Keuwl Accelerometer Data File

2024-04-29 16:17:55

Time (s), X (m/s2), Y (m/s2), Z (m/s2), R (m/s2), Theta (deg), Phi (deg)

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3.7368834,-3.217748,9.143574,-1.138385,9.759855,96.698204,109.387665

3.7392273,-3.203391,9.177073,-1.157528,9.788783,96.791138,109.242287

3.7415721,-3.155535,9.191430,-1.167099,9.787845,96.848221,108.947998

3.7439165,-3.193820,9.196216,-1.195813,9.808203,97.002907,109.151970

3.7462611,-3.179463,9.181859,-1.281955,9.800965,97.515755,109.099777

3.7486055,-3.208177,9.201001,-1.310669,9.832023,97.660683,109.222488

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3.7556381,-3.212963,9.191430,-1.444667,9.843402,98.439499,109.267616

3.7579832,-3.198606,9.191430,-1.454238,9.840136,98.498665,109.187828

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4.0111847,-3.677170,9.023932,-1.152742,9.812326,96.746628,112.170448

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4.1026149,-3.256033,9.110074,-1.095315,9.736268,96.459358,109.667404

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4.1541967,-3.021537,9.186645,-0.961317,9.718450,95.676788,108.206314

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4.1588855,-3.107678,9.177073,-1.009173,9.741395,95.946304,108.707901

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4.1659198,-3.260819,9.124431,-0.966102,9.737635,95.693863,109.665482

4.1682644,-3.279962,9.110074,-0.942174,9.728272,95.557755,109.800743

4.1706080,-3.313461,9.076574,-0.908674,9.705097,95.372391,110.054932

4.1729531,-3.337389,9.090932,-0.841675,9.720680,94.967232,110.158791

4.1752973,-3.342175,9.095717,-0.827318,9.725568,94.879837,110.175598

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4.1799860,-3.385246,9.028718,-0.832104,9.678329,94.932152,110.553131

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4.1917071,-3.480959,9.028718,-0.875175,9.716004,95.167953,111.083794

4.1940513,-3.514458,9.028718,-0.903889,9.730682,95.329926,111.268639

4.1963959,-3.461816,9.057432,-0.923031,9.740290,95.437752,110.917221

4.1987400,-3.428317,9.033504,-0.937388,9.707536,95.541283,110.782318

4.2010837,-3.409174,9.038289,-0.975673,9.709021,95.767471,110.666092

4.2034278,-3.399603,9.019147,-0.980459,9.688323,95.808281,110.653023

4.2057719,-3.380460,9.052647,-0.980459,9.712838,95.793571,110.476753

4.2081165,-3.351746,9.062218,-0.975673,9.711329,95.766098,110.297386

4.2104607,-3.385246,9.086145,-0.956531,9.743350,95.633957,110.433998

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4.2221842,-3.366103,9.071789,-0.932603,9.720995,95.505249,110.357460

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4.2362509,-3.332604,9.100503,-1.076172,9.751080,96.336319,110.112724

4.2385950,-3.313461,9.095717,-1.095315,9.742218,96.455399,110.016075

4.2409396,-3.337389,9.100503,-1.138385,9.759777,96.698257,110.139290

4.2432842,-3.380460,9.100503,-1.157528,9.776837,96.799477,110.377953

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4.2479734,-3.351746,9.095717,-1.143171,9.760795,96.725838,110.228699

4.2503176,-3.390032,9.114860,-1.138385,9.791266,96.676613,110.401360

4.2526617,-3.375674,9.110074,-1.143171,9.782406,96.710915,110.331833

4.2550063,-3.399603,9.090932,-1.162314,9.775138,96.828918,110.503555

4.2573504,-3.375674,9.090932,-1.147957,9.765143,96.751106,110.371132

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4.3534722,-3.390032,9.014361,-0.946960,9.677177,95.615662,110.609779

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4.3605056,-3.390032,9.033504,-0.975673,9.697858,95.774132,110.569763

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4.3651943,-3.394817,9.062218,-1.047458,9.733742,96.177620,110.536560

