Keuwl Accelerometer Data File

2024-04-18 16:54:19

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

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4.9767208,-0.204586,9.971490,1.065703,10.030363,83.900940,91.175377

4.9792657,-0.209372,9.952348,1.065703,10.011433,83.889366,91.205177

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4.9843388,-0.230907,9.918848,1.077667,9.979892,83.800888,91.333588

4.9868555,-0.168395,9.875777,1.099203,9.938188,83.649864,90.976875

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12.4899158,-0.362513,9.727123,1.736292,9.887520,79.886169,92.134323

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13.0082607,-0.527916,9.538090,1.748256,9.711347,79.628960,93.167992

13.0107765,-0.537488,9.569197,1.762613,9.745010,79.579361,93.214844

13.0132923,-0.554238,9.559626,1.772184,9.738289,79.514824,93.318115

13.0158091,-0.580559,9.571589,1.786541,9.754184,79.446335,93.470985

13.0183249,-0.642772,9.597911,1.817947,9.789687,79.298042,93.831375

13.0208406,-0.700200,9.597911,1.839482,9.797647,79.178650,94.172523

13.0233564,-0.719342,9.619446,1.808077,9.814292,79.383820,94.276619

13.0258722,-0.784248,9.626625,1.753042,9.816319,79.712685,94.657402

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13.2020035,-0.398405,9.303294,1.760220,9.476728,79.295647,92.452141

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13.2070370,-0.422333,9.274581,1.767399,9.450921,79.221771,92.607254

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17.4415073,-0.906282,9.552447,1.750649,9.753736,79.660240,95.419670

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17.4566288,-0.961317,9.588340,1.690828,9.783624,80.048042,95.725281

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17.9296513,-0.760319,9.674481,1.604687,9.836091,80.610641,94.493652

17.9321690,-0.777069,9.664909,1.619044,9.830341,80.520271,94.596756

17.9346828,-0.812962,9.672089,1.633401,9.842672,80.447517,94.804550

17.9372005,-0.779462,9.664909,1.609472,9.828959,80.575493,94.610847

17.9397182,-0.750748,9.629018,1.614258,9.792213,80.511414,94.458176

17.9422321,-0.753141,9.593125,1.640579,9.761495,80.324585,94.488991

17.9447498,-0.728914,9.614660,1.654936,9.783242,80.261002,94.335457

17.9472637,-0.733699,9.614660,1.666900,9.785630,80.192322,94.363808

17.9497814,-0.757927,9.597911,1.616651,9.762577,80.468102,94.515160

17.9522972,-0.762712,9.576375,1.614258,9.741382,80.461433,94.553719

17.9548130,-0.757927,9.602696,1.609472,9.766096,80.514267,94.512917

17.9573307,-0.755534,9.609875,1.647758,9.779347,80.299751,94.495377

17.9598465,-0.772283,9.619446,1.628615,9.786856,80.420937,94.590065

17.9623623,-0.765105,9.626625,1.657329,9.798165,80.261780,94.544205

17.9648800,-0.810569,9.640982,1.681257,9.819988,80.141960,94.805862

17.9673958,-0.779462,9.621839,1.650150,9.793383,80.299591,94.631401

17.9699116,-0.796212,9.629018,1.683650,9.807478,80.115067,94.726967

17.9724274,-0.817747,9.600304,1.678864,9.780242,80.115723,94.868660

17.9749432,-0.829711,9.614660,1.705185,9.799886,79.979500,94.932205

17.9774609,-0.815354,9.633803,1.690828,9.814981,80.080162,94.837685

17.9799423,-0.832104,9.650553,1.705185,9.835305,80.015953,94.928055

17.9824581,-0.803390,9.621839,1.674079,9.799376,80.163612,94.772926

17.9849720,-0.834497,9.631411,1.666900,9.810148,80.217072,94.951927

17.9874878,-0.817747,9.624231,1.700400,9.807441,80.015686,94.856613

17.9900036,-0.841675,9.614660,1.666900,9.794318,80.201103,95.002968

17.9925194,-0.829711,9.657731,1.698007,9.840905,80.064133,94.910316

17.9950333,-0.815354,9.633803,1.659722,9.809671,80.259132,94.837685

17.9975491,-0.808176,9.624231,1.700400,9.806647,80.014870,94.800041

18.0000954,-0.824926,9.614660,1.717149,9.801571,79.910210,94.903893

18.0026207,-0.774676,9.640982,1.719542,9.823720,79.919022,94.593987

18.0051346,-0.743570,9.629018,1.676471,9.802114,80.152191,94.415718

18.0076523,-0.760319,9.633803,1.659722,9.805250,80.254700,94.512543

18.0101681,-0.760319,9.638589,1.631008,9.805135,80.424782,94.510315

18.0126839,-0.769891,9.629018,1.657329,9.800891,80.264519,94.571373

18.0152016,-0.793819,9.617053,1.650150,9.789834,80.296036,94.718658

18.0177174,-0.738784,9.614660,1.638186,9.781162,80.358444,94.393936

18.0202332,-0.762712,9.660124,1.666900,9.832512,80.239540,94.514404

18.0227489,-0.774676,9.645767,1.683650,9.822201,80.130035,94.591713

18.0252666,-0.781855,9.655338,1.702792,9.835464,80.030273,94.629509

18.0277824,-0.805783,9.657731,1.702792,9.839744,80.034653,94.769371

18.0302982,-0.791426,9.652946,1.698007,9.833054,80.056114,94.687088

18.0328140,-0.762712,9.657731,1.719542,9.839224,79.935074,94.515518

18.0353298,-0.796212,9.664909,1.681257,9.842309,80.164536,94.709488

18.0378475,-0.803390,9.643374,1.693221,9.823803,80.074997,94.762321

18.0403652,-0.824926,9.626625,1.698007,9.809977,80.032486,94.897827

18.0428791,-0.808176,9.626625,1.686043,9.806519,80.099899,94.798851

18.0453968,-0.820140,9.643374,1.700400,9.826427,80.035179,94.861137

18.0479126,-0.810569,9.605089,1.705185,9.788892,79.968132,94.823730

18.0504284,-0.839283,9.581161,1.707578,9.768257,79.932465,95.006172

18.0529461,-0.810569,9.607482,1.686043,9.787925,80.080902,94.822540

18.0554619,-0.805783,9.629018,1.688435,9.809082,80.088326,94.783524

18.0579777,-0.800997,9.619446,1.686043,9.798882,80.092110,94.759956

18.0604553,-0.812962,9.602696,1.724328,9.790096,79.855591,94.839104

18.0629711,-0.779462,9.578768,1.695614,9.758865,79.994011,94.652130

18.0654850,-0.793819,9.588340,1.664507,9.764067,80.184692,94.732727

18.0680027,-0.817747,9.583553,1.666900,9.761750,80.168091,94.877129

18.0705166,-0.863211,9.602696,1.647758,9.781207,80.301613,95.136658

18.0730324,-0.848854,9.573982,1.669293,9.755420,80.147377,95.066742

18.0755463,-0.846461,9.588340,1.662114,9.768080,80.203011,95.045006

18.0780621,-0.846461,9.645767,1.669293,9.825674,80.218521,95.015121

18.0806084,-0.822533,9.631411,1.678864,9.811178,80.147202,94.881279

18.0831375,-0.812962,9.605089,1.669293,9.782903,80.175331,94.837906

18.0856514,-0.805783,9.600304,1.666900,9.777202,80.183777,94.797768

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18.0932026,-0.774676,9.626625,1.652543,9.798108,80.290115,94.600807

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18.0982342,-0.781855,9.662517,1.676471,9.837992,80.188461,94.626083

18.1007519,-0.765105,9.640982,1.640579,9.809455,80.372345,94.537468

18.1032696,-0.762712,9.624231,1.642972,9.793208,80.342018,94.531174

18.1057835,-0.777069,9.667302,1.678864,9.842721,80.179092,94.595619

18.1083012,-0.721735,9.652946,1.676471,9.823992,80.174347,94.275955

18.1108170,-0.728914,9.655338,1.741078,9.838100,79.806511,94.317261

18.1133347,-0.736092,9.640982,1.717149,9.820333,79.929688,94.366081

18.1158504,-0.719342,9.640982,1.664507,9.810023,80.231125,94.267105

18.1183567,-0.716949,9.652946,1.700400,9.827753,80.036537,94.247711

18.1208706,-0.741177,9.662517,1.688435,9.836889,80.116623,94.386360

18.1233883,-0.728914,9.664909,1.666900,9.834651,80.241684,94.313004

18.1259060,-0.688236,9.674481,1.678864,9.843163,80.179535,94.069122

18.1284199,-0.647558,9.645767,1.671686,9.810947,80.189514,93.840721

18.1309376,-0.645165,9.705587,1.647758,9.865585,80.385353,93.803055

18.1334515,-0.678664,9.609875,1.666900,9.776955,80.183533,94.039612

18.1359787,-0.669093,9.590733,1.650150,9.754632,80.260681,93.990746

18.1384964,-0.666700,9.607482,1.635793,9.768522,80.360085,93.969612

18.1410122,-0.654736,9.619446,1.642972,9.780684,80.329529,93.893761

18.1435280,-0.678664,9.569197,1.654936,9.734934,80.212196,94.056725

18.1460457,-0.664307,9.583553,1.640579,9.745630,80.308685,93.965256

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18.1510773,-0.673879,9.559626,1.657329,9.725600,80.188408,94.032234

