

#	t0	x0	v0	w0	t1	x1	v1	w1	p	r min	r max
1	0.850581294	1.169586893	2.174248745	-1.57281324	1.237628585	-0.16312477	-3.44327862	-4.16899684	1	1.18E-10	4.32E-05
2	0.237628585	-0.16312477	-3.44327862	-4.16899684	0.850581294	1.169586893	2.174248745	-1.57281324	1	5.23E-11	4.32E-05
3	0.237628585	0.163124766	3.443278617	-4.16899684	0.850581294	-1.16958689	-2.17424875	-1.57281324	1	1.32E-10	4.32E-05
4	0.850581294	-1.16958689	-2.17424875	-1.57281324	1.237628585	0.163124766	3.443278617	-4.16899684	1	4.38E-11	4.32E-05
5	0.265735736	0.260702203	5.999604837	-2.17193164	1.130810225	-0.54879755	-0.93575728	-4.00765691	1	2.77E-10	2.58E-05
6	0.265735736	-0.2607022	-5.99960484	-2.17193164	1.130810225	0.548797547	0.935757278	-4.00765691	1	5.74E-11	2.58E-05
7	0.130810225	-0.54879755	-0.93575728	-4.00765691	0.265735736	0.260702203	5.999604837	-2.17193164	1	2.33E-11	2.58E-05
8	0.130810225	0.548797547	0.935757278	-4.00765691	0.265735736	-0.2607022	-5.99960484	-2.17193164	1	4.33E-11	2.58E-05
9	0.781226291	0.040981884	1.566045976	-9.55328194	1.781226291	-1.52506409	-1.56604598	-0.25671806	2	2.28E-10	3.33E-05
10	0.123924682	0.661227964	1.988580206	5.637436016	1.775228172	-0.03218301	-0.41991735	-9.65123579	2	6.30E-11	5.22E-05
11	0.781226291	1.525064092	1.566045976	-0.25671806	1.781226291	-0.04098188	-1.56604598	-9.55328194	2	3.44E-10	3.33E-05
12	0.781226291	-0.04098188	-1.56604598	-9.55328194	1.781226291	1.525064092	1.566045976	-0.25671806	2	2.27E-10	3.33E-05
13	0.218773709	0.040981884	1.566045976	-9.55328194	1.218773709	-1.52506409	-1.56604598	-0.25671806	2	5.78E-11	3.55E-05
14	0.967412642	-1.25220247	-0.76477553	-7.43975961	1.224591691	0.080664342	5.182641494	-8.77529483	2	3.19E-12	9.24E-06
15	0.781226291	-1.52506409	-1.56604598	-0.25671806	1.781226291	0.040981884	1.566045976	-9.55328194	2	1.96E-10	3.33E-05
16	0.224591691	-0.08066434	-5.18264149	-8.77529483	1.967412642	1.252202468	0.764775526	-7.43975961	2	7.18E-11	9.24E-06
17	0.218773709	-0.04098188	-1.56604598	-9.55328194	1.218773709	1.525064092	1.566045976	-0.25671806	2	4.18E-11	3.55E-05
18	0.218773709	-1.52506409	-1.56604598	-0.25671806	1.218773709	0.040981884	1.566045976	-9.55328194	2	6.16E-11	3.55E-05
19	0.783404483	0.031574843	1.823571536	-9.26036076	2.311245844	-0.82944021	-0.56355004	-5.3479823	2	6.24E-11	1.59E-05
20	0.123924682	-0.66122796	-1.98858021	5.637436016	1.775228172	0.032183014	0.419917345	-9.65123579	2	2.42E-10	5.22E-05
21	0.775228172	-0.03218301	-0.41991735	-9.65123579	1.123924682	0.661227964	1.988580206	5.637436016	2	5.65E-10	5.22E-05
22	0.775228172	0.032183014	0.419917345	-9.65123579	1.123924682	-0.66122796	-1.98858021	5.637436016	2	6.29E-11	5.22E-05
23	0.224591691	0.080664342	5.182641494	-8.77529483	1.967412642	-1.25220247	-0.76477553	-7.43975961	2	7.27E-11	9.24E-06
24	0.732586511	-1.65511958	-3.31680493	4.239152247	2.215781616	0.059021443	1.155708387	-9.63543431	2	6.50E-11	6.71E-05
25	0.218773709	1.525064092	1.566045976	-0.25671806	1.218773709	-0.04098188	-1.56604598	-9.55328194	2	1.89E-11	3.55E-05
26	0.311245844	0.829440212	0.563550037	-5.3479823	0.783404483	-0.03157484	-1.82357154	-9.26036076	2	1.62E-10	1.59E-05
27	0.737684214	-6.61E-26	-1.70E-24	-9.00244485	1.098419896	1.16E-24	2.87E-24	2.601470164	2	1.41E-10	7.38E-05
28	0.215781616	-0.05902144	-1.15570839	-9.63543431	0.732586511	1.65511958	3.316804931	4.239152247	2	1.38E-10	6.71E-05
29	0.228904705	-0.11115862	-7.18147807	-7.60602735	2.099994654	0.81460608	0.494772953	-8.69723664	2	7.57E-11	7.53E-06
30	0.234462162	-5.68E-26	-6.98E-26	-4.905	1.234462162	6.00E-27	1.71E-25	-4.905	2	6.04E-10	1.25E-04
31	0.215781616	0.059021443	1.155708387	-9.63543431	0.732586511	-1.65511958	-3.31680493	4.239152247	2	8.40E-11	6.71E-05
32	0.311245844	-0.82944021	-0.56355004	-5.3479823	0.783404483	0.031574843	1.823571536	-9.26036076	2	7.02E-11	1.59E-05
33	0.967412642	1.252202468	0.764775526	-7.43975961	1.224591691	-0.08066434	-5.18264149	-8.77529483	2	3.78E-11	9.24E-06
34	0.783404483	-0.03157484	-1.82357154	-9.26036076	2.311245844	0.829440212	0.563550037	-5.3479823	2	1.55E-10	1.59E-05
35	0.732586511	1.65511958	3.316804931	4.239152247	2.215781616	-0.05902144	-1.15570839	-9.63543431	2	2.92E-11	6.71E-05
36	0.349941646	8.51E-20	-1.16E-18	-6.43227672	0.808045396	-2.82E-20	-3.99E-18	-6.05281732	2	8.61E-10	3.19E-05
37	0.228904705	0.111158619	7.18147807	-7.60602735	2.099994654	-0.81460608	-0.49477295	-8.69723664	2	1.43E-10	7.53E-06
38	0.685399972	-5.72E-30	7.40E-31	-8.94690551	0.897896866	2.34E-30	1.37E-28	0.465138973	2	5.08E-11	3.45E-05
39	0.098419896	4.53E-27	1.05E-26	2.601470164	1.737684214	-2.42E-28	-6.66E-27	-9.00244485	2	8.13E-11	7.38E-05
40	0.808045396	1.25E-26	5.05E-25	-6.05281732	2.349941646	-3.53E-26	7.55E-26	-6.43227672	2	1.12E-09	3.19E-05
41	0.099994654	0.81460608	0.494772953	-8.69723664	0.228904705	-0.11115862	-7.18147807	-7.60602735	2	1.67E-10	7.53E-06
42	0.761712038	0.101553998	0.257427028	-9.64597786	0.843031276	-0.39236629	-6.07384309	5.142250038	2	9.98E-10	8.50E-06
43	0.099994654	-0.81460608	-0.49477295	-8.69723664	0.228904705	0.111158619	7.18147807	-7.60602735	2	1.28E-10	7.53E-06
44	0.897896866	6.61E-21	2.12E-20	0.465138973	2.685399972	-3.57E-22	-1.18E-20	-8.94690551	2	4.50E-11	3.45E-05
45	0.761712038	-0.101554	-0.25742703	-9.64597786	0.843031276	0.392366288	6.073843086	5.142250038	2	3.52E-10	8.50E-06
46	0.843031276	-0.39236629	-6.07384309	5.142250038	2.761712038	0.101553998	0.257427028	-9.64597786	2	1.81E-09	8.50E-06

47	0.79865467	-0.02994353	-2.87543566	-14.2052216	3.297831899	1.41014012	0.576223101	-9.90408568	3	3.25E-11	4.86E-06
48	0.202770352	0.028589279	2.214723459	-14.4617306	2.202770352	-2.18613418	-1.10736173	-5.03163469	3	9.26E-11	9.48E-06
49	0.202770352	2.18613418	1.10736173	-5.03163469	1.202770352	-0.02858928	-2.21472346	-14.4617306	3	2.55E-11	9.48E-06
50	0.202770352	-0.02858928	-1.10736173	-14.5883653	1.202770352	2.18613418	2.214723459	4.651730613	3	2.26E-11	2.62E-05
51	0.797081624	0.02443544	1.336563755	-14.5559238	2.207225904	-2.10050809	-1.50689795	0.702135394	3	1.26E-11	1.23E-05
52	0.202728671	0.029260867	1.825053839	-14.5333073	1.810746017	-2.51118242	-1.57986062	-1.21693271	3	2.68E-10	1.35E-05
53	0.202728671	-0.02926087	-1.82505384	-14.5333073	1.810746017	2.511182419	1.579860623	-1.21693271	3	1.07E-10	1.35E-05
54	0.207225904	2.10050809	1.506897954	0.702135394	1.797081624	-0.02443544	-1.33656376	-14.5559238	3	5.28E-11	1.23E-05
55	0.797229648	0.028589279	2.214723459	-14.4617306	2.797229648	-2.18613418	-1.10736173	-5.03163469	3	3.16E-11	8.07E-06
56	0.797081624	-0.02443544	-1.33656376	-14.5559238	2.207225904	2.10050809	1.506897954	0.702135394	3	3.07E-11	1.23E-05
57	0.797229648	0.028589279	1.10736173	-14.5883653	1.797229648	-2.18613418	-2.21472346	4.651730613	3	1.59E-10	3.07E-05
58	0.207225904	-2.10050809	-1.50689795	0.702135394	1.797081624	0.02443544	1.336563755	-14.5559238	3	2.88E-11	1.23E-05
59	0.202770352	-2.18613418	-2.21472346	4.651730613	2.202770352	0.028589279	1.10736173	-14.5883653	3	1.37E-10	2.62E-05
60	0.797229648	-0.02858928	-2.21472346	-14.4617306	2.797229648	2.18613418	1.10736173	-5.03163469	3	1.58E-11	8.07E-06
61	0.202770352	0.028589279	1.10736173	-14.5883653	1.202770352	-2.18613418	-2.21472346	4.651730613	3	2.86E-10	2.62E-05
62	0.297831899	-1.41014012	-0.5762231	-9.90408568	0.79865467	0.029943534	2.875435658	-14.2052216	3	2.24E-11	4.86E-06
63	0.810746017	2.511182419	1.579860623	-1.21693271	2.202728671	-0.02926087	-1.82505384	-14.5333073	3	1.26E-10	1.35E-05
