#	t0	x0	v0	w0	t1	x1	v1	w1	p	r min	r max
1	0.238901964	0.162231245	3.354922903	-4.195369786	0.838249626	-1.181926459	-2.242701171	-1.44897466	1	1.41E-11	4.41E-05
2	0.238901964	-0.162231245	-3.354922903	-4.195369786	0.838249626	1.181926459	2.242701171	-1.44897466	1	1.50E-11	4.41E-05
3	0.139465542	-0.523092783	-0.912730386	-4.061731792	0.269892292	0.270593145	6.085300207	-1.996672643	1	1.53E-12	2.43E-05
4	0.139465542	0.523092783	0.912730386	-4.061731792	0.269892292	-0.270593145	-6.085300207	-1.996672643	1	1.42E-12	2.43E-05
5	0.269892292	-0.270593145	-6.085300207	-1.996672643	1.139465542	0.523092783	0.912730386	-4.061731792	1	3.69E-12	2.43E-05
6	0.838249626	-1.181926459	-2.242701171	-1.44897466	1.238901964	0.162231245	3.354922903	-4.195369786	1	1.44E-11	4.41E-05
7	0.269892292	0.270593145	6.085300207	-1.996672643	1.139465542	-0.523092783	-0.912730386	-4.061731792	1	7.15E-12	2.43E-05
8	0.838249626	1.181926459	2.242701171	-1.44897466	1.238901964	-0.162231245	-3.354922903	-4.195369786	1	1.41E-11	4.41E-05
9	0.777750419	0.040981884	1.566045976	-9.553281941	1.777750419	-1.525064092	-1.566045976	-0.256718059	2	9.16E-13	3.33E-05
10	0.222249581	0.040981884	1.566045976	-9.553281941	1.222249581	-1.525064092	-1.566045976	-0.256718059	2	2.34E-11	3.53E-05
11	0.772061083	0.032076507	0.42734588	-9.650681244	1.127820036	-0.67058313	-1.975100358	5.583667784	2	1.66E-11	5.12E-05
12	0.222249581	-0.040981884	-1.566045976	-9.553281941	1.222249581	1.525064092	1.566045976	-0.256718059	2	3.86E-11	3.53E-05
13	0.772061083	-0.032076507	-0.42734588	-9.650681244	1.127820036	0.67058313	1.975100358	5.583667784	2	2.24E-11	5.12E-05
14	0.780074108	0.03155469	1.829776179	-9.25211638	2.314706861	-0.819963212	-0.554867541	-5.413921834	2	1.01E-12	1.57E-05
15	0.780074108	-0.03155469	-1.829776179	-9.25211638	2.314706861	0.819963212	0.554867541	-5.413921834	2	4.20E-13	1.57E-05
16	0.777750419	-0.040981884	-1.566045976	-9.553281941	1.777750419	1.525064092	1.566045976	-0.256718059	2	4.33E-13	3.33E-05
17	0.219197492	0.059621405	1.142131345	-9.636622357	0.725056522	-1.646883832	-3.37347984	4.335422469	2	7.49E-11	6.78E-05
18	0.680836648	-6.14E-38	8.40E-37	-8.928287015	0.893024766	5.22E-37	4.05E-36	0.299474976	2	1.48E-11	3.47E-05
19	0.73524472	3.99E-31	7.27E-30	-8.987062703	1.101783671	-6.45E-30	-1.77E-29	2.546877251	2	3.46E-12	7.15E-05
20	0.219197492	-0.059621405	-1.142131345	-9.636622357	0.725056522	1.646883832	3.37347984	4.335422469	2	9.62E-11	6.78E-05
21	0.123108074	-0.726931036	-0.448607019	-8.881260314	0.233507752	0.120756931	7.678355479	-7.169324646	2	3.93E-11	7.92E-06
22	0.227576719	-0.07739724	-4.925822598	-8.873343741	1.944957287	1.314735942	0.810614262	-7.191643505	2	1.57E-11	1.02E-05
23	0.222249581	1.525064092	1.566045976	-0.256718059	1.222249581	-0.040981884	-1.566045976	-9.553281941	2	4.31E-11	3.53E-05
24	0.227576719	0.07739724	4.925822598	-8.873343741	1.944957287	-1.314735942	-0.810614262	-7.191643505	2	5.75E-12	1.02E-05
25	0.758266117	0.107740638	0.254525183	-9.643277849	0.835464805	-0.381660718	-6.339503504	4.900102929	2	9.93E-13	7.10E-06
26	0.123108074	0.726931036	0.448607019	-8.881260314	0.233507752	-0.120756931	-7.678355479	-7.169324646	2	3.35E-11	7.92E-06
27	0.222249581	-1.525064092	-1.566045976	-0.256718059	1.222249581	0.040981884	1.566045976	-9.553281941	2	1.31E-11	3.53E-05
28	0.236177619	-7.57E-34	-4.44E-33	-4.905	1.236177619	3.68E-33	4.44E-33	-4.905	2	1.49E-11	0.000125
29	0.758266117	-0.107740638	-0.254525183	-9.643277849	0.835464805	0.381660718	6.339503504	4.900102929	2	4.25E-13	7.10E-06
30	0.352473849	4.82E-36	3.64E-36	-6.463498678	0.805474808	-5.39E-37	-2.98E-35	-6.062247064	2	9.74E-13	3.16E-05
31	0.944957287	-1.314735942	-0.810614262	-7.191643505	1.227576719	0.07739724	4.925822598	-8.873343741	2	1.57E-11	1.02E-05
32	0.777750419	-1.525064092	-1.566045976	-0.256718059	1.777750419	0.040981884	1.566045976	-9.553281941	2	1.13E-12	3.33E-05
33	0.777750419	1.525064092	1.566045976	-0.256718059	1.777750419	-0.040981884	-1.566045976	-9.553281941	2	3.55E-12	3.33E-05
34	0.314706861	0.819963212	0.554867541	-5.413921834	0.780074108	-0.03155469	-1.829776179	-9.25211638	2	1.12E-12	1.57E-05
35	0.944957287	1.314735942	0.810614262	-7.191643505	1.227576719	-0.07739724	-4.925822598	-8.873343741	2	2.55E-11	1.02E-05
36	0.314706861	-0.819963212	-0.554867541	-5.413921834	0.780074108	0.03155469	1.829776179	-9.25211638	2	1.25E-12	1.57E-05
37	0.805474808	-1.31E-36	-7.45E-35	-6.062247064	2.352473849	1.23E-35	8.28E-36	-6.463498678	2	1.83E-12	3.16E-05
38	0.791766012	-0.024404613	-1.344513793	-14.55490141	2.212076987	2.099509068	1.495386375	0.603685512	3	2.00E-12	1.21E-05
39	0.791766012	0.024404613	1.344513793	-14.55490141	2.212076987	-2.099509068	-1.495386375	0.603685512	3	1.45E-12	1.21E-05
40	0.20806545	-0.029270074	-1.811820592	-14.53488604	1.803900291	2.514825275	1.594209678	-1.098620952	3	3.17E-12	1.36E-05
41	0.208102729	-0.028589279	-1.10736173	-14.58836531	1.208102729	2.18613418	2.214723459	4.651730613	3	5.95E-12	2.58E-05
42	0.206198387	0.041163723	0.825814912	-14.61205168	0.727949378	-2.005411263	-3.92251289	9.1076317	3	9.96E-11	5.44E-05
