

#	t0	x0	v0	w0	t1	x1	v1	w1	p	r min	r max
1	0.143114027	0.51225567	0.903645062	-4.083891	0.271770675	-0.27512945	-6.12004999	-1.91818582	1	2.32E-10	2.37E-05
2	0.832915841	-1.18678005	-2.27264852	-1.39531894	1.239482979	0.161884262	3.317199515	-4.20621855	1	5.80E-11	4.44E-05
3	0.239482979	0.161884262	3.317199515	-4.20621855	0.832915841	-1.18678005	-2.27264852	-1.39531894	1	5.82E-11	4.44E-05
4	0.271770675	0.275129448	6.120049986	-1.91818582	1.143114027	-0.51225567	-0.90364506	-4.083891	1	7.91E-11	2.37E-05
5	0.239482979	-0.16188426	-3.31719952	-4.20621855	0.832915841	1.186780051	2.272648516	-1.39531894	1	1.88E-11	4.44E-05
6	0.832915841	1.186780051	2.272648516	-1.39531894	1.239482979	-0.16188426	-3.31719952	-4.20621855	1	5.01E-09	4.44E-05
7	0.271770675	-0.27512945	-6.12004999	-1.91818582	1.143114027	0.51225567	0.903645062	-4.083891	1	1.84E-10	2.37E-05
8	0.143114027	-0.51225567	-0.90364506	-4.083891	0.271770675	0.275129448	6.120049986	-1.91818582	1	1.15E-10	2.37E-05
9	0.22379718	-1.52506409	-1.56604598	-0.25671806	1.22379718	0.040981884	1.566045976	-9.55328194	2	2.97E-10	3.52E-05
10	0.77620282	-0.04098188	-1.56604598	-9.55328194	1.77620282	1.525064092	1.566045976	-0.25671806	2	3.67E-11	3.33E-05
11	0.22379718	0.040981884	1.566045976	-9.55328194	1.22379718	-1.52506409	-1.56604598	-0.25671806	2	1.82E-10	3.52E-05
12	0.778593026	0.03154727	1.832615836	-9.24836507	2.316249674	-0.81575048	-0.55103182	-5.44328438	2	1.31E-10	1.57E-05
13	0.228955611	-0.07625692	-4.83409617	-8.90612453	1.936594032	1.337047065	0.827636558	-7.09668374	2	1.54E-10	1.05E-05
14	0.77620282	0.040981884	1.566045976	-9.55328194	1.77620282	-1.52506409	-1.56604598	-0.25671806	2	9.96E-10	3.33E-05
15	0.77620282	1.525064092	1.566045976	-0.25671806	1.77620282	-0.04098188	-1.56604598	-9.55328194	2	7.29E-11	3.33E-05
16	0.22379718	-0.04098188	-1.56604598	-9.55328194	1.22379718	1.525064092	1.566045976	-0.25671806	2	9.79E-11	3.52E-05
17	0.936594032	-1.33704707	-0.82763656	-7.09668374	1.228955611	0.07625692	4.834096166	-8.90612453	2	1.12E-10	1.05E-05
18	0.778593026	-0.03154727	-1.83261584	-9.24836507	2.316249674	0.815750478	0.551031824	-5.44328438	2	1.09E-10	1.57E-05
19	0.22379718	1.525064092	1.566045976	-0.25671806	1.22379718	-0.04098188	-1.56604598	-9.55328194	2	9.80E-11	3.52E-05
20	0.77620282	-1.52506409	-1.56604598	-0.25671806	1.77620282	0.040981884	1.566045976	-9.55328194	2	9.15E-11	3.33E-05
21	0.316249674	0.815750478	0.551031824	-5.44328438	0.778593026	-0.03154727	-1.83261584	-9.24836507	2	7.94E-11	1.57E-05
22	0.129535352	-0.67474192	-1.96933751	5.559629256	1.770645699	0.032032938	0.430668698	-9.65043207	2	6.85E-10	5.08E-05
23	0.129535352	0.674741919	1.969337513	5.559629256	1.770645699	-0.03203294	-0.4306687	-9.65043207	2	1.48E-09	5.08E-05
24	0.316249674	-0.81575048	-0.55103182	-5.44328438	0.778593026	0.03154727	1.832615836	-9.24836507	2	5.96E-11	1.57E-05
25	0.228955611	0.07625692	4.834096166	-8.90612453	1.936594032	-1.33704707	-0.82763656	-7.09668374	2	1.87E-10	1.05E-05
26	0.22071724	-0.05989639	-1.1359507	-9.63714964	0.721651532	1.642968351	3.399377466	4.378573034	2	2.43E-10	6.81E-05
27	0.936594032	1.337047065	0.827636558	-7.09668374	1.228955611	-0.07625692	-4.83409617	-8.90612453	2	1.16E-10	1.05E-05
28	0.22071724	0.059896394	1.135950704	-9.63714964	0.721651532	-1.64296835	-3.39937747	4.378573034	2	3.55E-10	6.81E-05
29	0.890874192	2.96E-24	5.98E-24	0.225579979	2.678807059	8.96E-26	-5.01E-24	-8.9199439	2	2.55E-09	3.47E-05
30	0.770645699	-0.03203294	-0.4306687	-9.65043207	1.129535352	0.674741919	1.969337513	5.559629256	2	9.62E-11	5.08E-05
31	0.236943055	1.29E-21	1.78E-21	-4.905	1.236943055	-1.41E-22	-2.88E-21	-4.905	2	1.83E-09	1.25E-04
32	0.770645699	0.032032938	0.430668698	-9.65043207	1.129535352	-0.67474192	-1.96933751	5.559629256	2	1.25E-09	5.08E-05
33	0.721651532	1.642968351	3.399377466	4.378573034	2.22071724	-0.05989639	-1.1359507	-9.63714964	2	2.25E-10	6.81E-05
34	0.678807059	-1.48E-30	-4.07E-30	-8.9199439	0.890874192	1.96E-30	6.23E-29	0.225579979	2	1.32E-10	3.47E-05
35	0.734150349	-1.33E-24	-6.05E-22	-8.98014178	1.103253141	5.48E-22	2.02E-22	2.522335914	2	3.47E-10	7.05E-05
36	0.756711663	0.110773903	0.253088844	-9.64187049	0.832074851	-0.3763302	-6.46342223	4.776969686	2	1.59E-11	6.57E-06
37	0.721651532	-1.64296835	-3.39937747	4.378573034	2.22071724	0.059896394	1.135950704	-9.63714964	2	2.10E-10	6.81E-05
38	0.103253141	1.35E-15	3.59E-15	2.522335914	1.734150349	-7.11E-17	-1.18E-15	-8.98014178	2	2.34E-09	7.05E-05
39	0.235529861	-0.12507178	-7.88374638	-6.96659661	2.131742545	0.693161091	0.431509019	-8.94747729	2	7.98E-11	7.43E-06
40	0.235529861	0.125071785	7.883746375	-6.96659661	2.131742545	-0.69316109	-0.43150902	-8.94747729	2	6.26E-11	7.43E-06
41	0.131742545	-0.69316109	-0.43150902	-8.94747729	0.235529861	0.125071785	7.883746375	-6.96659661	2	8.80E-11	7.43E-06
42	0.832074851	-0.3763302	-6.46342223	4.776969686	2.756711663	0.110773903	0.253088844	-9.64187049	2	8.98E-11	6.57E-06
43	0.353610852	-6.77E-24	-4.56E-24	-6.47756374	0.804328741	6.86E-25	4.58E-23	-6.06634384	2	2.78E-09	3.14E-05
44	0.804328741	-1.22E-18	-7.81E-17	-6.06634384	2.353610852	1.19E-17	9.12E-18	-6.47756374	2	2.26E-09	3.14E-05
45	0.756711663	-0.1107739	-0.25308884	-9.64187049	0.832074851	0.376330204	6.463422234	4.776969686	2	7.37E-11	6.57E-06
46	0.131742545	0.693161091	0.431509019	-8.94747729	0.235529861	-0.12507178	-7.88374638	-6.96659661	2	2.08E-11	7.43E-06

47	0.789408328	0.024392123	1.348094705	-14.5544439	2.214226074	-2.09910273	-1.49036244	0.560037967	3	6.99E-11	1.20E-05
48	0.210467842	-0.02858928	-2.21472346	-14.4617306	2.210467842	2.18613418	1.10736173	-5.03163469	3	2.86E-11	9.43E-06
49	0.210432551	0.029273819	1.805924713	-14.5355776	1.800862463	-2.51630364	-1.60055934	-1.04613634	3	1.39E-11	1.37E-05
50	0.210467842	0.028589279	1.10736173	-14.5883653	1.210467842	-2.18613418	-2.21472346	4.651730613	3	9.88E-11	2.57E-05
51	0.800862463	-2.51630364	-1.60055934	-1.04613634	2.210432551	0.029273819	1.805924713	-14.5355776	3	2.90E-11	1.37E-05
52	0.791100637	0.030184431	2.916283033	-14.1872191	3.307068883	-1.38138916	-0.56104587	-10.068185	3	2.60E-11	4.77E-06
53	0.214226074	2.099102731	1.490362441	0.560037967	1.789408328	-0.02439212	-1.3480947	-14.5544439	3	7.41E-11	1.20E-05
54	0.789408328	-0.02439212	-1.3480947	-14.5544439	2.214226074	2.099102731	1.490362441	0.560037967	3	4.18E-10	1.20E-05
55	0.210467842	-2.18613418	-2.21472346	4.651730613	2.210467842	0.028589279	1.10736173	-14.5883653	3	4.20E-11	2.57E-05
56	0.210432551	-0.02927382	-1.80592471	-14.5355776	1.800862463	2.516303637	1.600559343	-1.04613634	3	1.35E-11	1.37E-05
57	0.210467842	2.18613418	1.10736173	-5.03163469	1.210467842	-0.02858928	-2.21472346	-14.4617306	3	4.03E-11	9.43E-06
58	0.789532158	-0.02858928	-2.21472346	-14.4617306	2.789532158	2.18613418	1.10736173	-5.03163469	3	1.06E-10	8.08E-06
59	0.784949392	-0.03582563	-0.40104615	-14.6194213	1.079972464	1.048994957	3.677070357	10.94449191	3	8.40E-11	3.75E-05
60	0.210467842	0.028589279	2.214723459	-14.4617306	2.210467842	-2.18613418	-1.10736173	-5.03163469	3	2.25E-11	9.43E-06
61	0.210467842	-0.02858928	-1.10736173	-14.5883653	1.210467842	2.18613418	2.214723459	4.651730613	3	4.20E-11	2.57E-05
62	0.210467842	2.18613418	2.214723459	4.651730613	2.210467842	-0.02858928	-1.10736173	-14.5883653	3	8.08E-11	2.57E-05
63	0.789532158	-0.02858928	-1.10736173	-14.5883653	1.789532158	2.18613418	2.214723459	4.651730613	3	7.60E-11	3.04E-05