64	0.797229648	2.18613418	2.214723459	4.651730613	2.797229648	-0.02858928	-1.10736173	-14.5883653	3	2.45E-10	3.07E-05
65	0.202770352	-0.02858928	-2.21472346	-14.4617306	2.202770352	2.18613418	1.10736173	-5.03163469	3	2.93E-10	9.48E-06
66	0.202770352	2.18613418	2.214723459	4.651730613	2.202770352	-0.02858928	-1.10736173	-14.5883653	3	1.73E-10	2.62E-05
67	0.791990238	-0.03720525	-0.38229242	-14.619984	1.063531796	1.005863722	3.841286695	11.09645387	3	7.41E-11	3.77E-05
68	0.810746017	-2.51118242	-1.57986062	-1.21693271	2.202728671	0.029260867	1.825053839	-14.5333073	3	1.27E-10	1.35E-05
69	0.797229648	-2.18613418	-2.21472346	4.651730613	2.797229648	0.028589279	1.10736173	-14.5883653	3	4.36E-11	3.07E-05
70	0.797229648	-0.02858928	-1.10736173	-14.5883653	1.797229648	2.18613418	2.214723459	4.651730613	3	2.49E-11	3.07E-05
71	0.797229648	-2.18613418	-1.10736173	-5.03163469	1.797229648	0.028589279	2.214723459	-14.4617306	3	1.76E-11	8.07E-06
72	0.200924962	0.04058166	0.837352803	-14.6114867	0.737311998	-2.02233156	-3.84594161	8.977609073	3	3.06E-10	5.62E-05
73	0.202770352	-2.18613418	-1.10736173	-5.03163469	1.202770352	0.028589279	2.214723459	-14.4617306	3	4.56E-10	9.48E-06
74	0.200924962	-0.04058166	-0.8373528	-14.6114867	0.737311998	2.022331561	3.845941614	8.977609073	3	2.88E-10	5.62E-05
75	0.063531796	1.005863722	3.841286695	11.09645387	2.791990238	-0.03720525	-0.38229242	-14.619984	3	1.79E-10	3.77E-05
76	0.797229648	2.18613418	1.10736173	-5.03163469	1.797229648	-0.02858928	-2.21472346	-14.4617306	3	3.06E-11	8.07E-06
77	0.737311998	2.022331561	3.845941614	8.977609073	3.200924962	-0.04058166	-0.8373528	-14.6114867	3	1.01E-09	5.62E-05
78	0.063531796	-1.00586372	-3.8412867	11.09645387	2.791990238	0.037205253	0.382292418	-14.619984	3	1.12E-10	3.77E-05
79	0.791990238	0.037205253	0.382292418	-14.619984	1.063531796	-1.00586372	-3.8412867	11.09645387	3	8.45E-11	3.77E-05
80	0.772528401	1.25E-30	7.18E-29	-8.87334221	2.223614147	-1.16E-29	-1.91E-29	-5.75563866	3	1.72E-11	2.67E-05
81	0.223614147	-4.78E-30	-2.24E-28	-5.75563866	1.772528401	-1.38E-30	-5.68E-29	-8.87334221	3	2.54E-11	2.67E-05
82	0.297831899	1.41014012	0.576223101	-9.90408568	0.79865467	-0.02994353	-2.87543566	-14.2052216	3	2.45E-11	4.86E-06
83	0.79865467	0.029943534	2.875435658	-14.2052216	3.297831899	-1.41014012	-0.5762231	-9.90408568	3	3.27E-11	4.86E-06
84	0.737311998	-2.02233156	-3.84594161	8.977609073	3.200924962	0.04058166	0.837352803	-14.6114867	3	2.60E-10	5.62E-05
85	0.78658046	-0.06755086	-0.252501	-14.6198531	0.891537821	0.6634503	6.964744056	11.06092752	3	2.60E-10	5.69E-06
86	0.31555819	-1.53E-27	-3.67E-26	-10.6259226	1.132840817	2.02E-27	4.20E-26	-4.22324483	3	5.04E-11	2.81E-05
87	0.899319982	6.45E-20	2.25E-18	-4.79594489	3.401391277	-4.53E-21	1.51E-19	-11.8042769	3	1.58E-11	1.39E-05
88	0.186256784	-0.02008349	-1.56604598	-19.4941933	2.186256784	3.11200846	1.566045976	-0.12580669	4	4.83E-11	7.87E-06
89	0.175218485	-2.78902861	-2.06300501	6.077253453	2.813564552	0.020070287	1.064719646	-19.5245618	4	2.43E-10	9.40E-06
90	0.813743216	0.020083493	1.566045976	-19.4941933	2.813743216	-3.11200846	-1.56604598	-0.12580669	4	2.93E-10	7.30E-06
91	0.186256784	-0.02324085	-2.7124712	-19.3678395	3.186256784	2.689230348	0.904157066	-9.89405352	4	2.48E-11	3.69E-06
92	0.810412781	3.203606574	1.985540258	3.530993769	3.186145653	-0.0214412	-1.35749596	-19.514065	4	4.99E-11	1.12E-05
93	0.186256784	0.020083493	1.566045976	-19.4941933	2.186256784	-3.11200846	-1.56604598	-0.12580669	4	3.07E-11	7.87E-06

94	0.813743216	2.689230348	2.712471198	9.557839452	3.813743216	-0.02324085	-0.90415707	-19.5359465	4	2.13E-10	2.60E-05
95	0.186256784	-3.11200846	-1.56604598	-0.12580669	2.186256784	0.020083493	1.566045976	-19.4941933	4	5.70E-11	7.87E-06
96	0.813743216	-0.02008349	-1.56604598	-19.4941933	2.813743216	3.11200846	1.566045976	-0.12580669	4	1.85E-10	7.30E-06
97	0.186256784	3.11200846	1.566045976	-0.12580669	2.186256784	-0.02008349	-1.56604598	-19.4941933	4	3.20E-11	7.87E-06
98	0.813564552	0.020070287	1.064719646	-19.5245618	2.175218485	-2.78902861	-2.06300501	6.077253453	4	8.82E-12	9.40E-06
99	0.186336764	0.02232611	2.307656992	-19.4330402	2.83947627	-3.08576593	-1.17147705	-6.5022083	4	5.96E-11	4.61E-06
100	0.186256784	0.02324085	2.712471198	-19.3678395	3.186256784	-2.68923035	-0.90415707	-9.89405352	4	3.33E-11	3.69E-06
101	0.813768554	0.019420683	1.808754965	-19.4637354	3.203181277	-2.89373705	-1.21919403	-3.92546922	4	5.70E-11	4.12E-06
102	0.186145653	0.021441199	1.357495959	-19.514065	1.810412781	-3.20360657	-1.98554026	3.530993769	4	6.63E-11	1.12E-05
103	0.18501254	-0.03183478	-0.69915351	-19.5461941	0.752218496	2.368215211	4.23135541	13.60902767	4	1.04E-09	3.97E-05
104	0.814722796	-0.0263105	-3.52608999	-19.1474239	4.278245835	1.865355534	0.546168169	-14.43036	4	4.36E-11	2.09E-06
105	0.186256784	-0.02324085	-0.90415707	-19.5359465	1.186256784	2.689230348	2.712471198	9.557839452	4	2.83E-11	1.86E-05
106	0.813564552	-0.02007029	-1.06471965	-19.5245618	2.175218485	2.789028605	2.063005014	6.077253453	4	2.61E-11	9.40E-06
107	0.813743216	-3.11200846	-1.56604598	-0.12580669	2.813743216	0.020083493	1.566045976	-19.4941933	4	2.14E-10	7.30E-06
108	0.813743216	-2.68923035	-2.7124712	9.557839452	3.813743216	0.02324085	0.904157066	-19.5359465	4	4.64E-10	2.60E-05
109	0.186145653	-0.0214412	-1.35749596	-19.514065	1.810412781	3.203606574	1.985540258	3.530993769	4	5.73E-11	1.12E-05
110	0.813743216	-0.02324085	-0.90415707	-19.5359465	1.813743216	2.689230348	2.712471198	9.557839452	4	1.62E-10	2.60E-05
111	0.186336764	-0.02232611	-2.30765699	-19.4330402	2.83947627	3.085765927	1.171477049	-6.5022083	4	1.16E-11	4.61E-06
112	0.203181277	2.893737051	1.219194033	-3.92546922	1.813768554	-0.01942068	-1.80875497	-19.4637354	4	5.29E-11	4.12E-06
113	0.813768554	-0.01942068	-1.80875497	-19.4637354	3.203181277	2.893737051	1.219194033	-3.92546922	4	3.27E-11	4.12E-06
114	0.813743216	3.11200846	1.566045976	-0.12580669	2.813743216	-0.02008349	-1.56604598	-19.4941933	4	6.64E-10	7.30E-06
115	0.752218496	-2.36821521	-4.23135541	13.60902767	4.18501254	0.031834782	0.699153507	-19.5461941	4	2.02E-09	3.97E-05
116	0.813743216	0.02324085	0.904157066	-19.5359465	1.813743216	-2.68923035	-2.7124712	9.557839452	4	2.68E-10	2.60E-05
117	0.83947627	3.085765927	1.171477049	-6.5022083	2.186336764	-0.02232611	-2.30765699	-19.4330402	4	5.10E-12	4.61E-06
118	0.90152667	1.04E-24	-6.85E-25	-5.69293892	3.684511074	1.98E-25	1.35E-23	-13.7714635	4	1.15E-09	1.40E-05
119	0.218773709	-3.59E-27	-2.15E-27	-9.81	2.218773709	1.86E-28	1.81E-26	-9.81	4	4.93E-11	1.89E-05
120	0.186256784	-2.68923035	-0.90415707	-9.89405352	1.186256784	0.02324085	2.712471198	-19.3678395	4	1.95E-11	3.69E-06
121	0.175218485	2.789028605	2.063005014	6.077253453	2.813564552	-0.02007029	-1.06471965	-19.5245618	4	2.29E-11	9.40E-06
122	0.752218496	2.368215211	4.23135541	13.60902767	4.18501254	-0.03183478	-0.69915351	-19.5461941	4	1.37E-09	3.97E-05
123	0.813743216	0.02324085	2.712471198	-19.3678395	3.813743216	-2.68923035	-0.90415707	-9.89405352	4	1.38E-10	3.04E-06
124	0.186256784	2.689230348	0.904157066	-9.89405352	1.186256784	-0.02324085	-2.7124712	-19.3678395	4	3.23E-11	3.69E-06
125	0.186256784	2.689230348	2.712471198	9.557839452	3.186256784	-0.02324085	-0.90415707	-19.5359465	4	1.04E-10	1.86E-05
126	0.813743216	-0.02324085	-2.7124712	-19.3678395	3.813743216	2.689230348	0.904157066	-9.89405352	4	4.98E-11	3.04E-06