18.1535950,-0.649950,9.571589,1.678864,9.739422,80.073875,93.884659

18.1561108,-0.659522,9.559626,1.674079,9.727484,80.090187,93.946602

18.1585865,-0.649950,9.581161,1.683650,9.749654,80.055847,93.880791

18.1611023,-0.649950,9.588340,1.654936,9.751795,80.229286,93.877892

18.1636181,-0.683450,9.583553,1.621436,9.743750,80.420967,94.079132

18.1661320,-0.704985,9.619446,1.645365,9.784577,80.319206,94.191574

18.1686497,-0.671486,9.621839,1.631008,9.782170,80.402092,93.992065

18.1711636,-0.700200,9.629018,1.635793,9.792042,80.383461,94.159096

18.1736794,-0.702593,9.652946,1.635793,9.815743,80.406898,94.162949

18.1761932,-0.671486,9.643374,1.631008,9.803353,80.423027,93.983177

18.1787128,-0.685843,9.660124,1.633401,9.821220,80.426460,94.061035

18.1812286,-0.726521,9.672089,1.628615,9.835116,80.468384,94.295715

18.1837444,-0.724128,9.698409,1.642972,9.863207,80.411209,94.270042

18.1862602,-0.721735,9.684052,1.626222,9.846135,80.493271,94.262276

18.1887741,-0.714557,9.686445,1.645365,9.851144,80.385239,94.218994

18.1912918,-0.707378,9.667302,1.645365,9.831802,80.366150,94.185005

18.1938076,-0.707378,9.655338,1.657329,9.822050,80.285690,94.190170

18.1963215,-0.716949,9.662517,1.681257,9.833863,80.156006,94.243515

18.1988468,-0.707378,9.684052,1.635793,9.846678,80.437325,94.177788

18.2013626,-0.755534,9.705587,1.616651,9.868274,80.571129,94.451225

18.2038784,-0.743570,9.643374,1.633401,9.808953,80.414375,94.409172

18.2063942,-0.748355,9.633803,1.628615,9.799111,80.433029,94.441826

18.2089100,-0.716949,9.660124,1.642972,9.825038,80.373604,94.244560

18.2114258,-0.743570,9.655338,1.698007,9.831667,80.054703,94.403725

18.2139416,-0.777069,9.633803,1.669293,9.808187,80.200912,94.611534

18.2164574,-0.767498,9.657731,1.654936,9.828511,80.306290,94.543732

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18.2214832,-0.791426,9.640982,1.690828,9.820070,80.085358,94.692879

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18.2265148,-0.781855,9.636196,1.712364,9.818338,79.955986,94.638664

18.2290306,-0.765105,9.631411,1.683650,9.807351,80.114937,94.541954

18.2315445,-0.774676,9.652946,1.659722,9.825180,80.274658,94.588318

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18.3120975,-0.865604,9.741480,1.623829,9.913754,80.572723,95.077820

18.3146133,-0.853639,9.746265,1.607080,9.914691,80.671730,95.005554

18.3171310,-0.891925,9.710373,1.623829,9.885530,80.545563,95.248047

18.3196316,-0.887139,9.703195,1.633401,9.879625,80.483582,95.223885

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18.3246632,-0.899103,9.679267,1.678864,9.864846,80.201332,95.306953

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18.3322124,-0.882353,9.621839,1.748256,9.819100,79.744011,95.239555

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18.3397694,-0.896710,9.614660,1.769791,9.817227,79.614273,95.328270

18.3422871,-0.891925,9.593125,1.762613,9.794406,79.632500,95.311829

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18.3498363,-0.856032,9.583553,1.798505,9.788356,79.412361,95.104286

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18.3573856,-0.800997,9.559626,1.760220,9.753277,79.602585,94.789604

18.3598976,-0.791426,9.585947,1.733899,9.773595,79.781265,94.719696

18.3624153,-0.748355,9.581161,1.729113,9.764656,79.800346,94.466133

18.3649311,-0.745962,9.600304,1.719542,9.781570,79.875130,94.443069

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18.3699627,-0.753141,9.626625,1.712364,9.806698,79.943939,94.473434

18.3724804,-0.760319,9.621839,1.695614,9.799642,80.036072,94.518135

18.3749962,-0.748355,9.609875,1.731506,9.793255,79.816223,94.452843

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18.3825073,-0.726521,9.660124,1.686043,9.833035,80.126869,94.301018

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18.4253139,-0.786640,9.569197,1.666900,9.745095,80.151115,94.699463

18.4278316,-0.765105,9.590733,1.662114,9.763717,80.198586,94.561134

18.4303474,-0.781855,9.595518,1.659722,9.769337,80.218521,94.658241

18.4328632,-0.793819,9.597911,1.659722,9.772652,80.221870,94.728027

18.4353809,-0.851247,9.583553,1.664507,9.764205,80.184837,95.075905

18.4378948,-0.815354,9.585947,1.719542,9.773025,79.866180,94.861717

18.4404106,-0.853639,9.571589,1.712364,9.760954,79.896317,95.096428

18.4429264,-0.858425,9.593125,1.693221,9.779159,80.029221,95.113403

18.4454422,-0.846461,9.588340,1.721935,9.778437,79.857605,95.045006

18.4479599,-0.848854,9.609875,1.738685,9.802717,79.783531,95.047913

18.4504738,-0.867996,9.576375,1.707578,9.766074,79.930191,95.179100

18.4529915,-0.918246,9.590733,1.719542,9.786836,79.880630,95.469002

18.4555073,-0.911067,9.550055,1.741078,9.750125,79.713539,95.449478

18.4580231,-0.884746,9.607482,1.738685,9.803546,79.784401,95.261490

18.4605370,-0.913460,9.588340,1.745863,9.788703,79.726051,95.442017

18.4630527,-0.915853,9.602696,1.717149,9.797916,79.906410,95.448082

18.4655685,-0.930210,9.571589,1.671686,9.760899,80.138710,95.550827

18.4680843,-0.915853,9.588340,1.690828,9.779262,80.043564,95.456184

18.4706001,-0.946960,9.593125,1.678864,9.784855,80.120430,95.637535

18.4731178,-0.963709,9.607482,1.647758,9.795282,80.315689,95.728081

18.4756336,-0.956531,9.609875,1.664507,9.799757,80.220795,95.684280

18.4781494,-0.975673,9.602696,1.635793,9.789766,80.381203,95.801575

18.4806633,-0.985245,9.614660,1.638186,9.802859,80.379990,95.850861

18.4831791,-1.014258,9.621839,1.614258,9.808890,80.527695,96.017441

18.4856968,-1.019043,9.626625,1.616651,9.814475,80.518967,96.042641

18.4882126,-1.011865,9.633803,1.657329,9.827552,80.291183,95.995949

18.4907284,-1.033400,9.624231,1.645365,9.818399,80.352875,96.128647

18.4932442,-1.050150,9.657731,1.678864,9.858660,80.195122,96.205772

18.4957600,-1.064507,9.655338,1.666900,9.855825,80.262856,96.291489

18.4982777,-1.033400,9.724730,1.686043,9.923761,80.218018,96.065781

18.5007915,-1.035793,9.674481,1.662114,9.870719,80.305870,96.111061

18.5033073,-1.059721,9.691231,1.674079,9.891688,80.256310,96.240410

18.5058231,-1.050150,9.676874,1.671686,9.876196,80.254967,96.193596

18.5083389,-1.016651,9.648160,1.686043,9.846995,80.141006,96.015198

18.5108547,-1.038186,9.662517,1.659722,9.858840,80.308182,96.132599

18.5133705,-1.009472,9.655338,1.669293,9.850438,80.243355,95.968628

18.5158882,-1.016651,9.650553,1.693221,9.850571,80.102234,96.013718

18.5184021,-1.001994,9.626625,1.729113,9.831873,79.870819,95.942276

18.5208702,-0.975673,9.631411,1.705185,9.829733,80.010239,95.784401

18.5233879,-0.961317,9.643374,1.738685,9.845903,79.828819,95.692825

18.5259037,-0.963709,9.614660,1.755435,9.820996,79.703445,95.723831

18.5284195,-0.966102,9.605089,1.714756,9.804667,79.927635,95.743622

18.5309372,-0.966102,9.605089,1.719542,9.805504,79.900101,95.743622

18.5334511,-0.908674,9.609875,1.753042,9.810635,79.706657,95.401619

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18.5385284,-0.884746,9.545269,1.705185,9.736662,79.913757,95.295586

