

case2869pegase attack 2 starting point

function mpc = case2869pegase

%CASE2869PEGASE Power flow data for large part of European system.

% Please see CASEFORMAT for details on the case file format.

%

% This case accurately represents the size and complexity of part of the
% European high voltage transmission network. The network contains 2,869
% buses, 510 generators, and 4,582 branches and it operates at 380, 220,
% 150, and 110 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 tools but should not be used for operation and planning of
% the European grid.

%

% The data stems from the Pan European Grid Advanced Simulation and State
% Estimation (PEGASE) project, part of the 7th Framework Program of the
% European Union (<http://www.fp7-pegase.com/>).

%

% When publishing results based on this data, please cite:

%

% C. Josz, S. Fliscounakis, J. Maeght, and P. Panciatici, "AC Power Flow
% 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 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>

%

% Remarks:

%

% 1. Line flow limits are the current flow limits found in PEGASE data.

%

% 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 conductance 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
% modified.

%

% 3. Identical linear costs are used for all generators to form a loss
% 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.

%

% Contacts:

% Cédric Josz, Stéphane Fliscounakis, Jean Maeght, Patrick Panciatici
% firstname.lastname@rte-france.com

% Réseau de Transport d'Électricité (French Transmission System Operator)

% Département Expertise Système, Immeuble "Le Colbert"

% 9 rue de la Porte de Buc, 78000 Versailles Cedex, France

%

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% MATPOWER

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% and Patrick Panciatici

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%% 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 = [

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4 1 171.41 23.4 0 2.1 0 1.025797 -7.009176 220 5 1.1 0.9;
10 1 134 24.7 0 12.44 0 1.037973 -24.31171 220 5 1.1 0.9;
15 1 59.67 26.7 0 12.84 0 1.024279 -48.286579 220 4 1.1 0.9;
21 1 161.2 39.3 0 30.71 0 1.035642 -21.986561 220 5 1.1 0.9;
22 1 0 -0 0 0.85 0 1.032862 -18.51179 220 5 1.1 0.9;
26 1 167.3 54.8 0 110.54 0 1.032832 -3.303479 380 5 1.1 0.9;
29 1 152.9 49.4 0 27.65 0 0.997905 -13.742779 380 5 1.1 0.9;
32 2 0 0 0 0 0 1.006206 -42.36182 220 4 1.1 0.9;
33 2 0 0 0 0 0 1.031909 -37.946488 220 4 1.1 0.9;
38 1 42.75 12.8 0 13.3 0 1.028477 26.320254 220 8 1.1 0.9;
39 2 0 0 0 0 0 1.005551 -37.656299 150 10 1.1 0.9;
42 1 20.82 7.9 0 26.89 0 1.047415 -48.480512 380 4 1.1 0.9;
44 1 -0 0 0 7.27 0 1.045273 -22.20917 220 5 1.1 0.9;
51 2 0 0 0 0 0 1.01198 -47.438988 220 4 1.1 0.9;
52 1 127.6 31.8 0 20.51 0 1.013245 0.963784 150 8 1.1 0.9;
53 1 48.65 16.1 0 7.14 0 1.060523 -9.105713 220 5 1.1 0.9;
58 1 0 0 0 2.31 0 0.995373 -21.587045 380 5 1.1 0.9;
59 1 119.2 20.7 0 3.31 0 1.031574 -23.793559 220 5 1.1 0.9;
69 1 62.87 20.5 0 1.15 0 1.011798 -0.30934 150 8 1.1 0.9;
71 1 126.3 42.4 0 55.24 0 1.037783 3.197998 150 8 1.1 0.9;
72 1 6.91 -4.6 0 5.75 0 1.009626 -40.551667 220 4 1.1 0.9;
75 1 38.74 6.1 0 1.17 0 1.024422 -52.498016 220 4 1.1 0.9;
76 1 22.13 10.7 0 14.21 0 1.028539 26.329875 220 8 1.1 0.9;
77 1 -0 -0 0 0.73 0 1.013066 -48.881785 220 4 1.1 0.9;
89 1 0 0 0.199111 4.530599 0 0.996001 -4.601142 380 2 1.1 0.9;
90 1 363.25 115.39 0 3.95 0 1.04293 -27.629609 220 5 1.1 0.9;
91 1 -0 0 0 0.02 0 1.011563 0.577525 150 8 1.1 0.9;
96 1 -8.4 28.66 0 3.49 0 1.034803 -15.625024 220 5 1.1 0.9;
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115 1 0 -0 0 4.21 0 1.065676 -19.810351 220 5 1.1 0.9;
118 1 704.53 -35.33 0 13.102834 0 1.021915 -11.391408 380 5 1.1 0.9;
124 2 0 0 0 0 0 1.079291 8.367367 220 5 1.1 0.9;
128 1 23.73 12.7 0 0.52 0 1.020115 -16.088574 220 5 1.1 0.9;
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133 1 38.14 12.5 0 6.28 0 1.01895 2.823528 150 8 1.1 0.9;
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445 1 36.74 10.3 0 8.1 0 1.022265 -44.379049 220 4 1.1 0.9;
449 1 0 0 0 29.42 0 1.02121 -8.505204 380 5 1.1 0.9;
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455 1 274.32 5.66 0 13.24 0 1.043545 -30.648087 220 5 1.1 0.9;
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473 1 -22.95 -3.72 0 14.34 0 1.027789 -45.658214 220 4 1.1 0.9;
477 1 0 0 0 70.37 0 1.049487 -41.702128 380 4 1.1 0.9;
481 1 -0 0 0 17.44 0 1.024242 -47.836389 220 4 1.1 0.9;
483 1 57.26 15.6 0 3.43 0 1.022965 -49.351603 220 4 1.1 0.9;
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490 1 20.52 4 0 2.77 0 1.036343 -23.043793 220 5 1.1 0.9;
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558 1 -0.18 -3.57 0 0 0 1.017158 17.760895 150 8 1.1 0.9;
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594 1 67.57 17 0 5.75 0 1.038322 -8.883436 220 5 1.1 0.9;
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604 1 33.24 4.4 0 24.54 0 0.996802 -12.954482 380 5 1.1 0.9;
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641 1 45.32 18.5 0 0.74 0 1.0383 -13.886781 220 5 1.1 0.9;
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661 1 -0 -0 0 0.6 0 1.032374 2.535923 380 5 1.1 0.9;
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Qc2max ramp_agc ramp_10 ramp_30 ramp_q apf
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33 5.3 0.41 2.27 -1.08 1.031909 100 1 5.38 0 0 0 0 0 0 0 0 0 0 0 0;
39 34.3 4.84 17.76 -7.14 1.005551 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
51 -144.5 0.55 5.48 -4.19 1.01198 100 1 100 -192.67 0 0 0 0 0 0 0 0 0 0 0 0;
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150 67.29 -9.79 77.09 -22.54 1.062067 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
179 -179.2 -33.84 52.64 -51.72 1.048817 100 1 100 -238.93 0 0 0 0 0 0 0 0 0 0 0 0;
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 1237 1504.8 347.49 906.61 -319.44 1.105045 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0;
 0;
 1241 46.13 -14.82 22.29 -20.98 1.021438 100 1 65.63 0 0 0 0 0 0 0 0 0 0 0 0;
 1251 837 89.88 550.69 -185.15 1.0265 100 1 1200 400 0 0 0 0 0 0 0 0 0 0 0;
 1271 -100.5 -12.52 32.54 -32.11 1.015573 100 1 100 -134 0 0 0 0 0 0 0 0 0 0 0 0;
 1295 -124.1 9.31 36.92 -12.88 1.038943 100 1 100 -165.47 0 0 0 0 0 0 0 0 0 0 0 0;
 1341 67.2 31.22 57.03 -17.62 1.030396 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
 1354 -246.5 21.44 38.08 -11.73 1.04168 100 1 100 -328.67 0 0 0 0 0 0 0 0 0 0 0 0;