127	0.186256784	-2.68923035	-2.7124712	9.557839452	3.186256784	0.02324085	0.904157066	-19.5359465	4	1.10E-10	1.86E-05
128	0.203181277	-2.89373705	-1.21919403	-3.92546922	1.813768554	0.019420683	1.808754965	-19.4637354	4	1.50E-11	4.12E-06
129	0.278245835	1.865355534	0.546168169	-14.43036	0.814722796	-0.0263105	-3.52608999	-19.1474239	4	2.49E-11	2.09E-06
130	0.810412781	-3.20360657	-1.98554026	3.530993769	3.186145653	0.021441199	1.357495959	-19.514065	4	6.60E-11	1.12E-05
131	0.781226291	5.11E-22	4.60E-22	-9.81	2.781226291	5.46E-23	9.77E-22	-9.81	4	4.13E-11	1.85E-05
132	0.186256784	0.02324085	0.904157066	-19.5359465	1.186256784	-2.68923035	-2.7124712	9.557839452	4	1.07E-10	1.86E-05
133	0.813743216	-2.68923035	-0.90415707	-9.89405352	1.813743216	0.02324085	2.712471198	-19.3678395	4	4.31E-11	3.04E-06
134	0.814722796	0.026310503	3.526089988	-19.1474239	4.278245835	-1.86535553	-0.54616817	-14.43036	4	1.58E-10	2.09E-06
135	0.18501254	0.031834782	0.699153507	-19.5461941	0.752218496	-2.36821521	-4.23135541	13.60902767	4	1.83E-09	3.97E-05
136	0.278245835	-1.86535553	-0.54616817	-14.43036	0.814722796	0.026310503	3.526089988	-19.1474239	4	2.02E-11	2.09E-06
137	0.83947627	-3.08576593	-1.17147705	-6.5022083	2.186336764	0.02232611	2.307656992	-19.4330402	4	7.60E-12	4.61E-06
138	0.838354211	-1.79E-25	-1.53E-24	-8.80508277	3.282896508	-3.39E-26	-3.96E-24	-11.2424716	4	4.20E-11	1.07E-05
139	0.813743216	2.689230348	0.904157066	-9.89405352	1.813743216	-0.02324085	-2.7124712	-19.3678395	4	4.09E-11	3.04E-06
140	0.168979875	-3.8196508	-1.91800678	4.779464521	3.168979875	0.016362752	1.278671185	-24.4413097	5	5.06E-11	6.33E-06

141	0.168979875	-0.01636275	-1.27867119	-24.4413097	2.168979875	3.819650803	1.918006778	4.779464521	5	9.17E-11	6.33E-06
142	0.830988163	0.015590242	1.425932431	-24.4306098	3.171474804	-3.77669611	-1.62029822	1.457569719	5	1.41E-10	3.28E-06
143	0.831020125	-0.01636275	-1.27867119	-24.4413097	2.831020125	3.819650803	1.918006778	4.779464521	5	3.98E-11	6.70E-06
144	0.202429117	-1.28E-26	-7.49E-25	-11.0717401	2.782170936	-8.22E-27	-7.49E-26	-13.4038257	5	1.17E-11	7.42E-06
145	0.838902414	-3.99908095	-1.50400773	-1.76105507	3.168970408	0.016517433	1.72338249	-24.4172638	5	1.54E-11	3.87E-06
146	0.333425263	3.73E-25	2.18E-23	-16.2916457	1.936817801	3.67E-25	-7.60E-24	-8.64571954	5	2.01E-11	5.11E-06
147	0.168970408	-0.01651743	-1.72338249	-24.4172638	2.838902414	3.999080947	1.504007731	-1.76105507	5	3.83E-11	3.87E-06
148	0.168979875	-0.02008349	-0.78302299	-24.4620967	1.168979875	3.11200846	3.132091953	14.46338661	5	3.65E-10	1.38E-05
149	0.831020125	0.016362752	1.918006778	-24.3994645	3.831020125	-3.8196508	-1.27867119	-4.98869032	5	8.05E-12	2.70E-06
150	0.168970408	0.016517433	1.72338249	-24.4172638	2.838902414	-3.99908095	-1.50400773	-1.76105507	5	1.66E-11	3.87E-06
151	0.838902414	3.999080947	1.504007731	-1.76105507	3.168970408	-0.01651743	-1.72338249	-24.4172638	5	2.02E-11	3.87E-06
152	0.171474804	-3.77669611	-1.62029822	1.457569719	2.830988163	0.015590242	1.425932431	-24.4306098	5	5.48E-10	3.28E-06
153	0.168979875	0.016362752	1.918006778	-24.3994645	3.168979875	-3.8196508	-1.27867119	-4.98869032	5	1.94E-10	3.12E-06
154	0.831068878	-0.01649411	-2.16427574	-24.3718945	4.190586335	3.533962457	1.056835279	-8.50662902	5	3.78E-11	1.83E-06
155	0.830860027	0.017541172	0.903739362	-24.4567062	2.150794049	-3.30827931	-2.51968691	11.38603958	5	4.61E-11	7.32E-06
156	0.168979875	-3.8196508	-1.27867119	-4.98869032	2.168979875	0.016362752	1.918006778	-24.3994645	5	1.44E-11	3.12E-06
157	0.831020125	3.819650803	1.918006778	4.779464521	3.831020125	-0.01636275	-1.27867119	-24.4413097	5	1.91E-11	6.70E-06
158	0.831020125	-0.01636275	-1.91800678	-24.3994645	3.831020125	3.819650803	1.278671185	-4.98869032	5	6.49E-11	2.70E-06
159	0.168979875	-3.11200846	-0.78302299	-14.7779034	1.168979875	0.020083493	3.132091953	-24.2733866	5	7.01E-12	1.78E-06
160	0.831068878	0.016494113	2.16427574	-24.3718945	4.190586335	-3.53396246	-1.05683528	-8.50662902	5	2.17E-11	1.83E-06
161	0.830988163	-0.01559024	-1.42593243	-24.4306098	3.171474804	3.776696105	1.620298223	1.457569719	5	2.89E-10	3.28E-06
162	0.831020125	0.016362752	1.278671185	-24.4413097	2.831020125	-3.8196508	-1.91800678	4.779464521	5	1.70E-11	6.70E-06
163	0.168979875	-0.01636275	-1.91800678	-24.3994645	3.168979875	3.819650803	1.278671185	-4.98869032	5	1.97E-10	3.12E-06
164	0.150794049	-3.30827931	-2.51968691	11.38603958	3.830860027	0.017541172	0.903739362	-24.4567062	5	3.87E-10	7.32E-06
165	0.169072747	0.018891541	2.723569222	-24.3326076	3.862709004	-3.53908054	-0.96327084	-11.777617	5	5.01E-12	2.07E-06
166	0.831020125	0.020083493	3.132091953	-24.2733866	4.831020125	-3.11200846	-0.78302299	-14.7779034	5	1.82E-11	1.44E-06
167	0.831020125	3.11200846	0.783022988	-14.7779034	1.831020125	-0.02008349	-3.13209195	-24.2733866	5	5.75E-12	1.44E-06
168	0.168979875	0.016362752	1.278671185	-24.4413097	2.168979875	-3.8196508	-1.91800678	4.779464521	5	5.97E-11	6.33E-06
169	0.168879	-0.01760173	-1.13594127	-24.4499748	1.821169009	3.785200204	2.301534184	8.164026262	5	6.71E-11	9.30E-06
170	0.831020125	-0.02008349	-3.13209195	-24.2733866	4.831020125	3.11200846	0.783022988	-14.7779034	5	1.14E-11	1.44E-06
171	0.862709004	-3.53908054	-0.96327084	-11.777617	2.169072747	0.018891541	2.723569222	-24.3326076	5	6.39E-12	2.07E-06
172	0.168086144	-0.02650543	-0.62059624	-24.4675915	0.770623481	2.70254338	4.529260913	18.19512739	5	1.34E-10	2.91E-05
173	0.168979875	-3.11200846	-3.13209195	14.46338661	4.168979875	0.020083493	0.783022988	-24.4620967	5	3.43E-10	1.38E-05
174	0.168979875	0.020083493	3.132091953	-24.2733866	4.168979875	-3.11200846	-0.78302299	-14.7779034	5	8.87E-12	1.78E-06
175	0.168979875	3.819650803	1.278671185	-4.98869032	2.168979875	-0.01636275	-1.91800678	-24.3994645	5	1.76E-09	3.12E-06
176	0.171474804	3.776696105	1.620298223	1.457569719	2.830988163	-0.01559024	-1.42593243	-24.4306098	5	8.32E-11	3.28E-06
177	0.168879	0.017601734	1.13594127	-24.4499748	1.821169009	-3.7852002	-2.30153418	8.164026262	5	9.53E-11	9.30E-06
178	0.831020125	-3.11200846	-0.78302299	-14.7779034	1.831020125	0.020083493	3.132091953	-24.2733866	5	2.75E-11	1.44E-06
179	0.821169009	-3.7852002	-2.30153418	8.164026262	4.168879	0.017601734	1.13594127	-24.4499748	5	8.67E-11	9.30E-06
180	0.831730888	0.023260231	3.997838394	-24.0858943	5.256573714	-2.2761252	-0.51965358	-18.9397847	5	9.02E-12	1.07E-06
181	0.168979875	-0.02008349	-3.13209195	-24.2733866	4.168979875	3.11200846	0.783022988	-14.7779034	5	5.40E-12	1.78E-06
182	0.831020125	-0.02008349	-0.78302299	-24.4620967	1.831020125	3.11200846	3.132091953	14.46338661	5	4.84E-11	2.24E-05
183	0.168979875	3.819650803	1.918006778	4.779464521	3.168979875	-0.01636275	-1.27867119	-24.4413097	5	4.73E-11	6.33E-06
184	0.169072747	-0.01889154	-2.72356922	-24.3326076	3.862709004	3.53908054	0.963270835	-11.777617	5	5.70E-12	2.07E-06
185	0.831730888	-0.02326023	-3.99783839	-24.0858943	5.256573714	2.276125201	0.519653584	-18.9397847	5	9.46E-12	1.07E-06
186	0.831020125	3.819650803	1.278671185	-4.98869032	2.831020125	-0.01636275	-1.91800678	-24.3994645	5	1.58E-11	2.70E-06
187	0.168979875	0.020083493	0.783022988	-24.4620967	1.168979875	-3.11200846	-3.13209195	14.46338661	5	6.55E-10	1.38E-05

188	0.862709004	3.53908054	0.963270835	-11.777617	2.169072747	-0.01889154	-2.72356922	-24.3326076	5	3.23E-12	2.07E-06
189	0.831020125	-3.8196508	-1.91800678	4.779464521	3.831020125	0.016362752	1.278671185	-24.4413097	5	3.09E-11	6.70E-06