43	0.787128967	-0.036207546	-0.395478346	-14.61959358	1.075206568	1.036299038	3.722978052	10.99081594	3	2.44E-11	3.76E-05
44	0.208102729	0.028589279	1.10736173	-14.58836531	1.208102729	-2.18613418	-2.214723459	4.651730613	3	3.88E-12	2.58E-05
45	0.208102729	-0.028589279	-2.214723459	-14.46173061	2.208102729	2.18613418	1.10736173	-5.031634694	3	4.00E-12	9.44E-06
46	0.791897271	-0.028589279	-1.10736173	-14.58836531	1.791897271	2.18613418	2.214723459	4.651730613	3	1.41E-11	3.05E-05

47	0.20806545	0.029270074	1.811820592	-14.53488604	1.803900291	-2.514825275	-1.594209678	-1.098620952	3	1.40E-12	1.36E-05
48	0.791897271	-0.028589279	-2.214723459	-14.46173061	2.791897271	2.18613418	1.10736173	-5.031634694	3	9.87E-13	8.06E-06
49	0.791897271	0.028589279	1.10736173	-14.58836531	1.791897271	-2.18613418	-2.214723459	4.651730613	3	1.07E-11	3.05E-05
50	0.208102729	0.028589279	2.214723459	-14.46173061	2.208102729	-2.18613418	-1.10736173	-5.031634694	3	1.51E-12	9.44E-06
51	0.793420205	0.030107438	2.90341943	-14.192897	3.304217836	-1.390252226	-0.565700575	-10.017651	3	8.52E-12	4.79E-06
52	0.791897271	-2.18613418	-1.10736173	-5.031634694	1.791897271	0.028589279	2.214723459	-14.46173061	3	8.71E-13	8.06E-06
53	0.787128967	0.036207546	0.395478346	-14.61959358	1.075206568	-1.036299038	-3.722978052	10.99081594	3	1.76E-11	3.76E-05
54	0.206198387	-0.041163723	-0.825814912	-14.61205168	0.727949378	2.005411263	3.92251289	9.1076317	3	1.81E-10	5.44E-05
55	0.793420205	-0.030107438	-2.90341943	-14.192897	3.304217836	1.390252226	0.565700575	-10.017651	3	1.06E-11	4.79E-06
56	0.304217836	-1.390252226	-0.565700575	-10.017651	0.793420205	0.030107438	2.90341943	-14.192897	3	4.26E-12	4.79E-06
57	0.791897271	0.028589279	2.214723459	-14.46173061	2.791897271	-2.18613418	-1.10736173	-5.031634694	3	8.76E-13	8.06E-06
58	0.136321823	4.32E-47	1.47E-45	-4.203691521	2.317874289	-6.22E-47	-4.72E-46	-10.62953077	3	5.27E-12	2.80E-05
59	0.208102729	2.18613418	1.10736173	-5.031634694	1.208102729	-0.028589279	-2.214723459	-14.46173061	3	2.41E-12	9.44E-06
60	0.208102729	-2.18613418	-1.10736173	-5.031634694	1.208102729	0.028589279	2.214723459	-14.46173061	3	9.00E-13	9.44E-06
61	0.781118906	0.073226474	0.242899514	-14.61900169	0.875438298	-0.632561934	-7.48296181	10.83232394	3	2.10E-12	4.99E-06
62	0.407809735	-7.64E-44	-2.36E-44	-11.86108773	0.895800719	2.64E-44	1.66E-42	-4.763146084	3	4.90E-12	1.37E-05
63	0.781118906	-0.073226474	-0.242899514	-14.61900169	0.875438298	0.632561934	7.48296181	10.83232394	3	1.78E-12	4.99E-06
64	0.317874289	5.91E-45	4.91E-43	-10.62953077	1.136321823	-4.68E-44	-7.35E-44	-4.203691521	3	1.09E-11	2.80E-05
65	0.304217836	1.390252226	0.565700575	-10.017651	0.793420205	-0.030107438	-2.90341943	-14.192897	3	4.84E-12	4.79E-06
66	0.770048023	-1.02E-36	-1.39E-34	-8.854451029	2.226553395	3.48E-36	1.58E-34	-5.783885836	3	1.90E-11	2.66E-05
67	0.806223887	-0.020001893	-1.072334051	-19.52404236	2.182254941	2.793769355	2.044845746	5.938152662	4	1.25E-12	9.23E-06
68	0.806223887	0.020001893	1.072334051	-19.52404236	2.182254941	-2.793769355	-2.044845746	5.938152662	4	1.17E-12	9.23E-06
69	0.193497517	0.021497291	1.347726578	-19.51476541	1.801902049	-3.201719486	-2.003983895	3.685074387	4	2.49E-12	1.13E-05
70	0.193689198	-0.022280696	-2.289099647	-19.43525401	2.830746445	3.097631079	1.183103545	-6.34501613	4	4.60E-13	4.63E-06
71	0.193607357	0.020083493	1.566045976	-19.49419331	2.193607357	-3.11200846	-1.566045976	-0.125806693	4	1.38E-12	7.83E-06
72	0.193607357	-0.020083493	-1.566045976	-19.49419331	2.193607357	3.11200846	1.566045976	-0.125806693	4	1.72E-12	7.83E-06
73	0.193607357	-0.02324085	-0.904157066	-19.53594648	1.193607357	2.689230348	2.712471198	9.557839452	4	3.81E-12	1.85E-05
74	0.193607357	0.02324085	0.904157066	-19.53594648	1.193607357	-2.689230348	-2.712471198	9.557839452	4	2.05E-11	1.85E-05
75	0.806392643	0.020083493	1.566045976	-19.49419331	2.806392643	-3.11200846	-1.566045976	-0.125806693	4	6.81E-13	7.30E-06
76	0.192309521	0.032404703	0.687806074	-19.54656749	0.740709916	-2.34162647	-4.329010694	13.77801223	4	1.46E-11	3.85E-05
77	0.806392643	-0.02324085	-0.904157066	-19.53594648	1.806392643	2.689230348	2.712471198	9.557839452	4	3.58E-11	2.58E-05
78	0.806392643	-0.020083493	-1.566045976	-19.49419331	2.806392643	3.11200846	1.566045976	-0.125806693	4	1.60E-12	7.30E-06
79	0.806425679	-0.019429811	-1.820471734	-19.46232279	3.210235104	2.886390012	1.208839516	-4.066072143	4	2.09E-12	4.06E-06
80	0.193497517	-0.021497291	-1.347726578	-19.51476541	1.801902049	3.201719486	2.003983895	3.685074387	4	1.48E-12	1.13E-05
81	0.192309521	-0.032404703	-0.687806074	-19.54656749	0.740709916	2.34162647	4.329010694	13.77801223	4	7.85E-12	3.85E-05
82	0.806392643	0.02324085	0.904157066	-19.53594648	1.806392643	-2.689230348	-2.712471198	9.557839452	4	7.87E-12	2.58E-05
83	0.801212803	-0.040809785	-0.302987256	-19.55186449	0.997362641	1.111708339	5.875702653	16.37444721	4	7.68E-12	3.57E-06
84	0.806425679	0.019429811	1.820471734	-19.46232279	3.210235104	-2.886390012	-1.208839516	-4.066072143	4	5.30E-13	4.06E-06
85	0.193689198	0.022280696	2.289099647	-19.43525401	2.830746445	-3.097631079	-1.183103545	-6.34501613	4	8.51E-13	4.63E-06