1391 26.2 2.19 18.74 -6.17 1.028915 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
1399 -174.6 -2.47 11.64 -10.2 1.052722 100 1 100 -232.8 0 0 0 0 0 0 0 0 0 0 0;
1409 628.19 -89.19 338.66 -151.76 1.024907 100 1 800 266.67 0 0 0 0 0 0 0 0 0 0 0;
1422 -101 3.68 18.09 -6.79 1.045292 100 1 100 -134.67 0 0 0 0 0 0 0 0 0 0 0;
1436 49.4 2.83 37.72 -12.09 1.049261 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
1458 1588 -288.24 895.23 -330.78 1.05352 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0;
1475 783.9 -108.21 394.45 -157 1.025403 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0;
1478 62.6 7.21 36.4 -13.44 1.046165 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
1498 5.2 0.36 2.25 -1.06 1.078389 100 1 5.31 0 0 0 0 0 0 0 0 0 0 0;
1570 121.4 -4.09 93.16 -29.49 1.079057 100 1 200 66.67 0 0 0 0 0 0 0 0 0 0 0;
1604 50.6 14.56 37.66 -12.17 1.044277 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
1618 -136.6 -10.11 21.27 -20.07 1.079319 100 1 100 -182.13 0 0 0 0 0 0 0 0 0 0 0;
1642 50.4 13.34 37.74 -12.11 1.031925 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
1680 1250.4 271.17 928.89 -296.1 1.044209 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0;
0;
1685 62.7 16.57 57.41 -17.22 1.005778 100 1 120 0 0 0 0 0 0 0 0 0 0 0;
1697 -189 -12.59 31.94 -31.24 1.041486 100 1 100 -252 0 0 0 0 0 0 0 0 0 0 0;
1708 860.8 132.37 439.37 -173.3 1.037844 100 1 1000 333.33 0 0 0 0 0 0 0 0 0 0 0;
0;
1721 28.1 1.63 18.52 -6.39 1.061536 100 1 40 0 0 0 0 0 0 0 0 0 0 0;
1747 835.5 271.39 387.67 -163.73 1.055274 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0;
1754 40 5.45 16.99 -7.92 1.040804 100 1 41.06 0 0 0 0 0 0 0 0 0 0 0;
1788 430.2 252.54 272.25 -94.92 1.018729 100 1 600 200 0 0 0 0 0 0 0 0 0 0 0;
1793 -90.3 -0.67 34.64 -15.2 1.023406 100 1 100 -120.4 0 0 0 0 0 0 0 0 0 0 0;
1794 1250.4 248.88 926.35 -297.68 1.052726 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0;
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1808 -0.6 -6.42 111.23 -38.16 1.047818 100 1 100 -0.8 0 0 0 0 0 0 0 0 0 0 0;
1850 2.89 -1.45 11.52 -10.09 1.020156 100 1 32.97 0 0 0 0 0 0 0 0 0 0 0;
1851 15.6 -0.75 11.76 -8.89 1.0492 100 1 31.92 0 0 0 0 0 0 0 0 0 0 0;
1852 -241.8 15.7 58.16 -16.52 1.056131 100 1 100 -322.4 0 0 0 0 0 0 0 0 0 0 0;
1888 573.68 43.66 396.02 -155.83 1.043102 100 1 912.78 312.78 0 0 0 0 0 0 0 0 0 0 0;
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1890 1526 129.25 686.73 -294.62 1.050852 100 0 1600 533.33 0 0 0 0 0 0 0 0 0 0 0;
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1898 246 -24.92 133.11 -51.25 1.077705 100 1 300 0 0 0 0 0 0 0 0 0 0 0;
1909 -31.18 3.61 38.67 -11.1 1.021788 100 1 100 -41.57 0 0 0 0 0 0 0 0 0 0 0;
1914 115.5 -35.25 160.36 -150.95 1.038338 100 1 472.16 39.35 0 0 0 0 0 0 0 0 0 0 0;
0;
1947 -17.02 0.43 2.05 -0.97 1.056511 100 1 100 -22.7 0 0 0 0 0 0 0 0 0 0 0;
1959 31 1.06 18.14 -6.75 1.066953 100 1 40 0 0 0 0 0 0 0 0 0 0 0;
1999 141.6 5.8 80.51 -30.07 1.080207 100 1 180 0 0 0 0 0 0 0 0 0 0 0;
2030 576 167.94 257 -110.85 1.072679 100 1 600 200 0 0 0 0 0 0 0 0 0 0 0;
2035 855.6 161.48 441.85 -171.27 1.034553 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0;
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2050 836.2 -45.26 962.2 -263.65 1.008592 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0;
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2085 176 36.2 88.39 -36.19 1.03273 100 1 200 0 0 0 0 0 0 0 0 0 0 0;
2091 33.9 1.74 17.88 -7.04 1.026543 100 1 40 0 0 0 0 0 0 0 0 0 0 0;
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2150 498.4 98.97 266.17 -101.5 1.064827 100 0 600 200 0 0 0 0 0 0 0 0 0 0 0;
2177 -121.3 15.21 58.35 -16.26 1.070558 100 1 100 -161.73 0 0 0 0 0 0 0 0 0 0 0;
2193 7.9 1.86 7.47 -2.56 1.014181 100 1 16.12 0 0 0 0 0 0 0 0 0 0 0;
2197 -53.29 2.68 19.51 -14.74 1.036195 100 1 100 -71.05 0 0 0 0 0 0 0 0 0 0 0;
2206 204.3 24.03 137.29 -46.58 1.020141 100 1 300 100 0 0 0 0 0 0 0 0 0 0 0;
2225 -83.5 0.41 2.27 -1.04 1.02967 100 1 100 -111.33 0 0 0 0 0 0 0 0 0 0 0;