190	0.190586335	-3.53396246	-1.05683528	-8.50662902	1.831068878	0.016494113	2.16427574	-24.3718945	5	2.82E-10	1.83E-06
191	0.936817801	-6.75E-19	-6.14E-17	-8.64571954	4.333425263	-1.36E-18	3.95E-20	-16.2916457	5	2.91E-11	5.11E-06
192	0.831020125	0.020083493	0.783022988	-24.4620967	1.831020125	-3.11200846	-3.13209195	14.46338661	5	7.82E-11	2.24E-05
193	0.168979875	3.11200846	0.783022988	-14.7779034	1.168979875	-0.02008349	-3.13209195	-24.2733866	5	3.13E-12	1.78E-06
194	0.168979875	3.11200846	3.132091953	14.46338661	4.168979875	-0.02008349	-0.78302299	-24.4620967	5	1.41E-09	1.38E-05
195	0.256573714	2.276125201	0.519653584	-18.9397847	0.831730888	-0.02326023	-3.99783839	-24.0858943	5	1.11E-11	1.07E-06
196	0.831020125	-3.8196508	-1.27867119	-4.98869032	2.831020125	0.016362752	1.918006778	-24.3994645	5	1.69E-11	2.70E-06
197	0.770623481	2.70254338	4.529260913	18.19512739	5.168086144	-0.02650543	-0.62059624	-24.4675915	5	3.79E-10	2.91E-05
198	0.190586335	3.533962457	1.056835279	-8.50662902	1.831068878	-0.01649411	-2.16427574	-24.3718945	5	2.42E-11	1.83E-06
199	0.821169009	3.785200204	2.301534184	8.164026262	4.168879	-0.01760173	-1.13594127	-24.4499748	5	5.49E-11	9.30E-06
200	0.770623481	-2.70254338	-4.52926091	18.19512739	5.168086144	0.026505427	0.620596243	-24.4675915	5	4.08E-10	2.91E-05
201	0.830860027	-0.01754117	-0.90373936	-24.4567062	2.150794049	3.308279308	2.519686912	11.38603958	5	4.48E-11	7.32E-06
202	0.168086144	0.026505427	0.620596243	-24.4675915	0.770623481	-2.70254338	-4.52926091	18.19512739	5	1.20E-10	2.91E-05
203	0.831020125	3.11200846	3.132091953	14.46338661	4.831020125	-0.02008349	-0.78302299	-24.4620967	5	8.52E-11	2.24E-05
204	0.150794049	3.308279308	2.519686912	11.38603958	3.830860027	-0.01754117	-0.90373936	-24.4567062	5	9.73E-11	7.32E-06
205	0.831020125	-3.11200846	-3.13209195	14.46338661	4.831020125	0.020083493	0.783022988	-24.4620967	5	1.10E-10	2.24E-05
206	0.150580088	0.017939947	0.700357052	-29.3797425	1.150580088	-3.48384531	-3.50178526	19.36871263	6	6.48E-11	1.04E-05
207	0.150580088	-0.01334103	-1.56604598	-29.3464294	3.150580088	4.684796902	1.566045976	-0.08357064	6	1.02E-11	2.68E-06
208	0.150580088	0.013341027	1.566045976	-29.3464294	3.150580088	-4.6847969	-1.56604598	-0.08357064	6	1.05E-11	2.68E-06
209	0.84941772	0.013155476	1.703252075	-29.3368317	4.158378732	-4.57036227	-1.38518336	-3.10667742	6	4.95E-12	1.50E-06
210	0.849419912	-0.01334103	-1.56604598	-29.3464294	3.849419912	4.684796902	1.566045976	-0.08357064	6	4.11E-11	2.47E-06
211	0.849419912	0.014155351	2.214723459	-29.3045993	4.849419912	-4.41529157	-1.10736173	-9.87270037	6	1.74E-12	1.28E-06
212	0.849419912	0.014155351	1.10736173	-29.3672996	2.849419912	-4.41529157	-2.21472346	9.684599252	6	6.08E-11	5.79E-06
213	0.849419912	0.013341027	1.566045976	-29.3464294	3.849419912	-4.6847969	-1.56604598	-0.08357064	6	3.33E-11	2.47E-06
214	0.849381469	0.013456412	1.209385596	-29.3622786	3.146659447	-4.46456227	-1.94927158	6.784550587	6	1.40E-10	2.64E-06
215	0.84941772	-0.01315548	-1.70325208	-29.3368317	4.158378732	4.570362266	1.385183363	-3.10667742	6	9.35E-12	1.50E-06
216	0.150494439	-0.0151964	-1.00171802	-29.3718474	1.836293238	4.306416668	2.563540243	12.74349282	6	3.20E-11	7.80E-06
217	0.849277962	-0.01588108	-0.79343161	-29.3768238	2.127910051	3.730201449	2.929757948	16.69026533	6	3.47E-10	5.75E-06
218	0.158378732	-4.57036227	-1.38518336	-3.10667742	2.84941772	0.013155476	1.703252075	-29.3368317	6	3.97E-12	1.50E-06
219	0.849381469	-0.01345641	-1.2093856	-29.3622786	3.146659447	4.464562267	1.949271582	6.784550587	6	1.02E-10	2.64E-06
220	0.150580088	0.014155351	1.10736173	-29.3672996	2.150580088	-4.41529157	-2.21472346	9.684599252	6	4.90E-11	4.85E-06
221	0.862412515	-4.63580034	-1.25269905	-7.05051603	3.15059189	0.013993833	2.032093385	-29.320413	6	2.06E-10	1.77E-06
222	0.150557989	-0.01365629	-1.44255072	-29.3540312	2.850267089	4.747180715	1.763462961	2.85298477	6	3.27E-11	3.26E-06
223	0.849419912	-0.01415535	-2.21472346	-29.3045993	4.849419912	4.415291568	1.10736173	-9.87270037	6	2.37E-11	1.28E-06
224	0.797229648	-4.56E-31	-1.59E-30	-14.715	3.797229648	-4.62E-33	-2.96E-30	-14.715	6	2.24E-11	5.67E-06
225	0.150580088	-0.01793995	-0.70035705	-29.3797425	1.150580088	3.483845312	3.501785259	19.36871263	6	3.09E-10	1.04E-05
226	0.88509483	3.912254711	0.829886946	-17.067739	2.15066998	-0.01678267	-3.10454688	-29.231614	6	3.11E-11	1.10E-06
227	0.150580088	4.415291568	1.10736173	-9.87270037	2.150580088	-0.01415535	-2.21472346	-29.3045993	6	9.14E-12	1.54E-06
228	0.158378732	4.570362266	1.385183363	-3.10667742	2.84941772	-0.01315548	-1.70325208	-29.3368317	6	9.98E-12	1.50E-06
229	0.150580088	0.014155351	2.214723459	-29.3045993	4.150580088	-4.41529157	-1.10736173	-9.87270037	6	2.07E-11	1.54E-06
230	0.862412515	4.63580034	1.252699051	-7.05051603	3.15059189	-0.01399383	-2.03209339	-29.320413	6	5.61E-11	1.77E-06
231	0.849469441	0.014517108	2.45499737	-29.280225	5.174386284	-4.09780764	-0.95084481	-13.0554436	6	2.38E-11	9.55E-07
232	0.150580088	-0.01415535	-1.10736173	-29.3672996	2.150580088	4.415291568	2.214723459	9.684599252	6	7.11E-11	4.85E-06
233	0.849419912	-4.41529157	-2.21472346	9.684599252	4.849419912	0.014155351	1.10736173	-29.3672996	6	4.87E-11	5.79E-06
234	0.150580088	-0.01793995	-3.50178526	-29.1787126	5.150580088	3.483845312	0.700357052	-19.6702575	6	5.42E-11	9.84E-07

235	0.15059189	0.013993833	2.032093385	-29.320413	3.862412515	-4.63580034	-1.25269905	-7.05051603	6	6.36E-11	1.77E-06
236	0.150494439	0.015196395	1.001718015	-29.3718474	1.836293238	-4.30641667	-2.56354024	12.74349282	6	1.04E-10	7.80E-06
237	0.146659447	-4.46456227	-1.94927158	6.784550587	3.849381469	0.013456412	1.209385596	-29.3622786	6	3.67E-11	2.64E-06
238	0.849419912	4.415291568	2.214723459	9.684599252	4.849419912	-0.01415535	-1.10736173	-29.3672996	6	7.98E-11	5.79E-06
239	0.849419912	-0.01415535	-1.10736173	-29.3672996	2.849419912	4.415291568	2.214723459	9.684599252	6	1.62E-10	5.79E-06
240	0.849419912	0.017939947	0.700357052	-29.3797425	1.849419912	-3.48384531	-3.50178526	19.36871263	6	6.77E-11	1.98E-05
241	0.836293238	-4.30641667	-2.56354024	12.74349282	5.150494439	0.015196395	1.001718015	-29.3718474	6	1.28E-10	7.80E-06
242	0.15059189	-0.01399383	-2.03209339	-29.320413	3.862412515	4.63580034	1.252699051	-7.05051603	6	3.41E-11	1.77E-06
243	0.849419912	-4.41529157	-1.10736173	-9.87270037	2.849419912	0.014155351	2.214723459	-29.3045993	6	1.31E-11	1.28E-06
244	0.849419912	-0.01793995	-3.50178526	-29.1787126	5.849419912	3.483845312	0.700357052	-19.6702575	6	1.06E-11	7.84E-07
245	0.15066998	0.016782669	3.104546878	-29.231614	4.88509483	-3.91225471	-0.82988695	-17.067739	6	3.38E-11	1.10E-06
246	0.150580088	4.684796902	1.566045976	-0.08357064	3.150580088	-0.01334103	-1.56604598	-29.3464294	6	6.09E-12	2.68E-06
247	0.150557989	0.013656288	1.442550717	-29.3540312	2.850267089	-4.74718072	-1.76346296	2.85298477	6	4.18E-11	3.26E-06
248	0.150580088	4.415291568	2.214723459	9.684599252	4.150580088	-0.01415535	-1.10736173	-29.3672996	6	3.71E-11	4.85E-06
249	0.150580088	-0.01415535	-2.21472346	-29.3045993	4.150580088	4.415291568	1.10736173	-9.87270037	6	4.10E-12	1.54E-06
250	0.849469441	-0.01451711	-2.45499737	-29.280225	5.174386284	4.097807637	0.950844812	-13.0554436	6	1.27E-11	9.55E-07
251	0.146659447	4.464562267	1.949271582	6.784550587	3.849381469	-0.01345641	-1.2093856	-29.3622786	6	1.45E-10	2.64E-06
