

Label: 1 Hough Detection: StartX: 489.0 StartY: 16.0 EndX: 489.0 EndY: 17.0
Label: 2 Hough Detection: StartX: 112.0 StartY: 37.0 EndX: 112.0 EndY: 38.0
Label: 3 Hough Detection: StartX: 273.0 StartY: 40.0 EndX: 273.0 EndY: 39.0
Label: 4 Hough Detection: StartX: 404.0 StartY: 39.0 EndX: 404.0 EndY: 39.0

Label: 5 Hough Detection: StartX: 106.0 StartY: 40.0 EndX: 107.0 EndY: 43.0
Final LM fits :StartX:104.4670137980258 StartY:37.634862075296454
EndX:108.6605064919069EndY: 44.8255779782248
Length: 8.32416819689876

Label: 6 Hough Detection: StartX: 231.0 StartY: 50.0 EndX: 237.0 EndY: 45.0
Final LM fits :StartX:230.76455500215533 StartY:49.59909640895799
EndX:235.3621094199855EndY: 46.18859503302884
Length: 5.724423661830448

Label: 7 Hough Detection: StartX: 186.0 StartY: 46.0 EndX: 190.0 EndY: 47.0
Final LM fits :StartX:185.68278449827199 StartY:46.344154747207355
EndX:190.31959487398242EndY: 46.34415474720747
Length: 4.636810375710439
Label: 8 Hough Detection: StartX: 272.0 StartY: 54.0 EndX: 272.0 EndY: 55.0

Label: 9 Hough Detection: StartX: 413.0 StartY: 70.0 EndX: 418.0 EndY: 59.0
Final LM fits :StartX:412.3861637402315 StartY:70.49950573224379
EndX:417.23986734859636EndY: 60.94858953210623
Length: 10.713469978485223

Label: 10 Hough Detection: StartX: 327.0 StartY: 73.0 EndX: 338.0 EndY: 64.0
Final LM fits :StartX:326.37427658854784 StartY:73.80757896818896
EndX:336.09015223927645EndY: 65.19362128911995
Length: 12.984548762171642

Label: 11 Hough Detection: StartX: 134.0 StartY: 73.0 EndX: 138.0 EndY: 69.0
Final LM fits :StartX:134.90572351711626 StartY:73.33529713041719
EndX:137.2992586404888EndY: 70.1304586612928
Length: 3.999999999999692

Label: 12 Hough Detection: StartX: 198.0 StartY: 71.0 EndX: 212.0 EndY: 72.0
Final LM fits :StartX:198.10250147291518 StartY:71.00439983428664
EndX:212.36854030950283EndY: 71.87776901745404
Length: 14.292747735027499

Label: 13 Hough Detection: StartX: 231.0 StartY: 80.0 EndX: 232.0 EndY: 88.0
Final LM fits :StartX:230.64545785615005 StartY:74.9944250747393
EndX:232.20455508925815EndY: 93.92852419036595
Length: 18.998181320922782

Label: 14 Hough Detection: StartX: 425.0 StartY: 84.0 EndX: 434.0 EndY: 81.0
Final LM fits :StartX:424.8966539634278 StartY:83.3689090418555
EndX:431.36037922392387EndY: 82.26118314416324
Length: 6.557957068141954

Label: 15 Hough Detection: StartX: 407.0 StartY: 100.0 EndX: 408.0 EndY: 107.0
Final LM fits :StartX:405.8852793839408 StartY:96.34654959094428
EndX:408.4188304876401EndY: 108.1927513925215
Length: 12.114098328755105

Label: 16 Hough Detection: StartX: 314.0 StartY: 141.0 EndX: 317.0 EndY: 140.0
Final LM fits :StartX:314.5811002028578 StartY:141.66291391350182
EndX:316.9221158428201EndY: 139.78684201364038
Length: 2.9999999999996656

Label: 17 Hough Detection: StartX: 237.0 StartY: 145.0 EndX: 241.0 EndY: 155.0
Final LM fits :StartX:234.79155206905375 StartY:140.19721971499501
EndX:241.12493544286582EndY: 153.95229081999264
Length: 15.14310820351026

Label: 18 Hough Detection: StartX: 262.0 StartY: 149.0 EndX: 268.0 EndY: 167.0
Final LM fits :StartX:258.8949795981352 StartY:140.70455723802368
EndX:270.3555207161562EndY: 174.62115273354476
Length: 35.80055101146701