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2236 -38.45 0.44 2.23 -1.07 1.023164 100 1 100 -51.26 0 0 0 0 0 0 0 0 0 0 0 0;
2267 362 147.75 228.16 -78.83 1.000857 100 1 500 166.67 0 0 0 0 0 0 0 0 0 0 0 0;
2276 38.9 -22.76 41.67 -36.5 1.055141 100 1 119.3 0 0 0 0 0 0 0 0 0 0 0 0;
2291 110.5 12.61 95.69 -28.93 1.068687 100 1 200 0 0 0 0 0 0 0 0 0 0 0 0;
2335 431.2 242.01 273.49 -94.1 1.040978 100 0 600 200 0 0 0 0 0 0 0 0 0 0 0;
2359 78.2 8.56 34.35 -15.5 1.025004 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
2412 67.3 -92.42 134.54 -136.29 1.016849 100 0 409.09 0 0 0 0 0 0 0 0 0 0 0 0;
2421 -320.4 10.06 37.39 -12.45 1.047704 100 1 100 -427.2 0 0 0 0 0 0 0 0 0 0 0 0;
2425 -100.5 14.28 54.3 -20.49 1.043025 100 1 100 -134 0 0 0 0 0 0 0 0 0 0 0 0;
2426 -43.2 -33.04 105.34 -99.02 1.040828 100 1 100 -57.6 0 0 0 0 0 0 0 0 0 0 0 0;
2446 1367 280.85 921.62 -304.73 1.053565 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
0;
2460 37.79 20.28 38.01 -11.74 0.983266 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
2468 46.8 4.68 38.02 -11.81 1.049474 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
2481 31.8 11.07 39.12 -10.71 1.041748 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
2489 286.5 -17.67 162.4 -61.79 1.049212 100 1 360 0 0 0 0 0 0 0 0 0 0 0 0;
2517 3.85 -14.82 78.13 -77.07 1.017237 100 1 234.52 0 0 0 0 0 0 0 0 0 0 0 0;
2550 54.3 3.25 58.23 -16.49 1.050935 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
2572 411.2 80.01 276.19 -91.63 1.044905 100 1 600 200 0 0 0 0 0 0 0 0 0 0 0;
2600 76.48 15.74 76.08 -23.59 1.041924 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
2627 1367 289.47 921.52 -304.79 1.052984 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
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2642 1897 -254.15 848.76 -377.67 1.054923 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
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2653 41.92 10.03 51.94 -22.8 1.036409 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
2658 308.31 -21.53 124.68 -59.39 1.026597 100 1 700 200 0 0 0 0 0 0 0 0 0 0 0;
2660 144.9 12.3 79.69 -30.77 1.013897 100 1 180 0 0 0 0 0 0 0 0 0 0 0 0;
2686 -72.9 -46.07 69.01 -69.9 1.020441 100 1 100 -97.2 0 0 0 0 0 0 0 0 0 0 0 0;
2719 77.6 -16.82 70.15 -58.1 1.039499 100 1 196.72 0 0 0 0 0 0 0 0 0 0 0 0;
2764 575.4 -114.34 416.7 -134.5 1.05096 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0;
2786 1221.2 379.25 934.81 -291.47 1.069288 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
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2797 -95.1 -2.82 88.33 -36.33 1.044662 100 1 100 -126.8 0 0 0 0 0 0 0 0 0 0 0 0;
2799 66.8 -1.37 77.91 -21.66 1.055463 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
2800 1048.2 -98.17 525.34 -209.84 1.030206 100 0 1200 400 0 0 0 0 0 0 0 0 0 0 0;
2816 1250.4 280.3 926.26 -297.74 1.054536 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
0;
2817 71.8 4.24 34.8 -14.94 0.991705 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
2841 80.7 -3.32 55.98 -18.76 1.079986 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
2842 31.6 6.06 18.19 -6.74 1.044122 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
2853 126 10.21 72.02 -27.47 1.000604 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
2872 4.5 0.35 3.31 -2.54 1.060615 100 1 9.05 0 0 0 0 0 0 0 0 0 0 0 0;
2878 8.95 -12.23 72.95 -68.71 1.05418 100 1 214.86 0 0 0 0 0 0 0 0 0 0 0 0;
2886 60.9 10.13 57.69 -17.02 1.052878 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
2896 -223.4 0.31 1.52 -0.73 1.011629 100 1 100 -297.87 0 0 0 0 0 0 0 0 0 0 0 0;
2902 20.9 1.52 19.19 -5.72 1.061022 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
2930 53.2 2.38 37.24 -12.54 1.049271 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
2934 3.4 0.17 2.51 -1.91 1.052968 100 1 6.83 0 0 0 0 0 0 0 0 0 0 0 0;
2946 -222.1 0.29 1.83 -0.87 1.020023 100 1 100 -296.13 0 0 0 0 0 0 0 0 0 0 0 0;
2985 46.6 -70.17 184.46 -132.67 1.05077 100 1 493.35 0 0 0 0 0 0 0 0 0 0 0 0;
3018 162.5 -4.96 89.61 -34.82 1.043371 100 1 200 0 0 0 0 0 0 0 0 0 0 0 0;
3028 855.7 158.53 441.85 -171.27 1.034318 100 1 1000 333.33 0 0 0 0 0 0 0 0 0 0 0 0
0;
3054 210.4 123.54 167.72 -77.11 0.999852 100 1 400 133.33 0 0 0 0 0 0 0 0 0 0 0 0;
3113 -20.3 -10.92 22.39 -20.99 1.072644 100 1 100 -27.07 0 0 0 0 0 0 0 0 0 0 0 0;
3114 38.6 3.91 17.33 -7.61 1.0681 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;