252	0.849956459	-0.02079765	-4.35944839	-29.0213465	6.233420539	2.666958868	0.499261531	-23.4285833	6	1.31E-11	6.10E-07
253	0.150580088	-4.6847969	-1.56604598	-0.08357064	3.150580088	0.013341027	1.566045976	-29.3464294	6	3.29E-12	2.68E-06
254	0.836293238	4.306416668	2.563540243	12.74349282	5.150494439	-0.0151964	-1.00171802	-29.3718474	6	4.90E-11	7.80E-06
255	0.849419912	3.483845312	3.501785259	19.36871263	5.849419912	-0.01793995	-0.70035705	-29.3797425	6	7.78E-11	1.98E-05
256	0.150580088	0.017939947	3.501785259	-29.1787126	5.150580088	-3.48384531	-0.70035705	-19.6702575	6	1.75E-11	9.84E-07
257	0.127910051	-3.73020145	-2.92975795	16.69026533	4.849277962	0.015881077	0.793431607	-29.3768238	6	3.14E-10	5.75E-06
258	0.849956459	0.020797653	4.35944839	-29.0213465	6.233420539	-2.66695887	-0.49926153	-23.4285833	6	1.13E-11	6.10E-07
259	0.849419912	-4.6847969	-1.56604598	-0.08357064	3.849419912	0.013341027	1.566045976	-29.3464294	6	2.95E-11	2.47E-06
260	0.202770352	4.04E-25	2.98E-25	-14.715	3.202770352	-4.87E-26	-6.41E-24	-14.715	6	2.59E-11	5.80E-06
261	0.150580088	-4.41529157	-2.21472346	9.684599252	4.150580088	0.014155351	1.10736173	-29.3672996	6	1.49E-11	4.85E-06
262	0.849419912	-0.01793995	-0.70035705	-29.3797425	1.849419912	3.483845312	3.501785259	19.36871263	6	6.57E-11	1.98E-05
263	0.88509483	-3.91225471	-0.82988695	-17.067739	2.15066998	0.016782669	3.104546878	-29.231614	6	1.82E-11	1.10E-06
264	0.849419912	0.017939947	3.501785259	-29.1787126	5.849419912	-3.48384531	-0.70035705	-19.6702575	6	5.96E-11	7.84E-07
265	0.850267089	-4.74718072	-1.76346296	2.85298477	4.150557989	0.013656288	1.442550717	-29.3540312	6	4.83E-11	3.26E-06
266	0.849277962	0.015881077	0.793431607	-29.3768238	2.127910051	-3.73020145	-2.92975795	16.69026533	6	1.17E-10	5.75E-06
267	0.149910191	0.022820647	0.569988483	-29.3829956	0.791217364	-3.03157255	-4.76276163	22.74601334	6	5.51E-11	2.18E-05
268	0.849419912	-3.48384531	-3.50178526	19.36871263	5.849419912	0.017939947	0.700357052	-29.3797425	6	5.55E-11	1.98E-05
269	0.174386284	4.097807637	0.950844812	-13.0554436	1.849469441	-0.01451711	-2.45499737	-29.280225	6	5.70E-12	9.55E-07
270	0.849419912	3.483845312	0.700357052	-19.6702575	1.849419912	-0.01793995	-3.50178526	-29.1787126	6	3.09E-11	7.84E-07
271	0.174386284	-4.09780764	-0.95084481	-13.0554436	1.849469441	0.014517108	2.45499737	-29.280225	6	1.54E-11	9.55E-07
272	0.15066998	-0.01678267	-3.10454688	-29.231614	4.88509483	3.912254711	0.829886946	-17.067739	6	1.58E-10	1.10E-06
273	0.130488865	-0.01154543	-1.3562356	-34.2723667	3.130488865	5.413396965	1.808314132	4.821488937	7	3.78E-11	2.31E-06
274	0.869511135	4.939619409	0.990454441	-14.7651281	2.869511135	-0.0126528	-2.4761361	-34.2096798	7	4.17E-12	6.94E-07
275	0.869517726	0.01155991	1.933351176	-34.2431735	5.14101411	-5.26359577	-1.23496667	-7.62703557	7	9.34E-11	7.94E-07
276	0.869511135	0.016362752	0.639335593	-34.2931548	1.869511135	-3.8196508	-3.83601356	24.27392904	7	3.74E-10	1.76E-05
277	0.130506609	0.012406585	2.309402068	-34.2233698	4.885597775	-5.17199052	-1.09028343	-12.3651457	7	8.03E-12	9.57E-07
278	0.869511135	-0.01154543	-1.80831413	-34.2514889	4.869511135	5.413396965	1.356235599	-4.9676333	7	4.76E-12	1.16E-06
279	0.869383524	-0.01471734	-0.71068741	-34.2914782	2.104429832	4.08236268	3.317349312	22.01604442	7	3.75E-11	4.49E-06
280	0.869556764	0.013059201	2.701034097	-34.1887465	6.155361522	-4.6170406	-0.87594983	-17.5661749	7	1.69E-11	5.50E-07
281	0.869511135	0.011545431	1.808314132	-34.2514889	4.869511135	-5.41339697	-1.3562356	-4.9676333	7	9.29E-12	1.16E-06

282	0.130488865	0.011545431	1.808314132	-34.2514889	4.130488865	-5.41339697	-1.3562356	-4.9676333	7	1.21E-11	1.34E-06
283	0.869473744	0.01206378	1.064138644	-34.2822054	3.122801152	-5.03905396	-2.24162619	12.11864548	7	3.52E-11	2.11E-06
284	0.869511135	-0.0126528	-0.99045444	-34.2848719	2.869511135	4.939619409	2.476136103	14.58967981	7	4.70E-11	5.09E-06
285	0.130416331	0.013495539	0.910486255	-34.2874807	1.854570203	-4.79008985	-2.78605377	17.27564335	7	1.46E-11	6.61E-06
286	0.130488865	-0.01154543	-1.80831413	-34.2514889	4.130488865	5.413396965	1.356235599	-4.9676333	7	2.25E-11	1.34E-06
287	0.130488865	0.011545431	1.356235599	-34.2723667	3.130488865	-5.41339697	-1.80831413	4.821488937	7	5.40E-11	2.31E-06
288	0.130465745	0.011860467	1.270653269	-34.2762382	2.866667077	-5.40594925	-1.98004791	7.401296925	7	7.41E-11	2.79E-06
289	0.130572918	0.015350263	3.467650007	-34.1296987	5.908423734	-4.22263537	-0.73348824	-22.3891425	7	8.47E-11	6.48E-07
290	0.869473744	-0.01206378	-1.06413864	-34.2822054	3.122801152	5.039053957	2.241626192	12.11864548	7	1.05E-10	2.11E-06
291	0.869511135	-0.01636275	-3.83601356	-34.083929	6.869511135	3.819650803	0.639335593	-24.5668452	7	4.47E-12	4.67E-07
292	0.869499293	-0.01131084	-1.4450542	-34.2679673	4.132151437	5.389359373	1.65530065	2.251596876	7	1.28E-11	1.22E-06
293	0.130488865	4.939619409	2.476136103	14.58967981	5.130488865	-0.0126528	-0.99045444	-34.2848719	7	1.34E-11	3.76E-06
294	0.854570203	4.790089846	2.786053765	17.27564335	6.130416331	-0.01349554	-0.91048626	-34.2874807	7	2.95E-11	6.61E-06
295	0.130488865	-0.01636275	-0.63933559	-34.2931548	1.130488865	3.819650803	3.836013556	24.27392904	7	5.53E-11	7.89E-06
296	0.130488865	0.012652797	2.476136103	-34.2096798	5.130488865	-4.93961941	-0.99045444	-14.7651281	7	1.12E-11	8.68E-07
297	0.130488865	-4.93961941	-0.99045444	-14.7651281	2.130488865	0.012652797	2.476136103	-34.2096798	7	1.23E-11	8.68E-07
298	0.869511135	0.011545431	1.356235599	-34.2723667	3.869511135	-5.41339697	-1.80831413	4.821488937	7	2.31E-11	2.35E-06
299	0.130485559	-0.01159209	-1.69979865	-34.2580409	3.875188606	5.521757265	1.477647036	-2.46743801	7	9.34E-12	1.53E-06
300	0.130488865	5.413396965	1.808314132	4.821488937	4.130488865	-0.01154543	-1.3562356	-34.2723667	7	1.21E-11	2.31E-06
301	0.132151437	5.389359373	1.65530065	2.251596876	3.869499293	-0.01131084	-1.4450542	-34.2679673	7	1.63E-11	1.22E-06
302	0.130488865	-0.0126528	-2.4761361	-34.2096798	5.130488865	4.939619409	0.990454441	-14.7651281	7	6.82E-12	8.68E-07
303	0.132151437	-5.38935937	-1.65530065	2.251596876	3.869499293	0.011310841	1.445054199	-34.2679673	7	2.85E-11	1.22E-06
304	0.869499293	0.011310841	1.445054199	-34.2679673	4.132151437	-5.38935937	-1.65530065	2.251596876	7	1.53E-11	1.22E-06
305	0.130488865	0.016362752	0.639335593	-34.2931548	1.130488865	-3.8196508	-3.83601356	24.27392904	7	3.62E-10	7.89E-06
306	0.869511135	0.012652797	0.990454441	-34.2848719	2.869511135	-4.93961941	-2.4761361	14.58967981	7	2.38E-11	5.09E-06
307	0.875188606	5.521757265	1.477647036	-2.46743801	4.130485559	-0.01159209	-1.69979865	-34.2580409	7	4.63E-11	1.53E-06
308	0.869928271	0.018774333	4.641064477	-33.9547315	7.208452852	-3.05117574	-0.48433197	-27.8856102	7	1.95E-11	3.74E-07
309	0.130488865	5.413396965	1.356235599	-4.9676333	3.130488865	-0.01154543	-1.80831413	-34.2514889	7	4.98E-12	1.34E-06
310	0.130485559	0.011592094	1.699798647	-34.2580409	3.875188606	-5.52175727	-1.47764704	-2.46743801	7	4.06E-11	1.53E-06
311	0.908423734	-4.22263537	-0.73348824	-22.3891425	2.130572918	0.015350263	3.467650007	-34.1296987	7	7.71E-12	6.48E-07
312	0.869517726	-0.01155991	-1.93335118	-34.2431735	5.14101411	5.263595765	1.234966672	-7.62703557	7	1.83E-11	7.94E-07
313	0.869511135	-0.01154543	-1.3562356	-34.2723667	3.869511135	5.413396965	1.808314132	4.821488937	7	6.40E-11	2.35E-06
314	0.130488865	-4.93961941	-2.4761361	14.58967981	5.130488865	0.012652797	0.990454441	-34.2848719	7	1.70E-11	3.76E-06