86	0.193607357	-0.02324085	-2.712471198	-19.36783945	3.193607357	2.689230348	0.904157066	-9.894053516	4	1.66E-12	3.67E-06
87	0.806392643	0.02324085	2.712471198	-19.36783945	3.806392643	-2.689230348	-0.904157066	-9.894053516	4	3.97E-11	3.05E-06
88	0.193607357	0.02324085	2.712471198	-19.36783945	3.193607357	-2.689230348	-0.904157066	-9.894053516	4	2.88E-12	3.67E-06
89	0.806392643	-0.02324085	-2.712471198	-19.36783945	3.806392643	2.689230348	0.904157066	-9.894053516	4	2.24E-11	3.05E-06
90	0.807447231	-0.026558351	-3.574799105	-19.13233099	4.28737512	1.832594964	0.534250529	-14.59097429	4	2.00E-12	2.06E-06
91	0.801212803	0.040809785	0.302987256	-19.55186449	0.997362641	-1.111708339	-5.875702653	16.37444721	4	1.22E-12	3.57E-06
92	0.807447231	0.026558351	3.574799105	-19.13233099	4.28737512	-1.832594964	-0.534250529	-14.59097429	4	2.18E-12	2.06E-06
93	0.287164966	-4.08E-44	-2.05E-42	-11.28028656	1.834957678	-7.78E-44	6.36E-43	-8.776666228	4	2.51E-11	1.06E-05

94	0.193607357	-3.11200846	-1.566045976	-0.125806693	2.193607357	0.020083493	1.566045976	-19.49419331	4	1.33E-12	7.83E-06
95	0.806392643	3.11200846	1.566045976	-0.125806693	2.806392643	-0.020083493	-1.566045976	-19.49419331	4	1.64E-12	7.30E-06
96	0.210235104	2.886390012	1.208839516	-4.066072143	1.806425679	-0.019429811	-1.820471734	-19.46232279	4	1.03E-12	4.06E-06
97	0.806392643	-2.689230348	-0.904157066	-9.894053516	1.806392643	0.02324085	2.712471198	-19.36783945	4	2.99E-11	3.05E-06
98	0.178595843	0.01652408	1.711072836	-24.41818792	2.82837957	-4.004867142	-1.517629979	-1.564114965	5	1.22E-12	3.90E-06
99	0.821395625	-0.016362752	-1.278671185	-24.44130968	2.821395625	3.819650803	1.918006778	4.779464521	5	2.40E-12	6.67E-06
100	0.178604375	0.016362752	1.278671185	-24.44130968	2.178604375	-3.819650803	-1.918006778	4.779464521	5	7.28E-13	6.25E-06
101	0.178604375	-0.016362752	-1.278671185	-24.44130968	2.178604375	3.819650803	1.918006778	4.779464521	5	5.50E-12	6.25E-06
102	0.821367359	-0.015568702	-1.435522482	-24.42993126	3.180845845	3.774959294	1.606510938	1.272123451	5	2.39E-13	3.23E-06
103	0.178604375	-0.020083493	-0.783022988	-24.46209665	1.178604375	3.11200846	3.132091953	14.46338661	5	4.43E-12	1.37E-05
104	0.178604375	0.020083493	0.783022988	-24.46209665	1.178604375	-3.11200846	-3.132091953	14.46338661	5	2.49E-12	1.37E-05
105	0.821367359	0.015568702	1.435522482	-24.42993126	3.180845845	-3.774959294	-1.606510938	1.272123451	5	1.13E-12	3.23E-06
106	0.178595843	-0.01652408	-1.711072836	-24.41818792	2.82837957	4.004867142	1.517629979	-1.564114965	5	1.48E-12	3.90E-06
107	0.821449514	0.016524838	2.180568103	-24.37008727	4.200059424	-3.519026674	-1.046451531	-8.693505617	5	4.15E-13	1.79E-06
108	0.178604375	0.016362752	1.918006778	-24.39946452	3.178604375	-3.819650803	-1.278671185	-4.98869032	5	1.06E-12	3.11E-06
109	0.821395625	0.016362752	1.278671185	-24.44130968	2.821395625	-3.819650803	-1.918006778	4.779464521	5	1.79E-12	6.67E-06
110	0.822167123	0.023559186	4.067513555	-24.06864559	5.268555248	-2.228264619	-0.506438876	-19.15088738	5	5.28E-10	1.06E-06
111	0.178503541	0.017678517	1.126829672	-24.45042534	1.810469796	-3.777521842	-2.325538501	8.361504679	5	6.47E-12	9.44E-06
112	0.821395625	0.020083493	3.132091953	-24.27338661	4.821395625	-3.11200846	-0.783022988	-14.77790335	5	1.39E-12	1.44E-06
113	0.821243443	-0.017442226	-0.911684035	-24.45635342	2.160269341	3.320209415	2.49259678	11.20147224	5	1.14E-11	7.21E-06
114	0.177662535	0.027071047	0.608890765	-24.46787697	0.756684361	-2.664821737	-4.649035084	18.4086471	5	3.97E-12	2.83E-05
115	0.821395625	-0.016362752	-1.918006778	-24.39946452	3.821395625	3.819650803	1.278671185	-4.98869032	5	2.05E-12	2.71E-06
116	0.178697836	0.018815534	2.697548116	-24.33562009	3.851625025	-3.561027227	-0.974656609	-11.57484097	5	5.63E-12	2.08E-06
117	0.821449514	-0.016524838	-2.180568103	-24.37008727	4.200059424	3.519026674	1.046451531	-8.693505617	5	2.57E-13	1.79E-06
118	0.178503541	-0.017678517	-1.126829672	-24.45042534	1.810469796	3.777521842	2.325538501	8.361504679	5	2.96E-12	9.44E-06
119	0.821395625	-0.020083493	-0.783022988	-24.46209665	1.821395625	3.11200846	3.132091953	14.46338661	5	1.48E-11	2.23E-05
120	0.821243443	0.017442226	0.911684035	-24.45635342	2.160269341	-3.320209415	-2.49259678	11.20147224	5	9.59E-12	7.21E-06
121	0.178604375	-0.016362752	-1.918006778	-24.39946452	3.178604375	3.819650803	1.278671185	-4.98869032	5	2.03E-12	3.11E-06
122	0.821395625	0.020083493	0.783022988	-24.46209665	1.821395625	-3.11200846	-3.132091953	14.46338661	5	9.96E-12	2.23E-05
123	0.178697836	-0.018815534	-2.697548116	-24.33562009	3.851625025	3.561027227	0.974656609	-11.57484097	5	3.43E-12	2.08E-06
124	0.178604375	-0.020083493	-3.132091953	-24.27338661	4.178604375	3.11200846	0.783022988	-14.77790335	5	3.24E-13	1.76E-06
125	0.178604375	0.020083493	3.132091953	-24.27338661	4.178604375	-3.11200846	-0.783022988	-14.77790335	5	1.70E-12	1.76E-06
126	0.821395625	0.016362752	1.918006778	-24.39946452	3.821395625	-3.819650803	-1.278671185	-4.98869032	5	5.72E-13	2.71E-06