Label: 19 Hough Detection: StartX: 21.0 StartY: 168.0 EndX: 28.0 EndY: 163.0
Final LM fits :StartX:20.96648928677767 StartY:167.58340163321088
EndX:26.55721363754063EndY: 164.22277071415442
Length: 6.5230390877513695

Label: 20 Hough Detection: StartX: 61.0 StartY: 166.0 EndX: 64.0 EndY: 176.0
Final LM fits :StartX:60.24993891997818 StartY:164.72221517421943
EndX:65.4141535993576EndY: 177.71391616547092
Length: 13.980465224762835

Label: 21 Hough Detection: StartX: 253.0 StartY: 172.0 EndX: 269.0 EndY: 187.0
Final LM fits :StartX:252.93131508916647 StartY:171.44407229506004
EndX:269.58217916628195EndY: 186.84956134001902

Length: 22.684363937058624

Label: 22 Hough Detection: StartX: 333.0 StartY: 194.0 EndX: 333.0 EndY: 193.0

Label: 23 Hough Detection: StartX: 171.0 StartY: 191.0 EndX: 177.0 EndY: 203.0

Final LM fits :StartX:170.8951576145721 StartY:190.48456890509976

EndX:177.21297058507878EndY: 202.97797673762022

Length: 13.9999999999995

Label: 24 Hough Detection: StartX: 181.0 StartY: 208.0 EndX: 187.0 EndY: 199.0

Final LM fits :StartX:180.96865091490326 StartY:207.23502274564692

EndX:185.58397340820756EndY: 200.73619807123322

Length: 7.970942470371295

Label: 25 Hough Detection: StartX: 29.0 StartY: 200.0 EndX: 32.0 EndY: 202.0

Final LM fits :StartX:27.48524961976964 StartY:200.26030630859339

EndX:31.424625087648344EndY: 200.9540792707902

Length: 3.999999999999885

Label: 26 Hough Detection: StartX: 150.0 StartY: 200.0 EndX: 169.0 EndY: 210.0

Final LM fits :StartX:149.51346039626443 StartY:200.45776167684298

EndX:169.70622818280512EndY: 209.68671296062865

Length: 22.20183354319288

Label: 27 Hough Detection: StartX: 76.0 StartY: 212.0 EndX: 77.0 EndY: 202.0

Final LM fits :StartX:76.37862755407332 StartY:211.9742545124095

EndX:76.37862755407338EndY: 202.58919668482883

Length: 9.385057827580653

Label: 28 Hough Detection: StartX: 502.0 StartY: 210.0 EndX: 511.0 EndY: 232.0

Final LM fits :StartX:501.69230878102167 StartY:209.3328907341353

EndX:512.804694755546EndY: 233.9397325224651

Length: 26.999662680165102

Label: 29 Hough Detection: StartX: 233.0 StartY: 219.0 EndX: 235.0 EndY: 210.0

Final LM fits :StartX:232.85422498542974 StartY:219.51781306329443

EndX:235.0800908206733EndY: 210.88876556039907

Length: 8.911506018834816

Label: 30 Hough Detection: StartX: 407.0 StartY: 222.0 EndX: 408.0 EndY: 219.0

Final LM fits :StartX:407.1390016421333 StartY:222.1116187839334

EndX:408.1204923245864EndY: 219.14392677666822

Length: 3.125783071444329

Label: 31 Hough Detection: StartX: 275.0 StartY: 227.0 EndX: 303.0 EndY: 235.0
Final LM fits :StartX:274.72154920302063 StartY:226.87131422452714
EndX:303.3980145911027EndY: 234.91511782278036
Length: 29.783257771458462

Label: 32 Hough Detection: StartX: 84.0 StartY: 241.0 EndX: 90.0 EndY: 235.0
Final LM fits :StartX:83.47282222717307 StartY:241.09568665131275
EndX:88.97939044102216EndY: 236.17050579872162
Length: 7.387807518100579

Label: 33 Hough Detection: StartX: 63.0 StartY: 249.0 EndX: 67.0 EndY: 243.0
Final LM fits :StartX:62.443027037504336 StartY:249.71594107541773
EndX:65.7646177055684EndY: 243.90409085537559
Length: 6.694069580335582

Label: 34 Hough Detection: StartX: 233.0 StartY: 248.0 EndX: 235.0 EndY: 240.0
Final LM fits :StartX:232.71435022461543 StartY:248.1522082372519
EndX:235.10867417489646EndY: 240.31134114573246
Length: 8.198291524809418