64	0.079972464	1.048994957	3.677070357	10.94449191	2.784949392	-0.03582563	-0.40104615	-14.6194213	3	2.74E-10	3.75E-05
65	0.214226074	-2.09910273	-1.49036244	0.560037967	1.789408328	0.024392123	1.348094705	-14.5544439	3	1.14E-10	1.20E-05
66	0.789532158	0.028589279	2.214723459	-14.4617306	2.789532158	-2.18613418	-1.10736173	-5.03163469	3	2.23E-10	8.08E-06
67	0.789532158	0.028589279	1.10736173	-14.5883653	1.789532158	-2.18613418	-2.21472346	4.651730613	3	4.90E-11	3.04E-05
68	0.789532158	2.18613418	1.10736173	-5.03163469	1.789532158	-0.02858928	-2.21472346	-14.4617306	3	1.35E-10	8.08E-06
69	0.20853598	-0.04143165	-0.82055395	-14.6123021	0.723719357	1.997494441	3.957670567	9.165721711	3	8.69E-11	5.35E-05
70	0.789532158	2.18613418	2.214723459	4.651730613	2.789532158	-0.02858928	-1.10736173	-14.5883653	3	5.07E-11	3.04E-05
71	0.789532158	-2.18613418	-2.21472346	4.651730613	2.789532158	0.028589279	1.10736173	-14.5883653	3	8.07E-11	3.04E-05
72	0.227861822	-1.78E-23	2.31E-22	-5.79660182	1.768940468	-1.85E-23	-8.12E-22	-8.84592606	3	7.61E-11	2.65E-05
73	0.800862463	2.516303637	1.600559343	-1.04613634	2.210432551	-0.02927382	-1.80592471	-14.5355776	3	2.70E-11	1.37E-05
74	0.079972464	-1.04899496	-3.67707036	10.94449191	2.784949392	0.035825635	0.401046153	-14.6194213	3	8.42E-11	3.75E-05
75	0.768940468	1.01E-19	4.16E-18	-8.84592606	2.227861822	-2.08E-19	-4.60E-18	-5.79660182	3	3.00E-10	2.65E-05
76	0.210467842	-2.18613418	-1.10736173	-5.03163469	1.210467842	0.028589279	2.214723459	-14.4617306	3	8.46E-12	9.43E-06
77	0.89429377	-3.49E-18	-1.89E-16	-4.74627332	3.410764833	1.05E-18	-4.36E-18	-11.8870285	3	4.30E-11	1.37E-05
78	0.723719357	1.997494441	3.957670567	9.165721711	3.20853598	-0.04143165	-0.82055395	-14.6123021	3	1.82E-10	5.35E-05
79	0.791100637	-0.03018443	-2.91628303	-14.1872191	3.307068883	1.381389162	0.56104587	-10.068185	3	2.46E-11	4.77E-06
80	0.318927108	2.46E-20	3.19E-19	-10.6313356	1.137843338	-2.84E-20	-6.50E-19	-4.19491161	3	2.89E-11	2.80E-05
81	0.20853598	0.041431647	0.820553947	-14.6123021	0.723719357	-1.99749444	-3.95767057	9.165721711	3	1.54E-10	5.35E-05
82	0.789532158	-2.18613418	-1.10736173	-5.03163469	1.789532158	0.028589279	2.214723459	-14.4617306	3	7.45E-11	8.08E-06
83	0.307068883	1.381389162	0.56104587	-10.068185	0.791100637	-0.03018443	-2.91628303	-14.1872191	3	1.78E-11	4.77E-06
84	0.307068883	-1.38138916	-0.56104587	-10.068185	0.791100637	0.030184431	2.916283033	-14.1872191	3	3.66E-11	4.77E-06
85	0.723719357	-1.99749444	-3.95767057	9.165721711	3.20853598	0.041431647	0.820553947	-14.6123021	3	1.36E-10	5.35E-05
86	0.784949392	0.035825635	0.401046153	-14.6194213	1.079972464	-1.04899496	-3.67707036	10.94449191	3	1.50E-10	3.75E-05
87	0.778709346	0.0759501	0.238681524	-14.6185447	0.868628585	-0.61863241	-7.72451496	10.71128288	3	1.32E-10	4.68E-06
88	0.868628585	-0.61863241	-7.72451496	10.71128288	3.778709346	0.0759501	0.238681524	-14.6185447	3	3.71E-10	4.68E-06
89	0.803188203	-0.01943483	-1.82573055	-19.4616922	3.213340973	2.88319783	1.204335549	-4.12802574	4	1.13E-10	4.06E-06
90	0.196930951	-0.02226046	-2.28091358	-19.4362133	2.826899015	3.102663993	1.188198631	-6.27572691	4	2.71E-11	4.67E-06
91	0.803151727	0.020083493	1.566045976	-19.4941933	2.803151727	-3.11200846	-1.56604598	-0.12580669	4	1.71E-11	7.34E-06
92	0.802987302	-0.01997305	-1.07573417	-19.5238116	2.185353487	2.795905085	2.036998705	5.876846459	4	8.56E-11	9.18E-06
93	0.196848273	0.020083493	1.566045976	-19.4941933	2.196848273	-3.11200846	-1.56604598	-0.12580669	4	1.04E-11	7.83E-06

94	0.826899015	3.102663993	1.188198631	-6.27572691	2.196930951	-0.02226046	-2.28091358	-19.4362133	4	5.96E-11	4.67E-06
95	0.803151727	-0.02008349	-1.56604598	-19.4941933	2.803151727	3.11200846	1.566045976	-0.12580669	4	2.56E-11	7.34E-06
96	0.196848273	2.689230348	2.712471198	9.557839452	3.196848273	-0.02324085	-0.90415707	-19.5359465	4	5.53E-11	1.84E-05
97	0.196848273	-0.02008349	-1.56604598	-19.4941933	2.196848273	3.11200846	1.566045976	-0.12580669	4	3.08E-11	7.83E-06
98	0.196848273	0.02324085	0.904157066	-19.5359465	1.196848273	-2.68923035	-2.7124712	9.557839452	4	3.98E-11	1.84E-05
99	0.798142794	3.20070832	2.012128536	3.753066421	3.19673904	-0.02152187	-1.34338165	-19.5150715	4	8.06E-11	1.14E-05
100	0.185353487	2.795905085	2.036998705	5.876846459	2.802987302	-0.01997305	-1.07573417	-19.5238116	4	4.26E-11	9.18E-06
101	0.803151727	-0.02324085	-2.7124712	-19.3678395	3.803151727	2.689230348	0.904157066	-9.89405352	4	2.60E-11	3.05E-06
102	0.803151727	-3.11200846	-1.56604598	-0.12580669	2.803151727	0.020083493	1.566045976	-19.4941933	4	8.02E-12	7.34E-06
103	0.19673904	-0.02152187	-1.34338165	-19.5150715	1.798142794	3.20070832	2.012128536	3.753066421	4	5.71E-11	1.14E-05
104	0.803188203	0.01943483	1.825730551	-19.4616922	3.213340973	-2.88319783	-1.20433555	-4.12802574	4	5.46E-11	4.06E-06
105	0.803151727	2.689230348	2.712471198	9.557839452	3.803151727	-0.02324085	-0.90415707	-19.5359465	4	9.52E-11	2.58E-05
106	0.803151727	2.689230348	0.904157066	-9.89405352	1.803151727	-0.02324085	-2.7124712	-19.3678395	4	3.24E-11	3.05E-06
107	0.803151727	0.02324085	0.904157066	-19.5359465	1.803151727	-2.68923035	-2.7124712	9.557839452	4	3.17E-11	2.58E-05
108	0.196848273	-0.02324085	-0.90415707	-19.5359465	1.196848273	2.689230348	2.712471198	9.557839452	4	5.48E-11	1.84E-05
109	0.196848273	3.11200846	1.566045976	-0.12580669	2.196848273	-0.02008349	-1.56604598	-19.4941933	4	2.45E-11	7.83E-06
110	0.196848273	-3.11200846	-1.56604598	-0.12580669	2.196848273	0.020083493	1.566045976	-19.4941933	4	2.63E-11	7.83E-06
111	0.196848273	-0.02324085	-2.7124712	-19.3678395	3.196848273	2.689230348	0.904157066	-9.89405352	4	2.82E-11	3.67E-06
112	0.802987302	0.019973046	1.075734167	-19.5238116	2.185353487	-2.79590508	-2.03699871	5.876846459	4	2.16E-11	9.18E-06
113	0.803151727	3.11200846	1.566045976	-0.12580669	2.803151727	-0.02008349	-1.56604598	-19.4941933	4	2.64E-11	7.34E-06
114	0.185353487	-2.79590508	-2.03699871	5.876846459	2.802987302	0.019973046	1.075734167	-19.5238116	4	4.56E-11	9.18E-06
115	0.803151727	0.02324085	2.712471198	-19.3678395	3.803151727	-2.68923035	-0.90415707	-9.89405352	4	1.04E-11	3.05E-06
116	0.213340973	2.88319783	1.204335549	-4.12802574	1.803188203	-0.01943483	-1.82573055	-19.4616922	4	3.68E-11	4.06E-06
117	0.804241637	-0.02667419	-3.59725101	-19.1253318	4.291437198	1.818012099	0.528988482	-14.6621312	4	1.43E-11	2.05E-06
118	0.213340973	-2.88319783	-1.20433555	-4.12802574	1.803188203	0.01943483	1.825730551	-19.4616922	4	6.10E-11	4.06E-06
119	0.19673904	0.021521872	1.343381654	-19.5150715	1.798142794	-3.20070832	-2.01212854	3.753066421	4	7.03E-11	1.14E-05
120	0.798543681	0.038299087	0.320906464	-19.551697	1.019037326	-1.17456893	-5.50069378	16.28616744	4	1.95E-10	9.12E-06
121	0.196930951	0.02226046	2.280913585	-19.4362133	2.826899015	-3.10266399	-1.18819863	-6.27572691	4	1.03E-11	4.67E-06
122	0.195525273	0.032667422	0.682645919	-19.5467322	0.735533236	-2.32928202	-4.37391596	13.85307294	4	1.48E-10	3.79E-05
123	0.196848273	0.02324085	2.712471198	-19.3678395	3.196848273	-2.68923035	-0.90415707	-9.89405352	4	2.19E-10	3.67E-06
124	0.803151727	-2.68923035	-0.90415707	-9.89405352	1.803151727	0.02324085	2.712471198	-19.3678395	4	1.15E-11	3.05E-06
125	0.196848273	2.689230348	0.904157066	-9.89405352	1.196848273	-0.02324085	-2.7124712	-19.3678395	4	3.11E-10	3.67E-06