315	0.869511135	-0.0126528	-2.4761361	-34.2096798	5.869511135	4.939619409	0.990454441	-14.7651281	7	3.99E-12	6.94E-07
316	0.130465745	-0.01186047	-1.27065327	-34.2762382	2.866667077	5.405949249	1.980047905	7.401296925	7	6.28E-11	2.79E-06
317	0.130488865	-0.0126528	-0.99045444	-34.2848719	2.130488865	4.939619409	2.476136103	14.58967981	7	8.42E-11	3.76E-06
318	0.130488865	-5.41339697	-1.3562356	-4.9676333	3.130488865	0.011545431	1.808314132	-34.2514889	7	5.39E-12	1.34E-06
319	0.130488865	4.939619409	0.990454441	-14.7651281	2.130488865	-0.0126528	-2.4761361	-34.2096798	7	1.00E-11	8.68E-07
320	0.866667077	5.405949249	1.980047905	7.401296925	5.130465745	-0.01186047	-1.27065327	-34.2762382	7	6.45E-11	2.79E-06
321	0.854570203	-4.79008985	-2.78605377	17.27564335	6.130416331	0.013495539	0.910486255	-34.2874807	7	2.81E-11	6.61E-06
322	0.130488865	-3.8196508	-0.63933559	-24.5668452	1.130488865	0.016362752	3.836013556	-34.083929	7	9.78E-13	5.98E-07
323	0.869556764	-0.0130592	-2.7010341	-34.1887465	6.155361522	4.617040597	0.875949834	-17.5661749	7	9.97E-12	5.50E-07
324	0.875188606	-5.52175727	-1.47764704	-2.46743801	4.130485559	0.011592094	1.699798647	-34.2580409	7	1.03E-11	1.53E-06
325	0.869511135	5.413396965	1.808314132	4.821488937	4.869511135	-0.01154543	-1.3562356	-34.2723667	7	7.16E-11	2.35E-06
326	0.130506609	-0.01240659	-2.30940207	-34.2233698	4.885597775	5.171990519	1.09028343	-12.3651457	7	5.02E-12	9.57E-07
327	0.869511135	-0.01636275	-0.63933559	-34.2931548	1.869511135	3.819650803	3.836013556	24.27392904	7	6.15E-10	1.76E-05
328	0.869383524	0.014717337	0.710687411	-34.2914782	2.104429832	-4.08236268	-3.31734931	22.01604442	7	1.35E-11	4.49E-06

329	0.130488865	0.012652797	0.990454441	-34.2848719	2.130488865	-4.93961941	-2.4761361	14.58967981	7	1.17E-11	3.76E-06
330	0.155361522	4.617040597	0.875949834	-17.5661749	1.869556764	-0.0130592	-2.7010341	-34.1887465	7	7.77E-12	5.50E-07
331	0.869511135	3.819650803	0.639335593	-24.5668452	1.869511135	-0.01636275	-3.83601356	-34.083929	7	2.32E-12	4.67E-07
332	0.908423734	4.222635365	0.733488241	-22.3891425	2.130572918	-0.01535026	-3.46765001	-34.1296987	7	3.09E-11	6.48E-07
333	0.885597775	-5.17199052	-1.09028343	-12.3651457	3.130506609	0.012406585	2.309402068	-34.2233698	7	1.15E-11	9.57E-07
334	0.122801152	5.039053957	2.241626192	12.11864548	4.869473744	-0.01206378	-1.06413864	-34.2822054	7	2.17E-11	2.11E-06
335	0.869511135	-4.93961941	-2.4761361	14.58967981	5.869511135	0.012652797	0.990454441	-34.2848719	7	8.59E-11	5.09E-06
336	0.130488865	-0.01636275	-3.83601356	-34.083929	6.130488865	3.819650803	0.639335593	-24.5668452	7	7.47E-12	5.98E-07
337	0.130572918	-0.01535026	-3.46765001	-34.1296987	5.908423734	4.222635365	0.733488241	-22.3891425	7	2.54E-12	6.48E-07
338	0.869511135	4.939619409	2.476136103	14.58967981	5.869511135	-0.0126528	-0.99045444	-34.2848719	7	4.21E-11	5.09E-06
339	0.130416331	-0.01349554	-0.91048626	-34.2874807	1.854570203	4.790089846	2.786053765	17.27564335	7	1.19E-11	6.61E-06
340	0.208452852	3.051175739	0.484331966	-27.8856102	0.869928271	-0.01877433	-4.64106448	-33.9547315	7	9.61E-12	3.74E-07
341	0.130488865	3.819650803	3.836013556	24.27392904	6.130488865	-0.01636275	-0.63933559	-34.2931548	7	6.42E-11	7.89E-06
342	0.107666249	0.0099933	1.566045976	-39.1774001	4.107666249	-6.25419061	-1.56604598	-0.06259987	8	8.22E-11	1.19E-06
343	0.89231975	0.010108359	1.27250679	-39.1876835	4.105771742	-6.08080648	-1.89544293	7.638108683	8	8.35E-11	9.83E-07
344	0.892333751	0.0099933	1.566045976	-39.1774001	4.892333751	-6.25419061	-1.56604598	-0.06259987	8	4.06E-11	1.08E-06
345	0.107685523	-0.01130328	-2.56869642	-39.125982	5.910649405	5.632215535	0.972523513	-17.7302436	8	4.18E-11	5.73E-07
346	0.107666249	0.010322137	1.213053997	-39.1899148	3.107666249	-6.05494785	-2.02175666	9.726524605	8	2.03E-11	1.85E-06
347	0.107666249	-0.01032214	-1.213054	-39.1899148	3.107666249	6.054947849	2.021756662	9.726524605	8	2.68E-11	1.85E-06
348	0.900866777	-6.17872149	-1.29120483	-7.83351062	4.107669366	0.010278169	1.929959668	-39.161911	8	5.74E-12	8.36E-07
349	0.892298757	-0.01107877	-0.95669977	-39.1967724	3.097375605	5.532922865	2.514198834	17.49459438	8	1.07E-11	1.66E-06
350	0.892333751	-0.01154543	-2.7124712	-39.1147334	6.892333751	5.413396965	0.904157066	-19.6617555	8	4.65E-12	4.11E-07
351	0.107666249	-6.05494785	-2.02175666	9.726524605	5.107666249	0.010322137	1.213053997	-39.1899148	8	2.05E-11	1.85E-06
352	0.107659034	0.010087039	1.496354571	-39.1805719	3.894152446	-6.29481281	-1.66510255	2.028369682	8	6.78E-11	1.33E-06
353	0.112242462	6.19347627	1.470031419	-2.21667081	3.89233085	-0.00992639	-1.64107344	-39.173758	8	1.30E-11	6.48E-07
354	0.107659034	-0.01008704	-1.49635457	-39.1805719	3.894152446	6.294812806	1.665102552	2.028369682	8	8.94E-11	1.33E-06
355	0.107666249	5.413396965	2.712471198	19.49473341	6.107666249	-0.01154543	-0.90415707	-39.1982445	8	1.35E-11	2.89E-06
356	0.892333751	-0.01032214	-2.02175666	-39.1565246	5.892333751	6.054947849	1.213053997	-9.86008524	8	2.87E-11	6.25E-07
357	0.892343159	0.01040408	2.130363046	-39.1496725	6.11975343	-5.89621862	-1.12993287	-12.088804	8	1.24E-10	4.58E-07
358	0.894152446	-6.29481281	-1.66510255	2.028369682	5.107659034	0.010087039	1.496354571	-39.1805719	8	4.60E-11	1.33E-06
359	0.876393685	-5.25060915	-2.97537178	21.74650828	7.107604308	0.012196844	0.844588045	-39.1997862	8	7.14E-11	5.65E-06
360	0.107604308	0.012196844	0.844588045	-39.1997862	1.876393685	-5.25060915	-2.97537178	21.74650828	8	1.66E-10	5.65E-06
361	0.89233085	-0.00992639	-1.64107344	-39.173758	5.112242462	6.19347627	1.470031419	-2.21667081	8	7.49E-12	6.48E-07
362	0.107685523	0.011303284	2.568696423	-39.125982	5.910649405	-5.63221554	-0.97252351	-17.7302436	8	2.54E-11	5.73E-07
363	0.892333751	-0.01154543	-0.90415707	-39.1982445	2.892333751	5.413396965	2.712471198	19.49473341	8	9.61E-11	4.54E-06
364	0.892374769	0.011917321	2.91152783	-39.0975765	7.132953037	-5.11068801	-0.82085427	-22.0202266	8	7.16E-12	3.35E-07
365	0.892333751	-0.01032214	-1.213054	-39.1899148	3.892333751	6.054947849	2.021756662	9.726524605	8	9.07E-11	2.09E-06
366	0.107644635	-0.01058933	-1.15298209	-39.1920261	2.887291916	6.008383848	2.165373003	11.88156219	8	1.46E-11	2.41E-06
367	0.107257408	0.017865261	0.511178655	-39.2054331	0.839960377	-3.69702186	-5.07011337	31.70933268	8	2.24E-09	1.16E-05
368	0.107669366	0.010278169	1.929959668	-39.161911	4.900866777	-6.17872149	-1.29120483	-7.83351062	8	8.32E-12	8.36E-07
369	0.107666249	-0.0099933	-1.56604598	-39.1774001	4.107666249	6.254190606	1.566045976	-0.06259987	8	8.17E-11	1.19E-06
370	0.910649405	-5.63221554	-0.97252351	-17.7302436	3.107685523	0.011303284	2.568696423	-39.125982	8	3.32E-11	5.73E-07
371	0.107644635	0.010589333	1.152982089	-39.1920261	2.887291916	-6.00838385	-2.165373	11.88156219	8	2.81E-11	2.41E-06
372	0.89221761	-0.01388325	-0.64429067	-39.2031922	2.07863431	4.376044923	3.700157099	27.38986511	8	4.19E-11	3.38E-06
373	0.107669366	-0.01027817	-1.92995967	-39.161911	4.900866777	6.17872149	1.291204832	-7.83351062	8	1.47E-11	8.36E-07
374	0.107666249	0.011545431	2.712471198	-39.1147334	6.107666249	-5.41339697	-0.90415707	-19.6617555	8	1.66E-11	5.37E-07
375	0.892333751	-6.05494785	-1.213054	-9.86008524	3.892333751	0.010322137	2.021756662	-39.1565246	8	7.65E-12	6.25E-07



376	0.892298757	0.011078773	0.956699769	-39.1967724	3.097375605	-5.53292287	-2.51419883	17.49459438	8	2.00E-11	1.66E-06
