	0	0	0	0	1	-
6224 360 360;	7513	0.00096	0.01	L121	0	1644	1	0	0	0	0	1	-
	6475	0.00147	0.01	L707	0	0	0	0	0	0	1	-360)
	4623	0.00129	0.01	L29	0	1216	5	0	0	0	0	1	-
2174	4550	0.00179	0.01	L737	0	1545	5	0	0	0	0	1	-
	6475	0.00131	0.01	1935	0	167	7	0	0	0	0	1	_
360 360; 2083		0.003903	1	0.01	L614	0	319	0	0	0	0	1	_
360 360; 2083	9231	0.002593	1	0.01	L4771	1	0	453	0	0	0	0	1
-360 360								0	0	0	1	-360	1
360;													,
360 360;		0.00012	0.00	0045	7	U	0	0	0	0	0	1	_

2083	3481	0.00394	0.03	8039	0	395	0	0	0	0	1	-360)
360; 2083	3602	0.00189			0	0	0	0	0	0	1	-360	
360;													
2083 360;	2794	0.00032				0	0	0	0	0	1	-360	
2083 360 ;	2794	0.00038	0.00	224	0	0	0	0	0	0	1	-360)
2083 360;	8467	0.00751	0.03	955	0	395	0	0	0	0	1	-360)
2083 360 360;	1136	0.00086	0.00	6531	L	0	0	0	0	0	0	1	-
2083	22 0.00	0.00	6591	-	0	0	0	0	0	0	1	-360)
	1001	0.003031	-	0.02	2276	0	529	0	0	0	0	1	-
360 360; 8853	4950	0.006331	-	0.03	3911	0	0	0	0	0	0	1	-
360 360; 8853	4410	0.00605	0.02	986	0	281	0	0	0	0	1	-360)
360; 8853	6697	0.003919)	0.01	612	0	338	0	0	0	0	1	_
360 360; 8853	1159	0.002039			L08		338		0	0	0	1	_
360 360 ;													
8853 -360 360;		0.006289						414		0	0	0	1
2938 360;	2848	0.00042	0.00	547	0	756	0	0	0	0	1	-360)
2938 360 ;	2848	0.00043	0.00	536	0	657	0	0	0	0	1	-360)
2938 360 360;	7522	0.00147	0.01	.373	0	1677	7	0	0	0	0	1	-
2938	7522	0.00131	0.01	.555	0	1447	7	0	0	0	0	1	-
360 360; 2938	1642	0.00221	0.02	2217	0	1710)	0	0	0	0	1	-
360 360; 2938	809 0.00	0224 0.02	217	0	1710)	0	0	0	0	1	-360)
360; 9189	6791	0.00095	0.00	3289	9	0	300	0	0	0	0	1	_
360 360; 9189	3400							0	0	0	0	1	
360 360;													
9189 360;	7092	0.00068				0	0	0	0	0	1	-360	
9189 360 ;	3718	0.00049	0.00	256	0	319	0	0	0	0	1	-360)
9189 360 360;	3701	0.000531	-	0.00)22	0	0	0	0	0	0	1	-
9189 360;	7507	0.00136	0.00	956	0	414	0	0	0	0	1	-360)
9189		0.0012	0.01	.0729	9	0	376	0	0	0	0	1	-
	7507	0.00105	0.00	861	0	0	0	0	0	0	1	-360)
360 ; 9189	2406	0.000591	-	0.00	06969)	0	0	0	0	0	0	1
-360 360;	;												

2801 360;	8511	0.00	025	0.00	800	0	0	0	0	0	0	1	-360)
	216 0.0	0113	0.00	0632	0	300	0	0	0	0	1	-360)	
•	9 0.0	003	0.00	275	0	854	0	0	0	0	1	-360)	
8691 360 360;	6952	0.00	836	0.05	51659	9	0	529	0	0	0	0	1	-
8691	6952	0.01	.338	0.07	73469)	0	491	0	0	0	0	1	-
360 360; 8691	1183	0.00	27	0.02	2089	0	0	0	0	0	0	1	-360)
360; 8691	4410	0.00	3419	9	0.02	2636	0	510	0	0	0	0	1	-
360 360; 8691	8743	0.00	9531	L	0.03	33711	L	0	357	0	0	0	0	1
-360 360, 2446	; 8763	0.00	04	0.00	707	0	0	0	0	0	0	1	-360)
360 ; 2627	8763	0.00	035	0.00	701	0	0	0	0	0	0	1	-360)
360; 4951	6785	0.00	194	0.01	L751	0	433	0	0	0	0	1	-360)
360; 4951	6785	0.00	156	0.01	1936	0	414	0	0	0	0	1	-360)
360 ; 4623	964 0.0	0078	0.00	941	0	1249	9	0	0	0	0	1	-360)
360 ; 4623	964 0.0	0074	0.00	969	0	1480)	0	0	0	0	1	-360)
360 ; 4623	8347	0.00	042	0.00)532	0	1578	3	0	0	0	0	1	_
360 360; 4623	8347	0.00	04	0.00)473	0	1743	3	0	0	0	0	1	_
360 360; 4623	8347	0.00	06	0.00)499	0	1447	7	0	0	0	0	1	_
360 360; 1609	6552	0.00	086	0.00	0638	0	510	0	0	0	0	1	-360)
360; 1609	6552	0.00	0969	9	0.00	0625	0	510	0	0	0	0	1	_
360 360; 1609		0.00	2781	L	0.01	L725	0	357	0	0	0	0	1	_
360 360;	4816							0	453		0	0	0	1
-360 360, 5481	;					0	0	0	0	0	1	-360		
360;	960 1e-					0	0	0	0	0		-360		
360;	2e-05							0	0	1)		:
2980 360;	960 3e-							0	0	0		-360		
4554 360 360;		0.00	0841	L	0.00)474	0	433	0	0	0	0	1	-
4554		0.00	082	0.00)487	0	433	0	0	0	0	1	-360)
360; 6844		0.00	186	0.01	L1979	9	0	0	0	0	0	0	1	-
360 360; 3672		0.00	056	0.00	3021	L	0	281	0	0	0	0	1	-
360 360;														

6219 360 360;	5334	0.00055	0.00	3082	1	0	0	0	0	0	0	1	-
	6153	0.00114	0.01	L063	0	0	0	0	0	0	1	-360)
1852 360 360;		0.00371	9	0.02	2295	0	529	0	0	0	0	1	-
1852 360 360;	5695	0.00666	9	0.04	1288	0	414	0	0	0	0	1	-
2931	5799	0.00243	0.01	L98	0	0	0	0	0	0	1	-360)
360; 2931	7124	0.00845	0.04	1339	0	433	0	0	0	0	1	-360)
360; 2598		0.00219	0.01	L5169	9	0	281	0	0	0	0	1	-
360 360; 2598	2132	0.00357	0.03	302	0	319	0	0	0	0	1	-360)
	7571	0.00584	9	0.03	32419	9	0	319	0	0	0	0	1
-360 360 8834	; 1129	0.00406	0.01	L688	0	0	0	0	0	0	1	-360)
360 ; 7377	3324	0.00113	0.00	065	0	0	0	0	0	0	1	-360)
360; 1265	4426	0.0068	0.04	1613	0	414	0	0	0	0	1	-360)
360; 1265	1965	0.00337	0.02	2011	0	319	0	0	0	0	1	-360)
360 ; 8060	7162	0.00011				0	0	0	0	0	1	-360	
360; 6922	5482	0.00371					0	338		0	0	0	
-360 360									U	U	U	U	T
6922 360 360;	1295	0.00027	1	0.00	0145	0	357	0	0	0	0	1	-
8369 360;	4710	0.00326	0.01	1824	0	0	0	0	0	0	1	-360)
	7133	0.00118	0.00	712	0	319	0	0	0	0	1	-360)
	6888	0.00482	0.02	2232	0	281	0	0	0	0	1	-360)
4185 360 360;	7019	0.00013	0.00	00469	9	0	281	0	0	0	0	1	-
4185 360 360;	6253	0.00022	9	0.00	0075	0	319	0	0	0	0	1	-
7895	3391	0.00459	1	0.03	35021	L	0	433	0	0	0	0	1
-360 360 7895	1448	0.00546	9	0.03	3924	0	510	0	0	0	0	1	-
360 360; 7895	1448	0.00536	0.04	103	0	0	0	0	0	0	1	-360)
360 ; 7895	115 0.0	0424 0.0	33031	L	0	0	0	0	0	0	1	-360)
360 ; 5589	4306	2e-05	0.00	0024	0	657	0	0	0	0	1	-360)
360 ; 5589	1763	1e-05	0.00	0021	0	657	0	0	0	0	1	-360)
360 ; 5589	3697	0.00286	0.03	3653	0	1545	5	0	0	0	0	1	_
360 360;													

2.60	5589	3794	0.00117	0.01	183	0	1644	Į.	0	0	0	0	1	-
360	5589	3613	0.00103	0.01	336	0	1381	-	0	0	0	0	1	-
360	5589	1502	0.00156	0.01	969	0	1447	7	0	0	0	0	1	-
360	360; 5589	6555	0.00449	0.05	772	0	1677	7	0	0	0	0	1	_
360	360 ; 5589	3608	0.00259	0.03	469	0	1513	3	0	0	0	0	1	_
360	360; 1001	4134	0.000219)	0.00)118	0	0	0	0	0	0	1	_
360		1979	6e-05	0.00	095	0	0	0	0	0	0	1	-360)
360;	;	516 6e-0					529		0	0	0	1	-360	
360;	;													
360	1001 360;	3580	8.1e-05					529		0	0	0	1	_
360	1001 360;	3809	0.00274	0.02	0831	-	0	414	0	0	0	0	1	-
-360	1001 360;	5616	0.004781	-	0.02	27729)	0	453	0	0	0	0	1
			0.002849)	0.02	2093	0	472	0	0	0	0	1	-
	1001	6697	0.00513	0.03	014	0	414	0	0	0	0	1	-360)
360;	1001	7165	0.00113	0.00	651	0	0	0	0	0	0	1	-360)
360;		892 0.00)125 0.00	707	0	472	0	0	0	0	1	-360)	
360;	; 7438	5334	0.003349)	0.01	463	0	0	0	0	0	0	1	_
360	360; 7438	1526	0.00245	0 01	22	0	395	0	0	0	0	1	-360)
360;		1020	0.00213					300			0	0	1	
,	1 2 0 1	6052	0 00507	(1 (1.2)	C E O 1									_
	360;	6952	0.00587							0				
	360; 1301	6952	0.00569	0.03	774	0	0	0	0	0	0	1	-360)
360 360;	360; 1301			0.03	774	0	0	0	0					_
360 360;	360; 1301; 1301 360; 1301	6952	0.00569	0.03	774 0.03	0 3545	0	0 529	0	0	0	1	-360) - -
360 360; 360 360	360; 1301; 1301 360; 1301 360; 1301	6952 6952	0.00569 0.006031 0.000531	0.03	774 0.03 0.00	0 3545)301	0 0 0	0 529	0 0 0	0	0	1 0	-360 1) - -
360; 360; 360; 360	360; 1301 ; 1301 360; 1301 360; 1301 360; 778 7209	6952695278836430	0.00569 0.006031 0.000531	0.03	774 0.03 0.00	0 3545)301	0 0 0	0 529 0	0 0	0 0	0 0 0	1 0 0	-360 1 1	-
360 360; 360 360 360	360; 1301 ; 1301 360; 1301 360; 1301 360; 778 7209 360; 778 1910	6952 6952 7883 6430	0.00569 0.006031 0.000531	0.03	774 0.03 0.00 6099 8919	0 3545 3301	0 0 0 0	0 529 0 414	0 0 0	0 0 0 0	0 0 0 0	1 0 0	-360 1 1	- - -
360 360; 360 360 360;	360; 1301 ; 1301 360; 1301 360; 1301 360; 778 7209 360; 778 1910; 778 6820	6952 6952 7883 6430	0.00569 0.006031 0.000531 0.00076 08841	0.03	774 0.03 0.00 6099 8919	0 3545 3301	0 0 0 0	0 529 0 414 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	1 0 0 0	-360 1 1 1	- - -
360 360; 360 360 360	360; 1301 360; 1301 360; 1301 360; 778 7209 360; 778 1910; 778 6820;	6952 6952 7883 6430 0.00	0.00569 0.006031 0.000531 0.00076 08841 0169 0.00	0.03	774 0.03 0.00 6099 8919	0 3545 3301 9 0 0	0 0 0 0 0 0 0 0	0 529 0 414 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1 0 0 0 0	-360 1 1 1 1	- - -)
360 360; 360 360 360;	360; 1301 ; 1301 360; 1301 360; 1301 360; 778 7209 360; 778 1910; ; 778 6820; ; 778 3071;	6952 6952 7883 6430 0.00 0.00 0.00	0.00569 0.006031 0.000531 0.00076 08841 0169 0.00 01031 0813 0.03	0.03 - 0.00 0.02 0.09 0.00	774 0.03 0.00 6099 8919	0 3545 3301 9 0 0 0		0 529 0 414 0 0 0				1 0 0 0 0 1 1	-360 1 1 1 1 -360 -360	- - -)
360; 360; 360; 360; 360; 360; 360;	360; 1301 ; 1301 360; 1301 360; 1301 360; 778 7209 360; 778 1910; ; 778 6820; ; 778 3071; ; 5297	6952 6952 7883 6430 0.00 0.00 0.00 0.00 6267	0.00569 0.006031 0.000531 0.00076 08841 0169 0.00 01031 0813 0.03 0.00013	0.03 0.00 0.02 0.00 0.00 0.00	774 0.03 0.00 6099 8919 361	0 0 3545 0 301 0 0 0 0 0 0	0 0 0 0 0 0 0 0 433	0 529 0 414 0 0 0	0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0	1 0 0 0 0 1	-360 1 1 1 1 -360	- - -)

3657 -360 360		0.000169	9	0.00	00669)	0	491	0	0	0	0	1
3657 360 360;	2928	0.000669	9	0.00	0251	0	395	0	0	0	0	1	-
3657	2928	0.00071	1	0.00	0238	0	376	0	0	0	0	1	_
360 360; 3657	1172	0.000229	9	0.00	0238	0	491	0	0	0	0	1	_
360 360; 3657	9191	0.0007	0.00	065	0	453	0	0	0	0	1	-360)
360 ; 3657	8722	0.00061	0.00	06031	1	0	414	0	0	0	0	1	_
360 360; 6472		0.000283	1	0.00	018	0	529	0	0	0	0	1	_
360 360; 6472		0.000213					0	0	0	0	0	0	1
-360 360	;	0.00056						0	0	0	1		
360;												-360	
1198 360;							0	0	0	0	1	-360	
7473 -360 360		0.005039	9	0.03	32151	L	0	0	0	0	0	0	1
7473 360;	96 0.0	0.03	1713	0	357	0	0	0	0	1	-360)	
•		0.002169	9	0.0	12409)	0	0	0	0	0	0	1
		0.00	04719	9	0	0	0	0	0	0	1	-360)
346 657	0.0	0.00	04979	9	0	376	0	0	0	0	1	-360)
	4728	0.00264	0.01	L174	0	0	0	0	0	0	1	-360)
360 ; 2654	7886	0.00494	0.03	3181	0	376	0	0	0	0	1	-360)
360 ; 2654	2132	0.003713	1	0.02	23961	L	0	510	0	0	0	0	1
-360 360 4144		0.001409	9	0.01	1101	0	357	0	0	0	0	1	_
360 360; 4144								0	0	0	0	1	_
360 360; 4144	1625	0.00118				0	0	0	0	0	1	-360	١
360;													,
4144 360 360;	3786	0.00264					433		0	0	0	1	_
4144 360 360;	3786	0.002349				0	395	0	0	0	0	1	-
3422 360;	4100	0.00014	0.00	007	0	0	0	0	0	0	1	-360)
6624 360 360;	4419	3e-05	0.00	0054	0	1776	ĵ.	0	0	0	0	1	-
6624 360 360;	7159	3e-05	0.00	0055	0	1710)	0	0	0	0	1	-
6624	3661	4e-05	0.00	0058	0	1677	7	0	0	0	0	1	-
360 360; 6624	5486	4e-05	0.00	0054	0	1776	5	0	0	0	0	1	-
360 360;													

360	6624	4231	0.00171	0.02	2197	0	1282	2	0	0	0	0	1	-
360	6624	4231	0.00164	0.02	2064	0	1545	5	0	0	0	0	1	-
360	6624	6921	0.00136	0.01	756	0	1611	L	0	0	0	0	1	_
360	360; 6624	432 0.00	0.00	942	0	1381	_	0	0	0	0	1	-360)
360;		432 0.00	0.086 0.01	L109	0	1381	_	0	0	0	0	1	-360)
360;		432 0.00	0.01	113	0	1348	3	0	0	0	0	1	-360)
360;	;	6887	0.000979					300		0	0	0	1	
360		2050	0.00052				1809		0	0	0	0	1	_
360	360;													
360	2479 360;	2050	0.00046						0	0	0	0	1	-
360	5482 360;	8704	0.001151	L	0.00	0636	0	472	0	0	0	0	1	-
-360	5482) 360;	8704	0.001031	L	0.00	7211	_	0	491	0	0	0	0	1
	5482 360;		0.002341	L	0.02	2286	0	433	0	0	0	0	1	-
	5482	1295	0.002281	L	0.02	2518	0	300	0	0	0	0	1	-
360	5482	1910	0.005479	9	0.02	2114	0	281	0	0	0	0	1	-
360	5482	2985	0.011159	9	0.08	3856	0	376	0	0	0	0	1	-
360	360; 5482	5853	0.000669	9	0.00	249	0	300	0	0	0	0	1	_
360	360; 5482	7824	0.00193	0.01	.643	0	472	0	0	0	0	1	-360)
360;	;	3071	0.00024				338		0	0	0	1	-360	
360;	;		10159						0	0	0	0	1	_
360	360;													_
360;			0.00294							0	0	1	-360)
360	9066 360 ;	9155	0.018841	L	0.07	7469	0	0	0	0	0	0	1	-
-360	9066 360 ;	6357	0.015599	9	0.05	52169)	0	300	0	0	0	0	1
	7886 360;	3126	0.005831	L	0.03	3969	0	395	0	0	0	0	1	-
360;	7886	8564	0.00087	0.00	661	0	357	0	0	0	0	1	-360)
	7886	5567	0.00637	0.02	24659)	0	281	0	0	0	0	1	-
360	360; 6416	3069	0.0027	0.02	20419)	0	453	0	0	0	0	1	-
360	360; 6416	3876	0.000409	9	0.00	314	0	338	0	0	0	0	1	_
360	•	8804	0.001669)	0.01	1301	0	376	0	0	0	0	1	_
360														