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3133 85.54 -1.1 113.97 -35.56 1.061763 100 1 240 0 0 0 0 0 0 0 0 0 0 0 0;
3134 -136.3 -10.75 70.25 -29.33 1.02503 100 1 100 -181.73 0 0 0 0 0 0 0 0 0 0 0;
3150 -31.34 0.57 6.66 -5.1 1.017094 100 1 100 -41.79 0 0 0 0 0 0 0 0 0 0 0;
3157 9 -0.09 6.78 -5.13 1.023658 100 1 18.41 0 0 0 0 0 0 0 0 0 0 0;
3163 33.9 -29.77 67.92 -69.02 1.006379 100 1 206.86 0 0 0 0 0 0 0 0 0 0 0;
3183 98.7 -3.82 53.7 -20.98 1.056991 100 1 120 0 0 0 0 0 0 0 0 0 0 0;
3205 416.7 108.62 243.61 -88.46 1.03763 100 1 540 0 0 0 0 0 0 0 0 0 0 0;
3218 -107.4 9.03 36.79 -13 1.032146 100 1 100 -143.2 0 0 0 0 0 0 0 0 0 0 0;
3233 13 -7.58 178.47 -79.11 1.012423 100 1 420 0 0 0 0 0 0 0 0 0 0 0;
3240 -42.3 -24.84 62.23 -51.37 1.051571 100 1 100 -56.4 0 0 0 0 0 0 0 0 0 0 0;
3291 326.4 -17.26 229 -77.02 1.027251 100 1 500 166.67 0 0 0 0 0 0 0 0 0 0 0;
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3334 -45.5 3.24 34.41 -15.34 1.03247 100 1 100 -60.67 0 0 0 0 0 0 0 0 0 0 0;
3335 -600 2045.7 99999 -99999 1.08873 100 1 630 -630 0 0 0 0 0 0 0 0 0 0 0;
3346 56.8 12.86 37.1 -12.76 1.014746 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
3353 19.07 6.07 38.2 -11.61 1.047796 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
3364 44.5 -22.17 47.19 -41.44 1.055303 100 1 135.27 0 0 0 0 0 0 0 0 0 0 0;
3390 2.4 21.5 54.59 -20.19 1.041678 100 1 120 0 0 0 0 0 0 0 0 0 0 0;
3416 171.3 38.2 76.43 -34.12 0.997085 100 1 180 0 0 0 0 0 0 0 0 0 0 0;
3422 53.7 -2.9 58.19 -16.5 1.065868 100 1 120 0 0 0 0 0 0 0 0 0 0 0;
3436 521 207.76 550.97 -184.89 1.056276 100 0 1200 400 0 0 0 0 0 0 0 0 0 0;
3492 -370.8 6.56 53.75 -21.08 1.04519 100 1 100 -494.4 0 0 0 0 0 0 0 0 0 0 0;
3513 829.8 43.52 387.88 -163.4 1.029628 100 0 900 300 0 0 0 0 0 0 0 0 0 0;
3565 15.88 2.99 38.83 -10.97 1.079121 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
3580 539 187.63 261.7 -107.36 1.075232 100 1 600 0 0 0 0 0 0 0 0 0 0 0;
3582 -321.8 -36.63 52.83 -52.04 1.045127 100 1 100 -429.07 0 0 0 0 0 0 0 0 0 0 0;
3584 -88.4 -1.9 19.8 -15.12 1.019651 100 1 100 -117.87 0 0 0 0 0 0 0 0 0 0 0;
3585 50.8 17.99 37.43 -12.32 1.006097 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
3611 -125.4 7.89 54.59 -20.12 1.03827 100 1 100 -167.2 0 0 0 0 0 0 0 0 0 0 0;
3621 202.03 -32.82 130.01 -54.04 1.023915 100 0 300 0 0 0 0 0 0 0 0 0 0 0;
3629 54.97 1.75 76.85 -22.64 1.020807 100 1 160 0 0 0 0 0 0 0 0 0 0 0;
3644 16.4 -6.77 22.35 -21.22 1.018948 100 1 66.09 0 0 0 0 0 0 0 0 0 0 0;
3656 -26.2 13.18 116.07 -33.32 1.067132 100 1 100 -34.93 0 0 0 0 0 0 0 0 0 0 0;
3659 1097.4 862.06 943.64 -282.01 1.065964 100 0 2000 666.67 0 0 0 0 0 0 0 0 0 0 0;
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3661 861.2 129.38 441.04 -172.05 1.059844 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0;
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3673 424.5 -84.67 257.61 -110.43 1.013624 100 1 600 200 0 0 0 0 0 0 0 0 0 0 0;
3689 5.2 0.41 2.18 -1.05 1.032178 100 1 6.2 0 0 0 0 0 0 0 0 0 0 0;
3691 239.6 48.92 133.84 -49.89 1.030169 100 1 300 100 0 0 0 0 0 0 0 0 0 0 0;
3692 164.4 -53.69 180.11 -77.84 1.025431 100 1 420 0 0 0 0 0 0 0 0 0 0 0;
3698 -12.58 5.71 36.34 -13.47 1.041028 100 1 100 -16.78 0 0 0 0 0 0 0 0 0 0 0;
3711 40.4 12.69 38.36 -11.38 1.00126 100 1 80 0 0 0 0 0 0 0 0 0 0 0;
3723 1146.3 67.92 514.15 -221.73 1.062798 100 1 1200 400 0 0 0 0 0 0 0 0 0 0 0;
3741 854.7 206.11 548.57 -187.16 1.035379 100 0 1200 400 0 0 0 0 0 0 0 0 0 0 0;
3791 90.6 18.06 54.7 -19.97 0.997709 100 1 120 0 0 0 0 0 0 0 0 0 0 0;
3792 85.4 -26.48 108.06 -41.25 1.058708 100 1 240 0 0 0 0 0 0 0 0 0 0 0;
3809 257 129.92 313.01 -116.73 1.084761 100 1 700 233.33 0 0 0 0 0 0 0 0 0 0 0;
3821 292 -39.5 165.76 -79.17 1.029497 100 1 400 133.33 0 0 0 0 0 0 0 0 0 0 0;
3825 837.3 64.59 388.17 -163.4 1.026381 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0;
3840 -22.95 -16.27 36.29 -35.42 1.030834 100 1 100 -30.6 0 0 0 0 0 0 0 0 0 0 0;
3869 855.6 161.13 440.69 -172.14 1.035477 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0;
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3876 -25.1 16.55 34.27 -15.52 1.046886 100 1 100 -33.47 0 0 0 0 0 0 0 0 0 0 0;

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3916 -21.27 16.17 38.02 -11.77 1.044945 100 1 100 -28.37 0 0 0 0 0 0 0 0 0 0 0 0;
3951 -27.1 -74.17 126.16 -127.56 1.029014 100 1 100 -36.13 0 0 0 0 0 0 0 0 0 0 0 0;
3971 -134.5 15.75 55.67 -19.09 1.060173 100 1 100 -179.33 0 0 0 0 0 0 0 0 0 0 0 0;
3983 229.9 11.5 134.98 -48.75 1.012943 100 1 300 100 0 0 0 0 0 0 0 0 0 0 0 0;
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4024 89.5 44.88 97.07 -27.44 1.032708 100 1 200 0 0 0 0 0 0 0 0 0 0 0 0;
4026 399.3 -17.62 223.07 -83.7 1.05962 100 1 500 166.67 0 0 0 0 0 0 0 0 0 0 0 0;
4056 -76.9 8.25 38.05 -11.77 1.042513 100 1 100 -102.53 0 0 0 0 0 0 0 0 0 0 0 0;
4084 366.1 46.85 264.94 -103.74 1.060214 100 1 600 0 0 0 0 0 0 0 0 0 0 0 0;
4118 41 4.36 38.37 -11.4 1.029072 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
4125 59.6 18.23 36.89 -13 0.999283 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
4128 67.5 24.85 57.03 -17.63 1.023094 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
4182 710.7 -68.75 344.9 -146.06 1.016453 100 0 800 266.67 0 0 0 0 0 0 0 0 0 0 0 0;
4192 767.4 310.02 396.38 -154.99 1.077662 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0 0;
4204 -48.16 0.36 1.83 -0.85 1.017661 100 1 100 -64.21 0 0 0 0 0 0 0 0 0 0 0 0;
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0 0;
4259 28 6.24 18.41 -6.45 1.013671 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
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4291 251 -30.61 196.08 -61.88 1.02141 100 1 420 0 0 0 0 0 0 0 0 0 0 0 0;
4331 60.2 6.39 36.73 -13.12 1.032206 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
4333 152.4 4.96 79.1 -31.46 0.999193 100 1 180 0 0 0 0 0 0 0 0 0 0 0 0;
4337 1334.3 544.16 576.78 -158.19 1.010847 100 1 2700 800 0 0 0 0 0 0 0 0 0 0 0 0;
4338 -52.5 4.46 16.93 -7.97 1.024208 100 1 100 -70 0 0 0 0 0 0 0 0 0 0 0 0;
4393 115.36 -20 142 -41.87 1.066547 100 1 300 100 0 0 0 0 0 0 0 0 0 0 0 0;
4395 -129.1 12.79 38.48 -11.33 1.039119 100 1 100 -172.13 0 0 0 0 0 0 0 0 0 0 0 0;
4419 861.3 131.97 441.04 -172.05 1.059728 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0 0
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4442 -11.23 -12.54 34.61 -33.92 1.036687 100 1 100 -14.98 0 0 0 0 0 0 0 0 0 0 0 0;
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4506 -171.8 22.11 37.86 -11.95 1.040247 100 1 100 -229.07 0 0 0 0 0 0 0 0 0 0 0 0;
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4661 -78.9 3.81 19.14 -5.77 1.051599 100 1 100 -105.2 0 0 0 0 0 0 0 0 0 0 0 0;
4663 -116 0.12 55.07 -19.63 1.028053 100 1 100 -154.67 0 0 0 0 0 0 0 0 0 0 0 0;
4690 541 15.43 417.98 -132.47 1.033192 100 0 900 300 0 0 0 0 0 0 0 0 0 0 0 0;
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4773 16 -5.4 22.15 -20.9 1.020563 100 1 65.3 0 0 0 0 0 0 0 0 0 0 0 0;
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4846 239.6 48.9 133.84 -49.89 1.030285 100 1 300 100 0 0 0 0 0 0 0 0 0 0 0 0;
4850 88.8 11.28 76.52 -23.19 1.052648 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
4880 -40.3 7.65 75.62 -23.96 1.03955 100 1 100 -53.73 0 0 0 0 0 0 0 0 0 0 0 0;