377	0.892333751	-0.0099933	-1.56604598	-39.1774001	4.892333751	6.254190606	1.566045976	-0.06259987	8	2.96E-11	1.08E-06
378	0.107666249	0.011545431	0.904157066	-39.1982445	2.107666249	-5.41339697	-2.7124712	19.49473341	8	1.44E-11	2.89E-06
379	0.89231975	-0.01010836	-1.27250679	-39.1876835	4.105771742	6.080806484	1.895442925	7.638108683	8	7.37E-11	9.83E-07
380	0.892333751	0.011545431	0.904157066	-39.1982445	2.892333751	-5.41339697	-2.7124712	19.49473341	8	1.72E-10	4.54E-06
381	0.892333751	0.010322137	2.021756662	-39.1565246	5.892333751	-6.05494785	-1.213054	-9.86008524	8	5.15E-12	6.25E-07
382	0.107666249	-0.01154543	-2.7124712	-39.1147334	6.107666249	5.413396965	0.904157066	-19.6617555	8	3.90E-12	5.37E-07
383	0.89233085	0.009926386	1.641073441	-39.173758	5.112242462	-6.19347627	-1.47003142	-2.21667081	8	1.86E-11	6.48E-07
384	0.892333751	5.413396965	0.904157066	-19.6617555	2.892333751	-0.01154543	-2.7124712	-39.1147334	8	2.79E-12	4.11E-07
385	0.107666249	-0.01032214	-2.02175666	-39.1565246	5.107666249	6.054947849	1.213053997	-9.86008524	8	1.27E-11	7.71E-07
386	0.892343159	-0.01040408	-2.13036305	-39.1496725	6.11975343	5.89621862	1.129932872	-12.088804	8	1.73E-10	4.58E-07
387	0.892333751	0.015139666	4.143368195	-38.9890832	7.892333751	-4.12822853	-0.59190974	-29.4658453	8	9.82E-12	2.96E-07
388	0.839960377	-3.69702186	-5.07011337	31.70933268	8.107257408	0.017865261	0.511178655	-39.2054331	8	2.21E-09	1.16E-05
389	0.89221761	0.013883253	0.644290674	-39.2031922	2.07863431	-4.37604492	-3.7001571	27.38986511	8	3.08E-11	3.38E-06
390	0.894152446	6.294812806	1.665102552	2.028369682	5.107659034	-0.01008704	-1.49635457	-39.1805719	8	2.60E-11	1.33E-06
391	0.107666249	0.015139666	0.591909742	-39.2041547	1.107666249	-4.12822853	-4.1433682	29.17908316	8	6.34E-10	5.94E-06
392	0.892374769	-0.01191732	-2.91152783	-39.0975765	7.132953037	5.110688014	0.820854273	-22.0202266	8	5.37E-12	3.35E-07
393	0.967566807	-7.05E-38	-1.88E-36	-15.6892035	5.719992377	-4.41E-39	-4.51E-36	-23.4747535	8	1.32E-11	1.87E-06
394	0.107666249	6.054947849	2.021756662	9.726524605	5.107666249	-0.01032214	-1.213054	-39.1899148	8	2.08E-11	1.85E-06
395	0.107666249	0.010322137	2.021756662	-39.1565246	5.107666249	-6.05494785	-1.213054	-9.86008524	8	5.49E-11	7.71E-07
396	0.107257408	-0.01786526	-0.51117866	-39.2054331	0.839960377	3.697021864	5.070113372	31.70933268	8	3.30E-10	1.16E-05
397	0.892333751	0.010322137	1.213053997	-39.1899148	3.892333751	-6.05494785	-2.02175666	9.726524605	8	1.43E-10	2.09E-06
398	0.892333751	5.413396965	2.712471198	19.49473341	6.892333751	-0.01154543	-0.90415707	-39.1982445	8	9.89E-11	4.54E-06
399	0.887291916	6.008383848	2.165373003	11.88156219	6.107644635	-0.01058933	-1.15298209	-39.1920261	8	1.88E-11	2.41E-06
400	0.920311859	0.00893542	1.400714104	-44.0949361	4.920311859	-6.9946351	-1.75089263	4.842420158	9	5.68E-12	1.05E-06
401	0.920311859	0.01068573	0.837086785	-44.1092205	2.920311859	-5.84892177	-2.92980375	24.39977163	9	2.44E-11	4.10E-06
402	0.920312569	0.008932797	1.808350554	-44.0797156	6.085974776	-6.92489408	-1.34229197	-6.57860518	9	2.50E-11	3.61E-07
403	0.920306059	0.008861612	1.444896733	-44.0932762	5.080808595	-6.98371246	-1.6807042	3.270304979	9	9.40E-12	5.02E-07
404	0.920311859	0.009420098	2.214723459	-44.0615484	6.920311859	-6.63475028	-1.10736173	-14.7567258	9	1.47E-12	3.61E-07
405	0.075379771	6.680855534	2.120424553	13.11429767	5.920297683	-0.00925799	-1.14460351	-44.1021685	9	1.16E-11	7.44E-07
406	0.920311859	0.01068573	2.929803748	-44.0197716	7.920311859	-5.84892177	-0.83708679	-24.5607795	9	3.73E-11	2.53E-07
407	0.092669519	6.493386329	1.053553021	-16.4462917	2.920322001	-0.00950905	-2.29975056	-44.056458	9	2.66E-11	2.71E-07
408	0.079688141	0.014155351	0.553680865	-44.1136498	1.079688141	-4.41529157	-4.42944692	34.0841985	9	4.22E-11	4.26E-06
409	0.920322001	0.009509045	2.299750558	-44.056458	7.092669519	-6.49338633	-1.05355302	-16.4462917	9	5.25E-11	2.71E-07
410	0.920297683	0.009257992	1.144603505	-44.1021685	4.075379771	-6.68085553	-2.12042455	13.11429767	9	4.94E-11	7.44E-07
411	0.079693799	-0.0093571	-2.14540539	-44.0654958	5.930843234	6.746203861	1.15456989	-13.2975619	9	2.97E-12	5.06E-07
412	0.079688141	0.00893542	1.400714104	-44.0949361	4.079688141	-6.9946351	-1.75089263	4.842420158	9	2.37E-11	1.07E-06
413	0.920306059	-0.00886161	-1.44489673	-44.0932762	5.080808595	6.983712464	1.680704198	3.270304979	9	3.35E-12	5.02E-07
414	0.920311859	-0.0094201	-1.10736173	-44.1032742	3.920311859	6.634750279	2.214723459	14.63154835	9	1.17E-11	1.88E-06
415	0.92027944	-0.01035769	-0.87112688	-44.1084559	3.067336691	5.959424935	2.78044874	22.96572756	9	7.56E-11	1.21E-06
416	0.920206882	0.013313972	0.587296006	-44.1131526	2.047593305	-4.61024054	-4.10112666	32.86294696	9	2.56E-11	2.28E-06
417	0.079668535	-0.00961639	-1.06792838	-44.1043942	2.913903659	6.574978924	2.323235379	16.2528172	9	1.44E-10	2.09E-06
418	0.079688141	5.848921765	2.929803748	24.39977163	7.079688141	-0.01068573	-0.83708679	-44.1092205	9	2.58E-11	2.13E-06
419	0.920311859	-0.00893542	-1.4007141	-44.0949361	4.920311859	6.994635098	1.750892629	4.842420158	9	6.58E-12	1.05E-06
420	0.079688141	-0.00893542	-1.75089263	-44.0824202	5.079688141	6.994635098	1.400714104	-4.95506387	9	3.80E-10	6.92E-07
421	0.920348735	-0.01097692	-3.08857459	-44.007023	8.104898742	5.596175799	0.780445917	-26.3703007	9	8.82E-12	2.06E-07
422	0.940499231	-6.02429061	-0.87960508	-23.195872	3.079707226	0.010496918	2.821038225	-44.0279307	9	8.29E-12	3.69E-07

423	0.920322001	-0.00950905	-2.29975056	-44.056458	7.092669519	6.493386329	1.053553021	-16.4462917	9	1.20E-11	2.71E-07
424	0.920311859	0.009420098	1.10736173	-44.1032742	3.920311859	-6.63475028	-2.21472346	14.63154835	9	2.56E-12	1.88E-06
425	0.079688141	-0.0094201	-1.10736173	-44.1032742	3.079688141	6.634750279	2.214723459	14.63154835	9	1.37E-11	1.43E-06
426	0.930843234	-6.74620386	-1.15456989	-13.2975619	4.079693799	0.009357097	2.145405385	-44.0654958	9	6.36E-12	5.06E-07
427	0.920311859	-4.41529157	-4.42944692	34.0841985	8.920311859	0.014155351	0.553680865	-44.1136498	9	6.67E-11	5.35E-06
428	0.920311859	-0.01068573	-0.83708679	-44.1092205	2.920311859	5.848921765	2.929803748	24.39977163	9	3.82E-11	4.10E-06
429	0.079688141	0.00893542	1.750892629	-44.0824202	5.079688141	-6.9946351	-1.4007141	-4.95506387	9	2.63E-11	6.92E-07
430	0.920311859	6.994635098	1.400714104	-4.95506387	4.920311859	-0.00893542	-1.75089263	-44.0824202	9	4.92E-12	5.68E-07
431	0.079693799	0.009357097	2.145405385	-44.0654958	5.930843234	-6.74620386	-1.15456989	-13.2975619	9	7.83E-13	5.06E-07
432	0.920311859	-0.0094201	-2.21472346	-44.0615484	6.920311859	6.634750279	1.10736173	-14.7567258	9	1.33E-11	3.61E-07
433	0.079680052	-0.00902171	-1.35770094	-44.0964867	3.919810102	6.996538585	1.824302876	6.408138303	9	3.38E-11	1.16E-06
434	0.920311859	-6.9946351	-1.4007141	-4.95506387	4.920311859	0.00893542	1.750892629	-44.0824202	9	1.07E-11	5.68E-07
435	0.920311859	0.00893542	1.750892629	-44.0824202	5.920311859	-6.9946351	-1.4007141	-4.95506387	9	5.27E-12	5.68E-07
436	0.075379771	-6.68085553	-2.12042455	13.11429767	5.920297683	0.009257992	1.144603505	-44.1021685	9	2.85E-11	7.44E-07
437	0.079688141	0.01068573	0.837086785	-44.1092205	2.079688141	-5.84892177	-2.92980375	24.39977163	9	3.78E-11	2.13E-06
438	0.079688141	0.01068573	2.929803748	-44.0197716	7.079688141	-5.84892177	-0.83708679	-24.5607795	9	1.70E-11	3.55E-07