126	0.804241637	0.026674187	3.597251006	-19.1253318	4.291437198	-1.8180121	-0.52898848	-14.6621312	4	1.62E-11	2.05E-06
127	0.196848273	-2.68923035	-2.7124712	9.557839452	3.196848273	0.02324085	0.904157066	-19.5359465	4	5.47E-11	1.84E-05
128	0.196848273	-2.68923035	-0.90415707	-9.89405352	1.196848273	0.02324085	2.712471198	-19.3678395	4	3.26E-10	3.67E-06
129	0.735533236	2.329282023	4.373915957	13.85307294	4.195525273	-0.03266742	-0.68264592	-19.5467322	4	1.63E-10	3.79E-05
130	0.798543681	-0.03829909	-0.32090646	-19.551697	1.019037326	1.174568934	5.500693779	16.28616744	4	1.42E-10	9.12E-06
131	0.291437198	1.818012099	0.528988482	-14.6621312	0.804241637	-0.02667419	-3.59725101	-19.1253318	4	1.22E-11	2.05E-06
132	0.803151727	-0.02324085	-0.90415707	-19.5359465	1.803151727	2.689230348	2.712471198	9.557839452	4	1.20E-10	2.58E-05
133	0.019037326	-1.17456893	-5.50069378	16.28616744	3.798543681	0.038299087	0.320906464	-19.551697	4	1.67E-10	9.12E-06
134	0.803151727	-2.68923035	-2.7124712	9.557839452	3.803151727	0.02324085	0.904157066	-19.5359465	4	7.29E-11	2.58E-05
135	0.796467717	0.051654129	0.253138402	-19.5517704	0.928311764	-0.92752469	-7.42679581	16.32483143	4	2.21E-10	2.90E-06
136	0.291437198	-1.8180121	-0.52898848	-14.6621312	0.804241637	0.026674187	3.597251006	-19.1253318	4	2.03E-11	2.05E-06
137	0.735533236	-2.32928202	-4.37391596	13.85307294	4.195525273	0.032667422	0.682645919	-19.5467322	4	3.22E-10	3.79E-05
138	0.826899015	-3.10266399	-1.18819863	-6.27572691	2.196930951	0.02226046	2.280913585	-19.4362133	4	1.36E-10	4.67E-06
139	0.798142794	-3.20070832	-2.01212854	3.753066421	3.19673904	0.021521872	1.343381654	-19.5150715	4	7.88E-11	1.14E-05
140	0.195525273	-0.03266742	-0.68264592	-19.5467322	0.735533236	2.329282023	4.373915957	13.85307294	4	1.15E-10	3.79E-05

141	0.139509287	-2.56E-18	-2.84E-18	-5.77036817	2.713849564	1.96E-19	1.51E-17	-13.3041508	4	6.31E-12	1.42E-05
142	0.893441637	1.66E-22	-1.57E-21	-5.73052103	3.678251154	5.72E-23	2.58E-21	-13.7598493	4	1.41E-11	1.40E-05
143	0.77620282	2.92E-24	1.66E-24	-9.81	2.77620282	6.68E-26	4.58E-24	-9.81	4	1.00E-09	1.86E-05
144	0.22379718	3.09E-19	2.63E-19	-9.81	2.22379718	-3.41E-20	-1.05E-18	-9.81	4	2.29E-11	1.89E-05
145	0.289076065	1.31E-30	1.97E-31	-11.2972969	1.833453262	-1.69E-31	-2.35E-29	-8.76377805	4	1.08E-10	1.06E-05
146	0.817189597	-0.01636275	-1.27867119	-24.4413097	2.817189597	3.819650803	1.918006778	4.779464521	5	6.43E-10	6.67E-06
147	0.182802303	-0.01652676	-1.70566331	-24.418587	2.823776367	4.007177224	1.523568154	-1.47800803	5	3.20E-09	3.93E-06
148	0.182802303	0.016526757	1.705663308	-24.418587	2.823776367	-4.00717722	-1.52356815	-1.47800803	5	5.49E-09	3.93E-06
149	0.817189597	0.020083493	0.783022988	-24.4620967	1.817189597	-3.11200846	-3.13209195	14.46338661	5	5.45E-10	2.23E-05
150	0.182810403	-3.8196508	-1.91800678	4.779464521	3.182810403	0.016362752	1.278671185	-24.4413097	5	1.08E-10	6.23E-06
151	0.817189597	0.016362752	1.278671185	-24.4413097	2.817189597	-3.8196508	-1.91800678	4.779464521	5	3.74E-10	6.67E-06
152	0.823776367	-4.00717722	-1.52356815	-1.47800803	3.182802303	0.016526757	1.705663308	-24.418587	5	5.51E-09	3.93E-06
153	0.182810403	-0.01636275	-1.27867119	-24.4413097	2.182810403	3.819650803	1.918006778	4.779464521	5	1.52E-11	6.23E-06
154	0.817189597	-3.8196508	-1.91800678	4.779464521	3.817189597	0.016362752	1.278671185	-24.4413097	5	1.93E-10	6.67E-06
155	0.817245792	-0.0165393	-2.18783444	-24.3692846	4.204193401	3.51255228	1.041968163	-8.77511637	5	2.06E-10	1.81E-06
156	0.846785078	-3.57032243	-0.97959099	-11.4862647	2.182904127	0.018782324	2.686216287	-24.3369066	5	7.43E-12	2.10E-06
157	0.182810403	0.020083493	3.132091953	-24.2733866	4.182810403	-3.11200846	-0.78302299	-14.7779033	5	9.30E-11	1.77E-06
158	0.164403198	-3.32546842	-2.48104681	11.12085665	3.817040837	0.017400668	0.915193188	-24.4561982	5	2.07E-11	7.17E-06
159	0.182810403	-0.02008349	-0.78302299	-24.4620967	1.182810403	3.11200846	3.132091953	14.46338661	5	3.23E-10	1.36E-05
160	0.817189597	-0.01636275	-1.91800678	-24.3994645	3.817189597	3.819650803	1.278671185	-4.98869032	5	5.19E-12	2.72E-06
161	0.182810403	3.819650803	1.278671185	-4.98869032	2.182810403	-0.01636275	-1.91800678	-24.3994645	5	1.11E-11	3.11E-06
162	0.805783015	-3.7739174	-2.33608014	8.447898287	4.182709617	0.017712123	1.122804839	-24.4506207	5	2.32E-11	9.54E-06
163	0.184935922	-3.77426001	-1.60058426	1.191127486	2.817162958	0.015560121	1.439777071	-24.4296318	5	1.40E-11	3.23E-06
164	0.182904127	0.018782324	2.686216287	-24.3369066	3.846785078	-3.57032243	-0.97959099	-11.4862647	5	3.20E-11	2.10E-06
165	0.182810403	-0.01636275	-1.91800678	-24.3994645	3.182810403	3.819650803	1.278671185	-4.98869032	5	1.59E-11	3.11E-06
166	0.182709617	0.017712123	1.122804839	-24.4506207	1.805783015	-3.7739174	-2.33608014	8.447898287	5	5.49E-11	9.54E-06
167	0.817162958	-0.01556012	-1.43977707	-24.4296318	3.184935922	3.77426001	1.600584258	1.191127486	5	5.07E-12	3.23E-06
168	0.817162958	0.015560121	1.439777071	-24.4296318	3.184935922	-3.77426001	-1.60058426	1.191127486	5	1.30E-11	3.23E-06
169	0.817189597	-3.11200846	-0.78302299	-14.7779033	1.817189597	0.020083493	3.132091953	-24.2733866	5	1.37E-11	1.45E-06
170	0.182810403	-0.02008349	-3.13209195	-24.2733866	4.182810403	3.11200846	0.783022988	-14.7779033	5	1.13E-11	1.77E-06
171	0.75046352	-2.64745602	-4.70401751	18.50265919	5.181845871	0.027331358	0.603601127	-24.4680018	5	1.30E-10	2.80E-05
172	0.805783015	3.773917404	2.336080137	8.447898287	4.182709617	-0.01771212	-1.12280484	-24.4506207	5	6.04E-11	9.54E-06
173	0.817189597	3.11200846	0.783022988	-14.7779033	1.817189597	-0.02008349	-3.13209195	-24.2733866	5	1.55E-11	1.45E-06
174	0.182810403	0.016362752	1.918006778	-24.3994645	3.182810403	-3.8196508	-1.27867119	-4.98869032	5	1.29E-11	3.11E-06
175	0.184935922	3.77426001	1.600584258	1.191127486	2.817162958	-0.01556012	-1.43977707	-24.4296318	5	9.13E-11	3.23E-06
176	0.846785078	3.570322427	0.979590985	-11.4862647	2.182904127	-0.01878232	-2.68621629	-24.3369066	5	1.00E-10	2.10E-06
177	0.182810403	-3.11200846	-0.78302299	-14.7779033	1.182810403	0.020083493	3.132091953	-24.2733866	5	1.31E-11	1.77E-06
178	0.182810403	-3.8196508	-1.27867119	-4.98869032	2.182810403	0.016362752	1.918006778	-24.3994645	5	2.80E-12	3.11E-06
179	0.182709617	-0.01771212	-1.12280484	-24.4506207	1.805783015	3.773917404	2.336080137	8.447898287	5	2.21E-11	9.54E-06
180	0.817245792	0.016539299	2.187834443	-24.3692846	4.204193401	-3.51255228	-1.04196816	-8.77511637	5	3.65E-11	1.81E-06
181	0.204193401	-3.51255228	-1.04196816	-8.77511637	1.817245792	0.016539299	2.187834443	-24.3692846	5	4.00E-11	1.81E-06
182	0.817189597	3.11200846	3.132091953	14.46338661	4.817189597	-0.02008349	-0.78302299	-24.4620967	5	9.46E-10	2.23E-05
183	0.817189597	-3.8196508	-1.27867119	-4.98869032	2.817189597	0.016362752	1.918006778	-24.3994645	5	9.50E-12	2.72E-06
184	0.182810403	0.016362752	1.278671185	-24.4413097	2.182810403	-3.8196508	-1.91800678	4.779464521	5	4.99E-11	6.23E-06
185	0.817189597	0.016362752	1.918006778	-24.3994645	3.817189597	-3.8196508	-1.27867119	-4.98869032	5	2.50E-12	2.72E-06
186	0.164403198	3.325468419	2.48104681	11.12085665	3.817040837	-0.01740067	-0.91519319	-24.4561982	5	6.27E-11	7.17E-06
187	0.817040837	-0.01740067	-0.91519319	-24.4561982	2.164403198	3.325468419	2.48104681	11.12085665	5	6.28E-11	7.17E-06

188	0.817040837	0.017400668	0.915193188	-24.4561982	2.164403198	-3.32546842	-2.48104681	11.12085665	5	5.28E-11	7.17E-06