4.3675389,-3.366103,9.052647,-1.066601,9.716928,96.301903,110.396965

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5.1318097,-3.413960,9.086145,-1.037887,9.761679,96.103371,110.592827

5.1341548,-3.461816,9.062218,-1.009173,9.753276,95.939034,110.907127

5.1364994,-3.461816,9.086145,-1.028316,9.777507,96.037048,110.856812

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5.1411886,-3.437888,9.076574,-1.047458,9.762195,96.159546,110.744926

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5.1505656,-3.409174,9.052647,-1.090529,9.734584,96.432137,110.636078

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5.1646314,-3.380460,9.105289,-1.037887,9.767856,96.099495,110.368118

5.1669755,-3.323032,9.090932,-1.052244,9.736262,96.204346,110.079010

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5.1716638,-3.251248,9.114860,-1.080958,9.737543,96.373497,109.631195

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5.1763520,-3.232105,9.124431,-1.157528,9.748929,96.819038,109.505440

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5.2044840,-3.356532,9.067003,-0.932603,9.713218,95.509674,110.314148

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8.3881788,-3.031108,9.167501,-0.942174,9.701464,95.573158,108.295753

8.3905230,-3.007180,9.157930,-0.903889,9.681314,95.357178,108.178574

8.3928661,-2.949752,9.177073,-0.918246,9.683125,95.441505,107.818764

8.3952112,-2.959323,9.172287,-0.884746,9.678390,95.244995,107.881645

8.3975554,-2.954538,9.186645,-0.846461,9.687117,95.012901,107.828430

8.3998985,-2.925824,9.143574,-0.836890,9.636689,94.982079,107.743988

8.4022436,-2.906681,9.205787,-0.793819,9.686354,94.700790,107.523254

8.4045887,-2.925824,9.172287,-0.798605,9.660697,94.741783,107.691917

8.4069328,-2.911467,9.162716,-0.760319,9.644174,94.521729,107.627731

8.4092770,-2.868396,9.205787,-0.750748,9.671495,94.452057,107.306313

8.4116220,-2.868396,9.181859,-0.726820,9.646891,94.320892,107.348709

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8.4163113,-2.830111,9.191430,-0.717249,9.643980,94.265175,107.113998

8.4186554,-2.758326,9.181859,-0.707677,9.613309,94.221611,106.720818

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8.4467878,-2.830111,9.253643,-0.856032,9.714537,95.055389,107.005600

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8.4538221,-2.973680,9.253643,-0.894317,9.760762,95.257027,107.814934

8.4561653,-3.016751,9.287143,-0.918246,9.807904,95.372070,107.995399

8.4585104,-3.055036,9.272786,-0.937388,9.807982,95.484360,108.235115

8.4608545,-3.078964,9.210572,-0.951745,9.758099,95.597176,108.484055

8.4631996,-3.093322,9.220144,-0.999602,9.776446,95.868515,108.546394

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8.4725780,-3.050251,9.181859,-0.999602,9.726755,95.898598,108.376694

8.4749222,-3.026322,9.196216,-0.956531,9.728513,95.642578,108.215523

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8.4819555,-2.868396,9.201001,-0.937388,9.683224,95.555237,107.314774

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8.5100880,-2.753541,9.253643,-0.999602,9.706240,95.911110,106.571053

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8.8523684,-3.045465,9.201001,-0.856032,9.729649,95.047516,108.314171

8.8547125,-3.045465,9.162716,-0.865604,9.694302,95.122757,108.385559

8.8570566,-3.026322,9.162716,-0.841675,9.686197,94.984962,108.277695

8.8594007,-3.007180,9.172287,-0.817747,9.687243,94.842377,108.151985

8.8617449,-3.031108,9.181859,-0.789033,9.701377,94.665138,108.269051

8.8640890,-3.059822,9.196216,-0.784248,9.723577,94.626175,108.403633

8.8664341,-3.069393,9.172287,-0.817747,9.706737,94.832626,108.502182

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8.8711233,-3.093322,9.205787,-0.846461,9.748417,94.981300,108.573341