127	0.177662535	-0.027071047	-0.608890765	-24.46787697	0.756684361	2.664821737	4.649035084	18.4086471	5	4.59E-12	2.83E-05
128	0.822167123	-0.023559186	-4.067513555	-24.06864559	5.268555248	2.228264619	0.506438876	-19.15088738	5	5.50E-10	1.06E-06
129	0.821395625	-0.020083493	-3.132091953	-24.27338661	4.821395625	3.11200846	0.783022988	-14.77790335	5	1.23E-12	1.44E-06
130	0.200059424	3.519026674	1.046451531	-8.693505617	1.821449514	-0.016524838	-2.180568103	-24.37008727	5	7.59E-13	1.79E-06
131	0.162884593	-0.013341027	-1.566045976	-29.34642936	3.162884593	4.684796902	1.566045976	-0.083570644	6	4.55E-13	2.65E-06
132	0.837115407	-0.013341027	-1.566045976	-29.34642936	3.837115407	4.684796902	1.566045976	-0.083570644	6	9.08E-13	2.48E-06
133	0.162884593	0.013341027	1.566045976	-29.34642936	3.162884593	-4.684796902	-1.566045976	-0.083570644	6	4.22E-13	2.65E-06
134	0.162862899	-0.013682398	-1.43171993	-29.35461031	2.837203074	4.747731053	1.780406806	3.100972475	6	1.09E-12	3.30E-06
135	0.162884593	-0.014155351	-2.214723459	-29.30459925	4.162884593	4.415291568	1.10736173	-9.872700374	6	4.10E-13	1.52E-06
136	0.162884593	-0.014155351	-1.10736173	-29.36729963	2.162884593	4.415291568	2.214723459	9.684599252	6	1.55E-12	4.79E-06
137	0.836980566	0.015750177	0.802103376	-29.37654797	2.14025363	-3.751510357	-2.890614898	16.45226117	6	6.09E-13	5.70E-06
138	0.837079557	0.013416224	1.218606656	-29.36182978	3.158779376	-4.468984857	-1.930654878	6.546121782	6	4.28E-12	2.61E-06
139	0.837079557	-0.013416224	-1.218606656	-29.36182978	3.158779376	4.468984857	1.930654878	6.546121782	6	4.87E-12	2.61E-06
140	0.837115407	-0.014155351	-1.10736173	-29.36729963	2.837115407	4.415291568	2.214723459	9.684599252	6	8.53E-12	5.75E-06

141	0.162896925	-0.013978507	-2.015971496	-29.3216202	3.849260057	4.650247471	1.265264927	-6.801243702	6	5.30E-12	1.79E-06
142	0.162798351	-0.01528912	-0.992447103	-29.37218947	1.822921332	4.291809256	2.594445367	12.99306584	6	3.85E-12	7.97E-06
143	0.837115407	0.014155351	1.10736173	-29.36729963	2.837115407	-4.415291568	-2.214723459	9.684599252	6	1.08E-11	5.75E-06
144	0.837115407	0.017939947	0.700357052	-29.37974253	1.837115407	-3.483845312	-3.501785259	19.36871263	6	9.91E-12	1.96E-05
145	0.837115407	0.013341027	1.566045976	-29.34642936	3.837115407	-4.684796902	-1.566045976	-0.083570644	6	8.09E-13	2.48E-06
146	0.837115409	-0.013153776	-1.715595942	-29.33597769	4.170504875	4.561672436	1.372424752	-3.345765658	6	8.71E-13	1.49E-06
147	0.162862899	0.013682398	1.43171993	-29.35461031	2.837203074	-4.747731053	-1.780406806	3.100972475	6	1.99E-12	3.30E-06
148	0.162884593	0.014155351	1.10736173	-29.36729963	2.162884593	-4.415291568	-2.214723459	9.684599252	6	2.11E-12	4.79E-06
149	0.837115409	0.013153776	1.715595942	-29.33597769	4.170504875	-4.561672436	-1.372424752	-3.345765658	6	1.72E-12	1.49E-06
150	0.162884593	-0.017939947	-0.700357052	-29.37974253	1.162884593	3.483845312	3.501785259	19.36871263	6	1.80E-11	1.04E-05
151	0.162884593	0.017939947	3.501785259	-29.17871263	5.162884593	-3.483845312	-0.700357052	-19.67025747	6	5.06E-12	9.81E-07
152	0.837168918	0.014563983	2.476846369	-29.27798868	5.186674452	-4.073457241	-0.939881831	-13.29633259	6	5.33E-13	9.45E-07
153	0.16297439	0.016678791	3.068417834	-29.2356583	4.871144772	-3.947194249	-0.841913677	-16.810475	6	9.81E-13	1.10E-06
154	0.162798351	0.01528912	0.992447103	-29.37218947	1.822921332	-4.291809256	-2.594445367	12.99306584	6	6.52E-12	7.97E-06
155	0.162884593	0.014155351	2.214723459	-29.30459925	4.162884593	-4.415291568	-1.10736173	-9.872700374	6	2.14E-12	1.52E-06
156	0.837115407	-0.014155351	-2.214723459	-29.30459925	4.837115407	4.415291568	1.10736173	-9.872700374	6	1.27E-12	1.27E-06
157	0.836980566	-0.015750177	-0.802103376	-29.37654797	2.14025363	3.751510357	2.890614898	16.45226117	6	1.29E-12	5.70E-06
158	0.162884593	0.017939947	0.700357052	-29.37974253	1.162884593	-3.483845312	-3.501785259	19.36871263	6	6.26E-12	1.04E-05
159	0.837115407	-0.017939947	-0.700357052	-29.37974253	1.837115407	3.483845312	3.501785259	19.36871263	6	8.61E-12	1.96E-05
160	0.162896925	0.013978507	2.015971496	-29.3216202	3.849260057	-4.650247471	-1.265264927	-6.801243702	6	3.28E-12	1.79E-06
161	0.162171428	-0.023390542	-0.557570801	-29.38323435	0.774416824	2.980664108	4.906618605	23.0123353	6	4.01E-11	2.14E-05
162	0.837115407	0.017939947	3.501785259	-29.17871263	5.837115407	-3.483845312	-0.700357052	-19.67025747	6	3.08E-13	7.70E-07
163	0.837702708	-0.021135198	-4.4513355	-29.00217523	6.248603259	2.601144092	0.484628994	-23.69751285	6	6.33E-13	5.99E-07
164	0.16297439	-0.016678791	-3.068417834	-29.2356583	4.871144772	3.947194249	0.841913677	-16.810475	6	6.59E-13	1.10E-06
165	0.837115407	0.014155351	2.214723459	-29.30459925	4.837115407	-4.415291568	-1.10736173	-9.872700374	6	4.12E-13	1.27E-06
166	0.837115407	-0.017939947	-3.501785259	-29.17871263	5.837115407	3.483845312	0.700357052	-19.67025747	6	3.20E-13	7.70E-07
167	0.162171428	0.023390542	0.557570801	-29.38323435	0.774416824	-2.980664108	-4.906618605	23.0123353	6	3.02E-11	2.14E-05
168	0.837702708	0.021135198	4.4513355	-29.00217523	6.248603259	-2.601144092	-0.484628994	-23.69751285	6	1.91E-13	5.99E-07