6416 360;	8804	0.00164	0.01	325	0	395	0	0	0	0	1	-360	0
7831 360 360;		0.00089	0.00)556	0	1183	3	0	0	0	0	1	-
7831	4125	0.00186	0.01	809	0	1513	3	0	0	0	0	1	-
360 360; 7831		0.00381	0.02	2853	0	920	0	0	0	0	1	-360	0
360 ; 5525	2377	0.01241	9	0.07	72151	L	0	300	0	0	0	0	1
-360 360, 5525	; 1401	0.0042	0.02	2556	0	300	0	0	0	0	1	-360	0
360 ; 5525	2850	0.01077	1	0.04	193	0	376	0	0	0	0	1	_
360 360; 5525		0.010159	9	0.04	1995	0	300	0	0	0	0	1	_
360 360; 5525		0.013169		0.05			395		0	0	0	1	_
360 360; 8511				0.00						0	0	0	1
-360 360	;	0.000469					0	300					Τ
8511 360 360;	6178	0.00022	9	0.00)105	0	357	0	0	0	0	1	-
3400 360 360;	980 0.00	00271	0.00	1271	_	0	433	0	0	0	0	1	-
2101 360 360;	4598	0.00099	0.01	194	0	1545	5	0	0	0	0	1	-
2101		0.00077	0.01	184	0	0	0	0	0	0	1	-360	0
360; 2101	5144	0.00034	0.00	1426	0	0	0	0	0	0	1	-360	0
360; 3919	2129	0.00101	0.01	168	0	1644	1	0	0	0	0	1	_
360 360; 3919	4541	0.00086	0.01	046	0	1710)	0	0	0	0	1	_
360 360; 3919	3513	0.00035	0.00)417	0	0	0	0	0	0	1	-360	0
360 ; 6675	1486	0.000159	9	0.00	069	0	433	0	0	0	0	1	_
360 360; 4711		0.000783					529		0	0	0	1	_
360 360;													0
360;	575 0.00							0	0	0	1	-360	U
4711 360 360;	8214	0.00064					357	0	0	0	0	1	-
4711 360 360;	8214	0.00057	0.00	3781	_	0	338	0	0	0	0	1	-
4711 360 360;	3021	0.00053	1	0.00)111	0	0	0	0	0	0	1	-
4711	7967	0.00052	1	0.00)113	0	0	0	0	0	0	1	-
360 360; 4711		0.00176	0.00	843	0	338	0	0	0	0	1	-360	0
360; 4711	8804	0.002463	1	0.01	975	0	472	0	0	0	0	1	_
360 360; 4513	6831	0.000593	1	0.00	105	0	0	0	0	0	0	1	_
360 360;													

2043 360;	1422	0.00012	0.00	064	0	0	0	0	0	0	1	-360)
6714		0.000583	1	0.00	04419	9	0	0	0	0	0	0	1
-360 360 6371		0.000653	1	0.00	04331	L	0	0	0	0	0	0	1
-360 360 513 286	•	01289	0.00	8289	9	0	395	0	0	0	0	1	_
360 360;		0.00233				657		0	0	0	1	-360	
360;													
4970 360;						657	0	0	0	0	1	-360)
4970 360 360;		0.00052	0.00	605	0	1282	2	0	0	0	0	1	-
	5461	0.00023	0.00	275	0	1414	1	0	0	0	0	1	-
4970	8109	0.00134	0.01	343	0	1611	L	0	0	0	0	1	-
	8109	0.00116	0.01	552	0	1381	L	0	0	0	0	1	-
360 360; 7955		04169	0.02	27919	9	0	414	0	0	0	0	1	_
360 360;		0.00063					0	0	0	0	1	-360)
360;		0.004841											
-360 360	;						0	529		0	0		1
7955 360 360;		0.007419	9	0.05	5787	0	491	0	0	0	0	1	-
5093 -360 360		0.002719	9	0.02	20331	L	0	395	0	0	0	0	1
	7178	0.000789	9	0.00)5	0	0	0	0	0	0	1	-
9180		0238 0.01	13219)	0	357	0	0	0	0	1	-360)
360; 9180	3133	0.00377	1	0.02	2701	0	395	0	0	0	0	1	-
360 360; 292 454		01271	0.00	939	0	0	0	0	0	0	1	-360)
360; 9002	6737	0.000841	1	0 00	1131	Λ	Λ	Λ	0	0	0	1	_
360 360;													
-360 360	;	0.005711							U	0	0	0	1
8439 360 360;		0.00562	0.04	11901	1	0	395	0	0	0	0	1	-
4974 360 360;		0.00356	0.01	9781	1	0	433	0	0	0	0	1	-
4974		04841	0.03	3149	0	433	0	0	0	0	1	-360)
360; 747 850	7 0.0	0057 0.00	0107	0	0	0	0	0	0	1	-360)	
360 ; 6909	4914	0.000539	9	0.00	0213	0	414	0	0	0	0	1	_
360 360; 444 474		007 0.00	0425	0	0	0	0	0	0	1	-360)	
360; 1459							0	0	0	0		1	
360 360;		0.0012	0.00	, , , , , , , , , , , , , , , , , , , ,	L	U	U	U	U	U	U	Τ.	_

	1459	2751	0.00206	0.01	.5901	_	0	0	0	0	0	0	1	_
360	360; 3601	4728	0.00063	0.00	312	0	0	0	0	0	0	1	-360)
360		6475	3e-05	0 00	0041	0	1381		0	0	0	0	1	_
360	360;													
360;			2e-05	0.00			0		0	0	0	1	-360	
360	5709 360;			0.00	1039	0	1183	3	0	0	0	0	1	-
360	3825 ;	6475	3e-05	0.00	038	0	0	0	0	0	0	1	-360)
360	1415 360;	3503	0.0008	0.00	4151	-	0	0	0	0	0	0	1	-
360	4549	3503	0.000901	L	0.00	381	0	0	0	0	0	0	1	-
	3072		00591	0.00	4341	-	0	376	0	0	0	0	1	-
			00591	0.00	405	0	395	0	0	0	0	1	-360)
360;		4541	0.00218	0.02	275	0	1052	2	0	0	0	0	1	_
360	360; 5007		0.00184	0.01	677	0	986	0	0	0	0	1	-360)
360	;		0.00807				0	0	0	1	-360		360;	
	757 964	0.00056	0.00823	0	821	0	0	0	0	1	-360)	360;	
360		0.00	0123 0.01	1146	0	1315)	0	0	0	0	1	-360)
360		0.00	0.01	L298	0	1381	-	0	0	0	0	1	-360)
360		0.00	0.01	L585	0	1677	7	0	0	0	0	1	-360)
360	757 2919	0.00	0.02	2781	0	1381	-	0	0	0	0	1	-360)
	3758	188 0.00	0614 0.02	2831	0	300	0	0	0	0	1	-360)	
360,	•	2242	0.00513	0.03	3401	0	0	0	0	0	0	1	-360)
360;	•	4114	0.013219)	0.05	597	0	0	0	0	0	0	1	_
360	360 ; 5743		0.012969					0	0	0	0	0	1	_
360	360; 8626		0.00437					453		0	0	0	1	
360	360;													_
-360	8626 0 360 ;	2467	0.005651		0.03	33229)	0	491	0	0	0	0	1
360	2161 360;	5488	0.008969	9	0.03	3625	0	338	0	0	0	0	1	-
		7772	0.012409)	0.05	645	0	319	0	0	0	0	1	-
	5003	6382	0.00038	0.00	2271	-	0	300	0	0	0	0	1	-
		4084	0.00138	0.01	.089	0	472	0	0	0	0	1	-360)
360	; 6474	4084	0.001539)	0.01	.2521	_	0	491	0	0	0	0	1
-360	360;													

6474 360;	53 0.0	00205 0.03	14229	0	433	0	0	0	0	1	-360)
6474 360;	7259	0.00026	0.00164	0	395	0	0	0	0	1	-360)
6474	2475	0.00028	9 0.0	0169	0	0	0	0	0	0	1	-
360 360; 5334	7577	0.00334	9 0.0	51211	1	0	357	0	0	0	0	1
-360 360; 7961	: 2288	0.00038	0.00147	9	0	0	0	0	0	0	1	_
360 360; 1592	7098	0.00082	0.00625	0	453	0	0	0	0	1	-360)
360; 3187	2079	0.00275	0.01558	1	0	472	0	0	0	0	1	_
360 360; 6041	5926		9 0.0			0	0	0	0	0	1	_
360 360;												
3697 360 360;	8486		0.01038		1447		0	0	0	0	1	_
3697 360 360;	7530	0.00093	0.01017	0	1282	2	0	0	0	0	1	-
3697 360 360;	1502	0.00137	0.01431	0	1776	5	0	0	0	0	1	-
3697	1552	0.00215	0.02021	0	1578	3	0	0	0	0	1	-
360 360; 6952	3793	0.01189	0.05884	1	0	357	0	0	0	0	1	-
360 360; 6738	2526	0.00104	0.01241	0	1151	L	0	0	0	0	1	_
360 360 ; 6738	2526	0.00092	0.014	0	1151	L	0	0	0	0	1	_
360 360; 6738	2365		0.00845		1052		0	0	0	0	1	_
360 360;												
6738 360 ;	2365		0.00861		887		0	0	0	1	-360)
6738 360 360;	3794	0.00105	0.01057	0	1710)	0	0	0	0	1	-
6738 360 360;	3613	0.00089	0.01122	0	1513	3	0	0	0	0	1	-
6738 360 360;	6901	0.00223	0.02584	0	1677	7	0	0	0	0	1	-
8180	5106	0.00101	0.00784	1	0	453	0	0	0	0	1	-
360 360; 8180		0.00108	1 0.0	08099	9	0	472	0	0	0	0	1
-360 360; 6240		0.01108	1 0.0	68479	9	0	0	0	0	0	0	1
-360 360; 9222		2e-05	0.00033	0	0	0	0	0	0	1	-360)
360 ; 9222			0.00029		1677		0	0	0	0	1	_
360 360;												
9222 360 360;					1480		0	0	0	0	1	_
9222 360 360;	7164	0.00136	0.01526	0	1348	3	0	0	0	0	1	-
5935 -360 360;		0.00540	1 0.0	36021	1	0	491	0	0	0	0	1
,												

	360;			0.00437	0.0	33719	9	0	357	0	0	0	0	1	-
3	3134 360;	1051		0.00515	1	0.03	34919	9	0	414	0	0	0	0	1
2	283 800 283 1077	0.00					0	0	0	0	1) -360		:
	283 4747		0.00	0.00	0446	1	0	433	0	0	0	0	1	-360)
360 ; 3	3391	5213		0.00688	0.0	40591	L	0	281	0	0	0	0	1	_
	360; 3391		0.00	1341	0.0	08349	9	0	376	0	0	0	0	1	_
360	360;			1229					529		0	0	0	1	_
360	360;													_	
360	360;			0.00137					319		0	0	0	1	_
360	7539 360 ;								376	0	0	0	0	1	-
7 360 ;	7539	871	0.00	163 0.0	095	0	433	0	0	0	0	1	-360)	
8 360;	8893	8874		0.00488	0.0	497	0	472	0	0	0	0	1	-360)
8	3893 360;	4505		0.00128	9	0.00	87	0	453	0	0	0	0	1	-
	3893	3436		0.00211	0.0	1524	0	472	0	0	0	0	1	-360)
8	8893	3436		0.00206	0.0	15539	9	0	491	0	0	0	0	1	-
8	360 ; 3893			0.00276	0.0	1631	0	414	0	0	0	0	1	-360)
360 ; 8		6556		0.00305	0.0	19521	L	0	510	0	0	0	0	1	_
	360 ; 3893	8765		0.00040	19	0.00)23	0	395	0	0	0	0	1	_
	360 ; 3893	6619		0.00036	5 0.0	0268	0	414	0	0	0	0	1	-360)
360;				0.00032				0	0	0	0	0	1		
360;															
360	360;							0	0	0	0	0		1	
360;	7988							0	0	0	0	0	1	-360	J
8 360;	304 2142		0.00	00919	0.0	0561	0	433	0	0	0	0	1	-360)
8 360;	304 2142		0.00	0.094 0.0	0549	0	433	0	0	0	0	1	-360)	
•	304 7519)	0.00	175 0.0	1976	0	433	0	0	0	0	1	-360)	
8	360.		0.00	1729	0.0	19331	L	0	376	0	0	0	0	1	-
2	360 ; 2286	6802		0.00406	0.0	2581	0	472	0	0	0	0	1	-360)
	2286	769	0.00	526 0.0	2596	1	0	414	0	0	0	0	1	-360)
360 ;	3239	1081		0.00179	0.0	2098	0	1249	9	0	0	0	0	1	_
	360;														

3239 360 360	5983	0.00162 0.	02148 0	1282	2	0	0	0	0	1	-
360 360 3239 360;		0.00492 0.	04991 0	953	0	0	0	0	1	-360	0
3239	960 0.0	00109 0.0136	1 0 986	0	0	0	0	1	-36	О	
	960 0.0	00097 0.0153	0 789	0	0	0	0	1	-36	С	
		0.00322 0.	03022 0	1381	1	0	0	0	0	1	-
	7361	0.032831	0.07415	1	0	0	0	0	0	0	1
-360 36 1539	0 ; 6852	0.01411 0.	058711	0	414	0	0	0	0	1	_
360 360	; 8515	0.02725 0.	102070	0	338	0	0	0	0	1	
360 360	;										_
1539 360 360		0.012229	0.04049	0	300	0	0	0	0	1	-
1539 360 360	2676	0.01994 0.	066719	0	0	0	0	0	0	1	-
1539	3793	0.018591	0.07462	0	338	0	0	0	0	1	-
360 360 1539	; 4529	0.008979	0.03251	0	0	0	0	0	0	1	_
360 360 1539		0.016531	0 08603	1	0	281	0	0	0	0	1
-360 36	0;										
8628 360 ;	44 0.0	0.03591 0.	02137 0	491	0	0	0	0	1	-360	U
8628 360;	6630	0.00124 0.	008 0	300	0	0	0	0	1	-360	0
8628	6630	0.001271	0.00783	1	0	338	0	0	0	0	1
	1545	0.000469	0.00294	0	395	0	0	0	0	1	-
360 360 8628	; 4215	0.000841	0.00328	9	0	395	0	0	0	0	1
-360 36 7163	0; 1917	0.00219 0.	016539	0	300	0	0	0	0	1	_
360 360	;										1
-360 36	5519 0;	0.002901	0.02090	Τ	0	300	0	0	0	0	1
7647 360 ;	225 0.0	0.0012	11 0	0	0	0	0	0	1	-360	0
4864		9.1e-05 0.	000479	0	0	0	0	0	0	1	-
360 360 7021		0.005461	0.02946	9	0	319	0	0	0	0	1
-360 36 7021		0.001979	0.01128	9	0	491	0	0	0	0	1
-360 36	0;								200		
360;		0.0128			0	0	0	1	-36	J	
9045 360 360		0.000159	0.00037	0	0	0	0	0	0	1	-
8874 360 360		0.002789	0.01562	0	433	0	0	0	0	1	-
5891	5574	0.002531	0.01233	1	0	281	0	0	0	0	1
- 360 36	∪;										