8.8734674,-3.131607,9.172287,-0.832104,9.727806,94.907005,108.850952

8.8758125,-3.136392,9.186645,-0.803390,9.740475,94.731110,108.850304

8.8781576,-3.179463,9.196216,-0.779462,9.761502,94.579979,109.072113

8.8805017,-3.193820,9.191430,-0.745962,9.759064,94.383842,109.161217

8.8828468,-3.232105,9.153145,-0.769891,9.737520,94.534790,109.448853

8.8851910,-3.208177,9.167501,-0.750748,9.741617,94.419945,109.287544

8.8875351,-3.208177,9.157930,-0.774676,9.734486,94.564461,109.306213

8.8898802,-3.217748,9.143574,-0.774676,9.724144,94.569321,109.387665

8.8922253,-3.193820,9.153145,-0.803390,9.727589,94.737389,109.235489

8.8945704,-3.174677,9.105289,-0.803390,9.676275,94.762566,109.221771

8.8969145,-3.184249,9.119645,-0.836890,9.695760,94.951645,109.247345

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8.9016037,-3.169892,9.114860,-0.851247,9.687801,95.040962,109.176239

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8.9320841,-2.959323,9.191430,-0.932603,9.701016,95.516624,107.846771

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9.0329008,-3.117250,9.105289,-0.769891,9.654857,94.573692,108.898941

9.0352440,-3.169892,9.124431,-0.765105,9.689626,94.528862,109.157585

9.0375891,-3.184249,9.134003,-0.793819,9.705647,94.691429,109.219315

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9.3165903,-3.236891,9.191430,-0.927817,9.788804,95.438858,109.400429

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9.3236227,-3.232105,9.119645,-0.899103,9.717140,95.309029,109.514900

9.3259678,-3.260819,9.105289,-0.856032,9.709377,95.058083,109.703644

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9.3306580,-3.246462,9.110074,-0.875175,9.710761,95.170753,109.614014

9.3330021,-3.241677,9.100503,-0.889532,9.701489,95.260849,109.606331

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9.3376923,-3.270390,9.110074,-0.923031,9.723214,95.447327,109.747437

9.3400364,-3.256033,9.134003,-0.903889,9.739034,95.325340,109.619820

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9.3447256,-3.241677,9.134003,-0.932603,9.736952,95.496201,109.539879

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9.3494148,-3.198606,9.114860,-0.918246,9.703346,95.430130,109.337097

9.3517599,-3.208177,9.105289,-0.884746,9.694404,95.236305,109.409508

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9.3564482,-3.165106,9.114860,-0.846461,9.685818,95.013580,109.149391

9.3587933,-3.155535,9.134003,-0.832104,9.699474,94.921371,109.058556

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9.3634815,-3.184249,9.124431,-0.803390,9.697429,94.752151,109.237991

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9.3705149,-3.141178,9.153145,-0.865604,9.715777,95.111404,108.941208

9.3728600,-3.102893,9.129216,-0.889532,9.683068,95.270889,108.772179

9.3752041,-3.107678,9.148359,-0.908674,9.704424,95.372765,108.762520

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9.3939610,-3.208177,9.162716,-0.913460,9.751009,95.375267,109.296875

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10.2543497,-3.433102,9.086145,-0.956531,9.760081,95.624268,110.698532

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18.1740055,-2.973680,9.181859,-1.033101,9.706524,96.109772,107.945313

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18.6382179,-2.657828,9.330214,-1.152742,9.769634,96.776253,105.900269

18.6405640,-2.681756,9.358928,-1.095315,9.796992,96.419151,105.989403

18.6429081,-2.700899,9.373284,-1.052244,9.811245,96.156738,106.074265

18.6452541,-2.748755,9.411570,-1.018744,9.857542,95.931923,106.281036

18.6475983,-2.806183,9.397213,-0.970888,9.855196,95.653679,106.626602

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18.6522865,-2.882753,9.368499,-0.985245,9.851383,95.739792,107.103500

18.6546307,-2.911467,9.334999,-0.980459,9.827519,95.725739,107.322029

18.6569767,-2.873182,9.301499,-0.999602,9.786331,95.862564,107.165627

18.6593208,-2.868396,9.268001,-0.994816,9.752600,95.854652,107.197014

18.6616669,-2.825325,9.263215,-0.980459,9.734008,95.780930,106.961960

18.6640110,-2.777469,9.234501,-0.923031,9.687225,95.467628,106.739754

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18.6686993,-2.653042,9.191430,-0.899103,9.608819,95.369057,106.100418