4897 18.56 4.81 37.58 -12.23 1.018589 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
4918 41.69 10.15 37.27 -12.57 1.059135 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
4931 20.2 -17.48 34.39 -33.64 1.040167 100 1 102.79 0 0 0 0 0 0 0 0 0 0 0 0;
4945 385.4 -33.86 224.4 -82.22 1.059702 100 1 500 166.67 0 0 0 0 0 0 0 0 0 0 0 0;
4952 -12.57 7.48 37.23 -12.61 1.044318 100 1 100 -16.77 0 0 0 0 0 0 0 0 0 0 0 0;
4954 40.84 0.35 54.46 -20.26 1.019681 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
4957 961 -177.26 533.39 -201.12 1.048836 100 0 1200 400 0 0 0 0 0 0 0 0 0 0 0;
4967 83.2 -17.25 182.2 -75.83 1.023151 100 1 420 0 0 0 0 0 0 0 0 0 0 0 0;
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5025 -155.1 0.45 5.65 -4.3 1.006979 100 1 100 -206.8 0 0 0 0 0 0 0 0 0 0 0 0;
5051 83.48 -0.85 74.55 -24.97 1.039098 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
5060 13.3 -4.4 14.22 -12.43 1.067508 100 1 40.68 0 0 0 0 0 0 0 0 0 0 0 0;
5065 1008.3 199.74 532.96 -203.19 1.072972 100 1 1200 400 0 0 0 0 0 0 0 0 0 0 0;
5067 542 129.85 258.91 -109.58 1.021364 100 1 600 0 0 0 0 0 0 0 0 0 0 0 0;
5091 276.42 -51.56 151.81 -69.25 1.054352 100 1 360 0 0 0 0 0 0 0 0 0 0 0 0;
5097 21.1 2.24 8.91 -4.11 1.059554 100 1 21.23 7.08 0 0 0 0 0 0 0 0 0 0 0 0;
5110 -52.51 11.13 38.28 -11.5 1.034874 100 1 100 -70.01 0 0 0 0 0 0 0 0 0 0 0 0;
5120 75.6 -5.08 56.35 -18.42 1.057395 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
5144 1713.6 109.47 882.86 -343.24 1.035348 100 1 2000 666.67 0 0 0 0 0 0 0 0 0 0 0
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5171 -87.6 -8.56 32.89 -32.29 1.01545 100 1 100 -116.8 0 0 0 0 0 0 0 0 0 0 0 0;
5237 106.8 9.87 75.02 -24.74 1.050569 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
5239 -1344.4 66.73 99999 -99999 1.005494 100 1 100 -1792.53 0 0 0 0 0 0 0 0 0 0 0
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5278 119.4 1.07 51.3 -23.49 1.041244 100 1 120 0 0 0 0 0 0 0 0 0 0 0 0;
5280 -193.9 0.41 2.29 -1.06 1.021983 100 1 100 -258.53 0 0 0 0 0 0 0 0 0 0 0 0;
5290 332.54 -12.08 159.67 -61.42 1.011274 100 1 360 0 0 0 0 0 0 0 0 0 0 0 0;
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5348 10.8 -1.39 11.36 -10.08 1.015924 100 1 32.74 0 0 0 0 0 0 0 0 0 0 0 0;
5365 19.59 1.74 18.14 -6.75 1.063822 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
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5395 -395.8 7.69 58.06 -16.66 1.049 100 1 100 -527.73 0 0 0 0 0 0 0 0 0 0 0 0;
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5482 56.8 -11.92 101.32 -48.12 1.046078 100 1 249.06 0 0 0 0 0 0 0 0 0 0 0 0;
5486 861.3 130.17 441.04 -172.05 1.0598 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0 0;
5488 -96.4 21.75 37.49 -12.33 1.041439 100 1 100 -128.53 0 0 0 0 0 0 0 0 0 0 0 0;
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5512 75.62 6.26 69.67 -30 1.020123 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
5533 173 12.93 88.87 -35.71 1.041341 100 1 200 0 0 0 0 0 0 0 0 0 0 0 0;
5546 21.5 2.41 19.16 -5.75 1.055712 100 1 40 0 0 0 0 0 0 0 0 0 0 0 0;
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5664 128 15.73 72.71 -27.05 1.068735 100 1 160 0 0 0 0 0 0 0 0 0 0 0 0;
5669 294.54 12.08 34.47 -15.34 1.003946 100 1 600 100 0 0 0 0 0 0 0 0 0 0 0;
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5787 63.55 -12.77 114.67 -32.56 1.031918 100 1 240 0 0 0 0 0 0 0 0 0 0 0 0;
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5823 404.6 -38.48 220.75 -85.54 1.063184 100 0 500 166.67 0 0 0 0 0 0 0 0 0 0 0 0;
5825 262.6 40.41 76.5 -34.05 0.995795 100 0 600 100 0 0 0 0 0 0 0 0 0 0 0 0;
5828 13.2 -3.55 13.93 -12.27 1.029274 100 1 39.98 0 0 0 0 0 0 0 0 0 0 0 0;
5831 -179.4 0.25 1.58 -0.74 1.032948 100 1 100 -239.2 0 0 0 0 0 0 0 0 0 0 0 0;
5856 305.7 32.63 214.13 -85 1.039775 100 1 480 160 0 0 0 0 0 0 0 0 0 0 0 0;
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5940 -74.9 7.47 17.21 -7.73 1.031482 100 1 100 -99.87 0 0 0 0 0 0 0 0 0 0 0 0;
5970 127.57 -18.76 172.47 -48.34 1.019864 100 1 360 0 0 0 0 0 0 0 0 0 0 0 0;
5971 1221.2 389.96 934.54 -291.64 1.067028 100 1 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
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5983 -102.5 7.94 37.27 -12.59 1.064637 100 1 100 -136.67 0 0 0 0 0 0 0 0 0 0 0 0;
5991 854.6 -173.92 517.55 -217.25 1.018313 100 0 1200 400 0 0 0 0 0 0 0 0 0 0 0 0;
5994 -87.3 -9.1 60.51 -61.08 1.034164 100 1 100 -116.4 0 0 0 0 0 0 0 0 0 0 0 0;
6000 617.7 351.54 411.66 -139.21 1.085651 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0 0;
6036 820.2 293.16 390.4 -161.16 1.041753 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0 0;
6090 60.4 5.42 36.58 -13.23 1.032192 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
6092 774.9 -110.76 395.59 -155.88 1.03946 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0 0;
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6138 -121.9 2.03 16.91 -7.99 1.013527 100 1 100 -162.53 0 0 0 0 0 0 0 0 0 0 0 0;
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6474 718.5 -5.42 438.72 -174.15 1.062877 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0 0
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6484 1168.8 -46.12 508.02 -227.3 1.030805 100 1 1200 400 0 0 0 0 0 0 0 0 0 0 0 0;
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6552 -204.2 13.04 37.58 -12.16 1.048072 100 1 100 -272.27 0 0 0 0 0 0 0 0 0 0 0 0;
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6654 742.76 -60.39 337.04 -153.26 1.02462 100 1 800 266.67 0 0 0 0 0 0 0 0 0 0 0 0;
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6820 15.9 -0.44 11.99 -9.06 1.051187 100 1 32.53 0 0 0 0 0 0 0 0 0 0 0 0;
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6947 227.5 5.11 126.09 -48.29 1.046726 100 1 280 0 0 0 0 0 0 0 0 0 0 0 0;
6969 39.8 -1.88 38.53 -11.27 1.061428 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
6982 -12.6 10.73 56.22 -18.44 1.038963 100 1 100 -16.8 0 0 0 0 0 0 0 0 0 0 0 0;
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7036 65.8 11.91 36.16 -13.72 1.042173 100 1 80 0 0 0 0 0 0 0 0 0 0 0 0;
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7137 876.4 -70.99 516.03 -219.17 1.031779 100 0 1200 400 0 0 0 0 0 0 0 0 0 0 0;
7159 861.3 131.58 441.04 -172.05 1.059739 100 0 1000 333.33 0 0 0 0 0 0 0 0 0 0 0
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7183 1250.6 357.75 926.47 -297.63 1.105479 100 1 2000 666.67 0 0 0 0 0 0 0 0 0 0 0
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7630 33.09 -15.8 45.85 -40.5 1.019127 100 1 131.82 0 0 0 0 0 0 0 0 0 0 0 0;
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7697 228.2 13.23 126.73 -47.83 1.047945 100 1 280 0 0 0 0 0 0 0 0 0 0 0 0;
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7808 1250.4 285.53 926.35 -297.68 1.055 100 1 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0;
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7913 1368.6 153.57 920.41 -305.58 1.063382 100 1 2000 666.67 0 0 0 0 0 0 0 0 0 0 0 0
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7960 419 108.4 274.2 -93.22 1.018041 100 1 600 200 0 0 0 0 0 0 0 0 0 0 0 0;
7998 811.8 140.4 391.57 -160.95 1.042456 100 1 900 300 0 0 0 0 0 0 0 0 0 0 0 0;
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8515 32.3 -17.43 93.03 -31.43 1.055375 100 1 200 0 0 0 0 0 0 0 0 0 0 0 0;
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8630 298.2 -25.78 124.56 -59.19 1.064508 100 1 300 100 0 0 0 0 0 0 0 0 0 0 0 0;
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2921 6093 0.001841 0.00738 0 0 0 0 0 0 1 -360 360;
2921 3487 0.002849 0.008979 0 0 0 0 0 0 1 -360 360;
8353 3633 0.00232 0.014099 0 0 0 0 0 0 1 -360 360;
8353 3633 0.00237 0.0138 0 0 0 0 0 0 1 -360 360;
8353 6904 0.00081 0.004591 0 476 0 0 0 0 1 -360 360;
8353 6625 0.002219 0.010469 0 0 0 0 0 0 1 -360 360;
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1872 7973 0.00088 0.006831 0 0 0 0 0 0 1 -360 360;
1872 4651 0.000349 0.00237 0 0 0 0 0 0 1 -360 360;
710 6499 0.00232 0.00924 0 381 0 0 0 0 1 -360 360;
710 3792 0.00812 0.03669 0 400 0 0 0 0 1 -360 360;
2193 6717 0.003521 0.02825 0 476 0 0 0 0 1 -360 360;
2193 4752 0.00264 0.017651 0 0 0 0 0 0 1 -360 360;
7644 6499 0.00486 0.02149 0 457 0 0 0 0 1 -360 360;
7644 6769 0.006831 0.034669 0 419 0 0 0 0 1 -360 360;
7644 7075 0.017211 0.108151 0 381 0 0 0 0 1 -360 360;
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3095 2951 0.003211 0.00176 0 0 0 0 0 0 1 -360 360;
3095 7820 0.001521 0.008031 0 0 0 0 0 0 1 -360 360;
5425 1898 0.0005 0.00441 0 1415 0 0 0 0 1 -360 360;
5425 1498 0.00247 0.02573 0 1711 0 0 0 0 1 -360 360;
5425 1280 0.00042 0.00367 0 1283 0 0 0 0 1 -360 360;
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7431 4279 0.00226 0.01676 0 457 0 0 0 0 1 -360 360;
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2343 5946 0.007281 0.035729 0 438 0 0 0 0 1 -360 360;
2236 5946 0.001919 0.00945 0 438 0 0 0 0 1 -360 360;
3821 1173 0.005211 0.02981 0 514 0 0 0 0 1 -360 360;
3821 6936 0.000659 0.00586 0 0 0 0 0 0 1 -360 360;