5891 360 360;	7663	0.00357	0.02	23289	9	0	300	0	0	0	0	1	-
•	4889	0.00076	0.0	06039	9	0	414	0	0	0	0	1	-
3997	1526	0.000469	9	0.00	075	0	0	0	0	0	0	1	-
	6 0.00	0044 0.00	0069	0	0	0	0	0	0	1	-360)	
360; 2972		0.00561	0.03	35521	L	0	491	0	0	0	0	1	_
	933 0.00	04539	0.03	3468	0	0	0	0	0	0	1	-360)
	933 0.00	0175 0.00	067	0	319	0	0	0	0	1	-360)	
860 ; 8676	3643	0.007461	1	0.03	31419	9	0	300	0	0	0	0	1
-360 360 8704		0.00224	0.03	12909	9	0	510	0	0	0	0	1	_
360 360 ; 7047	21 0.00	003 0.00	0096	1	0	319	0	0	0	0	1	-360)
360 ; 7047	21 0.00	0032 0.00	01409	9	0	0	0	0	0	0	1	-360)
360;	1551					0	453	0	0	0	0	1	_
360 360; 7047		0.00038							0	0	1	-360)
7047		0.00118				453		0	0	0	1	-360	
7047 7047	5458	0.001229							0	0	0	1	
360 360;													
5574 360;		0.00301						0	0	0	1	-360	
6742 360;		0.00063						0	0	0	1	-360	
360;	7862	0.00064				0	0	0	0	0	1	-360)
360 360;	3857								0	0	0	1	-
6290 -360 360		0.001831							0	0	0	0	1
3430 360;	401 0.00	0536 0.03	3188	0	433	0	0	0	0	1	-360)	
2967 360 360;	8976	0.00038	0.00	01461	L	0	0	0	0	0	0	1	-
	8976	0.000289	9	0.00)1521	L	0	0	0	0	0	0	1
8976 360 360;	•	0.00305	0.0	16841	L	0	376	0	0	0	0	1	-
8976		0.001781	1	0.01	L2729	9	0	357	0	0	0	0	1
	; 7520	0.00041	0.0	0461	0	854	0	0	0	0	1	-360)
	7520	0.0004	0.0	047	0	920	0	0	0	0	1	-360)
360 ; 4084	5340	0.00213	0.0	1401	0	529	0	0	0	0	1	-360)
360;													

4084 360 360;	2319	0.00127	1	0.00	887	0	338	0	0	0	0	1	-
4084	2878	0.00462	0.02	2743	0	433	0	0	0	0	1	-360)
360 ; 2597	7422	0.001539	9	0.00	776	0	0	0	0	0	0	1	-
360 360; 7183	8931	0.00025	0.00	478	0	0	0	0	0	0	1	-360)
360 ; 5379	8931	0.00025	0.00)487	0	0	0	0	0	0	1	-360)
360 ; 8128	8931	0.00025	0.00)435	0	723	0	0	0	0	1	-360)
	8931	0.00026	0.00)426	0	657	0	0	0	0	1	-360)
360 ; 1237	8931	0.00025	0.00)479	0	0	0	0	0	0	1	-360)
360 ; 4127	9173	0.000169	9	0.00	076	0	338	0	0	0	0	1	_
360 360; 4127	7974	0.00039	0.00	126	0	395	0	0	0	0	1	-360)
360 ; 2432	4816	0.011229					0	529	0	0	0	0	1
-360 360 ;	:	0.014521					0	300		0	0	0	1
-360 360; 2432	:	0.00064					433		0	0	0	1	_
360 360; 2432	5146	0.014789					338		0	0	0	1	
360 360;													_
2432 360;	6940	0.00938				472		0	0	0	1	-360)
2432 360 360;		0.00124				0	319		0	0	0	1	_
5213 360;		0.00968				0	0	0	0	0	1	-360)
360 360 ;	174 0.00)8531	0.06	57151	-	0	357	0	0	0	0	1	-
5213 360 ;	7437	0.00731	0.04	106	0	338	0	0	0	0	1	-360)
7342 360 360;	5940	0.004349	9	0.02	2555	0	433	0	0	0	0	1	-
7342 360 ;	7495	0.00599	0.03	3462	0	376	0	0	0	0	1	-360)
8808 -360 360;		0.002963	1	0.02	21591	-	0	453	0	0	0	0	1
8808 360 360;	4816	0.002903	1	0.02	2206	0	472	0	0	0	0	1	-
8808 -360 360;	6053	0.002979	9	0.01	6969)	0	376	0	0	0	0	1
5764 360 360;	4189	0.00312	0.02	20021	_	0	376	0	0	0	0	1	-
8507	1973	0.000219	9	0.00	0909)	0	0	0	0	0	0	1
	1973	0.000219	9	0.00	0093	0	357	0	0	0	0	1	-
	2128	0.000153	1	0.00	0289)	0	0	0	0	0	0	1
-360 360 <i>;</i>	:												

4942	8255	0.00563	0.04	13599	9	0	0	0	0	0	0	1	-
360 360; 4942		0.000969	9	0.00	0612	0	414	0	0	0	0	1	-
360 360; 3486	3594	0.005021	L	0.02	20719)	0	338	0	0	0	0	1
-360 360; 3486		0.00988	0.04	11039	9	0	0	0	0	0	0	1	_
360 360; 4656	4235	0.003159	9	0.02	2011	0	376	0	0	0	0	1	_
360 360; 4656		0.003219					376		0	0	0	1	_
360 360;	5441	0.00049					0	0	0	0	1	-360	1
360;													
7129 -360 360;		0.000479	9	0.00)2419)	0	0	0	0	0	0	1
8250 360 360;		0.00264	0.01	L9729	9	0	433	0	0	0	0	1	-
8250 360 360;		0.002583	L	0.02	2011	0	395	0	0	0	0	1	-
6831		0.00037	0.00	02831	L	0	453	0	0	0	0	1	-
	5686	0.00213	0.01	L2789	9	0	414	0	0	0	0	1	-
360 360; 2377	805 0.01	L8669	0.09	92281	L	0	338	0	0	0	0	1	_
360 360; 907 9091	1 3.96	=-05 0.00	00401	L	0	0	0	0	0	0	1	-360)
360;	9091					281	Λ	0	0	0	1	-360	
360;											_		
6837 360 ;						414	0	0	0	0	1	-360)
5666 -360 360;		0.001271	L	0.00	07031	_	0	376	0	0	0	0	1
5666 360 360;		0.00055	0.00	3159	9	0	510	0	0	0	0	1	-
5666 360;		0.00055	0.00	338	0	491	0	0	0	0	1	-360)
5666	7577	0.00105	0.00	04771	L	0	395	0	0	0	0	1	-
	1629	0.003289	9	0.01	L5039)	0	281	0	0	0	0	1
-360 360; 726 687	0.00036	0.004349	9	0	510	0	0	0	0	1	-360)	
360; 3526	687 0.00	0.038 0.00	03669	9	0	0	0	0	0	0	1	-360)
360 ; 6382		0.00118				0	0	0	0	0	1	-360)
360;											_		,
6382 360 360;	2425	0.001229					433		0	0	0	1	_
6382 360 ;	5907	0.00301	0.02	217	0	0	0	0	0	0	1	-360)
6382 360 360;	5907	0.003409	9	0.01	L924	0	0	0	0	0	0	1	-
6382 360 360;	5907	0.003409	9	0.01	1938	0	472	0	0	0	0	1	-
500 ,													

7847 360 360 ;	9217	0.002719	0.02131	0	0	0	0	0	0	1	-
2981 360;	1448	0.00295 0.01	956 0	0	0	0	0	0	1	-360)
5110 360 360;	5686	0.001091	0.00831	0	376	0	0	0	0	1	-
2968 360 360;	5907	0.00111 0.00	8211	0	453	0	0	0	0	1	-
5441 -360 360;	2155	0.002469	0.01527	1	0	529	0	0	0	0	1
•	8112	0.00212 0.01	601 0	0	0	0	0	0	1	-360)
	2535	0.00037 0.00)28 0	433	0	0	0	0	1	-360)
5441 360;	7098	0.00162 0.01	238 0	0	0	0	0	0	1	-360)
5441	7098	0.001909	0.01162	0	0	0	0	0	0	1	-
360 360; 5441	7098	0.001909	0.01072	9	0	453	0	0	0	0	1
	3737	0.00089 0.00)526 0	319	0	0	0	0	1	-360)
360 ; 5441	5529	0.00087 0.00)536 0	0	0	0	0	0	1	-360)
	5753	0.001521	0.01176	0	433	0	0	0	0	1	-
360 360; 9019	6563	0.00014 0.00	0591	0	376	0	0	0	0	1	-
360 360; 1341	1101	0.003531	0.02878	1	0	0	0	0	0	0	1
		0.004599	0.03657	0	453	0	0	0	0	1	_
360 360 ; 2797	8367	0.00307 0.01	9159	0	491	0	0	0	0	1	-
360 360 ; 2797	1100	0.000581	0.00446	1	0	414	0	0	0	0	1
-360 360 ; 2797		0.00164 0.01	161 0	491	0	0	0	0	1	-360)
360 ; 4939	6880	0.00057 0.00	3281	0	433	0	0	0	0	1	-
		0.020419	0.06366	9	0	0	0	0	0	0	1
-360 360 ; 6565		0.01424 0.04	1751 0	0	0	0	0	0	1	-360)
	280 0.00	0.008849	9 0	453	0	0	0	0	1	-360)
360 ; 8707	2510	0.01218 0.07	7524 0	0	0	0	0	0	1	-360)
360 ; 1625	766 0.00	0.00151	0 0	0	0	0	0	1	-360)	
360 ; 8411	6232	0.000219	0.00053	1	0	0	0	0	0	0	1
-360 360 ; 3951		0.002849	0.0137	0	0	0	0	0	0	1	_
030=											

964 7282 360;	2 0.0	0133 0.0	1462 0	1315	5	0	0	0	0	1	-360)
964 6475 360;	5 0.0	0.00	0821 0	887	0	0	0	0	1	-360)	
964 6475	5 0.0	0.064 0.0	0804 0	1183	3	0	0	0	0	1	-360)
	5420	0.00126	0.01272	0	1282	2	0	0	0	0	1	-
360 360; 5658	8267	0.00337	0.0494	0	1644	1	0	0	0	0	1	_
360 360; 5658	7328	0.0014	0.0214	0	0	0	0	0	0	1	-360)
360 ; 5658	7328	0.00137	0.02182	0	0	0	0	0	0	1	-360)
360 ; 5658	7164	0.00212	0.02063	0	1118	3	0	0	0	0	1	_
360 360; 5550	410 0.0	0186 0.0	1045 0	510	0	0	0	0	1	-360)	
360 ; 5550			0.02177			338	0	0	0	0	1	_
360 360; 5550			9 0.02			0	395		0	0	0	1
-360 360			0.04991			357		0	0	0	1	_
360 360;												_
7282 360;			0.01192				0	0	0	1	-360	
1526 -360 360	;		1 0.04			0	338	0	0	0	0	
1526 360;	4747	0.00236	0.01239	0	338	0	0	0	0	1	-360)
1526 360 360;	4747	0.0027	0.015169	9	0	319	0	0	0	0	1	-
4541 360 360;		0.00285	0.03283	0	1414	1	0	0	0	0	1	-
4541 360;		0.00529	0.03969	0	920	0	0	0	0	1	-360)
1343 360 360;		0.00254	0.03721	0	1447	7	0	0	0	0	1	-
3680 360 360;		0.00015	9 0.00	0069	0	0	0	0	0	0	1	-
3680 -360 360,		0.00022	9 0.00	00979)	0	0	0	0	0	0	1
3680		0.00024	0.00082	0	0	0	0	0	0	1	-360)
	795 0.0	00169	0.00075	0	0	0	0	0	0	1	-360)
	4880	0.00368	0.01756	0	0	0	0	0	0	1	-360)
360 ; 3680	1868	0.00259	9 0.02	20659)	0	0	0	0	0	0	1
-360 360; 7464		0.00018	0.00064	0	0	0	0	0	0	1	-360)
360 ; 7464	7036	0.00015	9 0.00	00771	_	0	281	0	0	0	0	1
-360 360	;		0.01981				0		0	1	-360)
360;	_ _ _		3.2.2.0.1	-	0	-	-	-	-	=	500	

7464 360 360;		0.006021	L	0.03	3205	0	433	0	0	0	0	1	-
4850	2886	0.001781	L	0.01	L164	0	433	0	0	0	0	1	-
360 360; 4850	7049	0.002781	L	0.01	L8831	L	0	414	0	0	0	0	1
-360 360 2510		0.000349	9	0.00	0281	0	0	0	0	0	0	1	_
360 360; 90 186		0313 0.02	2444	0	510	0	0	0	0	1	-360)	
360; 90 186	0.00	0368 0.02	2074	0	491	0	0	0	0	1	-360)	
360; 2142							0	0	0	0		1	_
360 360;		0.00251						0	0				
360;							0			0		-360	
2142 -360 360	;							319		0	0	0	
2142 -360 360	;							338	0	0	0	0	1
2142 360;								0	0	0	1	-360)
9091 -360 360		0.002169	9	0.01	L7901	L	0	319	0	0	0	0	1
2457 360;		0.00011	0.00	0038	0	0	0	0	0	0	1	-360)
1422	1462	0.00212	0.00)494	0	0	0	0	0	0	1	-360)
360; 1422		0.018901	L	0.0	77349)	0	376	0	0	0	0	1
-360 360 7881		0.00957	0.03	395	0	357	0	0	0	0	1	-360)
360 ; 7881		0.02324	0.06	53469	9	0	300	0	0	0	0	1	_
360 360; 6926		0.000531	L	0.00	04331	L	0	510	0	0	0	0	1
-360 360 1959		02581	0.00)6229	9	0	0	0	0	0	0	1	_
360 360;		0.00031									0	1	_
360 360; 803 6983													
360;													
803 5918 360 360;								0		0		1	
-360 360	;	0.002099					0	300	0	0	0	0	1
500 154°	7 0.00	0.00)5461	L	0	0	0	0	0	0	1	-360)
500 523° 360 360;		09591	0.03	37039	9	0	319	0	0	0	0	1	-
		1 0.01	L7211	L	0	453	0	0	0	0	1	-360)
500 895	0.0	0164 0.01	L3651	L	0	395	0	0	0	0	1	-360)
360; 2754		0.003219	9	0.01	L4719)	0	357	0	0	0	0	1
-360 360	;												

2754 360 360;		0.00401	0.02	22229	9	0	357	0	0	0	0	1	-
2754 360 360;	7049	0.00126	0.01	10211	L	0	491	0	0	0	0	1	-
4118		0.00916	9	0.03	3993	0	0	0	0	0	0	1	_
360 360; 4118	3865	0.00134	9	0.00	06081	1	0	0	0	0	0	0	1
-360 360, 1754	; 8486	0.00156	0.01	1931	0	1480)	0	0	0	0	1	_
360 360; 1754	7530	0.00152	0 01	968	Ο	1381	1	0	0	0	0	1	_
360 360;		0.00094						0	0	0	0	1	_
360 360;												_	
1754 360 360;	6897	0.00092	0.01	1461	0	1348	3	0	0	0	0	1	-
1754 360;	960 0.0	0137 0.0	2012	0	1019	9	0	0	0	0	1	-360)
1754	960 0.0	0134 0.0	2051	0	821	0	0	0	0	1	-360)	
	4491	0.00314	0.04	12151	L	0	472	0	0	0	0	1	-
360 360; 3857		0.00065	1	0.00)494	0	0	0	0	0	0	1	-
360 360; 3857		0.00396	1	0.02	2426	0	491	0	0	0	0	1	_
360 360; 858 1643		0013 0.0	015	0	0	0	0	0	0	1	-360)	
360;										_			_
3028 360;	809 0.0	0013 0.0	014/	U	177	0	0	0	0	0	1	-360	J
4819 360 360;		0.00011	0.00)172	0	1776	5	0	0	0	0	1	-
		0012 0.0	0166	0	0	0	0	0	0	1	-360)	
		0.00012	0.00)168	0	1809	9	0	0	0	0	1	-
3741		0012 0.0	0172	0	1809	9	0	0	0	0	1	-360)
	0.00093	0.00566	9	0	0	0	0	0	0	1	-360)	
360 ; 2910	7098	0.00105	0.00	0506	0	0	0	0	0	0	1	-360)
360 ; 5688	6231	0.00113	0.00	06539	9	0	0	0	0	0	0	1	_
360 360;		0.00037	0 00)2919	9	0	0	0	0	0	0	1	_
360 360 ;		05169				376		0	0	0	1	-360	1
360;													
3814 360;	954 0.0	0125 0.0	06669	9	0	357	0	0	0	0	1	-360)
2313 360 360;		0.00128	1	0.00	0661	0	0	0	0	0	0	1	-
		0226 0.0	138	0	357	0	0	0	0	1	-360)	
2518	3513	0.00213	0.02	2677	0	1513	3	0	0	0	0	1	-
360 360;													

2518 360 360;	3346	0.00154	0.01	1919	0	1249	9	0	0	0	0	1	-
•	601 0.00	0.04	4413	0	0	0	0	0	0	1	-360)	
4544	3241	0.0045	0.04	1725	0	357	0	0	0	0	1	-360	C
360; 4544	7338	0.00138	0.00	837	0	0	0	0	0	0	1	-360	C
360 ; 3069	1538	0.000419	9	0.00	1901	1	0	0	0	0	0	0	1
	; 1538	0.00043	0.00	186	0	0	0	0	0	0	1	-360	C
360 ; 6115	4729	0.003333	1	0.01	L5099	9	0	491	0	0	0	0	1
-360 360; 3344		0.002099	9	0.01	1631	0	433	0	0	0	0	1	_
360 360; 3809		0.001331							0	0	0	1	_
360 360;		0.00199								0	1	-360	1
3809 360;								0	0				J
360 360;						0	0	0	0	0	0	1	_
360 360;		01771				0	0	0	0	0	0	1	-
601 616 360;	0.003099	9 0.01	1844	0	395	0	0	0	0	1	-360)	
3496 360 360;		0.003409	9	0.01	1819	0	338	0	0	0	0	1	-
4925 360;		0.00057	0.00	369	0	0	0	0	0	0	1	-360)
8057 360 360;	5907	0.001083	1	0.00)468	0	0	0	0	0	0	1	-
5354	5907	0.00105	0.00)4771	L	0	0	0	0	0	0	1	-
	616 0.00	01979	0.01	L549	0	491	0	0	0	0	1	-360	C
360 ; 3674	7338	0.001469	9	0.01	L5151	1	0	0	0	0	0	0	1
-360 360; 5836	; 5083	0.000713	1	0.00	3969	9	0	319	0	0	0	0	1
-360 360; 5836	; 7576	0.00051	0.00	274	0	0	0	0	0	0	1	-360)
360 ; 5836	3191	0.000521	1	0.00	306	0	395	0	0	0	0	1	_
360 360;	3488	0.00188					0	0	0	0	0	1	_
360 360;		0.002469					0	0	0	0	0	0	1
-360 360;	;												Τ
360;		0.045 0.00					0	0	0	1	-360		
360 360;	9173						0	0	0	0	0	1	-
2089 360 360;		0.000403	1	0.00	007	0	0	0	0	0	0	1	-
2089 360 360;	6232	0.00014	0.00	0531	L	0	0	0	0	0	0	1	-