18.6710434,-2.633899,9.205787,-0.875175,9.615085,95.222351,105.966537

18.6733875,-2.576472,9.201001,-0.860818,9.593625,95.147964,105.643349

18.6757317,-2.538187,9.196216,-0.827318,9.575867,94.956314,105.429688

18.6780777,-2.504687,9.205787,-0.812962,9.575013,94.870529,105.220459

18.6804218,-2.475973,9.210572,-0.793819,9.570539,94.757805,105.046463

18.6827660,-2.490330,9.220144,-0.765105,9.581138,94.580254,105.114738

18.6851120,-2.495116,9.248857,-0.774676,9.610780,94.623337,105.097588

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18.6921444,-2.542972,9.234501,-0.726820,9.605779,94.339424,105.396347

18.6944904,-2.605186,9.239286,-0.702892,9.625251,94.187798,105.746773

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18.7015247,-2.648257,9.258429,-0.760319,9.659702,94.514442,105.962509

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18.7085571,-2.700899,9.282357,-0.793819,9.699854,94.694237,106.223473

18.7109032,-2.720041,9.325428,-0.793819,9.746404,94.671768,106.260910

18.7132454,-2.767898,9.334999,-0.769891,9.767097,94.521027,106.515488

18.7155895,-2.801397,9.354142,-0.808176,9.798007,94.731346,106.672012

18.7179356,-2.849254,9.363713,-0.832104,9.822921,94.859375,106.924309

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18.7273102,-3.007180,9.311071,-0.836890,9.820365,94.888664,107.898804

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18.7460690,-2.715255,9.268001,-0.908674,9.700213,95.375107,106.329056

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18.7648239,-2.763112,9.224930,-0.832104,9.665739,94.938591,106.674355

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18.7882671,-2.892324,9.287143,-0.918246,9.770350,95.392784,107.298325

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18.8023338,-3.021537,9.354142,-1.152742,9.897397,96.688377,107.901283

18.8046780,-3.064608,9.344570,-1.191028,9.906128,96.905457,108.157211

18.8070240,-3.083750,9.320642,-1.210170,9.891835,97.027184,108.306885

18.8093662,-3.088536,9.311071,-1.243670,9.888469,97.225204,108.350983

18.8117104,-3.074179,9.325428,-1.229313,9.895726,97.136093,108.245087

18.8140564,-3.098107,9.291928,-1.229313,9.871646,97.153595,108.439377

18.8164005,-3.117250,9.268001,-1.214956,9.853385,97.082787,108.590134

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18.8914204,-2.767898,9.291928,-0.808176,9.729046,94.764954,106.587845

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18.9007988,-2.868396,9.311071,-0.803390,9.775949,94.713898,107.122124

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19.1024189,-2.700899,9.148359,-0.736391,9.567110,94.414490,106.448349

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19.1071072,-2.696113,9.148359,-0.678963,9.561511,94.072006,106.420769

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19.1188297,-2.796612,9.191430,-0.707677,9.633495,94.212746,106.923065

19.1211739,-2.820540,9.205787,-0.722034,9.655220,94.288681,107.034416

19.1235199,-2.801397,9.258429,-0.745962,9.701690,94.409821,106.834663

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19.1352406,-2.978466,9.296714,-0.903889,9.803936,95.289986,107.764336

19.1375847,-2.983252,9.282357,-0.946960,9.795850,95.547417,107.816856

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19.1422749,-2.935395,9.268001,-0.942174,9.767297,95.535477,107.574226

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19.1727524,-2.906681,9.205787,-1.057029,9.711468,96.248650,107.523254

19.1750984,-2.868396,9.201001,-1.057029,9.695537,96.258957,107.314774

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19.2313633,-2.830111,9.301499,-0.937388,9.767606,95.507103,106.923119

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19.2383976,-2.849254,9.306286,-0.942174,9.778185,95.529297,107.022720

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19.5689621,-2.801397,9.253643,-1.100100,9.730773,96.491379,106.842873