18.5410461,-0.860818,9.542876,1.719542,9.734696,79.825859,95.154434

18.5435638,-0.820140,9.569197,1.695614,9.752808,79.987732,94.898636

18.5460815,-0.846461,9.590733,1.698007,9.776599,79.998108,95.043755

18.5485973,-0.822533,9.614660,1.690828,9.796793,80.061562,94.889740

18.5511150,-0.791426,9.576375,1.650150,9.749682,80.255684,94.724396

18.5536346,-0.769891,9.602696,1.690828,9.780767,80.045113,94.583855

18.5561504,-0.769891,9.612267,1.700400,9.791821,79.999596,94.579308

18.5586567,-0.777069,9.655338,1.676471,9.830562,80.180977,94.601288

18.5611725,-0.757927,9.636196,1.702792,9.814796,80.009064,94.497292

18.5636921,-0.753141,9.602696,1.623829,9.768102,80.430840,94.484535

18.5662098,-0.760319,9.648160,1.614258,9.811773,80.530502,94.505859

18.5687256,-0.733699,9.648160,1.642972,9.814513,80.363182,94.348717

18.5712433,-0.757927,9.650553,1.647758,9.819508,80.339806,94.490631

18.5737591,-0.765105,9.693624,1.664507,9.865207,80.286301,94.512924

18.5762768,-0.755534,9.679267,1.607080,9.840820,80.601074,94.463280

18.5787830,-0.736092,9.652946,1.652543,9.821002,80.312973,94.360687

18.5813007,-0.741177,9.660124,1.664507,9.830459,80.251633,94.387444

18.5838184,-0.731306,9.664909,1.647758,9.831601,80.351807,94.327103

18.5863342,-0.741177,9.669696,1.681257,9.842712,80.164948,94.383118

18.5888519,-0.728914,9.652946,1.678864,9.824931,80.161133,94.318329

18.5913696,-0.781855,9.657731,1.669293,9.832070,80.224945,94.628365

18.5938854,-0.716949,9.636196,1.688435,9.809236,80.088486,94.255066

18.5964031,-0.712164,9.607482,1.712364,9.784840,79.921242,94.239349

18.5989113,-0.760319,9.617053,1.705185,9.796604,79.976112,94.520370

18.6014290,-0.786640,9.605089,1.674079,9.781569,80.145531,94.681976

18.6039448,-0.793819,9.590733,1.698007,9.772182,79.993538,94.731552

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18.6089802,-0.772283,9.489935,1.729113,9.677041,79.707001,94.652435

18.6114960,-0.774676,9.497113,1.688435,9.677092,79.951744,94.663277

18.6140118,-0.800997,9.523733,1.705185,9.708282,79.883957,94.807571

18.6165276,-0.834497,9.538090,1.683650,9.721431,80.026688,95.000130

18.6190395,-0.870389,9.511769,1.678864,9.697934,80.030983,95.228378

18.6215553,-0.846461,9.590733,1.705185,9.777848,79.956680,95.043755

18.6240730,-0.887139,9.581161,1.700400,9.771234,79.978310,95.290047

18.6265888,-0.887139,9.564411,1.741078,9.761984,79.726166,95.299263

18.6291046,-0.915853,9.588340,1.736292,9.787224,79.781418,95.456184

18.6316223,-0.956531,9.600304,1.736292,9.802831,79.797859,95.689911

18.6341400,-0.911067,9.605089,1.702792,9.797310,79.991051,95.418442

18.6366558,-0.932603,9.605089,1.724328,9.803102,79.869186,95.545731

18.6391678,-0.913460,9.593125,1.702792,9.785805,79.979156,95.439323

18.6416836,-0.946960,9.602696,1.719542,9.801292,79.895714,95.631950

18.6442013,-0.980459,9.638589,1.757827,9.846505,79.716263,95.808281

18.6467171,-0.951745,9.624231,1.733899,9.825378,79.835701,95.647644

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18.6517506,-0.939781,9.652946,1.702792,9.846931,80.042000,95.560616

18.6542664,-0.899103,9.669696,1.748256,9.867513,79.794868,95.312172

18.6567841,-0.901496,9.676874,1.705185,9.867230,80.048592,95.322304

18.6592922,-0.915853,9.681660,1.712364,9.874488,80.013687,95.403908

18.6618099,-0.894317,9.672089,1.750649,9.869847,79.783195,95.282761

18.6643257,-0.863211,9.664909,1.741078,9.858345,79.827667,95.103767

18.6668415,-0.891925,9.657731,1.690828,9.845111,80.110825,95.276497

18.6693592,-0.877568,9.707980,1.719542,9.898072,79.995537,95.165298

18.6718750,-0.853639,9.703195,1.707578,9.889212,80.056862,95.027657

18.6743908,-0.851247,9.703195,1.709971,9.889420,80.042992,95.013634

18.6769066,-0.839283,9.724730,1.705185,9.908705,80.090660,94.932632

18.6794205,-0.856032,9.679267,1.698007,9.864290,80.087921,95.054077

18.6819363,-0.822533,9.676874,1.671686,9.854592,80.233391,94.858452

18.6844521,-0.815354,9.662517,1.683650,9.841936,80.150024,94.823380

18.6869698,-0.829711,9.681660,1.654936,9.857067,80.334641,94.898239

18.6894836,-0.812962,9.614660,1.652543,9.789458,80.281456,94.833115

18.6920013,-0.791426,9.612267,1.671686,9.788594,80.166893,94.706833

18.6945171,-0.820140,9.614660,1.671686,9.793306,80.171669,94.875580

18.6970329,-0.796212,9.590733,1.657329,9.765389,80.228775,94.745750

18.6995487,-0.791426,9.583553,1.645365,9.755925,80.290497,94.720871

18.7020626,-0.800997,9.559626,1.676471,9.738511,80.087234,94.789604

18.7045803,-0.812962,9.602696,1.664507,9.779737,80.200577,94.839104

18.7070980,-0.786640,9.585947,1.678864,9.763595,80.098701,94.691284

18.7096119,-0.789033,9.569197,1.662114,9.744472,80.179039,94.713692

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18.7171612,-0.798605,9.621839,1.657329,9.796137,80.259743,94.744629

18.7196751,-0.793819,9.629018,1.717149,9.813090,79.922180,94.712822

18.7221909,-0.812962,9.631411,1.733899,9.819948,79.830017,94.824745

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18.7272224,-0.803390,9.667302,1.700400,9.848530,80.057770,94.750587

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18.7372894,-0.789033,9.617053,1.700400,9.798042,80.006012,94.690338

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18.7423191,-0.822533,9.609875,1.666900,9.787993,80.194710,94.892166

18.7448349,-0.824926,9.617053,1.683650,9.798106,80.105522,94.902679

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18.7574139,-0.839283,9.636196,1.626222,9.808429,80.456383,94.977722

18.7599297,-0.870389,9.660124,1.585544,9.827996,80.715935,95.148521

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18.7674789,-0.899103,9.712767,1.609472,9.886184,80.630531,95.288750

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18.7725105,-0.934995,9.693624,1.604687,9.869933,80.643127,95.509399

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18.7775421,-0.908674,9.643374,1.602294,9.817724,80.607071,95.382965

18.7800579,-0.927817,9.674481,1.645365,9.857162,80.391167,95.478111

18.7825718,-0.889532,9.696016,1.611865,9.869250,80.600235,95.241753

18.7850895,-0.913460,9.667302,1.583151,9.838573,80.740120,95.397835

18.7876034,-0.932603,9.655338,1.602294,9.831717,80.620560,95.517044

18.7901211,-0.934995,9.664909,1.642972,9.848048,80.396309,95.525673

18.7926388,-0.901496,9.669696,1.611865,9.844482,80.576370,95.326233

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18.7976704,-0.920639,9.624231,1.619044,9.802791,80.493385,95.464195