3821 6936 0.000591 0.00664 0 0 0 0 0 0 1 -360 360;
3821 2946 0.011969 0.07424 0 533 0 0 0 0 1 -360 360;
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4124 3378 0.001521 0.00718 0 438 0 0 0 0 1 -360 360;
4124 3378 0.001211 0.00613 0 476 0 0 0 0 1 -360 360;
4124 4809 0.00676 0.03725 0 419 0 0 0 0 1 -360 360;
4124 4750 0.00399 0.018091 0 381 0 0 0 0 1 -360 360;
6663 5217 0.000341 0.00339 0 0 0 0 0 0 1 -360 360;
6663 4096 0.001271 0.0102 0 0 0 0 0 0 1 -360 360;
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6632 2730 0.00544 0.05439 0 1251 0 0 0 0 1 -360 360;
6632 7508 0.00239 0.02598 0 1316 0 0 0 0 1 -360 360;
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2471 4906 0.011719 0.0337 0 400 0 0 0 0 1 -360 360;
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3193 2764 0.00385 0.04172 0 1185 0 0 0 0 1 -360 360;
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1458 477 0.00155 0.01272 0 1678 0 0 0 0 1 -360 360;
1458 8210 0.00117 0.01301 0 1349 0 0 0 0 1 -360 360;
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6454 6359 0.000151 0.0005 0 0 0 0 0 0 1 -360 360;
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4253 4651 0.000401 0.00239 0 0 0 0 0 0 1 -360 360;
4230 1912 0.001169 0.008349 0 514 0 0 0 0 1 -360 360;
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2642 3966 0.00314 0.02868 0 1349 0 0 0 0 1 -360 360;
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1793 8338 0.000711 0.00439 0 381 0 0 0 0 1 -360 360;
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976 4600 0.00067 0.00661 0 1119 0 0 0 0 1 -360 360;
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976 2800 0.00068 0.00648 0 1349 0 0 0 0 1 -360 360;
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1600 4011 0.00013 0.000961 0 533 0 0 0 0 1 -360 360;
5771 2235 0.00118 0.01285 0 1613 0 0 0 0 1 -360 360;
5771 5239 0.00062 0.00577 0 1086 0 0 0 0 1 -360 360;
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9216 1409 9.1e-05 0.000271 0 0 0 0 0 0 1 -360 360;
9216 6597 0.0003 0.002719 0 476 0 0 0 0 1 -360 360;
9216 6836 0.00049 0.002091 0 0 0 0 0 0 1 -360 360;
9216 15 0.000159 0.001461 0 572 0 0 0 0 1 -360 360;
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649 6836 0.000169 0.00061 0 514 0 0 0 0 1 -360 360;
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8417 5435 0.001159 0.009031 0 514 0 0 0 0 1 -360 360;
8417 4058 9.9e-05 0.00037 0 457 0 0 0 0 1 -360 360;
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5617 1471 0.00069 0.00389 0 0 0 0 0 0 1 -360 360;
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4542 8337 0.00031 0.00274 0 1316 0 0 0 0 1 -360 360;
4542 3966 0.00047 0.00563 0 1185 0 0 0 0 1 -360 360;
4542 3544 0.00066 0.00721 0 1152 0 0 0 0 1 -360 360;
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7510 2907 0.00243 0.01286 0 610 0 0 0 0 1 -360 360;
7510 4338 0.004521 0.02306 0 476 0 0 0 0 1 -360 360;
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9001 445 0.00668 0.0297 0 553 0 0 0 0 1 -360 360;
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3282 4855 0.002771 0.021409 0 381 0 0 0 0 1 -360 360;
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1409 5892 0.00026 0.00126 0 400 0 0 0 0 1 -360 360;
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2916 4315 0.00151 0.01827 0 1251 0 0 0 0 1 -360 360;
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2962 2437 0.00201 0.02546 0 1580 0 0 0 0 1 -360 360;
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693 5884 0.00242 0.02336 0 1218 0 0 0 0 1 -360 360;
693 3587 0.00165 0.01303 0 823 0 0 0 0 1 -360 360;
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6994 1909 0.00306 0.015521 0 457 0 0 0 0 1 -360 360;
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1021 257 0.01207 0.077901 0 0 0 0 0 0 1 -360 360;
1021 6936 0.014091 0.080581 0 495 0 0 0 0 1 -360 360;
1021 2946 0.003289 0.01481 0 0 0 0 0 0 1 -360 360;
1021 172 0.003349 0.0145 0 0 0 0 0 0 1 -360 360;
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3633 7820 0.00386 0.02406 0 0 0 0 0 0 1 -360 360;
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7417 7600 0.000841 0.004539 0 591 0 0 0 0 1 -360 360;
7417 3792 0.00701 0.03161 0 476 0 0 0 0 1 -360 360;
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51 2517 0.007729 0.025401 0 591 0 0 0 0 1 -360 360;
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8396 8806 0.00343 0.02573 0 1251 0 0 0 0 1 -360 360;
8396 8247 0.00151 0.01485 0 1185 0 0 0 0 1 -360 360;
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8079 4096 0.000531 0.004039 0 495 0 0 0 0 1 -360 360;
230 1802 0.00431 0.02226 0 419 0 0 0 0 1 -360 360;
3027 4081 0.00163 0.00899 0 553 0 0 0 0 1 -360 360;
4652 1280 0.00274 0.02428 0 1415 0 0 0 0 1 -360 360;
6315 6022 0.0093 0.056979 0 514 0 0 0 0 1 -360 360;
6315 8729 0.011281 0.080039 0 0 0 0 0 0 1 -360 360;
6315 5631 0.00449 0.02376 0 438 0 0 0 0 1 -360 360;
2622 8260 0.00014 0.00148 0 1744 0 0 0 0 1 -360 360;
6797 8301 0.0055 0.033659 0 419 0 0 0 0 1 -360 360;
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8301 6869 0.00143 0.011651 0 381 0 0 0 0 1 -360 360;
1501 4081 0.00126 0.009211 0 0 0 0 0 0 1 -360 360;
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7632 6625 0.003479 0.01456 0 0 0 0 0 0 1 -360 360;
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3293 7264 0.001409 0.01113 0 514 0 0 0 0 1 -360 360;