189	0.273847052	-2.20706675	-0.5006366	-19.2436663	0.817989971	0.023698399	4.099594196	-24.0606287	5	2.88E-10	1.06E-06
190	0.817189597	-0.02008349	-0.78302299	-24.4620967	1.817189597	3.11200846	3.132091953	14.46338661	5	6.83E-10	2.23E-05
191	0.817189597	3.819650803	1.918006778	4.779464521	3.817189597	-0.01636275	-1.27867119	-24.4413097	5	2.06E-11	6.67E-06
192	0.182904127	-0.01878232	-2.68621629	-24.3369066	3.846785078	3.570322427	0.979590985	-11.4862647	5	2.63E-11	2.10E-06
193	0.204193401	3.51255228	1.041968163	-8.77511637	1.817245792	-0.0165393	-2.18783444	-24.3692846	5	4.21E-11	1.81E-06
194	0.182810403	3.819650803	1.918006778	4.779464521	3.182810403	-0.01636275	-1.27867119	-24.4413097	5	3.43E-11	6.23E-06
195	0.182810403	0.020083493	0.783022988	-24.4620967	1.182810403	-3.11200846	-3.13209195	14.46338661	5	3.41E-10	1.36E-05
196	0.181845871	-0.02733136	-0.60360113	-24.4680018	0.75046352	2.647456022	4.704017512	18.50265919	5	6.56E-11	2.80E-05
197	0.182810403	3.11200846	3.132091953	14.46338661	4.182810403	-0.02008349	-0.78302299	-24.4620967	5	1.86E-10	1.36E-05
198	0.817989971	-0.0236984	-4.0995942	-24.0606287	5.273847052	2.207066755	0.500636603	-19.2436663	5	2.52E-10	1.06E-06
199	0.823776367	4.007177224	1.523568154	-1.47800803	3.182802303	-0.01652676	-1.70566331	-24.418587	5	2.31E-09	3.93E-06
200	0.817989971	0.023698399	4.099594196	-24.0606287	5.273847052	-2.20706675	-0.5006366	-19.2436663	5	1.27E-10	1.06E-06
201	0.817189597	0.020083493	3.132091953	-24.2733866	4.817189597	-3.11200846	-0.78302299	-14.7779033	5	3.21E-12	1.45E-06
202	0.273847052	2.207066755	0.500636603	-19.2436663	0.817989971	-0.0236984	-4.0995942	-24.0606287	5	2.08E-10	1.06E-06
203	0.182810403	-3.11200846	-3.13209195	14.46338661	4.182810403	0.020083493	0.783022988	-24.4620967	5	1.79E-10	1.36E-05
204	0.817189597	-0.02008349	-3.13209195	-24.2733866	4.817189597	3.11200846	0.783022988	-14.7779033	5	1.05E-11	1.45E-06
205	0.817189597	3.819650803	1.278671185	-4.98869032	2.817189597	-0.01636275	-1.91800678	-24.3994645	5	4.84E-12	2.72E-06
206	0.75046352	2.647456022	4.704017512	18.50265919	5.181845871	-0.02733136	-0.60360113	-24.4680018	5	6.20E-11	2.80E-05
207	0.182810403	3.11200846	0.783022988	-14.7779033	1.182810403	-0.02008349	-3.13209195	-24.2733866	5	6.94E-12	1.77E-06
208	0.167457255	0.023651362	0.552019658	-29.3833373	0.767011754	-2.95750072	-4.97227872	23.1280595	6	2.16E-10	2.12E-05
209	0.831809104	0.013341027	1.566045976	-29.3464294	3.831809104	-4.6847969	-1.56604598	-0.08357064	6	6.61E-12	2.50E-06
210	0.83177438	-0.01339979	-1.22263715	-29.3616345	3.163998782	4.470958919	1.922781831	6.443363546	6	5.14E-12	2.61E-06
211	0.168190896	-0.01334103	-1.56604598	-29.3464294	3.168190896	4.684796902	1.566045976	-0.08357064	6	3.23E-11	2.67E-06
212	0.168190896	0.013341027	1.566045976	-29.3464294	3.168190896	-4.6847969	-1.56604598	-0.08357064	6	4.50E-11	2.67E-06
213	0.831809104	-0.01415535	-1.10736173	-29.3672996	2.831809104	4.415291568	2.214723459	9.684599252	6	3.81E-11	5.75E-06
214	0.831809104	-0.01334103	-1.56604598	-29.3464294	3.831809104	4.684796902	1.566045976	-0.08357064	6	4.30E-12	2.50E-06
215	0.831809104	0.017939947	0.700357052	-29.3797425	1.831809104	-3.48384531	-3.50178526	19.36871263	6	1.20E-10	1.96E-05
216	0.831810073	-0.01315378	-1.72101102	-29.3356048	4.175727097	4.5579943	1.367004041	-3.44880438	6	5.98E-12	1.49E-06
217	0.1681694	0.01369351	1.427013313	-29.3548575	2.831561087	-4.74769097	-1.7877147	3.20799154	6	5.46E-11	3.33E-06
218	0.831677307	-0.01569603	-0.80587547	-29.3764282	2.145564298	3.760727495	2.874237701	16.34969936	6	6.40E-11	5.69E-06
219	0.831809104	4.415291568	1.10736173	-9.87270037	2.831809104	-0.01415535	-2.21472346	-29.3045993	6	8.97E-11	1.29E-06
220	0.168190896	-0.01793995	-0.70035705	-29.3797425	1.168190896	3.483845312	3.501785259	19.36871263	6	6.11E-11	1.04E-05
221	0.831809104	-0.01415535	-2.21472346	-29.3045993	4.831809104	4.415291568	1.10736173	-9.87270037	6	1.78E-11	1.29E-06
222	0.168280639	0.016634327	3.052964458	-29.2373509	4.865135607	-3.96182114	-0.84704669	-16.6995978	6	9.30E-12	1.11E-06
223	0.168190896	4.684796902	1.566045976	-0.08357064	3.168190896	-0.01334103	-1.56604598	-29.3464294	6	3.12E-11	2.67E-06
224	0.83177438	0.013399788	1.222637151	-29.3616345	3.163998782	-4.47095892	-1.92278183	6.443363546	6	1.73E-11	2.61E-06
225	0.831864408	0.014585366	2.486489758	-29.2770043	5.191965776	-4.06300579	-0.93520559	-13.4001384	6	5.41E-12	9.53E-07
226	0.168203476	0.013971711	2.008998405	-29.3221328	3.843583221	-4.65618667	-1.2706601	-6.69369958	6	3.97E-12	1.80E-06
227	0.832420734	-0.02129131	-4.49340476	-28.9932851	6.255226474	2.57227612	0.478270393	-23.8142075	6	2.28E-12	6.08E-07
228	0.168190896	-0.01415535	-1.10736173	-29.3672996	2.168190896	4.415291568	2.214723459	9.684599252	6	4.68E-12	4.80E-06
229	0.191965776	4.063005788	0.935205586	-13.4001384	1.831864408	-0.01458537	-2.48648976	-29.2770043	6	3.49E-12	9.53E-07
230	0.163998782	4.470958919	1.922781831	6.443363546	3.83177438	-0.01339979	-1.22263715	-29.3616345	6	1.74E-11	2.61E-06
231	0.831809104	-0.01793995	-3.50178526	-29.1787126	5.831809104	3.483845312	0.700357052	-19.6702575	6	1.56E-11	7.92E-07
232	0.145564298	-3.7607275	-2.8742377	16.34969936	4.831677307	0.015696028	0.80587547	-29.3764282	6	2.05E-11	5.69E-06
233	0.168190896	0.014155351	2.214723459	-29.3045993	4.168190896	-4.41529157	-1.10736173	-9.87270037	6	2.28E-11	1.53E-06
234	0.831561087	-4.74769097	-1.7877147	3.20799154	4.1681694	0.01369351	1.427013313	-29.3548575	6	9.72E-12	3.33E-06

235	0.168190896	0.014155351	1.10736173	-29.3672996	2.168190896	-4.41529157	-2.21472346	9.684599252	6	2.42E-11	4.80E-06
236	0.1681694	-0.01369351	-1.42701331	-29.3548575	2.831561087	4.747690973	1.787714705	3.20799154	6	5.85E-11	3.33E-06
237	0.831561087	4.747690973	1.787714705	3.20799154	4.1681694	-0.01369351	-1.42701331	-29.3548575	6	3.38E-11	3.33E-06
238	0.865135607	-3.96182114	-0.84704669	-16.6995978	2.168280639	0.016634327	3.052964458	-29.2373509	6	6.30E-12	1.11E-06
239	0.865135607	3.961821139	0.847046693	-16.6995978	2.168280639	-0.01663433	-3.05296446	-29.2373509	6	1.85E-11	1.11E-06
240	0.191965776	-4.06300579	-0.93520559	-13.4001384	1.831864408	0.014585366	2.486489758	-29.2770043	6	5.42E-12	9.53E-07
241	0.168104422	0.015329387	0.988399655	-29.3723359	1.817138473	-4.28516386	-2.60788626	13.10082972	6	1.68E-10	8.06E-06
242	0.175727097	4.5579943	1.367004041	-3.44880438	2.831810073	-0.01315378	-1.72101102	-29.3356048	6	9.17E-12	1.49E-06
243	0.175727097	-4.5579943	-1.36700404	-3.44880438	2.831810073	0.013153783	1.721011024	-29.3356048	6	2.37E-11	1.49E-06
244	0.168190896	-0.01415535	-2.21472346	-29.3045993	4.168190896	4.415291568	1.10736173	-9.87270037	6	1.38E-11	1.53E-06
245	0.831677307	0.015696028	0.80587547	-29.3764282	2.145564298	-3.7607275	-2.8742377	16.34969936	6	1.76E-11	5.69E-06
246	0.831809104	0.017939947	3.501785259	-29.1787126	5.831809104	-3.48384531	-0.70035705	-19.6702575	6	1.84E-11	7.92E-07
247	0.255226474	-2.57227612	-0.47827039	-23.8142075	0.832420734	0.021291313	4.493404757	-28.9932851	6	4.89E-12	6.08E-07
248	0.831810073	0.013153783	1.721011024	-29.3356048	4.175727097	-4.5579943	-1.36700404	-3.44880438	6	5.52E-12	1.49E-06
249	0.817138473	-4.28516386	-2.60788626	13.10082972	5.168104422	0.015329387	0.988399655	-29.3723359	6	1.01E-09	8.06E-06
250	0.831809104	-4.41529157	-2.21472346	9.684599252	4.831809104	0.014155351	1.10736173	-29.3672996	6	2.13E-11	5.75E-06