18.8001785,-0.942174,9.609875,1.628615,9.792333,80.426346,95.599510

18.8026943,-0.911067,9.624231,1.683650,9.812775,80.120461,95.407730

18.8052101,-0.911067,9.633803,1.647758,9.816074,80.336395,95.402382

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18.8102417,-0.944567,9.655338,1.662114,9.842784,80.278091,95.587379

18.8127575,-0.949352,9.648160,1.674079,9.838231,80.202850,95.619659

18.8152752,-0.939781,9.648160,1.683650,9.838945,80.147003,95.563354

18.8177891,-0.865604,9.640982,1.640579,9.817804,80.380608,95.130478

18.8203144,-0.870389,9.614660,1.635793,9.791582,80.383003,95.172729

18.8228321,-0.891925,9.609875,1.686043,9.797345,80.090538,95.302620

18.8253460,-0.896710,9.669696,1.631008,9.847198,80.466072,95.298119

18.8278637,-0.863211,9.652946,1.647758,9.830544,80.350754,95.110062

18.8303776,-0.841675,9.655338,1.688435,9.837926,80.117676,94.981995

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18.8379269,-0.779462,9.643374,1.702792,9.823529,80.018036,94.621101

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18.8504734,-0.721735,9.650553,1.707578,9.826999,79.993263,94.277016

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18.8630886,-0.688236,9.638589,1.664507,9.805440,80.226517,94.084229

18.8656063,-0.707378,9.631411,1.681257,9.802606,80.124306,94.200539

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18.8983154,-0.623629,9.557233,1.614258,9.712644,80.432945,93.733376

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18.9134102,-0.637986,9.612267,1.623829,9.769316,80.432045,93.797272