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4918 5233 0.008039 0.03375 0 381 0 0 0 0 1 -360 360;
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7766 5334 0.001419 0.010219 0 0 0 0 0 0 1 -360 360;
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7273 7148 0.01963 0.07736 0 438 0 0 0 0 1 -360 360;
7273 7437 0.01157 0.04694 0 457 0 0 0 0 1 -360 360;
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7222 4816 0.005521 0.031031 0 0 0 0 0 0 1 -360 360;
4402 3817 9.9e-05 0.00026 0 0 0 0 0 0 1 -360 360;
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6857 4550 0.00044 0.00665 0 921 0 0 0 0 1 -360 360;
6857 4339 0.00103 0.01516 0 1283 0 0 0 0 1 -360 360;
6857 7513 0.00101 0.01546 0 954 0 0 0 0 1 -360 360;
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6112 883 0.002341 0.018961 0 514 0 0 0 0 1 -360 360;
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3985 4110 0.0008 0.004401 0 629 0 0 0 0 1 -360 360;
3985 4829 0.008099 0.03519 0 610 0 0 0 0 1 -360 360;
3985 7857 0.00063 0.004591 0 514 0 0 0 0 1 -360 360;
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2489 2231 0.001211 0.00538 0 0 0 0 0 0 1 -360 360;
658 3793 0.00418 0.030159 0 572 0 0 0 0 1 -360 360;
658 8497 0.00324 0.02413 0 610 0 0 0 0 1 -360 360;
658 8497 0.003169 0.024591 0 629 0 0 0 0 1 -360 360;
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6313 7582 0.00313 0.02256 0 0 0 0 0 0 1 -360 360;
5944 8808 0.000831 0.00162 0 0 0 0 0 0 1 -360 360;
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7471 5241 0.00109 0.01629 0 823 0 0 0 0 1 -360 360;
7471 8200 4e-05 0.00063 0 1810 0 0 0 0 1 -360 360;
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455 3857 0.0062 0.04864 0 629 0 0 0 0 1 -360 360;
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455 6940 0.004979 0.0295 0 572 0 0 0 0 1 -360 360;
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3255 1803 8.1e-05 0.00063 0 0 0 0 0 0 1 -360 360;
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7380 2732 0.00386 0.02348 0 1283 0 0 0 0 1 -360 360;
7380 4787 0.00017 0.00104 0 1152 0 0 0 0 1 -360 360;
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26 5144 0.00041 0.00398 0 1316 0 0 0 0 1 -360 360;
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2558 7571 0.005849 0.032419 0 419 0 0 0 0 1 -360 360;
8834 1129 0.00406 0.01688 0 0 0 0 0 0 1 -360 360;
7377 3324 0.00113 0.0065 0 0 0 0 0 0 1 -360 360;
1265 4426 0.0068 0.04613 0 514 0 0 0 0 1 -360 360;
1265 1965 0.00337 0.02011 0 419 0 0 0 0 1 -360 360;
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6922 5482 0.003711 0.018521 0 438 0 0 0 0 1 -360 360;
6922 1295 0.000271 0.00145 0 457 0 0 0 0 1 -360 360;
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5589 4306 2e-05 0.00024 0 757 0 0 0 0 1 -360 360;
5589 1763 1e-05 0.00021 0 757 0 0 0 0 1 -360 360;
5589 3697 0.00286 0.03653 0 1645 0 0 0 0 1 -360 360;
5589 3794 0.00117 0.01183 0 1744 0 0 0 0 1 -360 360;
5589 3613 0.00103 0.01336 0 1481 0 0 0 0 1 -360 360;
5589 1502 0.00156 0.01969 0 1547 0 0 0 0 1 -360 360;
5589 6555 0.00449 0.05772 0 1777 0 0 0 0 1 -360 360;
5589 3608 0.00259 0.03469 0 1613 0 0 0 0 1 -360 360;
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1001 1979 6e-05 0.00095 0 0 0 0 0 0 1 -360 360;
1001 516 6e-05 0.000651 0 629 0 0 0 0 1 -360 360;
1001 3580 8.1e-05 0.000841 0 629 0 0 0 0 1 -360 360;
1001 3809 0.00274 0.020831 0 514 0 0 0 0 1 -360 360;
1001 5616 0.004781 0.027729 0 553 0 0 0 0 1 -360 360;
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1001 6697 0.00513 0.03014 0 514 0 0 0 0 1 -360 360;
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1001 892 0.00125 0.00707 0 572 0 0 0 0 1 -360 360;
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778 1910 0.00169 0.007091 0 0 0 0 0 0 1 -360 360;
778 6820 0.001031 0.00361 0 0 0 0 0 0 1 -360 360;
778 3071 0.00813 0.030961 0 0 0 0 0 0 1 -360 360;
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1198 29 0.0023 0.01581 0 1218 0 0 0 0 1 -360 360;
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7473 96 0.00364 0.01713 0 457 0 0 0 0 1 -360 360;
7473 1868 0.002169 0.012409 0 0 0 0 0 0 1 -360 360;
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2101 4541 0.00077 0.01184 0 0 0 0 0 0 1 -360 360;
2101 5144 0.00034 0.00426 0 0 0 0 0 0 1 -360 360;
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757 3906 0.00123 0.01146 0 1415 0 0 0 0 1 -360 360;
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757 8347 0.00156 0.01585 0 1777 0 0 0 0 1 -360 360;
757 2919 0.00226 0.02781 0 1481 0 0 0 0 1 -360 360;
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7342 7495 0.00599 0.03462 0 476 0 0 0 0 1 -360 360;
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5881 4031 0.002159 0.008349 0 0 0 0 0 0 1 -360 360;
8195 8334 0.00162 0.01651 0 1547 0 0 0 0 1 -360 360;
933 6357 0.01236 0.044211 0 400 0 0 0 0 1 -360 360;
933 6357 0.00825 0.03989 0 419 0 0 0 0 1 -360 360;
933 3775 0.02187 0.066961 0 0 0 0 0 0 1 -360 360;
933 3975 0.01212 0.06661 0 0 0 0 0 0 1 -360 360;
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1595 1414 0.005021 0.035659 0 419 0 0 0 0 1 -360 360;
3114 3656 0.00174 0.007901 0 0 0 0 0 0 1 -360 360;
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5237 1478 0.003271 0.016669 0 457 0 0 0 0 1 -360 360;
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6405 3894 0.00944 0.042169 0 0 0 0 0 0 1 -360 360;