2089		0.000289	9	0.00)13	0	395	0	0	0	0	1	-
	6253	7e-05	0.00	0289)	0	0	0	0	0	0	1	_
	6684	0.00051	0.00	2151	-	0	281	0	0	0	0	1	-
		0.00037	0.00	157	0	433	0	0	0	0	1	-360)
360 ; 5067	449 0.00	0.022 0.00	277	0	1348	3	0	0	0	0	1	-360)
360 ; 5067	449 0.00	0025 0.00	271	0	1447	,	0	0	0	0	1	-360)
360 ; 7641	3037	0.000271	L	0.00	2081		0	472	0	0	0	0	1
-360 360 7641		0.00025	0.00	231	0	433	0	0	0	0	1	-360)
360;		0.00095					0	0	0	0	1	-360)
360;		0.00093					0	0	0	0	1	-360	
360;		0.000341					0	491		0	0	0	
-360 360 2644	;						0			0	1	-360	
360; 4128												1	
360 360;									0	0	0	_	
360;		0075 0.01					0	0	0	0	1	-360	
360;		0118 0.01						0	0	0	1	-360	
360;		0.0017						0	0	0	1	-360)
2155 360 360;		0.001521	L	0.01	.111	0	0	0	0	0	0	1	-
2155 -360 360		0.000169	9	0.00	1401	-	0	0	0	0	0	0	1
		02591	0.01	725	0	510	0	0	0	0	1	-360)
2155 -360 360		0.000169)	0.00	1159)	0	338	0	0	0	0	1
		0.00307	0.01	339	0	433	0	0	0	0	1	-360)
		0.002591	L	0.01	3521	-	0	414	0	0	0	0	1
9067	9051	0.000581	L	0.00	5031		0	453	0	0	0	0	1
	5573	0.001419)	0.00)595	0	281	0	0	0	0	1	-
		0205 0.02	2664	0	1348	3	0	0	0	0	1	-360)
	2 0.00	0295 0.03	3721	0	1414	ŀ	0	0	0	0	1	-360)
	0.00	0335 0.03	3648	0	1381		0	0	0	0	1	-360)
360; 666 160°	7 0.00	0.022 0.00)251	0	1151	-	0	0	0	0	1	-360)
360;													

	0.00059 0.00651	0 1545		0	0	0	0	1	-360)
	7 0.008539	0.041979		0	281	0	0	0	0	1
-360 360; 3565 2843	1 0.001349	0.0052	0	300	0	0	0	0	1	_
360 360; 3611 7972	2 0.00245 0.0	13909	0	414	0	0	0	0	1	-
360 360; 3611 2483	1 0.001469	0.008419		0	453	0	0	0	0	1
-360 360; 5420 7164	4 0.00084 0.0	0836 0	1249)	0	0	0	0	1	_
360 360; 7119 2078	8 0.002591	0.017789		0	414	0	0	0	0	1
-360 360; 7119 7873	3 0.009651	0.05968	0	319	0	0	0	0	1	-
360 360; 7422 7519	9 0.00143 0.0	0799 0	281	0	0	0	0	1	-360)
360; 7422 6744	4 0.001969	0.014909		0	472	0	0	0	0	1
-360 360; 1026 1860	0.01039 0.0	6406 0	395	0	0	0	0	1	-360)
360; 4765 332°	7 0.000719	0.005331		0	338	0	0	0	0	1
-360 360; 6036 6923	1 0.00052 0.0	0565 0	1315	,)	0	0	0	0	1	_
360 360; 8670 7069	9 0.002409	0.019479		0	395	0	0	0	0	1
-360 360 ; 8670 7069	9 0.00256 0.0	19151	0	319	0	0	0	0	1	_
360 360; 8670 2866	6 0.00656 0.0	2288 0	281	0	0	0	0	1	-360)
360; 4032 6450	0.0027 0.0	14901	0	300	0	0	0	0	1	_
360 360; 4032 5738	8 0.003591	0.01362	0	300	0	0	0	0	1	_
360 360; 7327 2483	1 0.002211	0.01188	0	0	0	0	0	0	1	_
360 360; 7327 8189	9 0.00068 0.0	0357 0	300	0	0	0	0	1	-360)
360; 7474 1584	4 0.000211	0.000969		0	300	0	0	0	0	1
-360 360; 8947 3390	0 9.9e-05 0.0	00539	0	0	0	0	0	0	1	_
360 360; 1808 6384	4 0.00645 0.0	263 0	319	0	0	0	0	1	-360)
360; 4624 6033			0	0	0	0	0	0	1	_
360 360; 1721 3558				0	0	0	0	0	0	1
-360 360; 7694 3865				0	0	0	0	0	1	_
360 360;	3 0.00014 0.0			0	0	0	0	1	-360)
360;	8 0.003219			0	433		0	0	0	
-360 360;				-		-	-	-	-	-

		0.00051	0.00	3151	L	0	472	0	0	0	0	1	_
	8475	0.000409	9	0.00	331	0	414	0	0	0	0	1	_
360 360; 5630	6639	0.002289	9	0.01	L7479	9	0	491	0	0	0	0	1
-360 360, 5630	; 1187	0.002831	1	0.01	L895	0	433	0	0	0	0	1	_
360 360; 5630	7274	0.006289	9	0.03	36521	L	0	0	0	0	0	0	1
-360 360; 5630	; 8992	0.005651	1	0.03	32169	9	0	338	0	0	0	0	1
-360 360; 5630	; 7266	0.00414	0.02	2262	0	376	0	0	0	0	1	-360)
360;	6734	0.01095						0	0	0		-360	
360;		0.009						0	0	0	1	-360	
360;										•			
3492 360 360;									0	0	0	1	
1980 360;									0	0		-360)
9137 360 360;									0	0	0	1	_
7522 360 360;		0.00209	0.02	2279	0	1611	1	0	0	0	0	1	-
7571 360 360;		0.002031	1	0.01	1443	0	0	0	0	0	0	1	-
	6891	0.00145	0.00	8479	9	0	453	0	0	0	0	1	-
	6199	0.00124	0.01	L433	0	1414	4	0	0	0	0	1	-
2526	6199	0.00127	0.01	L402	0	1776	5	0	0	0	0	1	-
	3649	0.013039	9	0.05	52841	L	0	529	0	0	0	0	1
	; 6199	0.00235	0.02	2739	0	854	0	0	0	0	1	-360)
360 ; 2365	6199	0.0024	0.02	2681	0	1118	3	0	0	0	0	1	_
360 360; 2365	4141	0.00135	0.02	2056	0	657	0	0	0	0	1	-360)
360 ; 2365	1311	0.00087	0.01	124	0	854	0	0	0	0	1	-360)
360; 8316	174 0.00	012 0.00	0818	0	529	0	0	0	0	1	-360)	
360; 174 6430						395		0	0	0		-360)
360; 5340						376		0	0	0	1	-360	
360;		0.00103											
360;						0	0	0	0	0	1	-360	
360;		3.9e-05				0	0	0	0	0	1	-360	
5340 360 360;	8843	4.5e-05	0.00	0195)	0	0	0	0	0	0	1	_

36	5340 0 360;	4239	9	0.00)35	0.02	22651	L	0	433	0	0	0	0	1	-
	3866)	0.00)4281	L	0.02	2319	0	357	0	0	0	0	1	-
	360;	5395	5	0.00	3729)	0.01	L4021	-	0	319	0	0	0	0	1
-3	60 360; 7042		7	0.00)212	0.01	L582	0	472	0	0	0	0	1	-360)
	0 ; 8672	7164	1	0.00	056	0.00	784	0	657	0	0	0	0	1	-360)
36	0; 1860	7772	2	0.00	04401	L	0.01	1813	0	0	0	0	0	0	1	_
36	0 360; 1860							2144		0	0	0	0	0	1	_
36	360;															
36	4885 0 360;)		281		0	0	0	1	_
-3	4157 60 360;		3	0.00	00151	L	0.00	00211	-	0	0	0	0	0	0	1
-3	4432 60 360;		3	0.00	00151	L	0.00	00211	-	0	0	0	0	0	0	1
	2072 0 360;	5983	3	0.00)282	0.02	2591	0	1381	L	0	0	0	0	1	-
	3450		2	0.00)131	0.00	8539	9	0	433	0	0	0	0	1	-
	360; 3956		7	0.00)2159)	0.01	15969)	0	0	0	0	0	0	1
-3	60 360; 5286	: 1838	3	0.00	0019	0.00	0281	L	0	0	0	0	0	0	1	_
36	0 360; 5571	2230)	0.00	002	0.00	0281	L	0	0	0	0	0	0	1	_
36	360; 2078								472	Ω	0	0	0	1	-360)
36	0;															,
36	639 6351 0;									0	0	0	1	-360		
36	639 2749 0;	9	0.0	0063	0.00	0463	0	338	0	0	0	0	1	-360)	
	639 9130 0 360;)	0.0	02341	L	0.00	9599	9	0	376	0	0	0	0	1	-
36	410 4189	9	0.0	0375	0.02	21659	9	0	376	0	0	0	0	1	-360)
	1494 0 360;	5781	L	0.00	056	0.00	749	0	1183	3	0	0	0	0	1	-
	583 6616	5	0.0	0118	0.00	926	0	433	0	0	0	0	1	-360)	
36	583 6031	L	0.0	02039	9	0.01	13081	L	0	414	0	0	0	0	1	_
36	0 360; 1746	7507	7	0.00)155	0.01	10961	L	0	0	0	0	0	0	1	_
36	360; 3276	7635	5	3.96	e-05	0.00	036	0	319	0	0	0	0	1	-360)
36	0; 1105										0	0	0	1	-360	
36	0;															
-3	8522 60 360;	;									453		0	0	0	
-3	8522 60 360;		L	0.00	J5461	L	0.02	24919)	0	357	0	0	0	0	1

360	8763	7056	5	0.00	158	0.02	2413	0	854	0	0	0	0	1	-360	С
360	8763	8825	5	0.00)155	0.02	2458	0	756	0	0	0	0	1	-360	0
	8763	6889	9	0.00	0021	0.00	0256	0	1315	5	0	0	0	0	1	-
	360; 8763	6889	9	0.00	0024	0.00	0243	0	1414	1	0	0	0	0	1	-
360	8763	888	7	0.00	144	0.02	2266	0	1414	1	0	0	0	0	1	_
360	360 ; 8763	888	7	0.00	14	0.02	2098	0	1447	7	0	0	0	0	1	_
	360 ; 8763	8487	7	0.00	086	0.0	1074	0	0	0	0	0	0	1	-360	C
360	8748	8475	5	0.00	3341	L	0.02	2611	0	453	0	0	0	0	1	_
360	360; 217 6785	5	0.00	0387	0.02	2063	0	414	0	0	0	0	1	-360)	
360); 217 6785	5	0.00	0405	0.01	L8271	1	0	414	0	0	0	0	1	-360)
360				0101				300		0	0	0	1	-360		
360				0088				319		0	0	0	1	-360		
360								0	414		0	0	0	1	-360	1
360) ;			0.00								0	0	1		
360								0	453		0	-		_	-360	
360		8189					1926		414		0	0	0	1	-360	J
360	7972 360;	1039					0.01		0	0	0	0	0	0	1	-
360	7253);	7840		0.00)132	0.00	0869	0	0	0	0	0	0	1	-360)
360	4395 360;	8913	3	0.00	0082	0.00	04021	L	0	319	0	0	0	0	1	-
360	4395 360;	4852	2	0.00)143	0.00	7479	9	0	338	0	0	0	0	1	-
-36	2795 50 360 ;	1183	3	0.00	00659)	0.00)5771	L	0	0	0	0	0	0	1
-36	2795 50 360 ;		3	0.00	0591	L	0.00	06539	9	0	0	0	0	0	0	1
	1305 360;		L	0.00)589	0.02	25599	9	0	376	0	0	0	0	1	-
360	1305	6982	2	0.00	614	0.02	2343	0	338	0	0	0	0	1	-360	С
	2732 360;	1798	3	0.00)155	0.0	1994	0	1381	L	0	0	0	0	1	-
	2732	3346	5	0.00	205	0.03	3218	0	1480)	0	0	0	0	1	-
	360; 4550	3346	5	0.00	233	0.03	3154	0	1480)	0	0	0	0	1	-
	360; 4725	5738	3	0.00	2341	L	0.01	L982	0	0	0	0	0	0	1	-
360	1083	8310)	8.16	e-05	0.00	00521	L	0	433	0	0	0	0	1	-
360	360;															

360;	1398	5567	7	9.9	e-05	0.00	069	0	491	0	0	0	0	1	-360)
	4281 360;)	0.0	0276	0.01	6419)	0	453	0	0	0	0	1	-
	7050	4908	3	0.0	0036	0.00	1229)	0	357	0	0	0	0	1	-
		3740)	0.0	00229)	0.00	0711	_	0	414	0	0	0	0	1
	360 ; 6563		0.00	013	0.00	099	0	414	0	0	0	0	1	-360)	
	8999	6495	5	0.0	01159)	0.00	689	0	319	0	0	0	0	1	_
		5994	Į.	0.0	08531	-	0.03	8045	0	281	0	0	0	0	1	-
	5400		5	0.0	00781	-	0.00	4531	_	0	414	0	0	0	0	1
	360; 5400		5	0.0	0075	0.00	474	0	433	0	0	0	0	1	-360)
360;	5881	4031	-	0.0	02159)	0.00	8349)	0	0	0	0	0	0	1
	360; 8195		Į	0.0	0162	0.01	651	0	1447	7	0	0	0	0	1	_
360	360; 933 6357								300		0	0	0	1	-360)
360;	933 6357							319		0	0	0	1	-360)	
360;					0.06			0	0	0	0	0	0		-360)
360;								0	0	0	0	0	1	-360		,
60;																`
60;									789		0	0	0	1	-360)
60	360;				00229					0	0	0	0	0	1	-
	6802 360;)	0.0	00219)	0.00	0581	_	0	0	0	0	0	0	1
	4025 360;		ļ	0.0	00281	-	0.00	063	0	0	0	0	0	0	1	-
	1595 360;	1414	ł	0.0	05021	-	0.03	5659)	0	319	0	0	0	0	1
	3114 360;	3656	5	0.0	0174	0.00	7901	-	0	0	0	0	0	0	1	-
	5237 360;	2229)	0.0	03919)	0.02	0581	_	0	395	0	0	0	0	1
	5237 360;	9108	3	0.0	03341	-	0.01	6349)	0	395	0	0	0	0	1
	5237	1478	3	0.0	03271	-	0.01	.6669)	0	357	0	0	0	0	1
	360; 2799	8515	5	0.0	00151	-	0.00	0659)	0	319	0	0	0	0	1
	360; 6405		3	0.0	0736	0.03	35659)	0	0	0	0	0	0	1	_
	360; 6405	3894	Į.	0.0	0944	0.04	12169)	0	0	0	0	0	0	1	_
	360; 4435		Į	0.0	0068	0.00	652	0	756	0	0	0	0	1	-360)
360;																

2.60	4435	3483	0.00188	0.02	2281	0	1282	2	0	0	0	0	1	-
	360; 2079	7052	0.00168	0.00	956	0	433	0	0	0	0	1	-360)
360	2079	7052	0.001669)	0.00	981	0	414	0	0	0	0	1	-
		772 0.00)2229	0.01	.599	0	491	0	0	0	0	1	-360)
360	; 2079	772 0.00	218 0.01	L631	0	510	0	0	0	0	1	-360)	
360		6475	0.00238	0.02	2124	0	953	0	0	0	0	1	-360)
360		6475	0.00194	0.02	2023	0	1151	L	0	0	0	0	1	_
360	360; 7361	3166	0.013831	L	0.05	955	0	0	0	0	0	0	1	_
360	360;	426 0.00						0	0	0	1	-360)	
360			0.0002				300	0	0	0	0		-360)
360			0.00105						0	0	0	1		
360	;	749 0.01												J
360	;							0	0	0	1	-360		
360	3594 360;		0.00305							0	0	0	1	-
360	6555 360;	3608	0.00208	0.02	2105	0	1381	L	0	0	0	0	1	_
360	8475 360;	1965	0.00614	0.04	13729)	0	376	0	0	0	0	1	-
-360	8475 0 360 ;	5926	0.000229)	0.00	1849	9	0	453	0	0	0	0	1
360	5735	6053	0.00386	0.02	25789)	0	338	0	0	0	0	1	-
	5735 360;	2341	0.002033	L	0.01	.2	0	491	0	0	0	0	1	-
	2629	7507	0.000593	L	0.00) 4	0	395	0	0	0	0	1	-
	360; 1137		9.1e-05	0.00	051	0	0	0	0	0	0	1	-360)
360	7577	5814	0.00732	0.03	39969)	0	319	0	0	0	0	1	_
		3231	0.004583	L	0.02	2031	0	529	0	0	0	0	1	-
		5814	0.00132	0.00)537	0	357	0	0	0	0	1	-360)
360	; 1183	1159	0.007521	L	0.03	887	0	376	0	0	0	0	1	_
360	360; 6852	5051	0.005159	9	0.03	31281	L	0	433	0	0	0	0	1
-360	0 360 ; 8307		9.9e-05	0.00	1159)	0	0	0	0	0	0	1	_
360	360;	8807	9.9e-05	0.00	113	0	0	0	0	0	0	1	-360)
360	;	4357						281		0	0	0	1	
360	360;						-		-	-	-	-	_	