251	0.168104422	-0.01532939	-0.98839966	-29.3723359	1.817138473	4.285163857	2.607886261	13.10082972	6	5.28E-10	8.06E-06
252	0.831809104	0.014155351	1.10736173	-29.3672996	2.831809104	-4.41529157	-2.21472346	9.684599252	6	8.69E-11	5.75E-06
253	0.168190896	-4.41529157	-2.21472346	9.684599252	4.168190896	0.014155351	1.10736173	-29.3672996	6	1.14E-11	4.80E-06
254	0.168280639	-0.01663433	-3.05296446	-29.2373509	4.865135607	3.961821139	0.847046693	-16.6995978	6	1.16E-11	1.11E-06
255	0.168190896	-0.01793995	-3.50178526	-29.1787126	5.168190896	3.483845312	0.700357052	-19.6702575	6	3.34E-12	9.80E-07
256	0.163998782	-4.47095892	-1.92278183	6.443363546	3.83177438	0.013399788	1.222637151	-29.3616345	6	1.27E-11	2.61E-06
257	0.767011754	-2.95750072	-4.97227872	23.1280595	6.167457255	0.023651362	0.552019658	-29.3833373	6	3.49E-10	2.12E-05
258	0.831809104	4.684796902	1.566045976	-0.08357064	3.831809104	-0.01334103	-1.56604598	-29.3464294	6	1.10E-11	2.50E-06
259	0.121875607	-1.07E-26	7.71E-27	-11.0882405	3.719197186	9.53E-28	1.39E-25	-18.1103252	6	1.21E-11	4.60E-06
260	0.168190896	0.017939947	3.501785259	-29.1787126	5.168190896	-3.48384531	-0.70035705	-19.6702575	6	6.39E-12	9.80E-07
261	0.843583221	-4.65618667	-1.2706601	-6.69369958	3.168203476	0.013971711	2.008998405	-29.3221328	6	4.40E-12	1.80E-06
262	0.167457255	-0.02365136	-0.55201966	-29.3833373	0.767011754	2.957500718	4.972278722	23.1280595	6	9.50E-11	2.12E-05
263	0.831809104	3.483845312	0.700357052	-19.6702575	1.831809104	-0.01793995	-3.50178526	-29.1787126	6	5.73E-12	7.92E-07
264	0.832420734	0.021291313	4.493404757	-28.9932851	6.255226474	-2.57227612	-0.47827039	-23.8142075	6	5.36E-12	6.08E-07
265	0.168203476	-0.01397171	-2.0089984	-29.3221328	3.843583221	4.656186673	1.270660097	-6.69369958	6	4.22E-12	1.80E-06
266	0.168190896	0.017939947	0.700357052	-29.3797425	1.168190896	-3.48384531	-3.50178526	19.36871263	6	4.97E-11	1.04E-05
267	0.831809104	0.014155351	2.214723459	-29.3045993	4.831809104	-4.41529157	-1.10736173	-9.87270037	6	5.29E-12	1.29E-06
268	0.168190896	-4.6847969	-1.56604598	-0.08357064	3.168190896	0.013341027	1.566045976	-29.3464294	6	2.85E-11	2.67E-06
269	0.168190896	4.415291568	2.214723459	9.684599252	4.168190896	-0.01415535	-1.10736173	-29.3672996	6	1.58E-11	4.80E-06
270	0.831809104	-4.41529157	-1.10736173	-9.87270037	2.831809104	0.014155351	2.214723459	-29.3045993	6	7.46E-12	1.29E-06
271	0.168190896	-4.41529157	-1.10736173	-9.87270037	2.168190896	0.014155351	2.214723459	-29.3045993	6	1.45E-11	1.53E-06
272	0.830699316	4.756363658	2.842668578	17.72434779	6.152693378	-0.0136511	-0.89628337	-34.2878903	7	3.84E-11	6.90E-06
273	0.847241596	-0.01157649	-1.9562223	-34.2416533	5.163135939	5.23913086	1.216597751	-8.06197692	7	7.42E-13	8.01E-07
274	0.84723272	0.011545431	1.356235599	-34.2723667	3.84723272	-5.41339697	-1.80831413	4.821488937	7	9.08E-12	2.34E-06
275	0.15276728	0.012652797	0.990454441	-34.2848719	2.15276728	-4.93961941	-2.4761361	14.58967981	7	8.88E-11	3.78E-06
276	0.84723272	0.016362752	3.836013556	-34.083929	6.84723272	-3.8196508	-0.63933559	-24.5668452	7	1.94E-11	4.76E-07
277	0.15276728	-0.0126528	-0.99045444	-34.2848719	2.15276728	4.939619409	2.476136103	14.58967981	7	9.05E-11	3.78E-06
278	0.15276728	-0.01154543	-1.80831413	-34.2514889	4.15276728	5.413396965	1.356235599	-4.9676333	7	1.45E-11	1.34E-06
279	0.152744338	0.011916368	1.255357	-34.276859	2.843362362	-5.39789646	-2.0106209	7.846916612	7	9.90E-12	2.86E-06
280	0.84723272	4.939619409	2.476136103	14.58967981	5.84723272	-0.0126528	-0.99045444	-34.2848719	7	1.57E-10	5.06E-06
281	0.235684758	-2.92510432	-0.46093257	-28.3703881	0.847713957	0.01931947	4.810920453	-33.9238249	7	3.36E-12	3.78E-07

282	0.152764379	0.011599621	1.680230769	-34.2591025	3.851943718	-5.53454082	-1.49928942	-2.02167351	7	1.31E-11	1.56E-06
283	0.847222926	0.011285257	1.461385598	-34.2671626	4.154217202	-5.38562012	-1.63196696	1.817630398	7	5.70E-11	1.23E-06
284	0.152744338	-0.01191637	-1.255357	-34.276859	2.843362362	5.397896461	2.010620899	7.846916612	7	1.56E-11	2.86E-06
285	0.15276728	-0.01636275	-0.63933559	-34.2931548	1.15276728	3.819650803	3.836013556	24.27392904	7	7.39E-11	8.08E-06
286	0.847198378	-0.01198321	-1.07788283	-34.2817083	3.144920499	5.056521401	2.205882322	11.68528474	7	6.28E-12	2.13E-06
287	0.84723272	-0.01154543	-1.3562356	-34.2723667	3.84723272	5.413396965	1.808314132	4.821488937	7	1.82E-11	2.34E-06
288	0.152850726	0.01515769	3.396475627	-34.1373703	5.883395851	-4.29651485	-0.75240181	-21.9254274	7	3.98E-11	6.57E-07
289	0.152850726	-0.01515769	-3.39647563	-34.1373703	5.883395851	4.296514853	0.752401813	-21.9254274	7	3.21E-11	6.57E-07
290	0.15276728	-0.01154543	-1.3562356	-34.2723667	3.15276728	5.413396965	1.808314132	4.821488937	7	1.29E-11	2.28E-06
291	0.84723272	0.016362752	0.639335593	-34.2931548	1.84723272	-3.8196508	-3.83601356	24.27392904	7	4.61E-10	1.75E-05
292	0.847283181	-0.01314862	-2.74239556	-34.1848209	6.177809553	4.565208452	0.858893991	-18.0044985	7	9.52E-12	5.56E-07
293	0.15276728	5.413396965	1.356235599	-4.9676333	3.15276728	-0.01154543	-1.80831413	-34.2514889	7	5.33E-11	1.34E-06
294	0.847222926	-0.01128526	-1.4613856	-34.2671626	4.154217202	5.385620121	1.631966955	1.817630398	7	2.55E-11	1.23E-06
295	0.144920499	5.056521401	2.205882322	11.68528474	4.847198378	-0.01198321	-1.07788283	-34.2817083	7	9.73E-11	2.13E-06
296	0.84723272	-0.01154543	-1.80831413	-34.2514889	4.84723272	5.413396965	1.356235599	-4.9676333	7	2.26E-11	1.18E-06
297	0.847241596	0.011576492	1.956222304	-34.2416533	5.163135939	-5.23913086	-1.21659775	-8.06197692	7	8.61E-12	8.01E-07
298	0.15276728	0.011545431	1.356235599	-34.2723667	3.15276728	-5.41339697	-1.80831413	4.821488937	7	1.45E-10	2.28E-06
299	0.84723272	0.012652797	0.990454441	-34.2848719	2.84723272	-4.93961941	-2.4761361	14.58967981	7	3.70E-11	5.06E-06
300	0.152764379	-0.01159962	-1.68023077	-34.2591025	3.851943718	5.534540817	1.499289418	-2.02167351	7	2.00E-12	1.56E-06
301	0.84723272	-0.01636275	-0.63933559	-34.2931548	1.84723272	3.819650803	3.836013556	24.27392904	7	3.16E-10	1.75E-05
302	0.84723272	3.819650803	0.639335593	-24.5668452	1.84723272	-0.01636275	-3.83601356	-34.083929	7	1.07E-11	4.76E-07
303	0.144920499	-5.0565214	-2.20588232	11.68528474	4.847198378	0.011983207	1.077882834	-34.2817083	7	2.76E-11	2.13E-06
304	0.862066578	5.207899459	1.108504816	-11.9162606	3.152785439	-0.01236136	-2.27887451	-34.2256049	7	7.19E-11	9.72E-07
305	0.847198378	0.011983207	1.077882834	-34.2817083	3.144920499	-5.0565214	-2.20588232	11.68528474	7	8.93E-12	2.13E-06
306	0.84723272	-5.41339697	-1.80831413	4.821488937	4.84723272	0.011545431	1.356235599	-34.2723667	7	8.69E-12	2.34E-06
307	0.15276728	0.011545431	1.808314132	-34.2514889	4.15276728	-5.41339697	-1.3562356	-4.9676333	7	1.23E-11	1.34E-06
308	0.84723272	0.011545431	1.808314132	-34.2514889	4.84723272	-5.41339697	-1.3562356	-4.9676333	7	1.29E-11	1.18E-06
309	0.843362362	5.397896461	2.010620899	7.846916612	5.152744338	-0.01191637	-1.255357	-34.276859	7	1.25E-11	2.86E-06
310	0.15276728	-0.0126528	-2.4761361	-34.2096798	5.15276728	4.939619409	0.990454441	-14.7651281	7	1.74E-11	8.65E-07
311	0.152693378	0.013651096	0.896283366	-34.2878903	1.830699316	-4.75636366	-2.84266858	17.72434779	7	5.60E-11	6.90E-06
312	0.154217202	5.385620121	1.631966955	1.817630398	3.847222926	-0.01128526	-1.4613856	-34.2671626	7	2.75E-11	1.23E-06