Label: 35 Hough Detection: StartX: 225.0 StartY: 264.0 EndX: 228.0 EndY: 258.0
Final LM fits :StartX:225.43309526053247 StartY:263.32717157609136
EndX:227.4667019347713EndY: 259.48908355029886
Length: 4.343555663191215

Label: 36 Hough Detection: StartX: 397.0 StartY: 285.0 EndX: 398.0 EndY: 275.0
Final LM fits :StartX:397.01318363366465 StartY:287.8698153881607
EndX:398.6361902490049EndY: 275.1606151489997
Length: 12.812412777948143

Label: 37 Hough Detection: StartX: 194.0 StartY: 279.0 EndX: 199.0 EndY: 281.0
Final LM fits :StartX:193.04853986248966 StartY:279.0624881136105
EndX:198.4787078118861EndY: 279.9975136223605
Length: 5.510081366065786

Label: 38 Hough Detection: StartX: 323.0 StartY: 285.0 EndX: 331.0 EndY: 302.0
Final LM fits :StartX:319.99385889443073 StartY:279.95170192796064
EndX:331.9241498209477EndY: 303.9431143535929
Length: 26.794023806963267

Label: 39 Hough Detection: StartX: 63.0 StartY: 295.0 EndX: 71.0 EndY: 301.0
Final LM fits :StartX:62.6092842814005 StartY:294.6731067034576
EndX:71.2610756428482EndY: 301.0213452094537

Length: 10.730965748292776

Label: 40 Hough Detection: StartX: 476.0 StartY: 295.0 EndX: 489.0 EndY: 306.0
Final LM fits :StartX:475.79518080254775 StartY:295.0069587939148
EndX:489.0778656370308EndY: 306.0045356751452
Length: 17.24460534981242

Label: 41 Hough Detection: StartX: 180.0 StartY: 307.0 EndX: 185.0 EndY: 300.0
Final LM fits :StartX:179.7493916910129 StartY:306.87631594550805
EndX:183.84986343393047EndY: 301.79534561679355
Length: 6.529175139000525

Label: 42 Hough Detection: StartX: 80.0 StartY: 317.0 EndX: 81.0 EndY: 315.0
Final LM fits :StartX:79.43777298073185 StartY:317.0224584900881
EndX:81.40944860520949EndY: 314.7613757335736
Length: 2.999999999994458

Label: 43 Hough Detection: StartX: 486.0 StartY: 328.0 EndX: 496.0 EndY: 320.0
Final LM fits :StartX:485.84019446681566 StartY:328.06601037107447
EndX:494.78653694521677EndY: 320.4132280826069
Length: 11.772940180580504

Label: 44 Hough Detection: StartX: 207.0 StartY: 327.0 EndX: 207.0 EndY: 328.0

Label: 45 Hough Detection: StartX: 435.0 StartY: 347.0 EndX: 436.0 EndY: 358.0
Final LM fits :StartX:435.108527389071 StartY:346.7649939893836
EndX:436.1958887552319EndY: 358.2656134273269
Length: 11.551909028252396

Label: 46 Hough Detection: StartX: 63.0 StartY: 353.0 EndX: 79.0 EndY: 352.0
Final LM fits :StartX:62.44921808362807 StartY:353.0298542854775
EndX:75.79621165160333EndY: 352.5251490407951
Length: 13.356532659623262

Label: 47 Hough Detection: StartX: 83.0 StartY: 353.0 EndX: 83.0 EndY: 353.0

Label: 48 Hough Detection: StartX: 368.0 StartY: 356.0 EndX: 373.0 EndY: 360.0
Final LM fits :StartX:367.73378421602763 StartY:355.9545743224965
EndX:373.3708872173002EndY: 360.10464296686416
Length: 6.999999999994275

Label: 49 Hough Detection: StartX: 152.0 StartY: 365.0 EndX: 160.0 EndY: 359.0
Final LM fits :StartX:153.1481300974722 StartY:364.6123874305285
EndX:157.7805561699491EndY: 361.1684434656974

Length: 5.772358387163794

Label: 50 Hough Detection: StartX: 392.0 StartY: 366.0 EndX: 398.0 EndY: 376.0
Final LM fits :StartX:392.0956089565281 StartY:365.21706079764766
EndX:398.121698521991EndY: 377.3423378321001
Length: 13.540166122068086