7144	7791	0.00107	0.0041	3 0	0	0	0	0	0	1	-360)
360; 6889	2085	9e-05	0.0005	8 0	1151	L	0	0	0	0	1	-
360 360; 6889	4024	9e-05	0.0005	9 0	1052	2	0	0	0	0	1	_
360 360; 6889	9065	8e-05	0.0005	3 0	657	0	0	0	0	1	-360)
360 ; 6889	661 8e-0	0.00	0052 0	657	0	0	0	0	1	-360)	
360 ; 6612	8864	0.000271	1 0.	00151	0	395	0	0	0	0	1	_
360 360; 8931	6199	0.00053			1809		0	0	0	0	1	_
360 360; 8931	6199	0.00047			1348		0	0	0	0	1	_
360 360;												
8931 360 360;	6199	0.00046			1151		0	0	0	0	1	-
8931 360 360;	6199	0.00045	0.0068	9 0	1151	L	0	0	0	0	1	_
8931 360 360;	8494	0.00028	0.0033	8 0	1480)	0	0	0	0	1	-
8931 360 360;	8494	0.0003	0.0031	9 0	1249	9	0	0	0	0	1	-
	4511	0.00025	0.0010	1 0	376	0	0	0	0	1	-360)
	0.00	00281	0.0011	9 0	0	0	0	0	0	1	-360)
2902	5573	0.00018	0.0006	3 0	0	0	0	0	0	1	-360)
360 ; 4950	4410	0.00382	0.0286	8 0	0	0	0	0	0	1	-360)
360 ; 4950	333 0.00	0361 0.02	235 0	472	0	0	0	0	1	-360)	
360 ; 4950	6908	0.00538	0.0356	9 0	0	0	0	0	0	1	-360)
360 ; 3377	7726	6e-05	0.0004	09	0	414	0	0	0	0	1	_
360 360; 1027	3243	9e-05	0.0010	2 0	657	0	0	0	0	1	-360)
360;	2458	0.0014				L		0	0	0	1	_
360 360;		0.00014					0	0		0		
1027 360 360;					1019				0			
360;	8560	0.0001			657		0	0	0	1	-360)
5308 360 360;	6427	0.00137	0.0168	2 0	167	7	0	0	0	0	1	_
5308 360 360;	8347	0.00131	0.0126	2 0	1414	1	0	0	0	0	1	-
7148 360 360;	5610	0.00262	0.0196	69	0	433	0	0	0	0	1	-
	2421	0.00082	0.0052	6 0	376	0	0	0	0	1	-360)
7148	2421	0.000843	1 0.	00515	1	0	357	0	0	0	0	1
-360 360;	;											

		0.00066	9	0.00	05081	L	0	376	0	0	0	0	1
-360 360; 7148	6989	0.00191	9	0.01	12669	9	0	376	0	0	0	0	1
-360 360 44 1545		02659	0.02	2	0	0	0	0	0	0	1	-360)
360; 44 3543	1 0.0	03031	0.02	2343	0	472	0	0	0	0	1	-360)
360 ; 6231		0.01176	0.0	59159	9	0	300	0	0	0	0	1	_
	8367	0.00246	9	0.01	17531	L	0	395	0	0	0	0	1
-360 360; 6231	2288	0.00066	9	0.00	05729)	0	0	0	0	0	0	1
-360 360; 8291		0.00078	1	0.00	0876	0	281	0	0	0	0	1	_
360 360; 8291		0.00062	0.00	0482	0	453	0	0	0	0	1	-360)
360; 8291	7635	0.00134	9	0.01	12599	9	0	433	0	0	0	0	1
-360 360;	;	0.00097				0	0	0	0	0	0	1	_
360 360;		08091					0	0	0	0	0	1	_
360 360;		0.00071					0	414		0	0	0	1
-360 360, 3969	;	0.00145				0	0	0	0	0	1	-360	
360;													
1090 360;		0.00869				300		0	0	0	1	-360)
1090 360 360;		0.00171					357		0	0	0	1	-
8515 360 360;		0.01582					338		0	0	0	1	-
8515 360 ;		0.01457						0	0	0	1	-360)
8515 -360 360;		0.02171	1	0.09	90539	9	0	281	0	0	0	0	1
8515 360 360;	3364	0.00019	0.00	00729	9	0	300	0	0	0	0	1	-
935 5383 360;	3 0.0	01271	0.00	0638	0	300	0	0	0	0	1	-360)
	0 3.9	e-05 0.0	002	0	300	0	0	0	0	1	-360)	
6664 360 360;	4426	0.00028	1	0.00	0236	0	529	0	0	0	0	1	-
4339 360 360;	2183	0.00019	0.00	329	0	1644	1	0	0	0	0	1	-
7513	4000	0.00035	0.00	0324	0	0	0	0	0	0	1	-360)
360; 6570	8542	0.00049	0.00	349	0	319	0	0	0	0	1	-360)
	8542	0.00046	9	0.00	0331	0	319	0	0	0	0	1	-
360 360; 6570		0.00313	0.0	1324	0	0	0	0	0	0	1	-360)
360;													

260			0.00103	1	0.00	06719	9	0	376	0	0	0	0	1
			0.00038	0.00	0401	0	0	0	0	0	0	1	-360	0
360;	502 3589	0.0	0037 0.0	02849	9	0	395	0	0	0	0	1	-360	0
360;	8473	1040	0.00032	0.00	256	0	376	0	0	0	0	1	-360	0
360;	8473	145 0.0	0037 0.0	0118	0	281	0	0	0	0	1	-360)	
	8473	4267	0.00068	0.00)1151	1	0	0	0	0	0	0	1	-
360	360; 4936	5179	0.00168	0.00	9841	1	0	395	0	0	0	0	1	_
360	360; 5317	8854	0.00059	9	0.00	02401	L	0	300	0	0	0	0	1
-360	360; 9018		02169	0.00	911	0	300	0	0	0	0	1	-360	0
360;		4829	0.00284	9	0.01	1282	0	357	0	0	0	0	1	_
360	360; 6253							453		0	0	0	1	_
360	360; 6253	7507	0.00128							0	0	0	1	_
360	360; 8887		0.00120						0	0	0	1	-360	0
360;	:											_		
360;			0.00083						0	0	0	1	-360	U
360			0.00118					0	0	0	0	0	1	-
-360	6639) 360;	7840	0.00115						0	0	0	0	0	1
360	5461 360;	8109	0.00101	0.01	L327	0	1480)	0	0	0	0	1	-
360;	6291	4189	0.00364	0.02	2486	0	472	0	0	0	0	1	-360	0
360;	8405	4747	0.00056	0.00)425	0	433	0	0	0	0	1	-360	0
360;	8405	4580	0.00369	0.02	2681	0	433	0	0	0	0	1	-360	0
360;	338 7824	1 0.0	00531	0.00	276	0	300	0	0	0	0	1	-360	0
	2468	7824	0.00052	1	0.00	0281	0	281	0	0	0	0	1	-
	360; 5257	7824	0.00041	9	0.00	0232	0	0	0	0	0	0	1	-
	360; 2189	7824	0.00040	9	0.00	0237	0	0	0	0	0	0	1	-
	360; 8458	8267	0.00014	0.00	0193	0	1414	1	0	0	0	0	1	_
360	360; 2676	5987	0.00321	1	0.01	1481	0	319	0	0	0	0	1	-
360	360; 1187	5712	0.00381	0.01	L175	0	0	0	0	0	0	1	-360	0
360;		6521	0.00378	1	0.02	2676	0	319	0	0	0	0	1	_
360	360;													

2360		0.000919)	0.00	5461	_	0	453	0	0	0	0	1
-360 360; 2360 -360 360;	8829	0.000271	L	0.00)1211	_	0	281	0	0	0	0	1
	4235	0.002229	9	0.01	7401	_	0	472	0	0	0	0	1
	4235	0.00243	0.01	7659)	0	510	0	0	0	0	1	-
	4235	0.002531	L	0.01	705	0	491	0	0	0	0	1	-
	5099	0.012531	L	0.05	5451	0	0	0	0	0	0	1	-
	4734	0.00087	0.01	212	0	1249	9	0	0	0	0	1	-
5781	905 0.00	0.00	802	0	1611	_	0	0	0	0	1	-360)
360; 5781		0.00072	0.00	667	0	1743	3	0	0	0	0	1	-
360 360; 5781 360 360;	2093	0.00234	0.02	2626	0	1315	5	0	0	0	0	1	-
6772 360 360;	6989	0.00038	0.00	2969)	0	414	0	0	0	0	1	-
7885		0.00024	0.00	045	0	0	0	0	0	0	1	-360)
360; 6730		0.000229	9	0.00	0409)	0	0	0	0	0	0	1
-360 360; 4301	3912	0.000281	L	0.00	0401	_	0	0	0	0	0	0	1
	5610	0.001211	L	0.00)5271	_	0	0	0	0	0	0	1
	350 0.00	00281	0.00	107	0	338	0	0	0	0	1	-360)
360; 5362		0.00025	0.00	1091	_	0	0	0	0	0	0	1	-
	1973	0.00019	0.00	0081	0	529	0	0	0	0	1	-360)
360; 3855	1973	0.00045	0.00	136	0	491	0	0	0	0	1	-360)
360; 3481 360 360;	554 0.00	3461	0.02	23289)	0	0	0	0	0	0	1	-
5460	8222	0.0013	0.01	609	0	1743	3	0	0	0	0	1	-
	8222	0.00128	0.01	64	0	1611	L	0	0	0	0	1	-
360 360; 5460	2721	0.00089	0.01	082	0	1480)	0	0	0	0	1	-
	2721	0.00087	0.01	102	0	1545	5	0	0	0	0	1	-
	8578	0.003349	9	0.02	2514	0	433	0	0	0	0	1	-
	0.00	0.00	0061	0	0	0	0	0	0	1	-360)	
	0.00	0289	0.00)1211	_	0	414	0	0	0	0	1	-
	8743	0.01301	0.04	14091	_	0	338	0	0	0	0	1	-
360 360;													

360	7256 360;		0.02162	0.06	5969)	0	300	0	0	0	0	1	-
360	8930		06461	0.05	275	0	414	0	0	0	0	1	-360	
	6954		0.0002	0.00	0271	L	0	0	0	0	0	0	1	-
	360; 3325	7974	0.00018	0.00	026	0	0	0	0	0	0	1	-360	
360	5627	1742	0.00032	0.00	188	0	0	0	0	0	0	1	-360	
360	5610		0.00105	0.00	6591	L	0	376	0	0	0	0	1	_
			0013 0.0	0055	0	0	0	0	0	0	1	-360)	
360	3749	5365	0.00615	1	0.04	1013	0	529	0	0	0	0	1	_
360	360 ; 3749	6982	0.00715	9	0.04	10591	L	0	433	0	0	0	0	1
-36	360 2291	; 3133	0.00874	0.04	8461	L	0	300	0	0	0	0	1	_
360	360; 2291		0.00415					0	0	0	0	0	1	_
360	360;		0.00291					433		0	0	0	1	_
360	360;		0.00231					0	0	0	1	-360		
360	;													
360							0	0	0	0	0	1	-360	
360	314 246° 360;			0.01			0	472		0	0	0	1	-
360	314 246° 360;		02419				0	0	0	0	0	0	1	-
360		6 0.0	0375 0.0	18281	-	0	319	0	0	0	0	1	-360	
360	3200 360;		0.00025	0.00	1031	L	0	319	0	0	0	0	1	-
360		4852	0.00264	0.01	238	0	319	0	0	0	0	1	-360	
		4852	0.00128	9	0.00	795	0	357	0	0	0	0	1	-
	4679 360;	1151	0.00087	0.00	3081	L	0	376	0	0	0	0	1	-
	8568 360;	5215	0.00040	1	0.00	224	0	319	0	0	0	0	1	-
300	58 221		0.00385			0	0	0	0	1)	360;	
360	•		0126 0.0				433		0	0		1	-360	
360			1905 0.0			0	0	0	0	0	0	1		
360	;		0201 0.0			0	0	0	0	0	1	-360		
360		2934	0.00101	0.00	324	0	0	0	0	0	0	1	-360	
360	1465 360;	4787	0.00105	0.00	677	0	1118	3	0	0	0	0	1	-
360	1465 360;	3830	0.00039	0.00	502	0	1052	2	0	0	0	0	1	-

1465 360;	5648	0.0004	0.00	492	0	854	0	0	0	0	1	-360)
1465 360 360;	4000	0.00051	0.00	617	0	1249)	0	0	0	0	1	-
7537 360 360;	3485	0.0003	0.00	314	0	1480)	0	0	0	0	1	-
7537 360 360;	3830	0.00051	0.00	668	0	1545	5	0	0	0	0	1	-
7537	5648	0.0005	0.00	678	0	1677	7	0	0	0	0	1	-
360 360; 1262 360 360;	2424	0.002909	9	0.01	L7	0	0	0	0	0	0	1	-
	1156	0.00245	0.01	.1281	L	0	376	0	0	0	0	1	-
	4914	0.0027	0.01	532	0	357	0	0	0	0	1	-360)
	4914	0.00105	0.01	.1151	L	0	0	0	0	0	0	1	-
1262		0.00036	0.00	2669	9	0	0	0	0	0	0	1	-
360 360; 1262 360;		018 0.01	11169)	0	357	0	0	0	0	1	-360)
1262	3019	0.000713	1	0.00	7772	L	0	0	0	0	0	0	1
	; 7923	0.00036	0.00	257	0	0	0	0	0	0	1	-360)
360 <i>;</i> 1551	4103	0.00201	0.01	195	0	510	0	0	0	0	1	-360)
360; 1551	7862	0.001093	1	0.00	731	0	472	0	0	0	0	1	-
360 360; 1551	5458	0.00105	0.00	7591	L	0	529	0	0	0	0	1	-
360 360; 1551	1838	0.00299	0.02	256	0	376	0	0	0	0	1	-360)
360; 3070	2888	0.00036	0.00	288	0	0	0	0	0	0	1	-360)
360 ; 4874	4504	0.00589	0.04	5599)	0	453	0	0	0	0	1	_
360 360; 4874	3579	0.00157	0.01	.27	0	376	0	0	0	0	1	-360)
	3579	0.00168	0.01	.1969)	0	0	0	0	0	0	1	_
360 360; 4874	7903	0.00289	0.02	21031	L	0	338	0	0	0	0	1	_
360 360 ; 6368		0.00395	0.02	25211	L	0	472	0	0	0	0	1	_
360 360 ; 6368	9217	0.002773	1	0.02	21659	9	0	376	0	0	0	0	1
-360 360, 6368	5653	0.002979	9	0.01	16901	L	0	453	0	0	0	0	1
-360 360, 8478	•	0.007419	9	0.03	34021	L	0	0	0	0	0	0	1
-360 360, 5241	•	0.00056	0.00	813	0	789	0	0	0	0	1	-360)
360;													

8950		0.000409	9 (0.00	3331	-	0	529	0	0	0	0	1
-360 360; 6846	8788	0.004093	1 (0.01	9599)	0	376	0	0	0	0	1
-360 360; 6846	6734	0.00294	0.012	2841		0	395	0	0	0	0	1	_
	5616	0.02077	1 (0.08	0479)	0	453	0	0	0	0	1
-360 360; 4426		0.00662	0.051	13	0	453	0	0	0	0	1	-360)
360 ; 4426	1767	0.00607	0.045	581	0	433	0	0	0	0	1	-360)
360 ; 3037		0.000669	9 (0.00	42	0	376	0	0	0	0	1	_
360 360; 3037		0.00127	1 (0.00	7419)	0	376	0	0	0	0	1
-360 360; 3037	; 5653	0.001599	9 (0.01	2271	-	0	472	0	0	0	0	1
-360 360; 5395		0.009599	9 (0.05	024	0	319	0	0	0	0	1	_
360 360; 5395						338			0	0	1	-360)
360;		0.01488						0	0	0	1	-360)
360; 5395								319		0	0	0	
-360 360; 5395	;							0		0	1	-360	
360;								300				0	
8636 -360 360;	;	0.003461								0	0		
3436 360;		0.00105					0	0	0	0	1	-360)
3436 360 360;		0.00199	0.012	2331		0	395	0	0	0	0	1	-
3436 360 360;		0.00711	0.044	4711		0	338	0	0	0	0	1	-
6203 360 360;		0.006729	9 (0.02	543	0	0	0	0	0	0	1	-
9059 360 360;		0.00577	1 (0.02	999	0	0	0	0	0	0	1	-
	96 0.0	048 0.02	21771		0	0	0	0	0	0	1	-360)
5049	306 0.0	0286 0.02	2212 (O	433	0	0	0	0	1	-360)	
	7 0.0	0351 0.02	2175 (O	414	0	0	0	0	1	-360)	
360; 718 6982	2 0.0	08401	0.044	48	0	472	0	0	0	0	1	-360)
360 ; 7202	8807	0.0018	0.011	187	0	0	0	0	0	0	1	-360)
360 ; 7202		0.00183	1 (0.01	163	0	0	0	0	0	0	1	_
360 360; 8592		0.00075	0.005	538	0	0	0	0	0	0	1	-360)
360; 6581						0	0	0	0	1	-360		
360;	323 20			-	-	~	J	Ū	Ū	-	500	-	