19.5713081,-2.830111,9.268001,-1.090529,9.751647,96.420830,106.980766

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19.5759983,-2.758326,9.282357,-1.057029,9.741038,96.229607,106.549736

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20.0284824,-2.791826,9.330214,-1.028316,9.793090,96.027405,106.658455

20.0308285,-2.753541,9.311071,-1.042673,9.765511,96.129204,106.474403

20.0331707,-2.729612,9.282357,-1.037887,9.730886,96.122757,106.386742

20.0355167,-2.734398,9.277572,-1.018744,9.725642,96.012665,106.421936

20.0378609,-2.710470,9.282357,-1.004387,9.722016,95.929840,106.277931

20.0402031,-2.667399,9.282357,-0.961317,9.705736,95.684250,106.032654

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20.0589581,-2.638685,9.301499,-1.009173,9.721059,95.958786,105.837784

20.0613022,-2.715255,9.330214,-1.013959,9.770037,95.957024,106.225922

20.0636444,-2.734398,9.306286,-1.023530,9.753538,96.023674,106.373985

20.0659904,-2.772683,9.277572,-1.018744,9.736475,96.005951,106.639236

20.0683346,-2.858825,9.311071,-1.076172,9.799341,96.304985,107.068321

20.0706787,-2.858825,9.287143,-1.119243,9.781442,96.570473,107.109734

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20.0753670,-2.897110,9.306286,-1.104886,9.809229,96.467369,107.291718

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20.0800552,-2.882753,9.277572,-1.052244,9.771940,96.181602,107.261215

20.0824013,-2.877967,9.282357,-1.018744,9.771524,95.984329,107.225899

20.0847454,-2.801397,9.268001,-1.004387,9.734087,95.922462,106.818260

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20.1011524,-2.815754,9.382855,-1.104886,9.858357,96.435005,106.704269

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20.1058426,-2.887539,9.392427,-1.066601,9.883987,96.194962,107.089134

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20.1410084,-2.696113,9.229715,-1.080958,9.676009,96.414200,106.283730

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20.1550770,-2.767898,9.320642,-1.042673,9.778691,96.120911,106.539536

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20.1621113,-2.925824,9.301499,-1.047458,9.806911,96.131355,107.461174

20.1644554,-2.916253,9.301499,-1.042673,9.803550,96.105331,107.407509

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20.1785221,-2.911467,9.268001,-1.071386,9.773451,96.293533,107.439682

20.1808662,-2.868396,9.258429,-1.057029,9.750051,96.223824,107.213745

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20.1878986,-2.772683,9.205787,-0.932603,9.659401,95.540466,106.761734

20.1902447,-2.729612,9.224930,-0.894317,9.661776,95.311043,106.483231

20.1925888,-2.705684,9.224930,-0.860818,9.651998,95.116753,106.346481

20.1949348,-2.710470,9.224930,-0.865604,9.653769,95.144325,106.373848

20.1972790,-2.710470,9.244072,-0.875175,9.672923,95.191032,106.341751

20.1996250,-2.700899,9.253643,-0.846461,9.676842,95.018242,106.271156

20.2019691,-2.696113,9.196216,-0.832104,9.619346,94.962471,106.339890

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20.2207241,-2.796612,9.320642,-0.937388,9.776201,95.502243,106.701607

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20.2254143,-2.825325,9.354142,-0.994816,9.822021,95.813126,106.806419

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20.3168488,-2.605186,9.358928,-1.124028,9.779569,96.599960,105.555275

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21.4187698,-2.777469,9.287143,-1.004387,9.745468,95.915520,106.650139

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21.4234581,-2.801397,9.210572,-0.994816,9.678436,95.899673,106.917145

21.4258022,-2.815754,9.244072,-1.004387,9.715458,95.933861,106.940788

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21.4328346,-2.844468,9.268001,-1.018744,9.748060,95.998787,107.061920

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21.4375229,-2.868396,9.263215,-1.023530,9.751024,96.025230,107.205376

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21.4539356,-2.815754,9.224930,-0.970888,9.693833,95.748108,106.973923

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21.5266151,-2.739184,9.234501,-1.033101,9.687437,96.121857,106.521675