169	0.162884593	-0.017939947	-3.501785259	-29.17871263	5.162884593	3.483845312	0.700357052	-19.67025747	6	3.09E-12	9.81E-07
170	0.837168918	-0.014563983	-2.476846369	-29.27798868	5.186674452	4.073457241	0.939881831	-13.29633259	6	3.52E-13	9.45E-07
171	0.146128111	-0.011899802	-1.259928338	-34.27667588	2.85029196	5.400545901	2.001522838	7.71449891	7	6.24E-13	2.83E-06
172	0.145594607	0.020646723	0.521762795	-34.29539529	0.793642329	-3.29356565	-5.114148638	27.58945945	7	4.18E-12	1.65E-05
173	0.85381362	-0.012006376	-1.073766186	-34.28185682	3.138359313	5.05128901	2.216324848	11.8139157	7	2.90E-11	2.13E-06
174	0.146151122	-0.011545431	-1.356235599	-34.2723667	3.146151122	5.413396965	1.808314132	4.821488937	7	2.46E-12	2.28E-06
175	0.146151122	0.011545431	1.356235599	-34.2723667	3.146151122	-5.413396965	-1.808314132	4.821488937	7	1.19E-12	2.28E-06
176	0.853848878	-0.011545431	-1.356235599	-34.2723667	3.853848878	5.413396965	1.808314132	4.821488937	7	1.15E-12	2.33E-06
177	0.853727966	-0.014547405	-0.720506337	-34.2912414	2.120374356	4.116370205	3.261302949	21.71112981	7	1.05E-11	4.55E-06
178	0.853838465	-0.011292348	-1.456482555	-34.26740346	4.147670906	5.386676046	1.638810866	1.946445213	7	4.03E-13	1.22E-06
179	0.853848878	0.011545431	1.808314132	-34.25148894	4.853848878	-5.413396965	-1.356235599	-4.967633297	7	7.05E-13	1.17E-06
180	0.146151122	-0.011545431	-1.808314132	-34.25148894	4.146151122	5.413396965	1.356235599	-4.967633297	7	1.08E-12	1.33E-06
181	0.146148086	-0.011597495	-1.68606361	-34.25879016	3.858853223	5.53099075	1.492870573	-2.15411493	7	1.93E-12	1.54E-06
182	0.853838465	0.011292348	1.456482555	-34.26740346	4.147670906	-5.386676046	-1.638810866	1.946445213	7	4.66E-13	1.22E-06
183	0.146148086	0.011597495	1.68606361	-34.25879016	3.858853223	-5.53099075	-1.492870573	-2.15411493	7	1.42E-12	1.54E-06
184	0.146077618	-0.013604495	-0.900542095	-34.28776929	1.83780476	4.766718666	2.82570578	17.59095701	7	3.07E-12	6.81E-06
185	0.853848878	-0.016362752	-0.639335593	-34.29315484	1.853848878	3.819650803	3.836013556	24.27392904	7	6.16E-11	1.75E-05
186	0.853848878	0.016362752	0.639335593	-34.29315484	1.853848878	-3.819650803	-3.836013556	24.27392904	7	3.95E-11	1.75E-05
187	0.853848878	0.011545431	1.356235599	-34.2723667	3.853848878	-5.413396965	-1.808314132	4.821488937	7	1.42E-12	2.33E-06

188	0.146128111	0.011899802	1.259928338	-34.27667588	2.85029196	-5.400545901	-2.001522838	7.71449891	7	1.49E-12	2.83E-06
189	0.853848878	-0.012652797	-0.990454441	-34.28487193	2.853848878	4.939619409	2.476136103	14.58967981	7	3.38E-12	5.06E-06
190	0.853848878	0.012652797	0.990454441	-34.28487193	2.853848878	-4.939619409	-2.476136103	14.58967981	7	1.70E-12	5.06E-06
191	0.853857055	0.011571033	1.949337533	-34.24210974	5.156573303	-5.24634542	-1.221999349	-7.932877378	7	1.72E-12	7.94E-07
192	0.146151122	0.012652797	0.990454441	-34.28487193	2.146151122	-4.939619409	-2.476136103	14.58967981	7	1.58E-12	3.76E-06
193	0.853848878	-0.016362752	-3.836013556	-34.08392904	6.853848878	3.819650803	0.639335593	-24.56684516	7	1.21E-12	4.73E-07
194	0.853848878	-0.012652797	-2.476136103	-34.20967981	5.853848878	4.939619409	0.990454441	-14.76512807	7	2.59E-12	7.04E-07
195	0.146169148	-0.012374871	-2.28794044	-34.22495032	4.869059184	5.197517101	1.103115239	-12.04961098	7	2.74E-13	9.56E-07
196	0.853727966	0.014547405	0.720506337	-34.2912414	2.120374356	-4.116370205	-3.261302949	21.71112981	7	6.06E-12	4.55E-06
197	0.146151122	0.016362752	0.639335593	-34.29315484	1.146151122	-3.819650803	-3.836013556	24.27392904	7	1.03E-11	8.03E-06
198	0.146077618	0.013604495	0.900542095	-34.28776929	1.83780476	-4.766718666	-2.82570578	17.59095701	7	8.90E-12	6.81E-06
199	0.146151122	-0.012652797	-0.990454441	-34.28487193	2.146151122	4.939619409	2.476136103	14.58967981	7	8.96E-13	3.76E-06
200	0.85381362	0.012006376	1.073766186	-34.28185682	3.138359313	-5.05128901	-2.216324848	11.8139157	7	3.62E-11	2.13E-06
201	0.853897835	0.013121086	2.729881658	-34.18600785	6.17115058	-4.58057978	-0.863923738	-17.87440087	7	9.87E-13	5.49E-07
202	0.853857055	-0.011571033	-1.949337533	-34.24210974	5.156573303	5.24634542	1.221999349	-7.932877378	7	1.60E-12	7.94E-07
203	0.853848878	-0.011545431	-1.808314132	-34.25148894	4.853848878	5.413396965	1.356235599	-4.967633297	7	7.93E-13	1.17E-06
204	0.146151122	-0.012652797	-2.476136103	-34.20967981	5.146151122	4.939619409	0.990454441	-14.76512807	7	1.22E-13	8.45E-07
205	0.146169148	0.012374871	2.28794044	-34.22495032	4.869059184	-5.197517101	-1.103115239	-12.04961098	7	5.13E-13	9.56E-07
206	0.146151122	0.011545431	1.808314132	-34.25148894	4.146151122	-5.413396965	-1.356235599	-4.967633297	7	1.26E-12	1.33E-06
207	0.145594607	-0.020646723	-0.521762795	-34.29539529	0.793642329	3.29356565	5.114148638	27.58945945	7	1.49E-11	1.65E-05
208	0.853848878	0.012652797	2.476136103	-34.20967981	5.853848878	-4.939619409	-0.990454441	-14.76512807	7	1.59E-12	7.04E-07
209	0.146151122	0.016362752	3.836013556	-34.08392904	6.146151122	-3.819650803	-0.639335593	-24.56684516	7	1.93E-13	5.85E-07