439	0.079688141	-0.01068573	-0.83708679	-44.1092205	2.079688141	5.848921765	2.929803748	24.39977163	9	5.81E-11	2.13E-06
440	0.920311859	-0.01068573	-2.92980375	-44.0197716	7.920311859	5.848921765	0.837086785	-24.5607795	9	9.52E-12	2.53E-07
441	0.079634595	0.011142172	0.796063999	-44.1100921	1.903937927	-5.70117161	-3.13123025	26.11127788	9	4.36E-11	4.31E-06
442	0.079688141	-0.01068573	-2.92980375	-44.0197716	7.079688141	5.848921765	0.837086785	-24.5607795	9	7.99E-11	3.55E-07
443	0.085974776	6.924894077	1.342291965	-6.57860518	3.920312569	-0.0089328	-1.80835055	-44.0797156	9	2.24E-10	3.61E-07
444	0.079668535	0.009616388	1.067928383	-44.1043942	2.913903659	-6.57497892	-2.32323538	16.2528172	9	1.32E-10	2.09E-06
445	0.104898742	-5.5961758	-0.78044592	-26.3703007	1.920348735	0.010976922	3.088574591	-44.007023	9	4.79E-12	2.06E-07
446	0.079688141	-0.00893542	-1.4007141	-44.0949361	4.079688141	6.994635098	1.750892629	4.842420158	9	2.36E-10	1.07E-06
447	0.079686792	-0.00894842	-1.69916633	-44.0847523	4.924882679	7.050754835	1.457052185	-3.43803463	9	4.03E-12	7.34E-07
448	0.079634595	-0.01114217	-0.796064	-44.1100921	1.903937927	5.701171611	3.131230254	26.11127788	9	2.69E-11	4.31E-06
449	0.920312569	-0.0089328	-1.80835055	-44.0797156	6.085974776	6.924894077	1.342291965	-6.57860518	9	4.05E-11	3.61E-07
450	0.903937927	5.701171611	3.131230254	26.11127788	8.079634595	-0.01114217	-0.796064	-44.1100921	9	5.42E-11	4.31E-06
451	0.079707226	0.010496918	2.821038225	-44.0279307	6.940499231	-6.02429061	-0.87960508	-23.195872	9	1.01E-11	3.69E-07
452	0.079680052	0.009021709	1.357700942	-44.0964867	3.919810102	-6.99653859	-1.82430288	6.408138303	9	5.63E-11	1.16E-06
453	0.085974776	-6.92489408	-1.34229197	-6.57860518	3.920312569	0.008932797	1.808350554	-44.0797156	9	4.38E-11	3.61E-07
454	0.919810102	-6.99653859	-1.82430288	6.408138303	6.079680052	0.009021709	1.357700942	-44.0964867	9	4.87E-11	1.16E-06
455	0.079688141	-0.0094201	-2.21472346	-44.0615484	6.079688141	6.634750279	1.10736173	-14.7567258	9	1.14E-11	4.82E-07
456	0.920297683	-0.00925799	-1.14460351	-44.1021685	4.075379771	6.680855534	2.120424553	13.11429767	9	2.65E-11	7.44E-07
457	0.964148561	-0.00876976	-2.43511928	-48.9641303	8.049160744	7.089573264	1.001881555	-20.4892989	10	5.02E-12	1.26E-07
458	0.035812843	-0.01020163	-0.76420603	-49.0190382	1.947994415	6.170558006	3.232307921	30.16054191	10	1.11E-11	1.14E-06
459	0.920542038	4.473066712	5.070502797	40.08496597	10.03556311	-0.01422142	-0.49229597	-49.0224856	10	1.96E-11	2.48E-06
460	0.035861915	-7.66387197	-1.27867119	-9.851711	4.035861915	0.008155147	1.918006778	-48.9874335	10	4.24E-12	4.37E-07
461	0.035861915	7.822239843	1.566045976	-0.05005107	5.035861915	-0.00799004	-1.56604598	-48.9999489	10	9.12E-12	6.29E-07
462	0.964138085	0.008719546	1.025217747	-49.0142423	3.964138085	-7.16780468	-2.39217474	19.53656529	10	5.56E-11	1.71E-06
463	0.035861915	0.0099933	3.132091953	-48.9248003	8.035861915	-6.25419061	-0.78302299	-29.4612999	10	8.82E-12	2.45E-07
464	0.035812843	0.010201634	0.764206033	-49.0190382	1.947994415	-6.17055801	-3.23230792	30.16054191	10	1.85E-11	1.14E-06
465	0.964148561	0.008769756	2.435119276	-48.9641303	8.049160744	-7.08957326	-1.00188156	-20.4892989	10	7.68E-12	1.26E-07
466	0.964138085	0.013341027	4.698137929	-48.7992881	9.964138085	-4.6847969	-0.52201533	-39.2678569	10	6.28E-12	1.17E-07
467	0.035861915	7.663871965	1.918006778	9.747433494	6.035861915	-0.00815515	-1.27867119	-49.008289	10	4.17E-12	8.11E-07
468	0.035861915	-0.00799004	-1.56604598	-48.9999489	5.035861915	7.822239843	1.566045976	-0.05005107	10	4.83E-13	6.29E-07
469	0.970692005	7.697236706	1.298333056	-9.21283965	5.035863173	-0.00814775	-1.89546372	-48.9884369	10	2.14E-11	4.47E-07

470	0.035861915	0.008155147	1.278671185	-49.008289	4.035861915	-7.66387197	-1.91800678	9.747433494	10	7.59E-12	8.11E-07
471	0.035861915	-0.00815515	-1.91800678	-48.9874335	6.035861915	7.663871965	1.278671185	-9.851711	10	5.89E-12	4.37E-07
472	0.957005029	-7.12978703	-2.44375278	20.30772156	8.035843938	0.00880851	1.008441586	-49.0146398	10	3.38E-10	8.09E-07
473	0.035859128	0.00800494	1.547167087	-49.0006348	4.966389322	-7.83531189	-1.5907654	0.630742505	10	1.14E-11	6.45E-07
474	0.035861915	-0.0099933	-0.78302299	-49.0187001	2.035861915	6.254190606	3.132091953	29.30480027	10	6.03E-11	1.18E-06
475	0.964138085	-0.00871955	-2.39217474	-48.9665653	7.964138085	7.167804683	1.025217747	-19.6557577	10	1.18E-11	1.88E-07
476	0.035863173	0.008147751	1.895463719	-48.9884369	5.970692005	-7.69723671	-1.29833306	-9.21283965	10	1.57E-11	4.47E-07
477	0.034579	7.671296781	1.886626317	9.057424742	5.964131297	-0.00811698	-1.29510853	-49.0077937	10	1.59E-11	2.78E-07
478	0.964069868	-0.01310422	-0.53090374	-49.0220358	1.999385799	4.746280067	4.597035695	38.65141184	10	3.34E-11	7.16E-07
479	0.035861915	0.008719546	2.392174743	-48.9665653	7.035861915	-7.16780468	-1.02521775	-19.6557577	10	5.66E-12	3.22E-07
480	0.962227176	-7.65439373	-1.95156972	10.46853876	7.035853979	0.008197319	1.261617036	-49.0087944	10	1.63E-10	6.88E-07
481	0.043108451	-7.6214707	-1.25508748	-10.6258464	3.964140362	0.008166006	1.945823671	-48.986173	10	4.99E-12	1.61E-07
482	0.964138085	-6.25419061	-0.78302299	-29.4612999	2.964138085	0.0099933	3.132091953	-48.9248003	10	3.06E-11	1.40E-07
483	0.035861915	0.008155147	1.918006778	-48.9874335	6.035861915	-7.66387197	-1.27867119	-9.851711	10	4.56E-12	4.37E-07
484	0.035853979	0.008197319	1.261617036	-49.0087944	3.962227176	-7.65439373	-1.95156972	10.46853876	10	9.11E-12	6.88E-07
485	0.964138085	0.008719546	2.392174743	-48.9665653	7.964138085	-7.16780468	-1.02521775	-19.6557577	10	3.11E-12	1.88E-07
486	0.964138085	-0.00871955	-1.02521775	-49.0142423	3.964138085	7.167804683	2.392174743	19.53656529	10	2.41E-11	1.71E-06
487	0.964138085	-0.01334103	-0.52201533	-49.0221431	1.964138085	4.684796902	4.698137929	38.98928807	10	4.43E-11	9.50E-07
488	0.035863173	-0.00814775	-1.89546372	-48.9884369	5.970692005	7.697236706	1.298333056	-9.21283965	10	1.98E-11	4.47E-07
489	0.964173935	-0.01014196	-3.21668358	-48.9184709	9.060300898	6.114015172	0.756430471	-30.4039357	10	1.37E-12	9.73E-08
490	0.966389322	7.835311894	1.590765399	0.630742505	6.035859128	-0.00800494	-1.54716709	-49.0006348	10	9.70E-12	6.45E-07
491	0.0358682	0.00868665	2.362931148	-48.9681885	6.976386218	-7.22065862	-1.04161465	-19.0725455	10	5.21E-12	3.28E-07
492	0.964135717	-0.00797576	-1.58655791	-48.9991912	6.038697825	7.806516696	1.53993434	-0.78076995	10	1.64E-11	2.09E-07
493	0.035861915	-0.00871955	-2.39217474	-48.9665653	7.035861915	7.167804683	1.025217747	-19.6557577	10	2.29E-11	3.22E-07
494	0.035861915	7.167804683	2.392174743	19.53656529	7.035861915	-0.00871955	-1.02521775	-49.0142423	10	1.98E-11	8.87E-07
495	0.964140362	-0.00816601	-1.94582367	-48.986173	7.043108451	7.621470702	1.255087475	-10.6258464	10	8.37E-12	1.61E-07
496	0.964138085	-0.01334103	-4.69813793	-48.7992881	9.964138085	4.684796902	0.522015325	-39.2678569	10	3.73E-12	1.17E-07
497	0.029609001	7.197574009	2.350761779	18.89594757	6.964124674	-0.00864938	-1.03918193	-49.0139051	10	1.84E-11	3.86E-07
498	0.964138085	-0.00799004	-1.56604598	-48.9999489	5.964138085	7.822239843	1.566045976	-0.05005107	10	1.75E-12	4.92E-07
499	0.964138085	-0.00815515	-1.27867119	-49.008289	4.964138085	7.663871965	1.918006778	9.747433494	10	1.68E-11	9.78E-07
500	0.035877631	-0.00992146	-3.09042121	-48.927828	7.986372094	6.323913936	0.796659305	-28.9758446	10	6.45E-12	2.49E-07