313	0.851943718	5.534540817	1.499289418	-2.02167351	4.152764379	-0.01159962	-1.68023077	-34.2591025	7	1.49E-11	1.56E-06
314	0.15276728	-4.93961941	-2.4761361	14.58967981	5.15276728	0.012652797	0.990454441	-34.2848719	7	1.40E-10	3.78E-06
315	0.84723272	-0.01636275	-3.83601356	-34.083929	6.84723272	3.819650803	0.639335593	-24.5668452	7	1.08E-11	4.76E-07
316	0.152785439	-0.01236136	-2.27887451	-34.2256049	4.862066578	5.207899459	1.108504816	-11.9162606	7	1.81E-11	9.72E-07
317	0.177809553	4.565208452	0.858893991	-18.0044985	1.847283181	-0.01314862	-2.74239556	-34.1848209	7	3.01E-12	5.56E-07
318	0.847114669	0.01447892	0.724680055	-34.2911407	2.127087563	-4.13071064	-3.23849792	21.58246465	7	4.07E-11	4.56E-06
319	0.15276728	-5.41339697	-1.80831413	4.821488937	4.15276728	0.011545431	1.356235599	-34.2723667	7	2.95E-11	2.28E-06
320	0.84723272	0.012652797	2.476136103	-34.2096798	5.84723272	-4.93961941	-0.99045444	-14.7651281	7	1.37E-11	7.09E-07
321	0.847114669	-0.01447892	-0.72468005	-34.2911407	2.127087563	4.130710636	3.238497919	21.58246465	7	9.33E-12	4.56E-06
322	0.15276728	-4.93961941	-0.99045444	-14.7651281	2.15276728	0.012652797	2.476136103	-34.2096798	7	1.45E-11	8.65E-07
323	0.84723272	-0.0126528	-0.99045444	-34.2848719	2.84723272	4.939619409	2.476136103	14.58967981	7	6.25E-11	5.06E-06
324	0.851943718	-5.53454082	-1.49928942	-2.02167351	4.152764379	0.011599621	1.680230769	-34.2591025	7	1.18E-11	1.56E-06
325	0.84723272	-0.0126528	-2.4761361	-34.2096798	5.84723272	4.939619409	0.990454441	-14.7651281	7	1.16E-11	7.09E-07
326	0.15276728	0.016362752	0.639335593	-34.2931548	1.15276728	-3.8196508	-3.83601356	24.27392904	7	7.32E-11	8.08E-06
327	0.192568389	2.84E-24	1.35E-23	-16.1477898	3.786152646	-4.66E-25	-4.79E-23	-18.1580077	7	1.96E-11	2.88E-06
328	0.15276728	0.016362752	3.836013556	-34.083929	6.15276728	-3.8196508	-0.63933559	-24.5668452	7	9.58E-12	5.97E-07

329	0.15276728	0.012652797	2.476136103	-34.2096798	5.15276728	-4.93961941	-0.99045444	-14.7651281	7	1.78E-12	8.65E-07
330	0.152693378	-0.0136511	-0.89628337	-34.2878903	1.830699316	4.756363658	2.842668578	17.72434779	7	8.76E-11	6.90E-06
331	0.15276728	-3.8196508	-3.83601356	24.27392904	6.15276728	0.016362752	0.639335593	-34.2931548	7	1.47E-10	8.08E-06
332	0.177809553	-4.56520845	-0.85889399	-18.0044985	1.847283181	0.013148616	2.742395563	-34.1848209	7	2.02E-11	5.56E-07
333	0.127087563	-4.13071064	-3.23849792	21.58246465	5.847114669	0.01447892	0.724680055	-34.2911407	7	2.61E-11	4.56E-06
334	0.152192207	-0.02091164	-0.51582147	-34.2954857	0.784831655	3.263509614	5.191616271	27.73110508	7	2.67E-10	1.64E-05
335	0.15276728	4.939619409	2.476136103	14.58967981	5.15276728	-0.0126528	-0.99045444	-34.2848719	7	1.37E-10	3.78E-06
336	0.152785439	0.012361364	2.27887451	-34.2256049	4.862066578	-5.20789946	-1.10850482	-11.9162606	7	6.37E-11	9.72E-07
337	0.154217202	-5.38562012	-1.63196696	1.817630398	3.847222926	0.011285257	1.461385598	-34.2671626	7	2.53E-11	1.23E-06
338	0.163135939	5.23913086	1.216597751	-8.06197692	2.847241596	-0.01157649	-1.9562223	-34.2416533	7	9.55E-12	8.01E-07
339	0.84723272	5.413396965	1.808314132	4.821488937	4.84723272	-0.01154543	-1.3562356	-34.2723667	7	4.56E-12	2.34E-06
340	0.851522559	-1.60E-20	-9.49E-19	-15.1651699	4.746844829	1.62E-20	-2.81E-20	-19.1569871	7	2.41E-11	3.27E-06
341	0.136212592	5.413396965	2.712471198	19.49473341	6.136212592	-0.01154543	-0.90415707	-39.1982445	8	2.71E-10	3.00E-06
342	0.863787408	0.011545431	0.904157066	-39.1982445	2.863787408	-5.41339697	-2.7124712	19.49473341	8	5.86E-12	4.51E-06
343	0.863787408	0.010322137	1.213053997	-39.1899148	3.863787408	-6.05494785	-2.02175666	9.726524605	8	9.20E-12	2.08E-06
344	0.136190883	-0.01066307	-1.13671642	-39.1925535	2.857722065	5.989459122	2.204686183	12.44975551	8	2.49E-11	2.49E-06
345	0.136212592	0.0099933	1.566045976	-39.1774001	4.136212592	-6.25419061	-1.56604598	-0.06259987	8	1.04E-11	1.19E-06
346	0.136212592	-0.01513967	-4.1433682	-38.9890832	7.136212592	4.128228529	0.591909742	-29.4658453	8	2.27E-11	3.90E-07
347	0.880731277	5.689414795	0.992366642	-17.1571429	3.136232083	-0.01123458	-2.52744285	-39.128941	8	4.94E-12	5.82E-07
348	0.863785927	-0.00991859	-1.66191246	-39.1727444	5.140652954	6.177602494	1.446741517	-2.77461339	8	1.32E-11	6.73E-07
349	0.136215942	0.010265989	1.904347143	-39.1633001	4.87136868	-6.20713657	-1.31303105	-7.26473228	8	4.47E-12	8.52E-07
350	0.136205538	0.010112886	1.477218952	-39.1813782	3.864733117	-6.29978713	-1.69233025	2.595986225	8	2.27E-11	1.36E-06
351	0.863680177	-0.01357173	-0.66067402	-39.202881	2.108038894	4.449704974	3.586808726	26.83132152	8	2.87E-11	3.65E-06
352	0.136212592	0.011545431	0.904157066	-39.1982445	2.136212592	-5.41339697	-2.7124712	19.49473341	8	2.76E-10	3.00E-06
353	0.857722065	-5.98945912	-2.20468618	12.44975551	6.136190883	0.010663071	1.136716423	-39.1925535	8	9.58E-12	2.49E-06
354	0.863787408	0.0099933	1.566045976	-39.1774001	4.863787408	-6.25419061	-1.56604598	-0.06259987	8	1.86E-11	1.11E-06
355	0.136212592	-4.12822853	-4.1433682	29.17908316	7.136212592	0.015139666	0.591909742	-39.2041547	8	5.47E-11	6.33E-06
356	0.136148938	0.012379809	0.828717748	-39.2001597	1.846149847	-5.20025408	-3.04832229	22.31834429	8	2.22E-10	5.97E-06
357	0.136212592	-0.01032214	-1.213054	-39.1899148	3.136212592	6.054947849	2.021756662	9.726524605	8	1.94E-11	1.84E-06
358	0.863787408	-0.01032214	-2.02175666	-39.1565246	5.863787408	6.054947849	1.213053997	-9.86008524	8	2.86E-12	6.47E-07
359	0.136212592	0.011545431	2.712471198	-39.1147334	6.136212592	-5.41339697	-0.90415707	-19.6617555	8	8.31E-12	5.34E-07
360	0.136212592	0.010322137	1.213053997	-39.1899148	3.136212592	-6.05494785	-2.02175666	9.726524605	8	1.45E-11	1.84E-06
361	0.863798649	-0.01043623	-2.16023126	-39.1477731	6.14826177	5.855751417	1.110082049	-12.647976	8	6.97E-12	4.74E-07
362	0.863787408	-0.0099933	-1.56604598	-39.1774001	4.863787408	6.254190606	1.566045976	-0.06259987	8	2.79E-11	1.11E-06
363	0.136212592	-6.05494785	-2.02175666	9.726524605	5.136212592	0.010322137	1.213053997	-39.1899148	8	1.18E-11	1.84E-06
364	0.136212592	-6.25419061	-1.56604598	-0.06259987	4.136212592	0.0099933	1.566045976	-39.1774001	8	2.23E-12	1.19E-06
365	0.125906933	5.565505012	2.465119792	16.93755855	5.863755112	-0.01097022	-0.9718757	-39.1963438	8	2.66E-11	1.75E-06
366	0.136212592	5.413396965	0.904157066	-19.6617555	2.136212592	-0.01154543	-2.7124712	-39.1147334	8	5.57E-12	5.34E-07
367	0.863832612	0.012030119	2.96599545	-39.0927567	7.161907036	-5.0358734	-0.8014995	-22.5838996	8	1.96E-12	3.47E-07
368	0.863787408	-0.01032214	-1.213054	-39.1899148	3.863787408	6.054947849	2.021756662	9.726524605	8	8.86E-12	2.08E-06
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370	0.140652954	-6.17760249	-1.44674152	-2.77461339	3.863785927	0.009918594	1.661912463	-39.1727444	8	1.09E-11	6.73E-07
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372	0.902391199	4.58426285	0.679614759	-27.1725163	2.136289885	-0.01407946	-3.72667737	-39.0367679	8	1.06E-11	4.19E-07
373	0.136205538	-0.01011289	-1.47721895	-39.1813782	3.864733117	6.299787128	1.692330252	2.595986225	8	3.71E-11	1.36E-06
374	0.14826177	-5.85575142	-1.11008205	-12.647976	2.863798649	0.010436231	2.160231258	-39.1477731	8	4.80E-12	4.74E-07
375	0.136148938	-0.01237981	-0.82871775	-39.2001597	1.846149847	5.200254076	3.04832229	22.31834429	8	8.55E-11	5.97E-06