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21.8782997,-2.772683,9.268001,-1.090529,9.735136,96.431770,106.655464

21.8806458,-2.758326,9.272786,-1.095315,9.736152,96.459435,106.565880

21.8829899,-2.734398,9.287143,-1.076172,9.740950,96.342941,106.405922

21.8853321,-2.753541,9.268001,-1.080958,9.728633,96.379364,106.546783

21.8876781,-2.734398,9.253643,-1.066601,9.707959,96.307747,106.462105

21.8900223,-2.763112,9.239286,-1.042673,9.699813,96.170883,106.649879

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21.8947124,-2.758326,9.248857,-1.071386,9.710695,96.334373,106.606384

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21.9134674,-2.729612,9.224930,-1.042673,9.676636,96.185715,106.483231

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21.9439507,-2.758326,9.272786,-1.009173,9.726837,95.955231,106.565880

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22.0166321,-2.930609,9.177073,-1.205384,9.708764,97.131920,107.710381

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22.0306988,-2.935395,9.272786,-1.100100,9.788326,96.453049,107.565720

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22.0353870,-2.897110,9.315857,-1.018744,9.808990,95.961388,107.275009

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22.1033764,-2.667399,9.239286,-0.918246,9.660363,95.454369,106.103523

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22.3425159,-2.667399,9.272786,-0.956531,9.696109,95.661491,106.048347

22.3448582,-2.653042,9.282357,-0.923031,9.698081,95.461487,105.950760

22.3472042,-2.638685,9.296714,-0.956531,9.711154,95.652695,105.845528

22.3495483,-2.676970,9.330214,-0.994816,9.757496,95.851700,106.008934

22.3518944,-2.643471,9.330214,-1.018744,9.750829,95.997078,105.818687

22.3542385,-2.653042,9.306286,-1.066601,9.735668,96.289719,105.911827

22.3565845,-2.676970,9.330214,-1.047458,9.763002,96.159035,106.008934

22.3589287,-2.700899,9.325428,-1.023530,9.762483,96.018135,106.152458

22.3612728,-2.681756,9.320642,-1.018744,9.752130,95.996269,106.051704

22.3636169,-2.662613,9.311071,-1.013959,9.737231,95.977165,105.958519

22.3659611,-2.672185,9.311071,-1.013959,9.739853,95.975555,106.012955

22.3683071,-2.614757,9.272786,-0.994816,9.685617,95.895287,105.747490

22.3706512,-2.629114,9.263215,-1.023530,9.683336,96.067505,105.845161

22.3729954,-2.609971,9.268001,-0.994816,9.679745,95.898872,105.727806

22.3753395,-2.629114,9.268001,-0.990030,9.684433,95.867546,105.837395

22.3776836,-2.648257,9.268001,-0.999602,9.690630,95.920670,105.946861

22.3800297,-2.667399,9.220144,-1.028316,9.653161,96.115112,106.135223

22.3823738,-2.672185,9.248857,-1.047458,9.683961,96.209503,106.115089

22.3847179,-2.686542,9.253643,-1.042673,9.691985,96.175880,106.189209

22.3870621,-2.686542,9.253643,-1.042673,9.691985,96.175880,106.189209

22.3894062,-2.676970,9.268001,-1.052244,9.704082,96.224998,106.110840

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22.3940964,-2.676970,9.296714,-1.071386,9.733598,96.319405,106.063652