210	0.853848878	0.016362752	3.836013556	-34.08392904	6.853848878	-3.819650803	-0.639335593	-24.56684516	7	3.22E-12	4.73E-07
211	0.853897835	-0.013121086	-2.729881658	-34.18600785	6.17115058	4.58057978	0.863923738	-17.87440087	7	3.33E-13	5.49E-07
212	0.146151122	0.012652797	2.476136103	-34.20967981	5.146151122	-4.939619409	-0.990454441	-14.76512807	7	3.71E-14	8.45E-07
213	0.146234798	0.015214274	3.417402245	-34.13515383	5.890820616	-4.275040969	-0.746834564	-22.063061	7	5.54E-13	6.47E-07
214	0.146234798	-0.015214274	-3.417402245	-34.13515383	5.890820616	4.275040969	0.746834564	-22.063061	7	3.08E-13	6.47E-07
215	0.146151122	-0.016362752	-0.639335593	-34.29315484	1.146151122	3.819650803	3.836013556	24.27392904	7	3.15E-12	8.03E-06
216	0.146151122	-0.016362752	-3.836013556	-34.08392904	6.146151122	3.819650803	0.639335593	-24.56684516	7	6.96E-13	5.85E-07
217	0.127942046	0.010322137	1.213053997	-39.18991476	3.127942046	-6.054947849	-2.021756662	9.726524605	8	3.38E-13	1.82E-06
218	0.872057954	0.011545431	0.904157066	-39.19824447	2.872057954	-5.413396965	-2.712471198	19.49473341	8	1.30E-12	4.51E-06
219	0.127878897	0.012326086	0.833365956	-39.2000521	1.854936288	-5.215330731	-3.026915518	22.15246999	8	3.68E-10	5.87E-06
220	0.127942046	0.0099933	1.566045976	-39.17740013	4.127942046	-6.254190606	-1.566045976	-0.062599866	8	4.89E-13	1.17E-06
221	0.127942046	-0.010322137	-1.213053997	-39.18991476	3.127942046	6.054947849	2.021756662	9.726524605	8	4.53E-13	1.82E-06
222	0.872057954	-0.0099933	-1.566045976	-39.17740013	4.872057954	6.254190606	1.566045976	-0.062599866	8	1.54E-13	1.08E-06
223	0.872045079	0.010075496	1.284349307	-39.1872378	4.125959698	-6.085555973	-1.873322501	7.242139855	8	5.56E-13	1.01E-06
224	0.127942046	0.015139666	0.591909742	-39.20415474	1.127942046	-4.128228529	-4.143368195	29.17908316	8	1.75E-12	6.21E-06
225	0.872056048	-0.009920351	-1.655798806	-39.1730411	5.132431293	6.182145852	1.453408643	-2.613055596	8	1.92E-12	6.65E-07
226	0.872056048	0.009920351	1.655798806	-39.1730411	5.132431293	-6.182145852	-1.453408643	-2.613055596	8	1.64E-12	6.65E-07
227	0.872045079	-0.010075496	-1.284349307	-39.1872378	4.125959698	6.085555973	1.873322501	7.242139855	8	7.38E-13	1.01E-06
228	0.127934929	-0.010105464	-1.482788883	-39.18114674	3.873266524	6.298669549	1.684436972	2.431440198	8	5.57E-13	1.33E-06
229	0.127920348	-0.010641649	-1.141462737	-39.19240176	2.866302264	5.99529933	2.193244464	12.28501657	8	1.22E-12	2.44E-06
230	0.872057954	-0.011545431	-0.904157066	-39.19824447	2.872057954	5.413396965	2.712471198	19.49473341	8	2.13E-12	4.51E-06
231	0.127942046	0.011545431	0.904157066	-39.19824447	2.127942046	-5.413396965	-2.712471198	19.49473341	8	2.04E-12	2.97E-06
232	0.127942046	-0.011545431	-0.904157066	-39.19824447	2.127942046	5.413396965	2.712471198	19.49473341	8	7.80E-12	2.97E-06
233	0.127934929	0.010105464	1.482788883	-39.18114674	3.873266524	-6.298669549	-1.684436972	2.431440198	8	5.99E-13	1.33E-06
234	0.127920348	0.010641649	1.141462737	-39.19240176	2.866302264	-5.99529933	-2.193244464	12.28501657	8	6.49E-13	2.44E-06

235	0.871947996	-0.013658417	-0.655917093	-39.20297161	2.099548332	4.428474282	3.618549596	26.99296327	8	4.02E-12	3.58E-06
236	0.872024851	-0.011000653	-0.967445096	-39.19646875	3.117653215	5.556037968	2.479056068	17.09883792	8	9.45E-13	1.71E-06
237	0.872057954	0.0099933	1.566045976	-39.17740013	4.872057954	-6.254190606	-1.566045976	-0.062599866	8	3.09E-13	1.08E-06
238	0.127942046	-0.0099933	-1.566045976	-39.17740013	4.127942046	6.254190606	1.566045976	-0.062599866	8	4.81E-13	1.17E-06
239	0.872057954	-0.010322137	-1.213053997	-39.18991476	3.872057954	6.054947849	2.021756662	9.726524605	8	3.65E-13	2.07E-06
240	0.872057954	-0.010322137	-2.021756662	-39.1565246	5.872057954	6.054947849	1.213053997	-9.860085237	8	8.21E-13	6.30E-07
241	0.127942046	0.011545431	2.712471198	-39.11473341	6.127942046	-5.413396965	-0.904157066	-19.66175553	8	7.15E-13	5.30E-07
242	0.872024851	0.011000653	0.967445096	-39.19646875	3.117653215	-5.556037968	-2.479056068	17.09883792	8	4.66E-13	1.71E-06
243	0.871947996	0.013658417	0.655917093	-39.20297161	2.099548332	-4.428474282	-3.618549596	26.99296327	8	2.68E-12	3.58E-06
244	0.127945314	-0.010269604	-1.911781674	-39.16290257	4.879923476	6.199239023	1.306720783	-7.429602595	8	2.08E-12	8.45E-07
245	0.127945314	0.010269604	1.911781674	-39.16290257	4.879923476	-6.199239023	-1.306720783	-7.429602595	8	2.11E-12	8.45E-07
246	0.872057954	0.015139666	0.591909742	-39.20415474	1.872057954	-4.128228529	-4.143368195	29.17908316	8	2.03E-10	1.57E-05
247	0.127497965	0.018485663	0.495882987	-39.20563857	0.814621312	-3.607845458	-5.277554809	32.13362008	8	1.38E-11	1.28E-05
248	0.872057954	0.011545431	2.712471198	-39.11473341	6.872057954	-5.413396965	-0.904157066	-19.66175553	8	1.89E-13	4.07E-07
249	0.127878897	-0.012326086	-0.833365956	-39.2000521	1.854936288	5.215330731	3.026915518	22.15246999	8	1.18E-10	5.87E-06
250	0.872057954	0.010322137	1.213053997	-39.18991476	3.872057954	-6.054947849	-2.021756662	9.726524605	8	2.27E-12	2.07E-06
251	0.872057954	-0.015139666	-0.591909742	-39.20415474	1.872057954	4.128228529	4.143368195	29.17908316	8	1.93E-10	1.57E-05