376	0.863787408	0.010322137	2.021756662	-39.1565246	5.863787408	-6.05494785	-1.213054	-9.86008524	8	1.28E-12	6.47E-07
377	0.136232083	0.011234582	2.527442846	-39.128941	5.880731277	-5.6894148	-0.99236664	-17.1571429	8	1.20E-11	5.82E-07
378	0.136215942	-0.01026599	-1.90434714	-39.1633001	4.87136868	6.207136565	1.313031047	-7.26473228	8	6.33E-12	8.52E-07
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380	0.863787408	5.413396965	0.904157066	-19.6617555	2.863787408	-0.01154543	-2.7124712	-39.1147334	8	4.38E-12	4.27E-07
381	0.864733117	-6.29978713	-1.69233025	2.595986225	5.136205538	0.010112886	1.477218952	-39.1813782	8	1.04E-11	1.36E-06
382	0.863755112	0.010970216	0.971875702	-39.1963438	3.125906933	-5.56550501	-2.46511979	16.93755855	8	4.15E-11	1.75E-06
383	0.136232083	-0.01123458	-2.52744285	-39.128941	5.880731277	5.689414795	0.992366642	-17.1571429	8	1.04E-11	5.82E-07
384	0.136289885	0.014079463	3.726677374	-39.0367679	6.902391199	-4.58426285	-0.67961476	-27.1725163	8	1.61E-11	4.19E-07
385	0.863787408	-0.01513967	-4.1433682	-38.9890832	7.863787408	4.128228529	0.591909742	-29.4658453	8	1.99E-12	3.05E-07
386	0.857722065	5.989459122	2.204686183	12.44975551	6.136190883	-0.01066307	-1.13671642	-39.1925535	8	1.26E-11	2.49E-06
387	0.136212592	0.015139666	0.591909742	-39.2041547	1.136212592	-4.12822853	-4.1433682	29.17908316	8	6.38E-12	6.33E-06
388	0.863787408	-6.05494785	-1.213054	-9.86008524	3.863787408	0.010322137	2.021756662	-39.1565246	8	5.87E-12	6.47E-07
389	0.863755112	-0.01097022	-0.9718757	-39.1963438	3.125906933	5.565505012	2.465119792	16.93755855	8	2.01E-11	1.75E-06
390	0.86377501	-0.01006292	-1.28925002	-39.187054	4.134180467	6.087566956	1.864487432	7.080752987	8	8.18E-12	1.02E-06
391	0.136212592	-0.01154543	-0.90415707	-39.1982445	2.136212592	5.413396965	2.712471198	19.49473341	8	4.71E-10	3.00E-06
392	0.863787408	-0.01154543	-2.7124712	-39.1147334	6.863787408	5.413396965	0.904157066	-19.6617555	8	1.08E-11	4.27E-07
393	0.86377501	0.010062916	1.289250023	-39.187054	4.134180467	-6.08756696	-1.86448743	7.080752987	8	7.32E-12	1.02E-06
394	0.096093278	0	-1.84E-40	-16.0662341	4.726422113	-3.73E-41	-2.57E-39	-23.0479806	8	9.77E-12	1.97E-06
395	0.140652954	6.177602494	1.446741517	-2.77461339	3.863785927	-0.00991859	-1.66191246	-39.1727444	8	4.82E-11	6.73E-07
396	0.136190883	0.010663071	1.136716423	-39.1925535	2.857722065	-5.98945912	-2.20468618	12.44975551	8	9.51E-12	2.49E-06
397	0.863787408	-0.01513967	-0.59190974	-39.2041547	1.863787408	4.128228529	4.143368195	29.17908316	8	2.32E-10	1.57E-05
398	0.136212592	-0.01513967	-0.59190974	-39.2041547	1.136212592	4.128228529	4.143368195	29.17908316	8	7.78E-11	6.33E-06
399	0.87136868	6.207136565	1.313031047	-7.26473228	4.136215942	-0.01026599	-1.90434714	-39.1633001	8	5.01E-13	8.52E-07
400	0.882002773	-0.00893542	-1.75089263	-44.0824202	5.882002773	6.994635098	1.400714104	-4.95506387	9	2.46E-11	6.02E-07
401	0.117997227	0.00893542	1.400714104	-44.0949361	4.117997227	-6.9946351	-1.75089263	4.842420158	9	1.12E-11	1.06E-06
402	0.882002773	0.01068573	0.837086785	-44.1092205	2.882002773	-5.84892177	-2.92980375	24.39977163	9	6.32E-11	4.07E-06
403	0.882004614	0.008938936	1.836408849	-44.0783846	6.124251849	-6.8918315	-1.31637638	-7.3291967	9	2.00E-11	4.00E-07
404	0.118003012	0.009325551	2.10983155	-44.0674102	5.891509272	-6.79803273	-1.17906831	-12.5364571	9	1.76E-12	5.17E-07
405	0.881989981	-0.00918841	-1.1635955	-44.1016004	4.113665147	6.702808428	2.076940439	12.36480132	9	4.14E-11	8.44E-07
406	0.795602432	-4.86E-27	-1.05E-24	-23.0678202	5.174206023	1.03E-25	2.45E-24	-21.0550071	9	2.62E-11	1.39E-06
407	0.882002773	0.00893542	1.750892629	-44.0824202	5.882002773	-6.9946351	-1.4007141	-4.95506387	9	3.08E-11	6.02E-07
408	0.117997227	-0.01068573	-0.83708679	-44.1092205	2.117997227	5.848921765	2.929803748	24.39977163	9	4.40E-09	2.38E-06
409	0.882002773	-0.01068573	-0.83708679	-44.1092205	2.882002773	5.848921765	2.929803748	24.39977163	9	3.50E-11	4.07E-06
410	0.117977336	0.009713337	1.049098176	-44.1048987	2.874510315	-6.54029653	-2.37617685	17.01258314	9	2.49E-11	2.19E-06
411	0.882043171	0.011122064	3.162901235	-44.0008725	8.143951974	-5.48628873	-0.75702008	-27.1288214	9	1.40E-11	2.28E-07
412	0.882043171	-0.01112206	-3.16290124	-44.0008725	8.143951974	5.486288729	0.757020081	-27.1288214	9	4.92E-12	2.28E-07
413	0.117997227	-0.01415535	-0.55368086	-44.1136498	1.117997227	4.415291568	4.429446918	34.0841985	9	1.19E-10	4.96E-06
414	0.882014463	-0.00955881	-2.34047682	-44.0539859	7.131102016	6.428888008	1.030301907	-17.1986142	9	6.42E-12	2.98E-07
415	0.891509272	-6.79803273	-1.17906831	-12.5364571	4.118003012	0.009325551	2.10983155	-44.0674102	9	8.48E-13	5.17E-07
416	0.293934108	-7.79E-35	5.80E-33	-25.8361962	3.986373396	1.76E-34	1.66E-32	-18.3951444	9	1.15E-11	9.46E-07
417	0.881904264	0.012882554	0.607820202	-44.112838	2.087569415	-4.72467163	-3.92941123	32.10950507	9	9.48E-12	2.86E-06
418	0.881998077	0.008833918	1.466887081	-44.092445	5.119050037	-6.97787303	-1.64895475	2.520442285	9	2.11E-11	5.62E-07
419	0.881989981	0.009188408	1.163595503	-44.1016004	4.113665147	-6.70280843	-2.07694044	12.36480132	9	4.49E-11	8.44E-07
420	0.874510315	-6.54029653	-2.37617685	17.01258314	7.117977336	0.009713337	1.049098176	-44.1048987	9	8.97E-12	2.19E-06
421	0.117989114	0.009065055	1.336689328	-44.0972041	3.880638667	-6.99164539	-1.86057999	7.166879193	9	5.32E-11	1.20E-06
422	0.882002773	6.994635098	1.400714104	-4.95506387	4.882002773	-0.00893542	-1.75089263	-44.0824202	9	2.66E-11	6.02E-07

423	0.117997227	0.00893542	1.750892629	-44.0824202	5.117997227	-6.9946351	-1.4007141	-4.95506387	9	8.00E-11	6.89E-07
424	0.117977336	-0.00971334	-1.04909818	-44.1048987	2.874510315	6.540296526	2.376176854	17.01258314	9	1.02E-11	2.19E-06
425	0.882002773	-0.01068573	-2.92980375	-44.0197716	7.882002773	5.848921765	0.837086785	-24.5607795	9	9.91E-12	2.74E-07
426	0.131102016	6.428888008	1.030301907	-17.1986142	2.882014463	-0.00955881	-2.34047682	-44.0539859	9	1.32E-12	2.98E-07
427	0.117997227	0.009420098	1.10736173	-44.1032742	3.117997227	-6.63475028	-2.21472346	14.63154835	9	3.48E-12	1.50E-06
428	0.124251849	6.891831496	1.316376379	-7.3291967	3.882004614	-0.00893894	-1.83640885	-44.0783846	9	1.08E-11	4.00E-07
429	0.882002773	-6.63475028	-1.10736173	-14.7567258	3.882002773	0.009420098	2.214723459	-44.0615483	9	5.03E-12	3.89E-07
430	0.117997227	-0.00893542	-1.75089263	-44.0824202	5.117997227	6.994635098	1.400714104	-4.95506387	9	1.78E-11	6.89E-07
431	0.118068818	-0.01326643	-4.05188103	-43.9352447	7.922929712	4.829295044	0.620454552	-32.4528047	9	3.95E-11	2.83E-07
432	0.117997227	-4.41529157	-0.55368086	-34.3663502	1.117997227	0.014155351	4.429446918	-43.8941985	9	1.43E-11	2.68E-07
433	0.882002773	-5.84892177	-0.83708679	-24.5607795	2.882002773	0.01068573	2.929803748	-44.0197716	9	1.93E-12	2.74E-07
434	0.882002773	-0.01415535	-4.42944692	-43.8941985	8.882002773	4.415291568	0.553680865	-34.3663502	9	4.16E-11	2.06E-07
435	0.117997227	-0.00893542	-1.4007141	-44.0949361	4.117997227	6.994635098	1.750892629	4.842420158	9	8.99E-12	1.06E-06
436	0.117997227	0.01068573	0.837086785	-44.1092205	2.117997227	-5.84892177	-2.92980375	24.39977163	9	3.37E-09	2.38E-06
437	0.117997227	-0.0094201	-1.10736173	-44.1032742	3.117997227	6.634750279	2.214723459	14.63154835	9	4.07E-12	1.50E-06
438	0.882002773	0.009420098	2.214723459	-44.0615483	6.882002773	-6.63475028	-1.10736173	-14.7567258	9	1.42E-11	3.89E-07