22.3964405,-2.691327,9.296714,-1.109671,9.741842,96.540634,106.145325

22.3987846,-2.748755,9.272786,-1.114457,9.735617,96.573181,106.511536

22.4011307,-2.791826,9.311071,-1.080958,9.780533,96.345367,106.690804

22.4034729,-2.806183,9.282357,-1.071386,9.756264,96.304665,106.820778

22.4058170,-2.825325,9.311071,-1.080958,9.790148,96.339111,106.879745

22.4081631,-2.849254,9.287143,-1.071386,9.773287,96.293640,107.055779

22.4105053,-2.916253,9.349357,-1.085743,9.853621,96.326111,107.323753

22.4128513,-2.944967,9.330214,-1.076172,9.842960,96.276932,107.517654

22.4151955,-2.930609,9.339785,-1.095315,9.849861,96.384552,107.420654

22.4175396,-2.897110,9.306286,-1.109671,9.809770,96.495148,107.291718

22.4198837,-2.863611,9.325428,-1.090529,9.815963,96.378586,107.070442

22.4222279,-2.820540,9.315857,-1.028316,9.787648,96.030769,106.844612

22.4245739,-2.830111,9.306286,-0.994816,9.777840,95.839485,106.914909

22.4269180,-2.787040,9.272786,-0.942174,9.728302,95.557739,106.728745

22.4292641,-2.791826,9.234501,-0.927817,9.691808,95.493454,106.821411

22.4316082,-2.758326,9.253643,-0.937388,9.701390,95.544807,106.598267

22.4339504,-2.758326,9.224930,-0.966102,9.676830,95.729767,106.647079

22.4362965,-2.748755,9.239286,-0.951745,9.686377,95.638756,106.568123

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22.4409866,-2.763112,9.268001,-0.966102,9.719258,95.704666,106.601143

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22.4456730,-2.743969,9.258429,-0.961317,9.704226,95.685135,106.508522

22.4480171,-2.758326,9.239286,-0.980459,9.691959,95.806091,106.622635

22.4503613,-2.743969,9.210572,-0.951745,9.657630,95.655594,106.589592

22.4527073,-2.710470,9.229715,-0.966102,9.667867,95.735092,106.365814

22.4550495,-2.724827,9.229715,-0.990030,9.674321,95.873695,106.447830

22.4573936,-2.715255,9.268001,-0.975673,9.706718,95.768845,106.329056

22.4597378,-2.724827,9.296714,-0.985245,9.737776,95.806984,106.335632

22.4620819,-2.753541,9.291928,-0.975673,9.740321,95.748871,106.506500

22.4644279,-2.758326,9.296714,-0.966102,9.745286,95.689384,106.525574

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22.4691162,-2.796612,9.339785,-0.975673,9.798191,95.714806,106.669273

22.4714603,-2.806183,9.325428,-0.994816,9.789174,95.832703,106.747452

22.4738045,-2.806183,9.287143,-1.013959,9.754681,95.966438,106.812599

22.4761505,-2.782254,9.291928,-0.990030,9.749925,95.827995,106.669121

22.4784946,-2.787040,9.268001,-1.009173,9.730460,95.953011,106.736900

22.4808388,-2.801397,9.291928,-1.037887,9.760377,96.104187,106.777382

22.4831829,-2.720041,9.320642,-1.033101,9.764235,96.073524,106.268814

22.4855270,-2.662613,9.291928,-1.042673,9.721965,96.156769,105.989723

22.4878712,-2.676970,9.291928,-1.057029,9.727456,96.238335,106.071495

22.4902153,-2.648257,9.282357,-1.052244,9.709925,96.221237,105.923447

22.4925613,-2.609971,9.311071,-1.071386,9.729125,96.322319,105.658630

22.4949036,-2.638685,9.306286,-1.100100,9.735494,96.488220,105.830048

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22.5019379,-2.633899,9.296714,-1.066601,9.721313,96.299049,105.818230

22.5042839,-2.653042,9.306286,-1.080958,9.737251,96.373688,105.911827

22.5066261,-2.672185,9.301499,-1.047458,9.734250,96.177299,106.028587

22.5089722,-2.648257,9.306286,-1.061815,9.733841,96.262566,105.884575

22.5113163,-2.700899,9.287143,-1.028316,9.726423,96.068878,106.215553

22.5136604,-2.681756,9.268001,-1.052244,9.705404,96.224144,106.138145

22.5160065,-2.672185,9.291928,-1.100100,9.730916,96.491287,106.044243

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22.5206947,-2.720041,9.311071,-1.095315,9.761885,96.442337,106.284653