Label: 51 Hough Detection: StartX: 41.0 StartY: 391.0 EndX: 56.0 EndY: 375.0
Final LM fits :StartX:40.662512127658324 StartY:391.0873889358025
EndX:56.048819558410926EndY: 375.4566865144198
Length: 21.933018819566346

Label: 52 Hough Detection: StartX: 194.0 StartY: 378.0 EndX: 203.0 EndY: 379.0
Final LM fits :StartX:193.57504883918872 StartY:378.6455329376998
EndX:203.39806867116698EndY: 379.0820707315802
Length: 9.832714979339334

Label: 53 Hough Detection: StartX: 478.0 StartY: 379.0 EndX: 479.0 EndY: 376.0
Final LM fits :StartX:476.7534217638158 StartY:379.81417191742986
EndX:479.61442457596075EndY: 375.71360330943185
Length: 4.999999999999997

Label: 54 Hough Detection: StartX: 128.0 StartY: 408.0 EndX: 134.0 EndY: 383.0
Final LM fits :StartX:127.83420850418851 StartY:409.3089151385109
EndX:133.4779923561869EndY: 384.86937405876984
Length: 25.082732394147726

Label: 55 Hough Detection: StartX: 287.0 StartY: 384.0 EndX: 294.0 EndY: 386.0
Final LM fits :StartX:287.1478241669048 StartY:383.5107932554794
EndX:294.48097513192226EndY: 386.37938665269473
Length: 7.8742574986016205

Label: 56 Hough Detection: StartX: 461.0 StartY: 389.0 EndX: 466.0 EndY: 390.0
Final LM fits :StartX:459.6106429614706 StartY:389.55942927584334
EndX:467.6106400354283EndY: 389.566271543645
Length: 7.999999999997499

Label: 57 Hough Detection: StartX: 205.0 StartY: 403.0 EndX: 209.0 EndY: 394.0
Final LM fits :StartX:205.88995068665872 StartY:402.8742857497318
EndX:208.05822914340493EndY: 396.25154830456614
Length: 6.968649993620672

Label: 58 Hough Detection: StartX: 326.0 StartY: 422.0 EndX: 328.0 EndY: 403.0
Final LM fits :StartX:326.38253196235036 StartY:422.3743917371121
EndX:327.5017767364809EndY: 403.44609432119313
Length: 18.961359443085904

Label: 59 Hough Detection: StartX: 92.0 StartY: 418.0 EndX: 107.0 EndY: 420.0
Final LM fits :StartX:89.29052990321233 StartY:418.13944090742376
EndX:107.2750665416723EndY: 418.88539124079205
Length: 17.999999999998927

Label: 60 Hough Detection: StartX: 52.0 StartY: 422.0 EndX: 77.0 EndY: 419.0
Final LM fits :StartX:52.101330553789104 StartY:421.4850230340044
EndX:72.95984389692948EndY: 419.4423675768834
Length: 20.95829239710315

Label: 61 Hough Detection: StartX: 447.0 StartY: 455.0 EndX: 459.0 EndY: 440.0
Final LM fits :StartX:446.6610557480162 StartY:455.5581809803519
EndX:457.8939911349922EndY: 441.0246105777821
Length: 18.36854665057717

Label: 62 Hough Detection: StartX: 253.0 StartY: 445.0 EndX: 258.0 EndY: 455.0
Final LM fits :StartX:252.31474529789162 StartY:444.3627832840576
EndX:258.6589991143099EndY: 455.70960727176265
Length: 12.999998888272874

Label: 63 Hough Detection: StartX: 14.0 StartY: 459.0 EndX: 15.0 EndY: 454.0
Final LM fits :StartX:13.870650136953783 StartY:459.0514659776435
EndX:14.768097908407114EndY: 454.28196491613625
Length: 4.853200271800584

Label: 64 Hough Detection: StartX: 83.0 StartY: 490.0 EndX: 91.0 EndY: 483.0
Final LM fits :StartX:82.44630804789777 StartY:489.83213816952014
EndX:89.10300124410668EndY: 484.8327084930084
Length: 8.325014198116433

Label: 65 Hough Detection: StartX: 146.0 StartY: 499.0 EndX: 157.0 EndY: 495.0
Final LM fits :StartX:146.02102246686127 StartY:498.34181146654026
EndX:153.77098028897336EndY: 496.6910130895705
Length: 7.923823668275464
fmax = 3.7826962
fmin = 0.0