252	0.127961472	-0.011254469	-2.539362279	-39.1280993	5.889405727	5.673249549	0.986645668	-17.32324612	8	2.20E-13	5.72E-07
253	0.872057954	-0.011545431	-2.712471198	-39.11473341	6.872057954	5.413396965	0.904157066	-19.66175553	8	2.66E-13	4.07E-07
254	0.872068637	0.010426305	2.151441323	-39.14833122	6.140012465	-5.86743224	-1.115778516	-12.48607013	8	2.68E-13	4.50E-07
255	0.127942046	0.010322137	2.021756662	-39.1565246	5.127942046	-6.054947849	-1.213053997	-9.860085237	8	1.71E-13	7.47E-07
256	0.128019595	-0.014151037	-3.755175798	-39.03383595	6.911624654	4.553625804	0.673355362	-27.34413372	8	5.05E-13	4.07E-07
257	0.127961472	0.011254469	2.539362279	-39.1280993	5.889405727	-5.673249549	-0.986645668	-17.32324612	8	1.01E-12	5.72E-07
258	0.127942046	-0.015139666	-0.591909742	-39.20415474	1.127942046	4.128228529	4.143368195	29.17908316	8	1.50E-12	6.21E-06
259	0.127942046	-0.011545431	-2.712471198	-39.11473341	6.127942046	5.413396965	0.904157066	-19.66175553	8	7.23E-13	5.30E-07
260	0.127942046	0.015139666	4.143368195	-38.98908316	7.127942046	-4.128228529	-0.591909742	-29.46584526	8	8.57E-13	3.87E-07
261	0.872068637	-0.010426305	-2.151441323	-39.14833122	6.140012465	5.86743224	1.115778516	-12.48607013	8	3.27E-13	4.50E-07
262	0.128019595	0.014151037	3.755175798	-39.03383595	6.911624654	-4.553625804	-0.673355362	-27.34413372	8	6.65E-13	4.07E-07
263	0.127942046	-0.010322137	-2.021756662	-39.1565246	5.127942046	6.054947849	1.213053997	-9.860085237	8	4.79E-13	7.47E-07
264	0.872057954	0.010322137	2.021756662	-39.1565246	5.872057954	-6.054947849	-1.213053997	-9.860085237	8	5.01E-13	6.30E-07
265	0.872057954	0.015139666	4.143368195	-38.98908316	7.872057954	-4.128228529	-0.591909742	-29.46584526	8	1.80E-13	3.02E-07
266	0.872101846	0.011996205	2.949866128	-39.09418541	7.153529083	-5.057563375	-0.807071289	-22.42069548	8	1.88E-13	3.33E-07
267	0.127497965	-0.018485663	-0.495882987	-39.20563857	0.814621312	3.607845458	5.277554809	32.13362008	8	3.04E-11	1.28E-05
268	0.127942046	-0.015139666	-4.143368195	-38.98908316	7.127942046	4.128228529	0.591909742	-29.46584526	8	1.57E-12	3.87E-07
269	0.872426988	-0.017482002	-5.003723856	-38.86349519	8.204931043	3.322483383	0.455501335	-32.72613894	8	3.68E-13	2.42E-07
270	0.107434692	0.009053105	1.342509165	-44.09700839	3.891447018	-6.993458153	-1.850551916	6.957686123	9	4.66E-13	1.17E-06
271	0.107442818	0.00893542	1.400714104	-44.09493613	4.107442818	-6.994635098	-1.750892629	4.842420158	9	6.82E-13	1.06E-06
272	0.892557182	0.00893542	1.400714104	-44.09493613	4.892557182	-6.994635098	-1.750892629	4.842420158	9	4.69E-13	1.04E-06
273	0.107442818	-0.009420098	-1.10736173	-44.10327417	3.107442818	6.634750279	2.214723459	14.63154835	9	9.82E-13	1.48E-06
274	0.892557182	-0.01068573	-2.929803748	-44.01977163	7.892557182	5.848921765	0.837086785	-24.56077953	9	1.10E-13	2.63E-07
275	0.107442818	-0.00893542	-1.400714104	-44.09493613	4.107442818	6.994635098	1.750892629	4.842420158	9	1.80E-12	1.06E-06
276	0.892543982	0.00920679	1.158311623	-44.10175834	4.103133807	-6.696734307	-2.088694435	12.57113946	9	9.18E-13	8.19E-07
277	0.107442818	0.009420098	1.10736173	-44.10327417	3.107442818	-6.634750279	-2.214723459	14.63154835	9	1.62E-12	1.48E-06
278	0.892557182	0.014155351	0.553680865	-44.11364981	1.892557182	-4.415291568	-4.429446918	34.0841985	9	5.22E-12	8.44E-06
279	0.107442818	-0.014155351	-0.553680865	-44.11364981	1.107442818	4.415291568	4.429446918	34.0841985	9	2.08E-12	4.79E-06
280	0.107434692	-0.009053105	-1.342509165	-44.09700839	3.891447018	6.993458153	1.850551916	6.957686123	9	1.32E-13	1.17E-06
281	0.892557182	0.01068573	0.837086785	-44.10922047	2.892557182	-5.848921765	-2.929803748	24.39977163	9	5.17E-13	4.06E-06

282	0.107388027	-0.011303372	-0.782380978	-44.11036481	1.874848219	5.647298197	3.201544	26.66448651	9	9.63E-13	5.06E-06
283	0.107422995	0.009686398	1.054328245	-44.10476082	2.885384817	-6.550384196	-2.361468953	16.80306742	9	7.32E-13	2.15E-06
284	0.892557182	-0.00893542	-1.400714104	-44.09493613	4.892557182	6.994635098	1.750892629	4.842420158	9	3.99E-13	1.04E-06
285	0.892552165	-0.008840964	-1.460753898	-44.09267653	5.108529178	6.979439264	1.657570761	2.726892153	9	3.02E-12	5.49E-07
286	0.892557182	-0.01068573	-0.837086785	-44.10922047	2.892557182	5.848921765	2.929803748	24.39977163	9	1.65E-12	4.06E-06
287	0.892557182	0.009420098	2.214723459	-44.06154835	6.892557182	-6.634750279	-1.10736173	-14.75672583	9	1.89E-13	3.68E-07
288	0.107388027	0.011303372	0.782380978	-44.11036481	1.874848219	-5.647298197	-3.201544	26.66448651	9	7.67E-13	5.06E-06
289	0.107442818	-0.01068573	-0.837086785	-44.10922047	2.107442818	5.848921765	2.929803748	24.39977163	9	1.09E-12	2.30E-06
290	0.892552165	0.008840964	1.460753898	-44.09267653	5.108529178	-6.979439264	-1.657570761	2.726892153	9	3.05E-12	5.49E-07
291	0.892557182	-0.00893542	-1.750892629	-44.08242016	5.892557182	6.994635098	1.400714104	-4.955063873	9	1.77E-13	5.85E-07
292	0.107441495	0.008953683	1.68048017	-44.08555526	4.896526544	-7.067405388	-1.477601462	-2.888192505	9	2.44E-12	7.47E-07
293	0.107442818	0.01068573	0.837086785	-44.10922047	2.107442818	-5.848921765	-2.929803748	24.39977163	9	7.43E-13	2.30E-06