	6581		1e-05	0.00	034	0	1710)	0	0	0	0	1	_
			0.00	258	0	723	0	0	0	0	1	-360)	
	6199	1817	0.00023	0.00	252	0	657	0	0	0	0	1	-360)
360;		1504	0.002031	L	0.00	8531	_	0	0	0	0	0	0	1
	360 <i>;</i> 3231		0.005349	9	0.02	20789)	0	319	0	0	0	0	1
	360 ; 2928		0.0002	0.00	082	0	395	0	0	0	0	1	-360)
360;		6891	0.002091	L	0.01	.1219)	0	0	0	0	0	0	1
360	360;)262 0.01						0	0	0	1	-360)
60;			02669				491		0	0	0	1	-360	
60;														
60;			0.00025				414		0	0	0	1	-360	
60	360;		0.00056				1545		0	0	0	0	1	
60;			0.0007					0	0	0	0	1	-360	i
	3912 360 <i>;</i>		0.000331	L	0.00)1711	-	0	281	0	0	0	0	1
		2695	0.00011	0.00	0781	-	0	453	0	0	0	0	1	-
	3912		0.00111	0.00	664	0	338	0	0	0	0	1	-360	ı
	7520	8222	0.00066	0.00	838	0	1447	7	0	0	0	0	1	-
	360; 7520	8222	0.00064	0.00	854	0	1447	7	0	0	0	0	1	-
			0.003091	L	0.01	7091	_	0	472	0	0	0	0	1
	360 ; 2421		0.00643	0.03	8687	0	529	0	0	0	0	1	-360)
60;		3610	0.00275	0.01	.937	0	0	0	0	0	0	1	-360)
60;			0.00357					414	0	0	0	0	1	_
60	360;		0.000289					0		0	0	0	0	1
	360 <i>;</i> 7873		0.0002531					281		0	0	0	1	_
	360;													_
60	360;		0.00162					414		0	0	0	1	_
60;			0.00262				319	0	0	0	0	1	-360	i
	8835 360;	1156	0.00099	0.00	6081	-	0	0	0	0	0	0	1	-
	8835 360 ;		0.000909)	0.00)5979)	0	0	0	0	0	0	1
	3390		0.00	800	0	0	0	0	0	0	1	-360)	
J 0 0 ,														

3390	7231	0.00011	0.00	068	0	0	0	0	0	0	1	-360)
360; 3390		0.00207	0.00	8341	1	0	395	0	0	0	0	1	-
360 360; 1910	2550	0.00019	0.00	1031	1	0	0	0	0	0	0	1	_
360 360; 3975	7353	0.01403	9	0.06	667	0	0	0	0	0	0	1	_
360 360; 3126	7495	0.00496	1	0.03	3043	0	338	0	0	0	0	1	-
360 360; 2689	5753	0.00056	0.00	3531	1	0	0	0	0	0	0	1	-
	4235	0.00146	1	0.00	0889	0	414	0	0	0	0	1	_
360 360 ; 7626	7076	6e-05	0.00	00419	9	0	395	0	0	0	0	1	_
360 360; 4823	4060	0.00139	0.00)5169	9	0	0	0	0	0	0	1	_
360 360; 4141	1311	0.00069	0.00	825	0	657	0	0	0	0	1	-360)
360; 7124		0.004969	9	0.03	30781	L	0	0	0	0	0	0	1
	8873	0.00012	0.00	0969	9	0	491	0	0	0	0	1	_
360 360; 6684		0.001093	1	0.01	10159	9	0	472	0	0	0	0	1
-360 360 8151	5383	0.000969	9	0.00	0887	0	453	0	0	0	0	1	_
360 360; 4357	6619	0.00099	0.00	6789	9	0	414	0	0	0	0	1	_
360 360; 8191	8765	0.001033	1	0.00	0586	0	281	0	0	0	0	1	_
360 360; 7466	5469	0.00401	0.03	3345	0	529	0	0	0	0	1	-360)
360;	5351						0	0	0	0	0	1	
360 360;							0	0	0		-360)	
360;	31 0.0									0		1	_
360 360; 8222		0.00169				1578		0	0	0	0	1	_
360 360; 8222		0.00171				167		0	0	0	0	1	_
360 360; 6556		0.000171				433		0	0	0	1	-360	_
360; 6556		0.0008				472		0	0	0		-360	
360;	4239										1		
2940 360;	7178	0.00161				0	0	0	0	0	1	-360	
3928 360 360;		0.00032				0	433		0	0	0	1	
3928 360 360;						0	395		0	0	0	1	
1923 360;	3830	0.00042	0.00)505	U	986	U	U	0	0	1	-360)

	0.0	0043 0.0	0494	0	1151	-	0	0	0	0	1	-
4914	0.0	0038 0.0	00711		0	0	0	0	0	0	1	-
4914	0.0	0037 0.0	00659		0	0	0	0	0	0	1	-
1644	0.0	0248 0.0	3096	0	1743	3	0	0	0	0	1	-
	0.00375	0.01972	29	0	395	0	0	0	0	1	-360	
2430	0.00518	0.02002	21	0	338	0	0	0	0	1	-360	
9108	0.0	00771	0.00	3711		0	395	0	0	0	0	1
	0.0	0076 0.0	03789		0	357	0	0	0	0	1	_
50;								0	0	0	1	_
50;												
360;												1
50;								0	0	0		_
	0.0	0051 0.0	03349		0	0	0	0	0	0	1	-
	0.0	00461	0.00	168	0	0	0	0	0	0	1	-
9130	0.0	00469	0.00	164	0	0	0	0	0	0	1	-
6816	0.0	06081	0.03	114	0	357	0	0	0	0	1	-
	0.00583	1 0.0	2218	0	395	0	0	0	0	1	-360	
	0.0	0013 0.0	00461		0	0	0	0	0	0	1	_
2020	0.0	0013 0.0	00461		0	0	0	0	0	0	1	_
	0.00262	0.02028	39	0	414	0	0	0	0	1	-360	
2878	0.00164	0.01194	ł 0	453	0	0	0	0	1	-360)	
9164	0.0	06479	0.02	845	0	414	0	0	0	0	1	_
	0.0	0294 0.0	14419		0	395	0	0	0	0	1	_
50;								0	0	1	-360	
												_
50;												
	0.0	08651				300		0	0	0	1	_
50;		0161								/ N	1	_
7903 50;		0.00889				0	0	0	0	0	-360	
	50; 4914 50; 4914 50; 4914 50; 1644 50; 3498 2430 9108 360; 1478 50; 7582 8542 360; 5215 50; 9130 60; 9130 60; 9130 60; 9130 60; 6816 60; 776 3435 50; 2020 60; 4031 2878 9164 60; 2012 1750	60; 4914 0.0 60; 4914 0.0 60; 1644 0.0 60; 3498 0.00375 2430 0.00518 9108 0.0 360; 1478 0.0 60; 3541 0.0 80; 7582 0.0 8542 0.0 0.0 60; 9130 0.0 60; 9130 0.0 60; 9130 0.0 60; 9130 0.0 60; 9130 0.0 60; 2020 0.0 60; 2020 0.0 60; 2020 0.0 60; 2020 0.0 60; 2012 0.0 60; 2012 0.0 60; 2012 0.0 7750 0.0 0.0	60; 4914 0.00038 0.0 60; 4914 0.00037 0.0 60; 1644 0.00248 0.0 60; 3498 0.00375 0.01972 2430 0.00518 0.02002 9108 0.000771 360; 1478 0.00076 0.0 60; 3541 0.000781 60; 7582 0.00089 0.0 8542 0.00031 60; 5215 0.00051 0.0 60; 9130 0.000461 60; 9130 0.000469 60; 6816 0.006081 60; 776 0.005831 0.0 60; 4031 0.00262 0.02028 2878 0.00164 0.01194 9164 0.006479 60; 2012 0.00238 0.0 60; 2012 0.00238 0.0 60; 2012 0.002219	60; 4914 0.00038 0.000711 60; 4914 0.00037 0.000659 60; 1644 0.00248 0.03096 60; 3498 0.00375 0.019729 2430 0.00518 0.020021 9108 0.000771 0.00 360; 1478 0.00076 0.003789 60; 3541 0.000781 0.00 60; 7582 0.00089 0.00562 8542 0.000331 0.00 60; 65215 0.00051 0.003349 60; 9130 0.000461 0.00 60; 9130 0.000461 0.00 60; 60; 6816 0.006081 0.03 60; 776 0.005831 0.02218 3435 0.00013 0.000461 60; 60; 60; 600 0.00013 0.000461 60; 600; 600 0.00013 0.000461 600; 600; 600 0.00013 0.000461 600; 600; 600 0.00013 0.000461 600; 600; 600 0.00013 0.000461 600; 600; 600 0.00013 0.000461	60; 4914 0.00038 0.000711 60; 4914 0.00037 0.000659 60; 1644 0.00248 0.03096 0 60; 3498 0.00375 0.019729 0 2430 0.00518 0.020021 0 9108 0.000771 0.003711 60; 3541 0.000781 0.00574 60; 7582 0.00089 0.00562 0 8542 0.000331 0.001401 860; 8542 0.00031 0.00137 60; 5215 0.00051 0.003349 60; 9130 0.000461 0.00168 60; 9130 0.000469 0.00164 60; 60; 6816 0.006081 0.03114 60; 776 0.005831 0.02218 0 3435 0.00013 0.000461 60; 60; 60; 60; 60; 60; 60; 60; 776 0.005831 0.02218 0 60; 60; 60; 60; 60; 60; 60; 60; 60; 60	60; 4914 0.00038 0.000711 0 60; 4914 0.00037 0.000659 0 60; 1644 0.00248 0.03096 0 1743 60; 3498 0.00375 0.019729 0 395 2430 0.00518 0.020021 0 338 9108 0.000771 0.003711 360; 1478 0.00076 0.003789 0 60; 3541 0.000781 0.00574 0 60; 7582 0.00089 0.00562 0 0 8542 0.000331 0.001401 360; 60; 5215 0.00051 0.003349 0 60; 9130 0.000461 0.00137 0 60; 9130 0.000461 0.00168 0 60; 9130 0.000469 0.00164 0 60; 6816 0.006081 0.03114 0 60; 776 0.005831 0.02218 0 395 3435 0.00013 0.000461 0 60; 60; 60; 60; 60; 60; 60; 60; 60; 6	50; 4914 0.00038 0.000711 0 0 60; 4914 0.00037 0.000659 0 0 1743 60; 1644 0.00248 0.03096 0 1743 60; 3498 0.00375 0.019729 0 395 0 2430 0.00518 0.020021 0 338 0 9108 0.000771 0.003711 0 360; 1478 0.00076 0.003789 0 357 60; 3541 0.000781 0.00574 0 0 60; 7582 0.00089 0.00562 0 0 0 60; 5215 0.00051 0.003349 0 0 60; 9130 0.000461 0.00137 0 0 60; 9130 0.000461 0.00168 0 0 60; 9130 0.000461 0.00168 0 0 60; 9130 0.000461 0.00168 0 0 60; 9130 0.000461 0.00164 0 0 60; 6816 0.006081 0.03114 0 357 60; 776 0.005831 0.02218 0 395 0 60; 9000000000000000000000000000000	50; 4914 0.00038 0.000711 0 0 0 0 60; 4914 0.00037 0.000659 0 0 0 0 60; 1644 0.00248 0.03096 0 1743 0 60; 3498 0.00518 0.020021 0 338 0 0 9108 0.000771 0.003711 0 395 60; 3541 0.00076 0.003789 0 357 0 60; 3541 0.000781 0.00574 0 0 0 60; 7582 0.00089 0.00562 0 0 0 0 60; 5215 0.00031 0.00137 0 0 0 60; 5215 0.00051 0.003349 0 0 0 60; 5215 0.00051 0.003349 0 0 0 60; 60; 6816 0.006081 0.00168 0 0 0 60; 776 0.005831 0.00168 0 0 0 60; 60; 6816 0.006081 0.03114 0 357 0 60; 60; 6816 0.006081 0.03114 0 357 0 60; 776 0.005831 0.02218 0 395 0 0 60; 776 0.005831 0.002461 0 0 0 60; 60; 60; 60; 60; 60; 60; 60;	50; 4914 0.00038 0.000711 0 0 0 0 0 60; 4914 0.00037 0.000659 0 0 0 0 0 60; 3498 0.00375 0.019729 0 395 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50; 4914 0.00038 0.000711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50; 4914 0.00038 0.000711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50; 4914 0.00038 0.000711 0 0 0 0 0 0 0 1 50; 4914 0.00037 0.000659 0 0 0 0 0 0 0 1 50; 1644 0.00248 0.03096 0 1743 0 0 0 0 1 50; 3498 0.00375 0.019729 0 395 0 0 0 0 1 -360 2430 0.00518 0.020021 0 338 0 0 0 0 1 -360 9108 0.000771 0.003711 0 395 0 0 0 0 1 50; 3541 0.00076 0.003789 0 357 0 0 0 0 1 50; 7582 0.00089 0.00562 0 0 0 0 0 0 1 50; 7582 0.00089 0.00562 0 0 0 0 0 0 1 50; 5215 0.00051 0.003349 0 0 0 0 0 0 1 50; 5215 0.00051 0.003349 0 0 0 0 0 0 1 50; 5215 0.00051 0.003349 0 0 0 0 0 0 0 1 50; 50; 9130 0.000461 0.00168 0 0 0 0 0 0 1 50; 6816 0.006081 0.03114 0 357 0 0 0 0 1 50; 776 0.005831 0.02218 0 395 0 0 0 0 1 50; 776 0.005831 0.02218 0 395 0 0 0 0 1 50; 2020 0.00013 0.000461 0 0 0 0 0 0 1 50; 2012 0.00238 0.01463 0 395 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 0 1 -360 2878 0.00164 0.01194 0 453 0 0 0 0 0 1 -360 2878 0.00224 0.014419 0 395 0 0 0 0 1 -360 2878 0.00238 0.01463 0 395 0 0 0 0 0 1 -360 2012 0.00238 0.01463 0 395 0 0 0 0 0 1 -360

5837 360;	449 0.0	0093 0.00	0869	0	1348	3	0	0	0	0	1	-360	0
5837 360 360;		0.0022	0.03	3485	0	1578	3	0	0	0	0	1	-
5837	2458	0.00074	0.00	941	0	1743	3	0	0	0	0	1	_
	6427	0.00087	0.00	884	0	1578	3	0	0	0	0	1	_
360 360; 5837		0.00139	0.01	662	0	0	0	0	0	0	1	-360	0
360; 9217	594 0.0	02781	0.02	22979	9	0	300	0	0	0	0	1	_
360 360; 6351		0.000521	1	0.00	0407	0	529		0	0	0	1	_
360 360;		0.008479					0	0	0	0	0	0	1
-360 360	;												
360 360;							0	0	0	0	0	1	_
4031 -360 360		0.001033	1	0.00	04099	9	0	0	0	0	0	0	1
4031 360 360;		0.00301	0.01	8719	9	0	376	0	0	0	0	1	-
	2866	0.00257	0.01	713	0	338	0	0	0	0	1	-360	0
5365		0.010463	1	0.03	3836	0	0	0	0	0	0	1	-
	4100	0.001719	9	0.01	11531	L	0	414	0	0	0	0	1
-360 360 5365		9.1e-05	0.00	056	0	300	0	0	0	0	1	-360	0
360; 3894	3865	0.00476	0.02	25289	9	0	0	0	0	0	0	1	_
360 360;		00219				319	Λ	0	0	0	1	-360	n
360;								0					
360;		02159					0		0	0		-360	U
198 155 360;							0	0	Ü		-360		
2985 -360 360		0.007789	9	0.03	33039	9	0	300	0	0	0	0	1
7316 360;	3071	0.00026	0.00	13	0	0	0	0	0	0	1	-360	0
6486 360 360;		0.00162	0.01	3229	9	0	338	0	0	0	0	1	-
8485		07919	0.04	1194	0	338	0	0	0	0	1	-360	0
360; 682 847	7 0.0	01229	0.00	0401	0	300	0	0	0	0	1	-360	0
		0.008021	1	0.04	12831	L	0	338	0	0	0	0	1
-360 360 6638		07711	0.03	3006	0	338	0	0	0	0	1	-360	0
360 ; 8788	789 0.0	0261 0.01	15469)	0	319	0	0	0	0	1	-360	n
360; 6332								0	0		1		
360 ;	1000	0.00139	0.00	, , , , 0	J	J	J	J	J	J	_	501	O