22.5230389,-2.753541,9.339785,-1.066601,9.795468,96.251167,106.426491

22.5253849,-2.801397,9.330214,-1.071386,9.800438,96.276131,106.712387

22.5277271,-2.801397,9.311071,-1.037887,9.778604,96.092766,106.744827

22.5300713,-2.806183,9.330214,-1.042673,9.798710,96.108360,106.739342

22.5324173,-2.830111,9.296714,-1.076172,9.777349,96.319229,106.931328

22.5347595,-2.868396,9.287143,-1.080958,9.779938,96.345757,107.163651

22.5371056,-2.887539,9.301499,-1.061815,9.797103,96.221970,107.246330

22.5394497,-2.863611,9.287143,-0.999602,9.769876,95.872475,107.136696

22.5417938,-2.873182,9.220144,-0.942174,9.703295,95.572105,107.308083

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22.5464821,-2.839682,9.215358,-0.870389,9.682158,95.157639,107.126511

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22.5511723,-2.767898,9.177073,-0.870389,9.624838,95.188438,106.783836

22.5535183,-2.753541,9.191430,-0.889532,9.636163,95.296616,106.677002

22.5558624,-2.763112,9.191430,-0.884746,9.638462,95.266785,106.731735

22.5582066,-2.767898,9.201001,-0.913460,9.651637,95.430771,106.742638

22.5605507,-2.772683,9.186645,-0.908674,9.638875,95.409409,106.794693

22.5628948,-2.782254,9.196216,-0.937388,9.653498,95.572403,106.832848

22.5652390,-2.815754,9.191430,-0.956531,9.660528,95.682411,107.032211

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22.5769615,-2.877967,9.258429,-0.908674,9.737909,95.354233,107.267769

22.5793056,-2.877967,9.248857,-0.889532,9.727041,95.246994,107.284576

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22.5910301,-2.758326,9.244072,-0.985245,9.697007,95.831482,106.614510

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22.5957184,-2.705684,9.296714,-0.985245,9.732436,95.810181,106.226929

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22.6004086,-2.710470,9.272786,-1.004387,9.712878,95.935440,106.293839

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22.6050987,-2.691327,9.311071,-1.076172,9.751792,96.335854,106.121719

22.6074409,-2.681756,9.301499,-1.047458,9.736882,96.175621,106.083031

22.6097870,-2.686542,9.311071,-1.057029,9.748378,96.224892,106.094543

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22.6144753,-2.681756,9.339785,-1.071386,9.776055,96.291847,106.020493

22.6168194,-2.705684,9.330214,-1.114457,9.778324,96.544350,106.171715

22.6191635,-2.753541,9.311071,-1.119243,9.773983,96.575508,106.474403

22.6215096,-2.758326,9.330214,-1.133600,9.795218,96.645729,106.469460

22.6238537,-2.806183,9.325428,-1.143171,9.805362,96.695129,106.747452

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22.6613674,-2.758326,9.287143,-1.004387,9.740030,95.918839,106.541672

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22.8067245,-2.863611,9.263215,-1.119243,9.760129,96.584877,107.178360

22.8090687,-2.801397,9.263215,-1.124028,9.742608,96.625107,106.826454

22.8114147,-2.801397,9.301499,-1.133600,9.780121,96.656029,106.761093

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22.8161011,-2.772683,9.306286,-1.119243,9.774837,96.574928,106.590721

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22.8207912,-2.787040,9.306286,-1.104886,9.777286,96.488594,106.671867

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22.8254795,-2.715255,9.334999,-1.095315,9.783381,96.428123,106.218040

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22.8301697,-2.686542,9.291928,-1.047458,9.729059,96.180603,106.125977

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23.2685566,-2.748755,9.210572,-0.975673,9.661379,95.796005,106.616936

23.2709007,-2.787040,9.205787,-1.004387,9.670724,95.961403,106.843620

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23.2755909,-2.691327,9.210572,-0.990030,9.646660,95.890602,106.288353

23.2779331,-2.739184,9.186645,-1.018744,9.640302,96.066086,106.603012

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23.2826233,-2.767898,9.201001,-1.013959,9.661666,96.024086,106.742638

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24.6704903,-2.830111,9.196216,-1.176671,9.693527,96.972168,107.105606

24.6728344,-2.844468,9.196216,-1.171885,9.697148,96.941071,107.187286

24.6751804,-2.830111,9.191430,-1.128814,9.683291,96.694382,107.113998

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