18.9159279,-0.681057,9.650553,1.638186,9.812271,80.389305,94.036774

18.9184418,-0.707378,9.640982,1.650150,9.806727,80.312912,94.196388

18.9209576,-0.690628,9.652946,1.621436,9.812511,80.488724,94.092300

18.9234715,-0.716949,9.655338,1.628615,9.817941,80.451553,94.246658

18.9259892,-0.755534,9.638589,1.635793,9.805562,80.396851,94.482040

18.9285049,-0.765105,9.657731,1.628615,9.823927,80.457428,94.529625

18.9310207,-0.800997,9.674481,1.628615,9.843250,80.476334,94.733002

18.9335365,-0.767498,9.650553,1.611865,9.814292,80.547112,94.547096

18.9360523,-0.803390,9.674481,1.683650,9.852700,80.160889,94.747078

18.9385700,-0.786640,9.672089,1.674079,9.847367,80.212029,94.649689

18.9410839,-0.810569,9.650553,1.659722,9.825725,80.275200,94.801117

18.9435978,-0.789033,9.643374,1.652543,9.815709,80.307693,94.677597

18.9461155,-0.800997,9.648160,1.652543,9.821379,80.313347,94.745857

18.9486294,-0.781855,9.636196,1.633401,9.804875,80.410347,94.638664

18.9511471,-0.815354,9.648160,1.640579,9.820555,80.383331,94.830521

18.9536629,-0.789033,9.621839,1.640579,9.792541,80.355553,94.688019

18.9561787,-0.779462,9.607482,1.628615,9.775666,80.409874,94.638290

18.9586964,-0.820140,9.655338,1.616651,9.824039,80.528282,94.855141

18.9612103,-0.820140,9.652946,1.633401,9.824459,80.429642,94.856339

18.9637260,-0.812962,9.614660,1.647758,9.788651,80.309067,94.833115

18.9662437,-0.803390,9.657731,1.626222,9.826587,80.474182,94.755272

18.9687576,-0.824926,9.679267,1.607080,9.846391,80.606438,94.871323

18.9712753,-0.822533,9.660124,1.621436,9.829731,80.505539,94.866837

18.9737892,-0.848854,9.645767,1.647758,9.822244,80.342522,95.029228

18.9763069,-0.827318,9.614660,1.645365,9.789452,80.324074,94.918053

18.9788208,-0.848854,9.672089,1.659722,9.850103,80.299507,95.015610

18.9813385,-0.860818,9.638589,1.652543,9.817041,80.309021,95.103523

18.9838562,-0.870389,9.643374,1.652543,9.822583,80.314545,95.157410

18.9863701,-0.891925,9.624231,1.686043,9.811427,80.104904,95.294754

18.9888878,-0.891925,9.645767,1.688435,9.832964,80.112640,95.283005

18.9914017,-0.894317,9.643374,1.695614,9.832068,80.069267,95.298401

18.9939194,-0.920639,9.614660,1.690828,9.805517,80.070488,95.469604

18.9964352,-0.903889,9.631411,1.721935,9.825789,79.906998,95.361389

18.9989510,-0.913460,9.605089,1.700400,9.797117,80.005058,95.432587

19.0014629,-0.903889,9.581161,1.726721,9.777383,79.828011,95.389343

19.0039787,-0.925424,9.607482,1.729113,9.805608,79.843399,95.501945

19.0064945,-0.925424,9.609875,1.709971,9.804596,79.955963,95.500580

19.0090103,-0.946960,9.540483,1.698007,9.736568,79.956558,95.668442

19.0115261,-0.966102,9.552447,1.729113,9.755636,79.790817,95.775063

19.0140438,-0.958924,9.557233,1.765006,9.766037,79.587776,95.729591

19.0165577,-0.992423,9.526126,1.712364,9.729551,79.863365,95.947571

19.0190754,-0.992423,9.538090,1.731506,9.744649,79.764885,95.940163

19.0215988,-0.997209,9.550055,1.712364,9.753469,79.888489,95.961174

19.0241146,-1.004686,9.571589,1.765006,9.784679,79.607834,95.992134

19.0266304,-0.958924,9.588340,1.762613,9.796050,79.634262,95.711121

19.0291462,-0.963709,9.624231,1.805684,9.839464,79.425468,95.718170

19.0316639,-0.939781,9.621839,1.767399,9.827851,79.639809,95.578484

19.0341797,-0.939781,9.583553,1.755435,9.788219,79.668587,95.600624

19.0366955,-0.915853,9.573982,1.738685,9.773583,79.752747,95.464325

19.0392113,-0.918246,9.602696,1.726721,9.799823,79.851547,95.462227

19.0417156,-0.911067,9.595518,1.825125,9.809949,79.277733,95.423813

19.0442333,-0.903889,9.602696,1.803291,9.812270,79.410034,95.377327

19.0467472,-0.903889,9.612267,1.796113,9.820322,79.461426,95.372009

19.0492649,-0.865604,9.626625,1.750649,9.822726,79.733650,95.138084

19.0517788,-0.784248,9.655338,1.772184,9.847905,79.632835,94.643616

19.0542965,-0.810569,9.600304,1.736292,9.789666,79.783997,94.826126

19.0568123,-0.812962,9.593125,1.736292,9.782825,79.776772,94.843910

19.0593262,-0.808176,9.595518,1.738685,9.785200,79.765045,94.814331

19.0618591,-0.757927,9.585947,1.733899,9.770939,79.778458,94.520767

19.0643768,-0.719342,9.583553,1.765006,9.771243,79.593384,94.292580

19.0668945,-0.755534,9.597911,1.762613,9.787621,79.625237,94.500961

19.0694084,-0.779462,9.609875,1.719542,9.793573,79.887665,94.637138

19.0719261,-0.769891,9.609875,1.726721,9.794080,79.845535,94.580444

19.0744419,-0.716949,9.643374,1.757827,9.828461,79.697174,94.251907

19.0769577,-0.704985,9.638589,1.750649,9.821618,79.732483,94.183273

19.0794754,-0.736092,9.617053,1.729113,9.798947,79.836418,94.376900

19.0819912,-0.724128,9.629018,1.729113,9.809800,79.847786,94.300697

19.0845070,-0.736092,9.617053,1.712364,9.796006,79.932854,94.376900

19.0870228,-0.736092,9.609875,1.736292,9.793173,79.787689,94.380157

19.0895405,-0.721735,9.602696,1.741078,9.785910,79.751556,94.298248

19.0920563,-0.721735,9.650553,1.707578,9.826999,79.993263,94.277016

19.0945721,-0.700200,9.624231,1.705185,9.799171,79.978760,94.161156

19.0970898,-0.690628,9.648160,1.712364,9.823245,79.961052,94.094330

19.0996037,-0.697807,9.652946,1.757827,9.836475,79.705658,94.134689

19.1021214,-0.697807,9.652946,1.724328,9.830544,79.897766,94.134689

19.1046391,-0.709771,9.672089,1.726721,9.850616,79.904427,94.197037

19.1071529,-0.700200,9.655338,1.678864,9.825193,80.161392,94.147797

19.1096706,-0.685843,9.662517,1.647758,9.825972,80.346222,94.060028

19.1121864,-0.669093,9.674481,1.652543,9.837386,80.329262,93.956314

19.1147022,-0.702593,9.660124,1.631008,9.822007,80.441391,94.159866

19.1172199,-0.690628,9.626625,1.652543,9.791821,80.283821,94.103455

19.1197357,-0.712164,9.645767,1.638186,9.809773,80.386833,94.222588

19.1222515,-0.726521,9.662517,1.614258,9.823334,80.541748,94.299957

19.1247673,-0.688236,9.691231,1.599901,9.846487,80.648865,94.062119

19.1272831,-0.685843,9.722338,1.552045,9.869300,80.952118,94.035133

19.1298008,-0.685843,9.672089,1.590330,9.825927,80.685684,94.056023

19.1323166,-0.700200,9.624231,1.575973,9.777515,80.724411,94.161156

19.1348324,-0.697807,9.645767,1.561616,9.796245,80.827370,94.137756

19.1373482,-0.693021,9.662517,1.595115,9.817785,80.649590,94.102379

19.1398659,-0.685843,9.629018,1.566401,9.779672,80.783287,94.074104

19.1423836,-0.688236,9.602696,1.537389,9.749309,80.927040,94.099442

19.1448975,-0.707378,9.621839,1.575973,9.775677,80.722649,94.204704

19.1474152,-0.693021,9.597911,1.590330,9.753427,80.615829,94.129898

19.1499329,-0.712164,9.595518,1.561616,9.747809,80.781395,94.244621

19.1524467,-0.693021,9.576375,1.619044,9.736967,80.428513,94.139153

19.1549644,-0.700200,9.590733,1.652543,9.757219,80.249031,94.175636

19.1574802,-0.728914,9.619446,1.631008,9.783928,80.403831,94.333305

19.1599960,-0.712164,9.621839,1.640579,9.786647,80.349693,94.233047

19.1625099,-0.693021,9.626625,1.659722,9.793205,80.242599,94.117622

19.1650276,-0.721735,9.588340,1.686043,9.762167,80.054466,94.304657

19.1675453,-0.738784,9.636196,1.709971,9.814585,79.966293,94.384155

19.1700592,-0.767498,9.631411,1.712364,9.812508,79.949959,94.556099

19.1725769,-0.745962,9.597911,1.666900,9.770103,80.176575,94.444168

19.1750908,-0.769891,9.621839,1.690828,9.799562,80.064400,94.574768

19.1776085,-0.810569,9.629018,1.702792,9.811957,80.006142,94.811806

19.1801262,-0.839283,9.590733,1.729113,9.781430,79.818024,95.001198

19.1826401,-0.798605,9.571589,1.721935,9.757979,79.836121,94.769417

19.1851578,-0.875175,9.600304,1.714756,9.791432,79.913879,95.208755

19.1876717,-0.867996,9.636196,1.700400,9.823495,80.032173,95.147125

19.1901894,-0.903889,9.638589,1.714756,9.831572,79.955482,95.357422

19.1927052,-0.894317,9.650553,1.729113,9.844938,79.884399,95.294479

19.1952209,-0.923031,9.631411,1.712364,9.825897,79.963791,95.474251

19.1977386,-0.934995,9.607482,1.760220,9.812049,79.665550,95.558495

19.2002525,-0.966102,9.621839,1.750649,9.827406,79.738594,95.733696

19.2027702,-0.992423,9.612267,1.757827,9.821942,79.690262,95.894646

19.2052879,-0.980459,9.605089,1.757827,9.813715,79.681526,95.828400

19.2078018,-1.026222,9.554840,1.767399,9.770967,79.578819,96.130257

19.2103195,-1.064507,9.545269,1.769791,9.766141,79.559341,96.363441

19.2128372,-1.066900,9.566804,1.729113,9.780176,79.816704,96.363388

19.2153511,-1.042972,9.526126,1.702792,9.733158,79.924393,96.248161

19.2178688,-1.100399,9.480363,1.738685,9.701092,79.675339,96.620773

19.2203846,-1.069293,9.475577,1.733899,9.692078,79.694389,96.438431

19.2229004,-1.095614,9.514162,1.760220,9.737454,79.585503,96.569023

19.2254181,-1.112363,9.538090,1.784148,9.767072,79.474701,96.651970

19.2279339,-1.124328,9.557233,1.776970,9.785829,79.537842,96.709526

19.2304497,-1.191327,9.557233,1.745863,9.788156,79.725464,97.105377

19.2329655,-1.133899,9.581161,1.736292,9.803014,79.798058,96.749374

19.2354832,-1.172184,9.590733,1.798505,9.828061,79.455627,96.968163

19.2379990,-1.191327,9.626625,1.788934,9.863644,79.550636,97.054672

19.2405148,-1.165006,9.645767,1.774577,9.876598,79.649170,96.886765

19.2429924,-1.200898,9.667302,1.791327,9.904935,79.580612,97.081161

19.2455101,-1.246361,9.662517,1.800898,9.907617,79.527184,97.349960

19.2480259,-1.224826,9.664909,1.796113,9.906397,79.554024,97.222549

19.2505398,-1.215255,9.664909,1.800898,9.906087,79.525543,97.166695

19.2530556,-1.241576,9.684052,1.788934,9.925858,79.616867,97.305939

19.2555695,-1.239183,9.657731,1.781756,9.898585,79.630180,97.311668

19.2580872,-1.222433,9.645767,1.793720,9.886992,79.547394,97.222740

19.2606010,-1.212862,9.650553,1.791327,9.890048,79.564751,97.163261

19.2631454,-1.196112,9.633803,1.796113,9.872531,79.517784,97.077499

19.2656765,-1.220040,9.629018,1.856232,9.881907,79.173157,97.221161

19.2681923,-1.212862,9.626625,1.798505,9.868007,79.498795,97.180878

19.2707081,-1.198505,9.645767,1.820340,9.888927,79.392586,97.082809

19.2732258,-1.191327,9.619446,1.796113,9.857942,79.502098,97.059883

19.2757435,-1.208076,9.660124,1.788934,9.898370,79.587708,97.128288

19.2782574,-1.186541,9.629018,1.788934,9.865402,79.552521,97.024887

19.2807751,-1.176970,9.609875,1.805684,9.848626,79.435417,96.982529

19.2832546,-1.148256,9.626625,1.781756,9.857234,79.586197,96.802055

19.2857704,-1.133899,9.617053,1.757827,9.841920,79.711418,96.724411

19.2882843,-1.095614,9.638589,1.753042,9.857785,79.756424,96.484947

19.2908020,-1.066900,9.636196,1.738685,9.849751,79.832832,96.317940

19.2933159,-1.050150,9.679267,1.741078,9.890519,79.861107,96.192070

19.2958317,-1.042972,9.672089,1.748256,9.884002,79.812073,96.154602

19.2983456,-1.045364,9.652946,1.745863,9.865099,79.806465,96.180748

19.3008633,-1.011865,9.626625,1.717149,9.830788,79.940514,96.000389

19.3033848,-0.973281,9.631411,1.698007,9.828254,80.051208,95.770309

19.3058987,-0.927817,9.617053,1.676471,9.806075,80.156212,95.510628

19.3084164,-0.896710,9.607482,1.631008,9.786112,80.405998,95.332230

19.3109322,-0.884746,9.602696,1.599901,9.775185,80.580040,95.264099

19.3134460,-0.867996,9.597911,1.609472,9.770554,80.518631,95.167542

19.3159637,-0.832104,9.581161,1.595115,9.748611,80.582642,94.963570

19.3184776,-0.796212,9.595518,1.595115,9.759729,80.593468,94.743393

19.3209934,-0.765105,9.595518,1.628615,9.762774,80.397087,94.558876

19.3235149,-0.767498,9.624231,1.619044,9.789596,80.480453,94.559486

19.3260288,-0.750748,9.614660,1.669293,9.787331,80.179825,94.464806

19.3285465,-0.738784,9.600304,1.669293,9.772317,80.164589,94.400482

19.3310604,-0.688236,9.638589,1.662114,9.805034,80.240295,94.084229

19.3335762,-0.704985,9.626625,1.705185,9.801866,79.981544,94.188454

19.3360939,-0.726521,9.660124,1.681257,9.832214,80.154343,94.301018

19.3386078,-0.702593,9.660124,1.698007,9.833354,80.056419,94.159866

19.3411236,-0.707378,9.614660,1.748256,9.797881,79.721558,94.207832

19.3436413,-0.700200,9.662517,1.731506,9.841373,79.866547,94.144730

19.3461590,-0.724128,9.652946,1.719542,9.831610,79.927200,94.290077

19.3486748,-0.724128,9.638589,1.681257,9.810881,80.132713,94.296448

19.3511906,-0.719342,9.597911,1.724328,9.778070,79.842979,94.286179

19.3537064,-0.733699,9.602696,1.693221,9.778399,80.028442,94.369225

19.3562222,-0.741177,9.554840,1.741078,9.740414,79.703171,94.435600

19.3587379,-0.762712,9.550055,1.743470,9.737811,79.686073,94.566216

19.3612537,-0.796212,9.487542,1.781756,9.686179,79.400185,94.797127

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19.3662910,-0.834497,9.480363,1.798505,9.685468,79.298569,95.030426