294	0.89255869	0.008936666	1.828562043	-44.07875641	6.113721266	-6.900902014	-1.323429137	-7.122548931	9	5.91E-13	3.87E-07
295	0.892543982	-0.00920679	-1.158311623	-44.10175834	4.103133807	6.696734307	2.088694435	12.57113946	9	1.11E-12	8.19E-07
296	0.107422995	-0.009686398	-1.054328245	-44.10476082	2.885384817	6.550384196	2.361468953	16.80306742	9	5.39E-13	2.15E-06
297	0.892557182	0.009420098	1.10736173	-44.10327417	3.892557182	-6.634750279	-2.214723459	14.63154835	9	1.24E-12	1.85E-06
298	0.107441495	-0.008953683	-1.68048017	-44.08555526	4.896526544	7.067405388	1.477601462	-2.888192505	9	2.73E-13	7.47E-07
299	0.892456221	-0.012995237	-0.602173708	-44.11292512	2.076613479	4.693499771	3.974552346	32.31671215	9	6.50E-12	2.74E-06
300	0.107442818	-0.014155351	-4.429446918	-43.8941985	8.107442818	4.415291568	0.553680865	-34.36635019	9	4.84E-13	2.63E-07
301	0.107442818	0.014155351	0.553680865	-44.11364981	1.107442818	-4.415291568	-4.429446918	34.0841985	9	8.81E-12	4.79E-06
302	0.892526391	-0.010247381	-0.884226626	-44.10815767	3.095264132	6.000072895	2.728568255	22.42245379	9	1.66E-13	1.36E-06
303	0.107448558	0.009334268	2.119624457	-44.06689173	5.902359461	-6.784250966	-1.172336443	-12.74627662	9	4.66E-11	5.15E-07
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305	0.892557182	-0.009420098	-1.10736173	-44.10327417	3.892557182	6.634750279	2.214723459	14.63154835	9	8.99E-14	1.85E-06
306	0.107442818	-0.00893542	-1.750892629	-44.08242016	5.107442818	6.994635098	1.400714104	-4.955063873	9	2.13E-13	6.84E-07
307	0.107442818	0.00893542	1.750892629	-44.08242016	5.107442818	-6.994635098	-1.400714104	-4.955063873	9	4.70E-13	6.84E-07
308	0.892568397	0.009544318	2.329041994	-44.05468014	7.120529912	-6.446649722	-1.036646425	-16.99150343	9	5.60E-13	2.88E-07
309	0.892557182	0.00893542	1.750892629	-44.08242016	5.892557182	-6.994635098	-1.400714104	-4.955063873	9	6.01E-13	5.85E-07
310	0.892526391	0.010247381	0.884226626	-44.10815767	3.095264132	-6.000072895	-2.728568255	22.42245379	9	6.74E-13	1.36E-06
311	0.107442818	-0.009420098	-2.214723459	-44.06154835	6.107442818	6.634750279	1.10736173	-14.75672583	9	2.52E-13	4.73E-07
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313	0.89255869	-0.008936666	-1.828562043	-44.07875641	6.113721266	6.900902014	1.323429137	-7.122548931	9	4.96E-13	3.87E-07
314	0.107442818	-0.01068573	-2.929803748	-44.01977163	7.107442818	5.848921765	0.837086785	-24.56077953	9	1.06E-12	3.50E-07
315	0.107082088	-0.016704736	-0.477171801	-44.11463786	0.838134839	3.929003713	5.397296492	36.62994598	9	6.47E-12	8.85E-06
316	0.892557182	-0.014155351	-0.553680865	-44.11364981	1.892557182	4.415291568	4.429446918	34.0841985	9	4.21E-12	8.44E-06
317	0.892456221	0.012995237	0.602173708	-44.11292512	2.076613479	-4.693499771	-3.974552346	32.31671215	9	9.74E-12	2.74E-06
318	0.107462156	0.01042384	2.778345165	-44.03095545	6.91158456	-6.090482064	-0.896648464	-22.64024609	9	1.23E-12	3.68E-07
319	0.107448558	-0.009334268	-2.119624457	-44.06689173	5.902359461	6.784250966	1.172336443	-12.74627662	9	1.23E-11	5.15E-07
320	0.892568397	-0.009544318	-2.329041994	-44.05468014	7.120529912	6.446649722	1.036646425	-16.99150343	9	5.54E-13	2.88E-07
321	0.107442818	0.01068573	2.929803748	-44.01977163	7.107442818	-5.848921765	-0.837086785	-24.56077953	9	6.18E-13	3.50E-07
322	0.107442818	0.009420098	2.214723459	-44.06154835	6.107442818	-6.634750279	-1.10736173	-14.75672583	9	3.13E-13	4.73E-07
323	0.892557182	0.01068573	2.929803748	-44.01977163	7.892557182	-5.848921765	-0.837086785	-24.56077953	9	3.83E-13	2.63E-07
324	0.917074922	0.009671615	0.815500931	-49.01809632	3.069129497	-6.390335183	-2.973905435	27.82200075	10	2.15E-12	1.03E-06
325	0.917097422	0.008070426	1.317485509	-49.00711279	5.081728651	-7.679943367	-1.846025103	8.134875233	10	2.23E-12	4.28E-07
326	0.917090637	0.008555409	1.059529874	-49.01340829	4.076867345	-7.238865514	-2.293649708	17.97337747	10	9.94E-13	6.30E-07
327	0.082897725	-0.008138248	-1.863025731	-48.98984022	5.922929386	7.741989808	1.327069527	-8.283563582	10	1.79E-12	4.50E-07
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329	0.917103483	-0.008719546	-1.025217747	-49.01424227	3.917103483	7.167804683	2.392174743	19.53656529	10	1.12E-12	1.69E-06
330	0.082896517	0.013341027	0.522015325	-49.02214312	1.082896517	-4.684796902	-4.698137929	38.98928807	10	3.67E-12	3.54E-06
331	0.917103483	0.0099933	0.783022988	-49.01870007	2.917103483	-6.254190606	-3.132091953	29.30480027	10	1.32E-13	3.70E-06
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352	0.08291508	0.009788833	3.012528585	-48.93328946	7.937614012	-6.452991958	-0.822791662	-28.03647288	10	1.04E-11	2.52E-07
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365	0.082896517	0.008155147	1.918006778	-48.98743349	6.082896517	-7.663871965	-1.278671185	-9.851711004	10	2.20E-13	4.28E-07
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374	0.917103483	0.008155147	1.278671185	-49.008289	4.917103483	-7.663871965	-1.918006778	9.747433494	10	1.58E-12	9.68E-07
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