6332 360 360;		0.001419	}	0.00)525	0	0	0	0	0	0	1	-
1883	7702	0.006289)	0.03	32271	L	0	0	0	0	0	0	1
	2132	0.011031	L	0.05	5625	0	0	0	0	0	0	1	-
		001841	0.01	1324	0	472	0	0	0	0	1	-360	Э
360 ; 6630	10 0.	000599	0.00	0186	0	453	0	0	0	0	1	-360	Э
360 ; 4484	4239	0.00036	0.00	01591	L	0	433	0	0	0	0	1	_
360 360; 3044		0.003849)	0.02	27651	L	0	453	0	0	0	0	1
-360 360;	;	00186 0.00						0	0	1	-360)	
360;		0.00025							0	0			_
360 360;		0.00207							0	0	0	1	
360 360 ;													_
360 ;		6e-05						0	0	0	1	-360	
8913 -360 360;	;						0	357	0	0	0	0	1
4039 360 360;		0.000219)	0.00)039	0	0	0	0	0	0	1	-
4914 360 360;		0.00011	0.00)0521	L	0	300	0	0	0	0	1	-
		0.00011	0.00	0049	0	300	0	0	0	0	1	-360	C
		000771	0.00	3789)	0	338	0	0	0	0	1	-
4914	3019	0.000229)	0.00)2849	9	0	0	0	0	0	0	1
-360 360; 7994	5256	0.00445	0.02	27599)	0	0	0	0	0	0	1	-
	3346	0.00218	0.02	2	0	1381	L	0	0	0	0	1	_
		0.00074	0.00	0865	0	1118	3	0	0	0	0	1	_
		0.002531	L	0.01	19419	9	0	300	0	0	0	0	1
-360 360; 7702		0.003	0.01	1631	0	0	0	0	0	0	1	-360	Э
360 ; 8677							0	0	0	0	0	0	
-360 360;	;	0.00382					395		0	0	0	1	_
360 360;													_
360 360;		0.002581					414		0	0	0	1	_
360 360 ;		0.00201					433		0	0	0	1	-
8542 360 360;		0.00087	0.00)1599	}	0	0	0	0	0	0	1	-
		00455 0.02					0	0	0	_	-360		

		0.005651	L	0.04	11771	L	0	357	0	0	0	0	1
-360 360; 9014 360 360;	3999	0.00069	0.00	1271	L	0	0	0	0	0	0	1	-
1917 360;		0.00068	0.00	269	0	300	0	0	0	0	1	-360)
1917 360;	2021	0.00036	0.00	261	0	376	0	0	0	0	1	-360	O
1917 -360 360;		0.001669)	0.01	L2031	L	0	319	0	0	0	0	1
	3656	0.009669)	0.03	3513	0	0	0	0	0	0	1	-
	8477	0.001099	9	0.00	862	0	0	0	0	0	0	1	-
7998 360;		0.0005	0.00	711	0	657	0	0	0	0	1	-360)
6734 -360 360;		0.003919	9	0.01	L7781	L	0	395	0	0	0	0	1
6734 360 360;	8992	0.00161	0.01	9781	L	0	0	0	0	0	0	1	-
6734 360 <i>:</i>	789 0.00						0	0	0	1	-360)	
5004 360 360;		0.000409	9	0.00)18	0	0	0	0	0	0	1	-
1708 360;		2e-05	0.00	043	0	0	0	0	0	0	1	-360)
9150 360 360;		3e-05	0.00	004	0	1710)	0	0	0	0	1	-
		968 0.05	6659)	0	357	0	0	0	0	1	-360)
8043 360 360;		0.003969)	0.02	2925	0	0	0	0	0	0	1	-
5712 360 ;	8992	0.00219	0.01	468	0	414	0	0	0	0	1	-360)
		0.000401	L	0.00	3159	9	0	376	0	0	0	0	1
	6880	0.000531	L	0.00)3	0	376	0	0	0	0	1	-
5215 360;		0.00136	0.00)576	0	376	0	0	0	0	1	-360)
8807 -360 360;		0.000849	9	0.00	6289	9	0	357	0	0	0	0	1
8807 -360 360;		0.000841	L	0.00	06409	9	0	357	0	0	0	0	1
8807 360;	8992	0.00045	0.00)506	0	0	0	0	0	0	1	-360)
218 2088 360;	0.00)3669	0.02	2988	0	395	0	0	0	0	1	-360)
520 5918 360;	0.00	0.01	L568	0	414	0	0	0	0	1	-360)	
2653 360;	2128	0.00031	0.00	800	0	319	0	0	0	0	1	-360)
1216 360;	5233	0.00043	0.00	038	0	0	0	0	0	0	1	-360)
8980 360 360;		0.00043	0.00)2229)	0	0	0	0	0	0	1	-

	5993	0.00049	9 0.0	0218	0	0	0	0	0	0	1	-36	0
	4060	0.00282	2 0.03	1844	0	529	0	0	0	0	1	-36	0
360; 883 3331	1 0.00	0462 0.0	01484	9	0	0	0	0	0	0	1	-36	0
360 ; 5144	3346	0.00263	3 0.0	4076	0	1447	7	0	0	0	0	1	_
360 360; 3498	2563	0.01062				0	357	0	0	0	0	1	_
360 360;	8200	0.0001				657		0	0	0	1	-36	Λ
360; 9130		0.00239					376		0	0	0	1	O
360 360;												_	_
3503 -360 360;	;	0.00134					0	433		0	0	0	1
360 360;	6146					0	472	0	0	0	0	1	-
401 1584 360;	4 0.00	0011 0.0	00028	9	0	395	0	0	0	0	1	-36	0
7328 360 ;	6921	0.00146	5 0.03	1769	0	0	0	0	0	0	1	-36	0
7328 360 360;		0.0013	0.02	2004	0	1644	1	0	0	0	0	1	-
	5573	0.00790	9	0.02	28349	9	0	319	0	0	0	0	1
7396 360;		0.00012	2 0.00	0049	0	0	0	0	0	0	1	-36	0
7396	8564	0.00012	2 0.00	00479	9	0	0	0	0	0	0	1	-
	432 0.00	0076 0.0	01018	0	1513	3	0	0	0	0	1	-36	0
	432 0.00	009 0.0	0865	0	167	7	0	0	0	0	1	-36	0
	432 0.00	0096 0.0)1294	0	1545	5	0	0	0	0	1	-36	0
360 ; 6921	432 0.00	004 0.0	0756	0	1611	1	0	0	0	0	1	-36	0
360 ; 6921	432 0.00	0039 0.0	0771	0	144	7	0	0	0	0	1	-36	0
360; 6921	8200	0.00163	3 0.02	2291	0	1545	5	0	0	0	0	1	_
360 360; 2949	3121	0.00636				395		0	0	0	1	-36	0
360; 2949	3121	0.00639						0	0	0	1		
360;	0.00							0	0		-360		O
360;							0			1			
360;	892 0.00						0	0	0	1	-360		
4674 360 360;	4889	0.0012				0	338	0	0	0	0	1	-
4674 360 360;	7076	0.00018	3 0.00	01091	l	0	414	0	0	0	0	1	-
1234 360 360;	8035	0.00140)1	0.00	0612	0	357	0	0	0	0	1	-
	0.00068	0.00387	7 0	491	0	0	0	0	1	-360)	360	;

		8578	3	0.0	043	0.03	3591	L	0	414	0	0	0	0	1	-
	360; 3579 360;)	0.0	03039)	0.01	1911	0	491	0	0	0	0	1	-
	3246		6e-0)5	0.00)111	0	853	0	0	0	0	1	-360)	
	8846		3	5e-0	05	0.00	1091	L	0	853	0	0	0	0	1	-
	360; 2393		5	3.9	e-05	0.00	089	0	853	0	0	0	0	1	-360)
	1895	4480)	3.9	e-05	0.00	0901	L	0	853	0	0	0	0	1	-
	678 4454	l	0.00	016	9	0.00	111	0	510	0	0	0	0	1	-360)
	1002	4852	2	0.0	00331	_	0.00	27	0	0	0	0	0	0	1	-
		2012	2	0.0	0026	0.00	369	0	0	0	0	0	0	1	-360)
	4889		5	0.0	00341	_	0.00	274	0	0	0	0	0	0	1	-
	360; 5341		-	0.0	0038	0.00	506	0	414	0	0	0	0	1	-360)
	2563	6521	-	0.0	0012	0.00	0831	L	0	376	0	0	0	0	1	-
	360; 1111	594	0.00	303	1	0.01	.23	0	0	0	0	0	0	1	-360)
360;		7791	-	0.0	01521	_	0.00	774	0	395	0	0	0	0	1	_
	360; 3906	3022	2	0.0	0059	0.00	552	0	1611	L	0	0	0	0	1	_
360	360; 3906	1194	Į.	0.0	0053	0.00	625	0	1545	5	0	0	0	0	1	_
	360; 5993	8804	ŀ	0.0	0143	0.01	.076	0	529	0	0	0	0	1	-360)
360;		8487	7	0.00	0056	0.00	593	0	0	0	0	0	0	1	-360)
360;		7178	3	0.00	0205	0.01	461	0	414	0	0	0	0	1	-360)
360;	2132	2303	3	0.03	1068	0.05	4521	L	0	0	0	0	0	0	1	_
360	360; 8992	8466	5								0	0	0	0	1	_
360	360; 8992									433		0	0	0	1	_
360	360; 8992												0	0	0	1
-360	360; 805 3221	:										0	0	1		
360;												0	1	-360		•
360;										491		0	0	0	1	_
360	360; 805 2088											0	0	0	1	_
360	360; 5383											0	0	1	-360	1
360;		Z U Z 1	-	0.00	JU0Z	0.00	102	U	414	U	U	U	U	Τ.	-300	J

260	5383		0.00071	9	0.0033	0	0	0	0	0	0	1	-
	360; 5383		0.00059	9	0.0036	1 0	300	0	0	0	0	1	-
360	360; 5383	8293	0.00052	1	0.0040	39	0	376	0	0	0	0	1
-36	0 360; 5383		0.00090	1	0.0088	0	433	0	0	0	0	1	_
360	360 ; 7507		0.00078	1	0.0030		0	0	0	0	0	1	_
360	360;		0.00041		0.0039			0	0	0	0	1	
360	•						0			-			_
-36	7507 0 360;	2020	0.00084	1	0.0098	41	0	281	0	0	0	0	1
360	6478 360;	6146	0.00402	1	0.0306	4 0	414	0	0	0	0	1	-
	4852	2695	0.0023	0.00	09031	0	338	0	0	0	0	1	-
	360; 4852		0.00208	1	0.0094	69	0	376	0	0	0	0	1
-36	0 360; 4852	; 5502	0.00164	0.00	08831	0	0	0	0	0	0	1	_
	360; 4852	9977	0.00094	0 00	1/88 N	319	Ο	0	0	0	1	-360	1
360	;												J
	4852 360;		0.00090	1	0.0055	1 0	453	0	0	0	0	1	-
	4852		0.00051	0.00	05961	0	0	0	0	0	0	1	-
	360; 2012	1750	0.00113	0.00	04349	0	433	0	0	0	0	1	_
360		6616	0.00208	1	0.0130	31	0	395	0	0	0	0	1
-36	0 360;	;					0			1	2.6	0	
360		4 0.0	0116 0.0	1438	0 0	0	0	0	0	1	-36	O	
	8656 360;	4729	0.00013	0.00	01031	0	0	0	0	0	0	1	-
	4100	615 0.0	0036 0.0	02659	9 0	414	0	0	0	0	1	-360)
360	; 4060	5393	0.00077	1	0.0045	39	0	529	0	0	0	0	1
-36	0 360; 9203		0.00069	5	0 0490	9.8	Ω	Ω	Ο	Ω	n 9	82143	3
0	1 -360	360	;										
1	9203 -360		0.00035	5	0.0248	93	0	591	0	0	0.9	3617	0
1		0.0	00365	0.02	24372	0	591	0	0	0.9	7922	7	0
	3145	7770	0.00041	1	0.0236	52	0	591	0	0	0.9	3617	0
1	-360 7267		0.00038	6	0.0256	73	0	591	0	0	0.9	3617	0
1	-360 7267	360; 4918	0.00034	4	0.0293	36	0	591	0	0	0.9	3617	0
1	-360	360;											
1	-360	360;	00653				0					3	
1	839 4506 -360		00767	0.04	43531	0	0	0	0	0.98	3214	3	0
	-	•											

1	3445	6114	0.00032	3	0.028	3314		0	591	0	0	0.93	3617	0
1	-360 3445	360; 6114	0.00032	3	0.025	5999		0	591	0	0	0.93	3617	0
1	-360 3445	360; 7264	0.00036	5	0.025	5478		0	591	0	0	0.93	3617	0
1	-360	360;	0.00086 0.0					0	0		32143			1
-36	360	;												
2.0			0.000355	0.02	26586	0		591	0	0	0.93	3617	0	1
-36	360 720 171		0.000375	0.02	26313	0		591	0	0	0.93	3617	0	1
-36	360	;												
0			0.00034	4	0.023	3329		0	591	0	0	0.97	1922	7
0	1 -360 6206		0.00030	2	0.026	5375		0	591	0	0	0.97	7922	7
0	1 -36			_	0.02	30 10		Ü	031	Ü	Ü	0.5	322	,
	9174		0.00078	8	0.043	323 0		0	0	0	0.98	32143	3	0
1		360;	0 00076	_	0 04	107 0		0	0	0	0 00	00146		^
1	9174 -360		0.00076	/	0.044	10/0		0	0	0	0.98	32143	3	U
			0.00076	7	0.043	3562		0	0	0	0	0.98	32143	3
0	1 -36													
			0.00078	8	0.041	L281		0	0	0	0	0.98	32143	3
0	1 -36			2	0 040) E O 4		0	0	0	0	0 00	00111	2
0	1 -36		0.00089	_	0.040	1524		0	0	0	0	0.98	32143	3
O			0.00097	5	0.043	3562		0	0	0	0	0.98	32143	3
0	1 -36	0 3	360;											
			0.00075	7	0.042	2649		0	0	0	0	0.98	32143	3
0	1 -36			1	0.030	77.0		0	591	0	0	0 01	0 (1 7	0
1	5350 -360		0.00026					0	391	U	U	0.93	3617	U
_	5350	2361	0.00026	1	0.030	0088		0	591	0	0	0.93	3617	0
1	-360	360;												
•	5016	6112	0.00032	3	0.026	5447		0	591	0	0	0.97	7922	7
0	1 -360 5016		0.00032	2	0 026	5005		0	591	0	0	n a-	7922	7
0	1 -36			J	0.020	0000		U	331	U	U	0.9	922	,
			0.000323	0.02	2748 () 5	91	0	0	0.93	3617	0	1	-
360	360;													
26	7471 30 360		0.000292	0.02	28158	0		591	0	0	0.93	3617	0	1
-36			0.00919	7	0 -	567 0		0	0	0 0	72386	s s	1	_
360	360;		0.00010	,		, , , ,		O	O	0.0	, 250	,	_	
	5490		0.00073	6	0.044	1526		0	0	0	0	0.98	32143	3
0	1 -36			0 00		0		0	0	0	0 0	0111		^
1	2854 -360	9112 360;	0.00086	0.03	39488	Ü		0	0	0	0.98	32143	3	U
_	-360 2918	6532	0.00036	5	0.024	1372		0	591	0	0	0.93	3617	0
1	-360	360;												
	2918	6532	0.00037	5	0.023	3986		0	591	0	0	0.93	3617	0
1	-360	360;	0 00000	_	0 001	- 670		0	F 0 1	0	0	0 01	0.61.7	^
1	4494 -360	7284 360;		О	0.025	06/3		0	591	U	0	0.93	3617	U
_			0.00080	9	0.042	2318		0	0	0	0	0.98	32143	3
0	1 -36													

0		3519 1 - 360			0.00070	5	0.04203	88	0	0	0	0	0.98214	13
U					00334	0.02	28022	0	591	0	0	0.93	3617 0	1
-	360	360;												
^					0.00035	3	0.02240)3	0	591	0	0	0.98214	13
U		1 -360) 367	360;	; 00313	0 03	2635/	Ω	591	Λ	0	n a1	3617 0	1
_	360	360;		0.00	70313	0.02	20334	O	JJI	O	O	0.5	0017 0	
				0.00	00323	0.02	25478	0	591	0	0	0.93	3617 0	1
-	360	360;												
_					0.00034	4	0.02462	22	0	591	0	0	0.97922	27
0		1 -360			; 00355	0 03	24038	Ω	591	Λ	0	n 9°	79227	Λ
1			- 360,		70333	0.02	1000	O	J J I	O	O	0.5	1 2 2 2 1	O
					0.00088	1	0.03824	14	0	0	0	0	0.98214	13
0		1 -360												
^					0.00075	7	0.04095	59	0	0	0	0	0.98214	13
0		1 -360 3082) 208:		; 0.00035	1	0 02876	5.5	0	591	Λ	0	0.93617	7 0
1			360		0.00055	1	0.02070))	U	JJI	U	O	0.5501	0
		6224	2083	3	0.00035	4	0.02711	. 4	0	591	0	0	0.93617	7 0
1		-360	360	;										
1		2174	2083		0.00069	5	0.04748	3 0	0	0	0	0.98	32143	0
1		-360 4623	360 160		0.00032	3	0.02831	1	0	591	Λ	0	0.93617	7 0
1		-360	360		0.00032	J	0.02031	. 7	U	JJI	U	U	0.9301	0
_		4623	160		0.00032	3	0.02635	54	0	591	0	0	0.93617	7 0
1		-360												
-		4623			0.00032	3	0.02569	96	0	591	0	0	0.93617	7 0
1		-360 5589			0.00035	5	0 02730	15	0	591	0	0	0.97922	7
0		1 -360				J	0.02/30	, ,	U	JJI	U	U	0.91922	- /
					0.00035	5	0.02666	6	0	591	0	0	0.97922	27
0		1 -360												
0		5589			0.00092	3	0.03745	6	0	0	0	0	0.98214	13
0		1 -360 5589			; 0.00078;	2	0 03521	7	0	0	0	0	0.98214	13
0		1 -360				5	0.03321	. /	O	O	O	O	0.5021-	IJ
					0.00032	3	0.02673	39	0	591	0	0	0.93617	7 0
1		-360				_								
	260	1198) 360;			0.00032	3	0.02749	0	591	0	0	0.93	3617 0	1
_	300	2479			0.00031	3	0 02732	4	0	591	0	0	0.93617	7 ()
1		-360	360	- ;	0.00001		0.02702		Ü	031	Ü	Ü	0.3301	Ü
		2479	5482	2	0.00031	3	0.02807	4	0	591	0	0	0.93617	7 0
1		-360							•		•	•		
0					0.00060	L	0.02498	3 4	0	0	0	0	0.98214	13
U		1 -360 7831			0.00071	5	0.02279	97	0	0	0	0	0.98214	13
0		1 -360					0.02273	,				Ü	0.0022	
		7831	552	5	0.00034	4	0.02489	3	0	591	0	0	0.93617	7 0
1		-360	360		0.0000	_		- 0					0 0-05	
0		4970 1 -360			0.00036)	0.02416	3	0	591	U	U	0.97922	2.7
U					0.00034	4	0.02385	5 0	591	0	0	0.9	79227	0
1		-360						-		-	-		•	-