19.3688049,-0.839283,9.463614,1.781756,9.666387,79.378227,95.068031

19.3713226,-0.822533,9.449257,1.774577,9.649567,79.402863,94.974907

19.3738384,-0.844068,9.458828,1.827518,9.670662,79.106995,95.099342

19.3763542,-0.851247,9.456435,1.822733,9.668048,79.132896,95.143768

19.3788700,-0.853639,9.489935,1.846661,9.705551,79.031548,95.140045

19.3813858,-0.863211,9.434899,1.800898,9.643946,79.237480,95.227509

19.3838558,-0.879961,9.456435,1.803291,9.666972,79.248985,95.316299

19.3863354,-0.887139,9.485149,1.800898,9.695272,79.295128,95.343285

19.3888493,-0.899103,9.504591,1.832304,9.721264,79.135666,95.403915

19.3913631,-0.937388,9.489935,1.841875,9.712367,79.068092,95.641212

19.3938770,-0.961317,9.538090,1.798505,9.753661,79.374268,95.755241

19.3963909,-0.961317,9.509377,1.803291,9.726471,79.315529,95.772499

19.3989048,-1.009472,9.530911,1.820340,9.755560,79.245857,96.045975

19.4014187,-1.021436,9.516555,1.817947,9.742334,79.245407,96.126251

19.4039631,-1.064507,9.550055,1.796113,9.775620,79.412674,96.360283

19.4065075,-1.050150,9.602696,1.817947,9.829523,79.341919,96.241058

19.4090538,-1.090828,9.573982,1.805684,9.803649,79.386391,96.500061

19.4115791,-1.112363,9.619446,1.851447,9.858953,79.175964,96.596214

19.4140930,-1.133899,9.602696,1.812862,9.837885,79.381218,96.734375

19.4166107,-1.176970,9.614660,1.812862,9.854613,79.399452,96.979088

19.4191265,-1.188934,9.631411,1.803291,9.870638,79.473373,97.037186

19.4216442,-1.220040,9.624231,1.786541,9.864384,79.565559,97.224709

19.4241886,-1.234397,9.640982,1.776970,9.880783,79.639503,97.296249

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19.4292278,-1.246361,9.679267,1.781756,9.920498,79.653336,97.337379

19.4317474,-1.208076,9.650553,1.793720,9.889896,79.550499,97.135292

19.4342632,-1.227219,9.681660,1.748256,9.914484,79.843727,97.224121

19.4367809,-1.215255,9.648160,1.729113,9.876925,79.917503,97.179008

19.4392986,-1.198505,9.636196,1.714756,9.860683,79.985443,97.089775

19.4418144,-1.174577,9.643374,1.760220,9.872825,79.729858,96.944504

19.4443226,-1.191327,9.648160,1.769791,9.881215,79.682266,97.039085

19.4468384,-1.153041,9.600304,1.748256,9.826075,79.751366,96.848686

19.4493561,-1.133899,9.631411,1.750649,9.854672,79.767288,96.714485

19.4518719,-1.112363,9.643374,1.748256,9.863489,79.790657,96.579987

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19.4569073,-1.050150,9.645767,1.757827,9.860710,79.731239,96.213409

19.4594231,-1.040579,9.595518,1.750649,9.809258,79.719398,96.189209

19.4619408,-1.038186,9.629018,1.784148,9.847792,79.561943,96.153770

19.4644489,-1.001994,9.614660,1.772184,9.827834,79.611427,95.949615

19.4669666,-0.958924,9.585947,1.762613,9.793708,79.631752,95.712540

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19.4720001,-0.937388,9.638589,1.719542,9.835544,79.931267,95.554756

19.4745178,-0.923031,9.554840,1.741078,9.755937,79.719727,95.517853

19.4770336,-0.889532,9.538090,1.731506,9.734708,79.754318,95.328049

19.4795513,-0.901496,9.578768,1.729113,9.775240,79.811508,95.376495

19.4820671,-0.877568,9.528519,1.724328,9.722968,79.784798,95.262047

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19.4870968,-0.841675,9.535697,1.810469,9.742471,79.290314,95.044182

19.4896126,-0.856032,9.538090,1.762613,9.737287,79.571007,95.128487

19.4921303,-0.848854,9.540483,1.796113,9.745121,79.379158,95.084442

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19.5072212,-0.867996,9.533304,1.755435,9.732362,79.608635,95.202370

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19.5122566,-0.817747,9.566804,1.753042,9.760410,79.653107,94.885628

19.5147705,-0.832104,9.562018,1.724328,9.751815,79.815338,94.973450

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19.5248337,-0.798605,9.629018,1.731506,9.816001,79.840073,94.741104

19.5273495,-0.863211,9.652946,1.724328,9.843668,79.911377,95.110062

19.5298672,-0.832104,9.662517,1.757827,9.856297,79.726585,94.921982

19.5323811,-0.846461,9.664909,1.748256,9.858163,79.785088,95.005241

19.5348988,-0.908674,9.617053,1.738685,9.815112,79.796570,95.397614

19.5374165,-0.944567,9.614660,1.748256,9.817856,79.742691,95.610870

19.5399303,-0.980459,9.612267,1.757827,9.820741,79.688988,95.824074

19.5424480,-1.009472,9.617053,1.731506,9.823689,79.848114,95.992218

19.5449295,-1.052543,9.571589,1.772184,9.791007,79.571915,96.275337

19.5474453,-1.054936,9.569197,1.798505,9.793724,79.418236,96.291046

19.5499592,-1.035793,9.552447,1.817947,9.778909,79.286102,96.188530

19.5524750,-1.019043,9.588340,1.774577,9.804276,79.571968,96.066589

19.5549908,-1.059721,9.636196,1.769791,9.854514,79.654007,96.275772

19.5575066,-1.033400,9.612267,1.774577,9.829177,79.598679,96.136215

19.5600224,-1.028615,9.590733,1.760220,9.805028,79.658066,96.121620

19.5625362,-1.021436,9.595518,1.745863,9.806393,79.744781,96.076218

19.5650826,-1.040579,9.588340,1.762613,9.804380,79.643166,96.193810

19.5676098,-1.007079,9.590733,1.767399,9.804084,79.614418,95.994400

19.5701237,-1.062114,9.640982,1.762613,9.858165,79.700287,96.286728

19.5726414,-1.031007,9.667302,1.753042,9.878910,79.778564,96.087524

19.5751591,-1.028615,9.626625,1.817947,9.850629,79.365021,96.098969

19.5776749,-0.990030,9.617053,1.791327,9.832433,79.502914,95.877625

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19.5827065,-0.939781,9.650553,1.820340,9.865597,79.367203,95.561989

19.5852222,-0.944567,9.660124,1.841875,9.879408,79.255150,95.584625

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19.5902538,-0.951745,9.633803,1.810469,9.848542,79.407005,95.642075

19.5927715,-0.946960,9.624231,1.791327,9.835214,79.505913,95.619431

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19.5978031,-0.920639,9.631411,1.889732,9.858130,78.948410,95.460144

19.6003208,-0.870389,9.638589,1.820340,9.847518,79.347458,95.159958

19.6028347,-0.903889,9.612267,1.812862,9.823399,79.365372,95.372009

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19.6154156,-0.829711,9.583553,1.776970,9.782154,79.533867,94.948135

19.6179333,-0.817747,9.550055,1.774577,9.747890,79.510971,94.894157

19.6204472,-0.789033,9.619446,1.755435,9.810090,79.691879,94.689178

19.6229649,-0.769891,9.629018,1.774577,9.821398,79.590347,94.571373

19.6254654,-0.769891,9.631411,1.779363,9.824609,79.565414,94.570244

19.6279812,-0.772283,9.609875,1.748256,9.798087,79.721771,94.594620

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19.6330128,-0.741177,9.621839,1.719542,9.802344,79.896812,94.404831