4435 4734 0.00068 0.00652 0 856 0 0 0 0 1 -360 360;
4435 3483 0.00188 0.02281 0 1382 0 0 0 0 1 -360 360;
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2079 7052 0.001669 0.00981 0 514 0 0 0 0 1 -360 360;
2079 772 0.002229 0.01599 0 591 0 0 0 0 1 -360 360;
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8405 4580 0.00369 0.02681 0 533 0 0 0 0 1 -360 360;
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2291 3656 0.002919 0.01912 0 533 0 0 0 0 1 -360 360;
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314 5789 0.000901 0.00395 0 0 0 0 0 0 1 -360 360;
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4 1813 0.00361 0.015211 0 438 0 0 0 0 1 -360 360;
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3037 8485 0.001271 0.007419 0 476 0 0 0 0 1 -360 360;
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718 6982 0.008401 0.0448 0 572 0 0 0 0 1 -360 360;
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7797 2020 0.00013 0.000461 0 0 0 0 0 0 1 -360 360;
871 4031 0.00262 0.020289 0 514 0 0 0 0 1 -360 360;
871 2878 0.00164 0.01194 0 553 0 0 0 0 1 -360 360;
7353 9164 0.006479 0.02845 0 514 0 0 0 0 1 -360 360;
7974 2012 0.00294 0.014419 0 495 0 0 0 0 1 -360 360;
7974 2012 0.00238 0.01463 0 495 0 0 0 0 1 -360 360;
7974 1750 0.002219 0.00993 0 476 0 0 0 0 1 -360 360;
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4504 7903 0.00464 0.030979 0 0 0 0 0 0 1 -360 360;
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5837 449 0.00093 0.00869 0 1448 0 0 0 0 1 -360 360;
5837 1817 0.0022 0.03485 0 1678 0 0 0 0 1 -360 360;
5837 2458 0.00074 0.00941 0 1843 0 0 0 0 1 -360 360;
5837 6427 0.00087 0.00884 0 1678 0 0 0 0 1 -360 360;
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6194 7702 0.008479 0.032841 0 0 0 0 0 0 1 -360 360;
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4031 2872 0.001031 0.004099 0 0 0 0 0 0 1 -360 360;
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5365 4100 0.001719 0.011531 0 514 0 0 0 0 1 -360 360;
5365 1556 9.1e-05 0.00056 0 400 0 0 0 0 1 -360 360;
3894 3865 0.00476 0.025289 0 0 0 0 0 0 1 -360 360;
128 1554 0.000219 0.00164 0 419 0 0 0 0 1 -360 360;
198 7994 0.002159 0.01163 0 0 0 0 0 0 1 -360 360;
198 1554 0.00295 0.01539 0 400 0 0 0 0 1 -360 360;
2985 3133 0.007789 0.033039 0 400 0 0 0 0 1 -360 360;
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6486 8992 0.00162 0.013229 0 438 0 0 0 0 1 -360 360;
8485 594 0.007919 0.04194 0 438 0 0 0 0 1 -360 360;
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1917 2021 0.00036 0.00261 0 476 0 0 0 0 1 -360 360;
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805 3327 0.00239 0.01414 0 610 0 0 0 0 1 -360 360;

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3530 1880 0.001071 0.003058 0 0 0 0 0 0 1 -360 360;
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