439	0.118016605	-0.01039635	-2.76226801	-44.0320658	6.900574072	6.114774229	0.903076843	-22.4288107	9	5.97E-12	3.76E-07
440	0.117997227	-5.84892177	-2.92980375	24.39977163	7.117997227	0.01068573	0.837086785	-44.1092205	9	1.45E-09	2.38E-06
441	0.117941868	-0.01136643	-0.77708593	-44.1104676	1.863733349	5.625776939	3.228990081	26.87529472	9	1.79E-10	5.20E-06
442	0.117941868	0.011366434	0.77708593	-44.1104676	1.863733349	-5.62577694	-3.22899008	26.87529472	9	2.19E-10	5.20E-06
443	0.882014463	0.009558814	2.340476823	-44.0539859	7.131102016	-6.42888801	-1.03030191	-17.1986142	9	2.74E-12	2.98E-07
444	0.118016605	0.010396355	2.762268015	-44.0320658	6.900574072	-6.11477423	-0.90307684	-22.4288107	9	8.99E-12	3.76E-07
445	0.882002773	0.00893542	1.400714104	-44.0949361	4.882002773	-6.9946351	-1.75089263	4.842420158	9	1.12E-11	1.06E-06
446	0.882002773	0.009420098	1.10736173	-44.1032742	3.882002773	-6.63475028	-2.21472346	14.63154835	9	1.73E-11	1.87E-06
447	0.882002773	5.848921765	0.837086785	-24.5607795	2.882002773	-0.01068573	-2.92980375	-44.0197716	9	1.62E-11	2.74E-07
448	0.881998077	-0.00883392	-1.46688708	-44.092445	5.119050037	6.977873031	1.648954748	2.520442285	9	1.54E-11	5.62E-07
449	0.882002773	-0.0094201	-1.10736173	-44.1032742	3.882002773	6.634750279	2.214723459	14.63154835	9	3.02E-11	1.87E-06
450	0.117989114	-0.00906505	-1.33668933	-44.0972041	3.880638667	6.991645395	1.860579985	7.166879193	9	4.89E-11	1.20E-06
451	0.882002773	-6.9946351	-1.4007141	-4.95506387	4.882002773	0.00893542	1.750892629	-44.0824202	9	1.66E-11	6.02E-07
452	0.117997227	-0.01068573	-2.92980375	-44.0197716	7.117997227	5.848921765	0.837086785	-24.5607795	9	3.90E-12	3.53E-07
453	0.891509272	6.798032735	1.179068313	-12.5364571	4.118003012	-0.00932555	-2.10983155	-44.0674102	9	1.73E-12	5.17E-07
454	0.882004614	-0.00893894	-1.83640885	-44.0783846	6.124251849	6.891831496	1.316376379	-7.3291967	9	8.23E-12	4.00E-07
455	0.117997227	-6.9946351	-1.4007141	-4.95506387	4.117997227	0.00893542	1.750892629	-44.0824202	9	5.94E-11	6.89E-07
456	0.90286662	0.007990039	1.566045976	-48.9999489	5.90286662	-7.82223984	-1.56604598	-0.05005107	10	3.34E-11	5.70E-07
457	0.097152068	-0.00974989	-2.98949752	-48.9348493	7.922823421	6.490400203	0.830618843	-27.7518301	10	9.68E-12	2.57E-07
458	0.09713338	0.008719546	2.392174743	-48.9665653	7.09713338	-7.16780468	-1.02521775	-19.6557577	10	2.85E-12	3.20E-07
459	0.097125244	0.00827123	1.232927889	-49.0096152	3.899973283	-7.63237026	-2.00918927	11.6782493	10	4.79E-10	1.07E-06
460	0.90286662	6.254190606	3.132091953	29.30480027	8.90286662	-0.0099933	-0.78302299	-49.0187001	10	4.60E-11	3.71E-06
461	0.902869884	0.00818945	1.990781808	-48.9841098	7.104566435	-7.55340396	-1.2192782	-11.8289984	10	1.67E-12	2.49E-07
462	0.90286662	0.0099933	3.132091953	-48.9248003	8.90286662	-6.25419061	-0.78302299	-29.4612999	10	1.09E-12	1.82E-07
463	0.90286662	-0.00799004	-1.56604598	-48.9999489	5.90286662	7.822239843	1.566045976	-0.05005107	10	4.36E-11	5.70E-07
464	0.097199177	0.012650417	4.381663365	-48.8322447	8.946234494	-5.03048937	-0.56990843	-37.7873592	10	1.99E-12	1.99E-07
465	0.90286662	0.008155147	1.918006778	-48.9874335	6.90286662	-7.66387196	-1.27867119	-9.851711	10	1.31E-11	3.58E-07
466	0.09713338	7.663871965	1.278671185	-9.851711	4.09713338	-0.00815515	-1.91800678	-48.9874335	10	1.47E-12	4.35E-07
467	0.902878038	-0.00885251	-2.50069525	-48.960344	8.110900823	6.973031647	0.968626816	-21.6954311	10	4.96E-13	1.93E-07
468	0.083485221	-6.41529747	-2.94633457	27.54304056	7.902838668	0.009616848	0.821668232	-49.0179801	10	2.44E-11	1.11E-06
469	0.817189597	-9.40E-38	-9.69E-36	-24.525	5.817189597	1.88E-37	2.41E-35	-24.525	10	5.71E-11	1.25E-06

470	0.097130414	0.008033194	1.513752885	-49.0018082	4.904215309	-7.85275703	-1.63525097	1.84043741	10	1.34E-11	6.73E-07
471	0.902902877	0.010358748	3.335473951	-48.9092932	9.123052779	-5.92628489	-0.72220625	-31.6201368	10	3.94E-12	1.53E-07
472	0.90286662	0.008719546	2.392174743	-48.9665653	7.90286662	-7.16780468	-1.02521775	-19.6557577	10	5.10E-11	2.47E-07
473	0.097130414	-0.00803319	-1.51375288	-49.0018082	4.904215309	7.852757026	1.635250966	1.84043741	10	4.77E-12	6.73E-07
474	0.90286524	-0.00795818	-1.62131904	-48.9978938	6.10006729	7.778909584	1.498280747	-1.98270413	10	6.20E-12	3.31E-07
475	0.904215309	7.852757026	1.635250966	1.84043741	6.097130414	-0.00803319	-1.51375288	-49.0018082	10	8.43E-12	6.73E-07
476	0.0971346	-0.00813545	-1.85322498	-48.990253	5.908433611	7.754469844	1.335777986	-8.00190807	10	5.55E-11	4.64E-07
477	0.09713338	-0.00815515	-1.27867119	-49.008289	4.09713338	7.663871965	1.918006778	9.747433494	10	3.02E-11	8.78E-07
478	0.09713338	-0.00799004	-1.56604598	-48.9999489	5.09713338	7.822239843	1.566045976	-0.05005107	10	4.49E-12	6.23E-07
479	0.90286662	-0.00871955	-1.02521775	-49.0142423	3.90286662	7.167804683	2.392174743	19.53656529	10	4.58E-12	1.70E-06
480	0.90286662	-7.16780468	-2.39217474	19.53656529	7.90286662	0.008719546	1.025217747	-49.0142423	10	1.86E-11	1.70E-06
481	0.90286662	-7.66387196	-1.91800678	9.747433494	6.90286662	0.008155147	1.278671185	-49.008289	10	2.91E-11	9.69E-07
482	0.097140131	-0.00862133	-2.30337433	-48.9713735	6.913808711	7.323782541	1.075657968	-17.8582368	10	7.90E-12	3.38E-07
483	0.902775766	-0.01236505	-0.56224857	-49.0216435	2.064452641	4.956969482	4.27772528	37.43820689	10	4.63E-11	2.14E-06
484	0.09713338	-0.00871955	-2.39217474	-48.9665653	7.09713338	7.167804683	1.025217747	-19.6557577	10	3.82E-12	3.20E-07
485	0.90286662	0.008155147	1.278671185	-49.008289	4.90286662	-7.66387196	-1.91800678	9.747433494	10	1.93E-11	9.69E-07
486	0.097152068	0.009749885	2.989497516	-48.9348493	7.922823421	-6.4904002	-0.83061884	-27.7518301	10	1.11E-11	2.57E-07
487	0.104566435	-7.55340396	-1.2192782	-11.8289984	3.902869884	0.00818945	1.990781808	-48.9841098	10	6.78E-12	2.49E-07
488	0.097115316	0.008955946	0.981815891	-49.0152468	2.894421048	-7.06276375	-2.52804676	21.51894573	10	1.50E-11	1.94E-06
489	0.104566435	7.553403955	1.2192782	-11.8289984	3.902869884	-0.00818945	-1.99078181	-48.9841098	10	5.89E-13	2.49E-07
490	0.097115316	-0.00895595	-0.98181589	-49.0152468	2.894421048	7.062763747	2.52804676	21.51894573	10	1.36E-11	1.94E-06
491	0.09713338	6.254190606	0.783022988	-29.4612999	2.09713338	-0.0099933	-3.13209195	-48.9248003	10	1.47E-11	2.45E-07
492	0.09713338	7.663871965	1.918006778	9.747433494	6.09713338	-0.00815515	-1.27867119	-49.008289	10	2.02E-11	8.78E-07
493	0.90286662	7.822239843	1.566045976	-0.05005107	5.90286662	-0.00799004	-1.56604598	-48.9999489	10	4.72E-11	5.70E-07
494	0.110900823	6.973031647	0.968626816	-21.6954311	2.902878038	-0.00885251	-2.50069525	-48.960344	10	1.15E-12	1.93E-07
495	0.09713338	0.007990039	1.566045976	-48.9999489	5.09713338	-7.82223984	-1.56604598	-0.05005107	10	4.88E-12	6.23E-07
496	0.90286662	-0.0099933	-0.78302299	-49.0187001	2.90286662	6.254190606	3.132091953	29.30480027	10	1.56E-11	3.71E-06
497	0.09713338	-0.00815515	-1.91800678	-48.9874335	6.09713338	7.663871965	1.278671185	-9.851711	10	2.11E-12	4.35E-07
498	0.0971346	0.008135445	1.853224976	-48.990253	5.908433611	-7.75446984	-1.33577799	-8.00190807	10	1.30E-11	4.64E-07
499	0.902878038	0.008852514	2.500695251	-48.960344	8.110900823	-6.97303165	-0.96862682	-21.6954311	10	4.27E-13	1.93E-07
500	0.09713338	0.008155147	1.278671185	-49.008289	4.09713338	-7.66387196	-1.91800678	9.747433494	10	2.04E-11	8.78E-07