19.6355286,-0.743570,9.597911,1.705185,9.776525,79.955307,94.429970

19.6380444,-0.757927,9.605089,1.709971,9.785509,79.936172,94.511795

19.6405621,-0.755534,9.590733,1.693221,9.768315,80.018044,94.504318

19.6430759,-0.719342,9.547662,1.686043,9.722039,80.012993,94.308655

19.6455727,-0.688236,9.595518,1.709971,9.770959,79.921028,94.102501

19.6480885,-0.709771,9.590733,1.659722,9.759130,80.208191,94.232513

19.6506023,-0.688236,9.585947,1.642972,9.750047,80.298851,94.106583

19.6531200,-0.659522,9.573982,1.693221,9.744901,79.993813,93.940704

19.6556339,-0.657129,9.585947,1.678864,9.754014,80.088875,93.921562

19.6581497,-0.681057,9.581161,1.688435,9.752604,80.030342,94.065910

19.6606636,-0.657129,9.605089,1.707578,9.777801,79.942390,93.913773

19.6631813,-0.678664,9.590733,1.717149,9.766850,79.873962,94.047646

19.6657257,-0.693021,9.609875,1.698007,9.783312,80.005043,94.124779

19.6682549,-0.669093,9.640982,1.686043,9.810145,80.103600,93.970016

19.6707706,-0.654736,9.636196,1.678864,9.803242,80.139145,93.887016

19.6732883,-0.645165,9.626625,1.664507,9.790748,80.211708,93.834160

19.6758022,-0.671486,9.626625,1.693221,9.797439,80.048012,93.990089

19.6783199,-0.654736,9.669696,1.669293,9.834543,80.227432,93.873589

19.6808376,-0.673879,9.655338,1.726721,9.831644,79.884743,93.992393

19.6833534,-0.702593,9.688838,1.729113,9.866967,79.907219,94.147583

19.6858673,-0.690628,9.674481,1.726721,9.851605,79.905457,94.083221

19.6883831,-0.666700,9.652946,1.705185,9.825045,80.005424,93.950974

19.6909008,-0.695414,9.619446,1.693221,9.792055,80.042488,94.134865

19.6934185,-0.685843,9.621839,1.721935,9.798736,79.878838,94.077133

19.6959324,-0.700200,9.583553,1.712364,9.760480,79.895821,94.178757

19.6984501,-0.726521,9.624231,1.662114,9.793686,80.228874,94.316994

19.7009678,-0.700200,9.602696,1.724328,9.781379,79.846451,94.170456

19.7034817,-0.738784,9.583553,1.750649,9.770111,79.677757,94.408142

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19.7085114,-0.803390,9.550055,1.690828,9.731797,79.994507,94.808640

19.7110291,-0.824926,9.569197,1.698007,9.753628,79.974304,94.927078

19.7135448,-0.827318,9.552447,1.726721,9.742447,79.791145,94.949921

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19.7537651,-1.095614,9.593125,1.781756,9.818507,79.544655,96.515419

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19.8771019,-0.901496,9.576375,1.738685,9.774593,79.753822,95.377831

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19.8821335,-0.918246,9.612267,1.762613,9.815583,79.655113,95.456825

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19.9098110,-0.731306,9.638589,1.683650,9.811824,80.119492,94.338875

19.9123287,-0.724128,9.643374,1.683650,9.815992,80.123726,94.294319

19.9148464,-0.719342,9.626625,1.654936,9.794293,80.272095,94.273445

19.9173603,-0.724128,9.600304,1.664507,9.770403,80.191124,94.313515

19.9198780,-0.700200,9.585947,1.674079,9.756187,80.119637,94.177719

19.9223938,-0.707378,9.573982,1.626222,9.736843,80.385551,94.225647

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19.9274254,-0.693021,9.581161,1.626222,9.742870,80.391556,94.137093

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19.9374905,-0.673879,9.636196,1.642972,9.798456,80.347237,94.000298

19.9400082,-0.685843,9.593125,1.599901,9.749776,80.555267,94.089302

19.9425220,-0.702593,9.588340,1.619044,9.749420,80.440857,94.190903

19.9450397,-0.685843,9.595518,1.676471,9.764983,80.114372,94.088280

19.9475174,-0.714557,9.590733,1.657329,9.759072,80.222389,94.260941

19.9500351,-0.709771,9.626625,1.642972,9.791580,80.340401,94.216789

19.9525490,-0.724128,9.619446,1.669293,9.790028,80.182556,94.304962

19.9550648,-0.678664,9.640982,1.659722,9.806314,80.255768,94.026619

19.9575787,-0.683450,9.636196,1.666900,9.803160,80.210030,94.056923

19.9600964,-0.700200,9.660124,1.611865,9.818675,80.551376,94.145752

19.9626102,-0.704985,9.660124,1.592723,9.815893,80.661926,94.173981

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19.9702034,-0.676271,9.626625,1.666900,9.793254,80.200027,94.018433

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19.9878178,-0.712164,9.595518,1.700400,9.771003,79.978073,94.244621

19.9903355,-0.736092,9.583553,1.724328,9.765225,79.829475,94.392143

19.9928513,-0.728914,9.614660,1.724328,9.795218,79.860947,94.335457

19.9953690,-0.750748,9.593125,1.729113,9.776580,79.812920,94.474785

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20.0255642,-0.762712,9.664909,1.714756,9.845435,79.969772,94.512184

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20.0356274,-0.714557,9.691231,1.757827,9.875247,79.746513,94.216919

20.0381432,-0.661915,9.688838,1.772184,9.871796,79.658203,93.908218

20.0406590,-0.654736,9.700802,1.788934,9.886078,79.574615,93.861206

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20.0481720,-0.630808,9.705587,1.784148,9.888353,79.605232,93.718666

20.0506878,-0.630808,9.679267,1.743470,9.855243,79.810295,93.728752

20.0532017,-0.635594,9.674481,1.765006,9.854685,79.682472,93.758812

20.0557194,-0.614058,9.650553,1.743470,9.825982,79.779625,93.640785

20.0582352,-0.630808,9.648160,1.724328,9.821314,79.888168,93.740738

20.0607491,-0.621237,9.638589,1.714756,9.809624,79.932777,93.687790

20.0632648,-0.599701,9.633803,1.755435,9.810778,79.692604,93.562050

20.0657806,-0.599701,9.617053,1.757827,9.794760,79.661339,93.568237

20.0683022,-0.602094,9.600304,1.753042,9.777602,79.671501,93.588669

20.0708179,-0.561416,9.566804,1.750649,9.741853,79.647484,93.358482

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20.0758495,-0.549452,9.518948,1.705185,9.686069,79.860519,93.303558

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20.0884571,-0.580559,9.605089,1.688435,9.769627,80.047890,93.458908

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20.1010513,-0.568594,9.626625,1.676471,9.788042,80.137894,93.380234

20.1035690,-0.580559,9.640982,1.633401,9.795589,80.401169,93.446060

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20.1262112,-0.908674,9.957133,1.788934,10.157287,79.855972,95.214294

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20.1387920,-0.561416,9.530911,1.719542,9.701045,79.790184,93.371101

20.1413078,-0.637986,9.542876,1.714756,9.716682,79.835464,93.824799

20.1438236,-0.676271,9.614660,1.755435,9.796968,79.677917,94.023415

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20.1488590,-0.733699,9.696016,1.724328,9.875442,79.944176,94.327332

20.1513729,-0.681057,9.667302,1.726721,9.843888,79.897453,94.029808

20.1538906,-0.714557,9.626625,1.712364,9.803810,79.940948,94.245117

20.1564064,-0.712164,9.645767,1.676471,9.816239,80.166504,94.222588

20.1589222,-0.700200,9.626625,1.743470,9.808256,79.760956,94.160126

20.1614399,-0.712164,9.612267,1.705185,9.788284,79.967499,94.237251

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20.1664734,-0.724128,9.597911,1.721935,9.778002,79.857147,94.314590

20.1689873,-0.738784,9.595518,1.726721,9.777594,79.828232,94.402664

20.1714649,-0.745962,9.602696,1.762613,9.791580,79.629478,94.441963

20.1739807,-0.748355,9.581161,1.714756,9.762124,79.883278,94.466133

20.1764965,-0.745962,9.612267,1.731506,9.795421,79.818504,94.437561

20.1790104,-0.784248,9.631411,1.736292,9.818035,79.813828,94.655098

20.1815262,-0.800997,9.621839,1.664507,9.797548,80.218567,94.758774

20.1840439,-0.784248,9.614660,1.714756,9.797812,79.920517,94.663170

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20.1915932,-0.808176,9.619446,1.681257,9.798648,80.120277,94.802414