			0.00075	7	0.04018	32	0	0	0	0	0.98214	3
0		0.0	; 00323	0.02	28937	0	591	0	0	0.97	79227	0
1	3697	360; 6952	0.00035	4	0.02695	58	0	591	0	0	0.93617	0
1			0.000778	3	0.04565	56	0	0	0	0	0.98214	3
0	3697		0.00069	5	0.04893	32	0	0	0	0	0.98214	3
0	1 -360 3697		; 0.000302	2	0.02592	26	0	591	0	0	0.93617	0
1	-360	360;								0		
1	6738 -360	8180 360;	0.00035	5	0.02732	28	0	591	0	0	0.93617	0
1	6738 -360	8180 360;	0.00036	5	0.02715	56	0	591	0	0	0.93617	0
	9222	5935	0.00035	5	0.02429	99	0	591	0	0	0.97922	7
0	1 -360 7988		; 00375	0.02	26313	0	591	0	0	0.93	3617 0	1
-360	360;											
0.0			00375	0.02	25605	0	591	0	0	0.93	3617 0	1
-360	0 360; 3239		0.00033	4	0.02629	91	0	591	0	0	0.97922	7
0	1 -360	360	;				•			•		
			0.00070	5	0.04673	35	0	0	0	0	0.98214	3
0	1 -360 2056		; 0.000313	3	0 0268	75	0	591	0	0	0.97922	7
0	1 -360			5	0.0200		O	J J I	O	O	0.5/522	,
0		4084	0.000302	2	0.0273	76	0	591	0	0	0.97922	7
			0.00066	4	0.04486	58	0	0	0	0	0.98214	3
0	1 -360 2129		; 0.000809	9	0 04453	26	0	0	0	0	0.98214	3
0		360			0.01102	- 0	O	O	O	O	0.90211	_
-1	5658		0.00086	0.03	34253	0	0	0	0	0.98	32143	0
1	-360 5658	360; 5550	0.00035	5	0 0243	72	0	591	Ο	0	0.93617	0
1		360;			0.0210	_	Ü	032		Ü	0.3001	Ū
		1526	0.00036	5	0.02378	38	0	591	0	0	0.93617	0
1	-360	360;	0 000071	_	0 0000	. 4	0	F O 1	0	0	0 07000	7
0	4541 1 -360		0.00037	0	0.02320)4	0	591	U	0	0.97922	/
O	4541	7464	0.000302	2	0.02659	93	0	591	0	0	0.97922	7
0	1 -360											
_	1754	3857	0.000323	3	0.02925	56	0	591	0	0	0.93617	0
1	-360 1754	360 ; 3857	0.00033	4	0.02998	36	0	591	Ο	0	0.93617	Ω
1	-360	360;	0.00033	_	0.02330		O	J J I	O	O	0.33017	O
-	1754	3857	0.00035	5	0.03097	79	0	591	0	0	0.93617	0
1	-360 2518	360 ; 4544	0.000302	2	0.02570	7	0	591	0	0	0.93617	0
1	-360	360;		_	0.0207	,	Ü	032		Ü	0.3001	Ū
	2518	4544	0.00034	4	0.02540)5	0	591	0	0	0.93617	0
1	-360	360;	0 00010	0 0/	10000	0	/ O 1	0	0	0	_0 0722	00
1	3069 -360	6115 360;	0.00012	0.00	0000	U	491	U	0	U	-0.0723	οб

1	5067	7641	0.00036	5	0.02371	5	0	591	0	0	0.93617	0
1	-360 6036	360; 8670	0.00036	5	0.02351	7	0	591	0	0	0.97922	7
0	1 -360	0 360	;									
0	6036 1 -360	5522	0.00033	4	0.02681	2	0	591	0	0	0.97922	7
0	8486	8791	0.00069	5	0.04725	3	0	0	0	0	0.98214	3
0	1 -360 7530	0 360 _. 8791	; 0.00077;	8	0.04375	9	0	0	0	0	0.98214	3
0	1 -360	0 360	;									
1	7522 -360	7571 360;	0.00031	3	0.03063	6	0	591	0	0	0.93617	0
1	7522	7571	0.00031	3	0.02828	6	0	591	0	0	0.93617	0
1	-360 7522	360; 7571	0.00034	4	0.02811	5	0	591	0	0	0.93617	0
1	-360	360;										
	2526	1483	0.00090	2	0.03942	5	0	0	0	0	0.98214	3
0		0 360										
1	2365 -360	8316 360;	0.00035	5	0.02423	7	0	591	0	0	0.93617	0
	8672	1860	0.00037	5	0.02398	6	0	591	0	0	0.93617	0
1	-360 8672	360; 1860	0.00037	5	0.02386	1	0	591	0	0	0.93617	0
1	-360	360;	0.00007	0	0.02000	_	Ü	031	Ü	Ü	0.30017	Ü
т_	1494		00819	0 0	1152 0	0	0	0	0 00	32143	3 0	1
200			00019	0.02	1133 0	U	U	U	0.90	3ZI4.	3 0	т.
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1	1502 -360	2795 360;	0.00033	4	0.02802	2	0	591	U	0	0.93617	U
_	8195		00632	0.04	48237	0	0	0	0	0.98	32143	0
1	-360	360; 933 0.0	20622	0 0	45159	0	0	0	0	0 0	22142	0
1	8195 -360	360;	10632	0.02	13139	0	U	U	0	0.90	32143	U
	8195	933 0.0	00715	0.04	44039	0	0	0	0	0.98	32143	0
1	-360	360;										
	3918	6802	0.00074	0.04	14479	0	0	0	0	0.98	36547	0
1	-360	360;										
	3918		0.00074	0.04	43811	0	0	0	0	0.98	36547	0
1	-360	360;										
	4435	2079	0.00037	5	0.02385	0	591	0	0	0.93	3617 0	1
-360	360	;										
	4435	2079	0.00036	5	0.02326	7	0	591	0	0	0.93617	0
1	-360	360;										
	4435	2079	0.00032	3	0.02673	9	0	591	0	0	0.93617	0
1	-360	360;										
	1081	7361	0.00068	4	0.04702	5	0	0	0	0	0.98214	3
0	1 -360	0 360	;									
	9101	2177	0.00031	3	0.02748	0	591	0	0	0.93	3617 0	1
-360	360											
	6555	8475	0.00032	3	0.02855	4	0	591	0	0	0.93617	0
1	-360	360;										
	6555	8475	0.00030	2	0.02643	7	0	591	0	0	0.93617	0
1	-360	360•										
	7056	7577	0.00036	5	0.02555	1	0	591	0	0	0.93617	0
1	-360	360;										

1	7056 -360		0.00034	4	0.024893	3	0	591	0	0	0.93617	0
	7056	9051	0.000375	5	0.024508	3	0	591	0	0	0.97922	7
0	6889		0.000778	3	0.04115	7	0	0	0	0	0.98214	3
0	6889) 360, 6785	; 0.000923	3	0.03702	0	0	0	0	0.98	32143	0
1	-360 6889	360; 6785	0.000302	2	0.026593	3	0	591	0	0	0.97922	7
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1	1027 -360	360;										
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300			0.000344	4	0.025332	2	0	591	0	0	0.97922	7
0	1 -360	360,	;									
0	9213	8291) 360,	0.000334	4	0.02467	4	0	591	0	0	0.97922	7
O			0.000344	4	0.02457	0	591	0	0	0.97	79227	0
1	-360	360;	0.000365									
	3608	6664	0.000365	5	0.023788	3	0	591	0	0	0.93617	0
	-360 4339	360; 6570	0.000365	5	0.023601	1	0	591	Ο	Ο	0.93617	Ω
	-360		0.00000	9	0.02000	-	Ü	031	Ü	Ü	0.30017	Ü
			0.00034	4	0.02652	0	591	0	0	0.93	3617 0	1
-360	360;											
1			0.00034	4	0.027272	2	0	591	0	0	0.93617	0
1	7513	360; 6570	0.000334	4	0.027563	3	0	591	0	0	0.93617	0
1	-360	360;		-	0.02,000			032		Ü	0.3001	Ū
	8887	6639	0.000313	3	0.030636	6	0	591	0	0	0.97922	7
0	1 -360											
	8887		0.000313	3	0.028286	5	0	591	0	0	0.97922	7
0		360,		1	0 00000	2	^	^	^	0	0 00014	2
0		4816) 360,	0.000883	L	0.036803	3	U	0	U	0	0.98214	3
U			, 0.000902	2	0.036668	3	0	0	0	0	0.98214	3
0	1 -360											
			0.000883	1	0.03401	4	0	0	0	0	0.98214	3
0	1 -360 5460) 360, 3786	; 0.000365	5	0 02602	7	0	591	0	0	0.93617	Λ
1	-360	360;	0.00030	J	0.02002	/	U	JJI	U	U	0.93017	U
_	5460		0.000386	6	0.025673	3	0	591	0	0	0.93617	0
1	-360 7256		0.00012	0 01	1186	0	586	0	0	0	0.08450	7
1	-360	360;									0.00100	,
	6153		0.00	06789	0	1216	5	0	0	0	-0.0869	84
1	-360 6153	360; 6807	0.000664	4	0 0/710	7	0	0	0	0	0.98214	3
0		360,		ı	0.04/10	1	U	U	U	U	0.90214	J
	1465	1262	0.000313	3	0.02831	4	0	591	0	0	0.93617	0
1	-360	360;										

1	1465	1262		0.000	334		0.02	25707	7	0	591	0	0	0.9	3617	0
	-360 1465	360; 1551	-	0.000	344		0.02	25478	3	0	591	0	0	0.9	3617	0
1	-360 7537	360; 1551		0.000	344		0.02	27236	5	0	591	0	0	0.9	3617	0
1	-360 7537	360; 1551		0.000	375		0.02	26518	}	0	591	0	0	0.9	3617	0
1	-360 6901	360;		0.000						591		0		3617		1
-360	360 <i>;</i>		i	0.000	,,,,,,)	0.02	2040	U	391	U	U	0.9.	3017	U	Τ
	5241			0788		0.04	10317	7	0	0	0	0	0.98	3214	3	0
	-360 7520			0323		0 02	25863	3	0	591	Ο	0	0 9.	7922	7	0
	-360	360;		0323		0.02	2000		O	J J I	O	O	0.5	, , , , ,	,	Ü
	749 4324	1	1e-0	5 0	0.02	2863	3	0	948	0	0	0	0.0	4898	1	-
360	360; 4141	7124		0.000	1221		0 03	20204	-	0	591	0	0	0 0	3617	0
1	-360	360;		0.000	1334		0.03	30306)	U	391	U	U	0.9	301/	U
_	4141	7124		0.000	302		0.03	30636	5	0	591	0	0	0.9	3617	0
1	-360	360;						_								
1	7466 -360	3649 360;		0.000)11	0.01	L0476	5	0	472	0	0	0	-0.	06138	3
_	8222			0.000	344		0.02	24841	_	0	591	0	0	0.9	79227	7
0	1 -360)	360;													
0	8222			0.000	365)	0.02	25029)	0	591	0	0	0.9	79227	7
0	1 -360 8222		360;	0.000)355		0 02	24101		0	591	0	0	0 9	79227	7
0	1 -360		360 ;		,,,,,		0.02		-	Ü	031	Ü	Ü	0.5	, , , , , ,	•
	4125	163	0.00	0344		0.02	2385	0	591	0	0	0.9	3617	0	1	-
360	360; 4125	162	0 00	0411		0 00	2313	0	591	0	0	0 0	3617	\circ	1	
360		103	0.00	0411		0.02	2010	U	JJI	U	U	0.9.	3017	U	1	
_	4125			0829		0.04	12764	1	0	0	0	0	0.98	3214	3	0
1	-360 5837	360; 9217		0.000	1705		0 0/	1710	0	0	0	0	0 0	3214	2	0
1	-360	360;		0.000	7705	'	0.04	1/40	U	U	U	U	0.90	3214	5	U
	5837	1448		0.000	323	}	0.02	29986	5	0	591	0	0	0.9	3617	0
1	-360	360;		0 000			0 00	20050		0	F 0 1	0	0	0 0	0.61.7	0
1	5837 -360	1448 360:		0.000	1302		0.02	29952	<u> </u>	0	591	U	0	0.9	3617	U
_	8267			0.000	746		0.04	11064	<u> </u>	0	0	0	0	0.9	82143	3
0	1 -360															_
0	8267 1 -360			0.000)881		0.04	12214	ł	0	0	0	0	0.9	82143	3
O	2359			0.000	086	0.04	11209	9	0	0	0	0	0.98	3214	3	0
1	-360	360;														
0	2359				912		0.03	38669)	0	0	0	0	0.9	82143	3
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1	-360	360;		0070		0.02	2021	-	Ü	031	Ü	Ü	0.5	, , ,	,	
	8109			0375		0.02	25457	7	0	591	0	0	0.9	7922	7	0
1	-360 3485	360;		0.000	ノスハン		0 01	2000	-	0	501	0	\circ	0 0	3617	0
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	4734	2229)	0.000	302	!	0.02	29667	7	0	591	0	0	0.9	3617	0
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1709		1709 770	12	0 000334	1	0 027563	3	Ω	591	Ω	Ω	0.97922	7
1	0	1 -360	360	;					331	O	O	0.97922	,
1	0				3	0.028074	1	0	591	0	0	0.97922	7
1	0	1 -360 905 8189	360	; 00736	0 04	11064	0	0	0	0	0 9	82143	0
0 1 -360 360; 8334 8189 0.000757 0.043209 0 0 0 0 0.982143 0 1 -360 360; 7998 6734 0.000323 0.026586 0 854 0 0 0.982143 0 1 -360 360; 4196 280 0.000788 0.040296 0 0 0 0 0 0.982143 0 1 -360 360; 4196 280 0.000912 0.040514 0 0 0 0 0 0.982143 0 1 -360 360; 6475 3503 0.000798 0.042183 0 0 0 0 0 0.982143 0 1 -360 360; 6475 3503 0.000798 0.042183 0 0 0 0 0 0.982143 0 1 -360 360; 7328 4235 0.000323 0.027793 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.000302 0.027918 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.027918 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.025926 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.025926 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.025926 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.025926 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.025926 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.025926 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.00032 0.02435 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.000386 0.02435 0 591 0 0 0.93617 0 1 -360 360; 7328 4235 0.000386 0.02435 0 591 0 0 0.93617 0 1 -360 360; 7360 360; 7370 115 0.000323 0.029888 0 591 0 0 0.93617 0 1 -360 360; 7320 0.000313 0.02988 0 591 0 0 0.93617 0 1 -360 360; 7320 0.000323 0.029888 0 591 0 0 0.93617 0 1 -360 360; 7320 0.000323 0.029888 0 591 0 0 0.93617 0 1 -360 360; 7320 0.000323 0.029888 0 591 0 0 0.93617 0 1 -360 360; 7320 0.000323 0.029888 0 591 0 0 0.93617 0 1 -360 360; 7321 5720 0.000313 0.02801 0 591 0 0 0.93617 0 1 -360 360; 7321 5720 0.000313 0.02801 0 591 0 0 0.990991 0 1 -360 360; 7322 3246 0.000199 0.012988 0 1151 0 0 0.990991 0 1 -360 360; 7320 36	1	-360 360);					O	Ü	Ü	0.5	02113	O .
8334 8189	0				1	0.040109	9	0	0	0	0	0.98214	3
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1		7	0.00	00726	0.04	14039	0	0	0	0	0.98	32143	0
	3577		7	0.000365	5	0.024893	3	0	591	0	0	0.97922	:7
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1	7164	5918 360;	3	0.000323	3	0.026375	5	0	591	0	0	0.93617	0
_		2467		0.000334	1	0.029735	5	0	591	0	0	0.93617	0
1		360; 2467		0.000313	2	0.03023	7	0	591	0	0	0.93617	, 0
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1	8347 -360	7507 360;		0.000323	3	0.025853	3	0	591	0	0	0.93617	0
	8347	7507	7	0.000365	5	0.026197	7	0	591	0	0	0.93617	0
1	-360 8347	360; 7507		0.000365	5	0.025165	5	0	591	0	0	0.93617	0
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%%----%%
%% generator cost data
% 1 startup shutdown n x1 y1 ... xn yn
% 2 startup shutdown n c(n-1) ... c0
mpc.gencost = [
         0 3
   2
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                  1 0;
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         0 3
              0 1
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