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20.1966267,-0.824926,9.595518,1.678864,9.776148,80.111542,94.913628

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20.2142735,-0.728914,9.662517,1.654936,9.830277,80.308052,94.314064

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20.4029865,-0.844068,9.600304,1.781756,9.800660,79.525406,95.024582

20.4055023,-0.870389,9.573982,1.767399,9.774579,79.582718,95.194588

20.4080181,-0.863211,9.545269,1.791327,9.750187,79.413353,95.167397

20.4105358,-0.851247,9.487542,1.820340,9.698027,79.181290,95.126999

20.4130173,-0.841675,9.480363,1.817947,9.689718,79.186302,95.073471

20.4155350,-0.805783,9.446864,1.810469,9.652477,79.189270,94.875320

20.4180489,-0.860818,9.420543,1.820340,9.633342,79.107758,95.221001

20.4205647,-0.853639,9.446864,1.779363,9.650806,79.375336,95.163353

20.4230785,-0.851247,9.466006,1.781756,9.669775,79.381989,95.138596

20.4255962,-0.796212,9.410972,1.796113,9.613863,79.232430,94.835968

20.4281120,-0.772283,9.475577,1.808077,9.677403,79.231873,94.659454

20.4306259,-0.755534,9.480363,1.781756,9.675886,79.388779,94.556534

20.4331474,-0.765105,9.432507,1.803291,9.633765,79.211487,94.637314

20.4356651,-0.743570,9.451650,1.788934,9.648153,79.314537,94.498245

20.4381790,-0.755534,9.449257,1.774577,9.644087,79.396774,94.571472

20.4406948,-0.786640,9.492328,1.796113,9.692735,79.321083,94.737343

20.4432106,-0.822533,9.514162,1.798505,9.717533,79.334297,94.941139

20.4457264,-0.848854,9.523733,1.803291,9.730052,79.319504,95.093338

20.4482403,-0.839283,9.540483,1.757827,9.737308,79.599663,95.027405

20.4507580,-0.870389,9.559626,1.748256,9.757071,79.678093,95.202347

20.4532757,-0.901496,9.595518,1.784148,9.801522,79.512108,95.367165

20.4557896,-0.923031,9.605089,1.779363,9.812026,79.551880,95.489166

20.4583054,-0.978066,9.636196,1.822733,9.855721,79.342278,95.795631

20.4608212,-0.985245,9.657731,1.815255,9.876114,79.408676,95.824944

20.4633369,-0.982852,9.681660,1.767399,9.890613,79.706268,95.796631

20.4658546,-0.999602,9.688838,1.810469,9.907098,79.470329,95.890388

20.4683685,-1.021436,9.681660,1.839482,9.907652,79.300224,96.022552

20.4708843,-1.009472,9.662517,1.851447,9.889951,79.210297,95.964226

20.4734039,-1.028615,9.715159,1.841875,9.941573,79.323128,96.043808

20.4759197,-1.033400,9.722338,1.791327,9.939850,79.617615,96.067268

20.4784374,-1.031007,9.741480,1.745863,9.950248,79.894615,96.041512

20.4809513,-1.014258,9.707980,1.774577,9.920823,79.695824,95.964432

20.4834671,-1.011865,9.703195,1.798505,9.920205,79.554672,95.953377

20.4859829,-1.001994,9.698409,1.738685,9.903845,79.888954,95.898605

20.4884987,-0.994816,9.691231,1.717149,9.892331,80.003738,95.860947

20.4910164,-0.970888,9.631411,1.729113,9.833439,79.872444,95.756218

20.4935303,-0.958924,9.652946,1.712364,9.850435,79.989052,95.673149

20.4960461,-0.949352,9.676874,1.700400,9.870893,80.080521,95.603088

20.4985600,-0.923031,9.696016,1.738685,9.893824,79.878601,95.437996

20.5010777,-0.927817,9.631411,1.676471,9.820156,80.170471,95.502464

20.5035915,-0.906282,9.648160,1.724328,9.842848,79.910522,95.366226

20.5061092,-0.925424,9.679267,1.743470,9.878477,79.834518,95.461388

20.5086250,-0.901496,9.681660,1.714756,9.873582,79.998665,95.319687

20.5111389,-0.930210,9.662517,1.736292,9.861249,79.858940,95.498917

20.5136642,-0.939781,9.645767,1.709971,9.841139,79.993645,95.564728

20.5161800,-0.927817,9.655338,1.717149,9.850635,79.960991,95.488907

20.5186958,-0.937388,9.621839,1.724328,9.819969,79.886772,95.564369

20.5212116,-0.911067,9.640982,1.683650,9.829204,80.137138,95.398384

20.5237274,-0.954138,9.672089,1.726721,9.871233,79.925735,95.633919

20.5262432,-0.927817,9.626625,1.698007,9.819164,80.041908,95.505180

20.5287609,-0.903889,9.626625,1.712364,9.819426,79.957108,95.364044

20.5312748,-0.918246,9.631411,1.745863,9.831342,79.771088,95.446045

20.5338230,-0.889532,9.624231,1.719542,9.817022,79.912079,95.280632

20.5363407,-0.906282,9.605089,1.733899,9.802320,79.811531,95.390144

20.5388565,-0.858425,9.569197,1.750649,9.765818,79.673172,95.126122

20.5413742,-0.851247,9.562018,1.733899,9.755164,79.761757,95.087273

20.5438900,-0.865604,9.550055,1.719542,9.742158,79.833733,95.179054

20.5464077,-0.841675,9.530911,1.714756,9.720447,79.839439,95.046700

20.5489254,-0.812962,9.509377,1.695614,9.693516,79.925850,94.886368

20.5514412,-0.832104,9.502198,1.748256,9.697452,79.613930,95.004608

20.5539360,-0.822533,9.506984,1.733899,9.698748,79.701553,94.944847

20.5564537,-0.822533,9.473185,1.717149,9.662628,79.763573,94.962402

20.5589695,-0.800997,9.454042,1.765006,9.650687,79.461914,94.842842

20.5614853,-0.836890,9.487542,1.736292,9.681351,79.668449,95.040977

20.5640030,-0.858425,9.475577,1.738685,9.671944,79.643883,95.176491

20.5665188,-0.812962,9.485149,1.724328,9.674827,79.733421,94.898788

20.5690346,-0.860818,9.506984,1.726721,9.700789,79.746834,95.173790

20.5715504,-0.834497,9.535697,1.738685,9.728768,79.705032,95.001381

20.5740795,-0.820140,9.569197,1.719542,9.756996,79.849358,94.898636

20.5765972,-0.848854,9.535697,1.755435,9.733017,79.609344,95.086975

20.5791149,-0.844068,9.552447,1.762613,9.750308,79.585091,95.049622

20.5816288,-0.853639,9.590733,1.726721,9.782250,79.833122,95.086304

20.5841465,-0.856032,9.597911,1.729113,9.789919,79.826950,95.096695

20.5866642,-0.875175,9.578768,1.781756,9.782299,79.505524,95.220398

20.5891800,-0.832104,9.619446,1.738685,9.810666,79.791901,94.943909

20.5916977,-0.834497,9.617053,1.738685,9.808523,79.789642,94.959282

20.5942078,-0.882353,9.631411,1.769791,9.832334,79.630409,95.234375

20.5967255,-0.946960,9.550055,1.825125,9.768898,79.232140,95.662796

20.5992413,-0.966102,9.487542,2.045265,9.753457,77.895439,95.814301

20.6017590,-0.899103,9.480363,2.059622,9.743085,77.795990,95.417641

20.6042747,-0.832104,9.585947,1.853839,9.798954,79.094627,94.961098

20.6067905,-0.774676,9.719945,1.595115,9.880377,80.709351,94.556824

20.6093082,-0.755534,9.818350,1.451247,9.953740,81.616440,94.400307

20.6118259,-0.789033,9.844670,1.520639,9.992620,81.246941,94.582359

20.6143379,-0.834497,9.811171,1.599901,9.975728,80.771080,94.861633

20.6168556,-0.882353,9.806385,1.674079,9.987306,80.350494,95.141479

20.6193714,-0.841675,9.772886,1.683650,9.952508,80.260529,94.922371

20.6218872,-0.836890,9.746265,1.654936,9.921134,80.397652,94.907822

20.6244030,-0.863211,9.734302,1.638186,9.908855,80.483856,95.067574

20.6269207,-0.856032,9.734302,1.650150,9.910218,80.415039,95.025650

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20.6319523,-0.781855,9.684052,1.602294,9.846802,80.635056,94.615837