

Liste tellurischer Linien aus UVES-Daten

Diese tellurischen Absorptionslinien sind in UVES-Spektren bei sehr hohem S/N (ca. 1000) und hoher Aufloesung (50000) gemessen. Sie ist noch nicht publiziert; bitte mit "Hanuschik 2006 (unpublished)" zitieren.

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	START	END	CENTER	INT_START	INT_END	INT_PEAK	INT_FIT	FWHM
1	5885.83	5886.154	5885.989	0.98266	0.97932	0.9552	-0.03145	0.172
2	5887.126	5887.352	5887.232	0.97597	0.9707	0.94883	-0.021189	0.089
3	5891.542	5891.777	5891.648	0.9624	0.97042	0.94038	-0.028486	0.128
4	5892.278	5892.529	5892.412	0.96819	0.96243	0.95368	-0.014371	0.103
5	5898.056	5898.3	5898.168	0.97308	0.96623	0.94856	-0.02394	0.149
6	5899.765	5900.329	5899.988	0.97092	0.97551	0.94152	-0.031895	0.266
7	5901.287	5901.625	5901.459	0.97976	0.98616	0.9445	-0.033364	0.158
8	5908.844	5909.184	5909	0.99557	0.98955	0.97262	-0.016537	0.159
9	5910.192	5910.378	5910.242	0.9806	0.99958	0.97457	-0.065496	0.402
10	5918.197	5918.676	5918.435	0.99267	0.99559	0.95637	-0.028108	0.166
11	5918.789	5919.239	5919.049	0.98049	0.99068	0.95473	-0.034182	0.165
12	5919.437	5919.859	5919.65	0.99067	0.99542	0.94919	-0.045147	0.14
13	5922.341	5922.623	5922.537	0.99176	0.98722	0.97023	-0.014662	0.042
14	5923.455	5924.023	5923.753	0.99904	0.99665	0.96504	-0.027478	0.346
15	5924.075	5924.505	5924.276	0.9826	0.98795	0.96668	-0.021833	0.114
16	5931.981	5932.184	5932.083	0.98862	0.98851	0.96359	-0.036662	0.159
17	5940.247	5940.51	5940.414	0.99354	0.97836	0.97068	-0.064546	0.541
18	5940.882	5941.299	5941.089	0.98811	0.98028	0.94698	-0.030472	0.148
19	5941.474	5941.77	5941.622	1.0036	0.99285	0.95608	-0.084314	0.339
20	5942.318	5942.694	5942.605	0.99132	0.98478	0.95555	-0.018741	0.035
21	5945.915	5946.126	5946.01	0.99083	0.9912	0.96905	-0.017758	0.043
22	6203.703	6203.796	6203.762	0.99396	0.9895	0.98145	-0.012373	0.049
23	6276.337	6276.746	6276.626	0.99618	0.91624	0.8475	-0.15494	0.182
24	6276.704	6276.957	6276.828	0.91503	0.94088	0.86465	-0.075707	0.135
25	6277.154	6277.521	6277.398	0.99213	0.87074	0.80128	-0.33167	0.395
26	6277.521	6277.859	6277.606	0.87074	0.95872	0.86727	-0.10312	0.263

27	6277.887	6278.281	6278.101	0.97418	0.98134	0.71968	-0.27803	0.16
28	6278.281	6278.507	6278.379	0.98134	0.99674	0.95582	-0.079463	0.236
29	6278.76	6278.972	6278.887	0.97311	0.92143	0.83537	-0.17758	0.165
30	6278.958	6279.296	6279.105	0.8888	0.989	0.81746	-0.15512	0.167
31	6279.758	6280.056	6279.901	0.97988	0.9827	0.82728	-0.17205	0.149
32	6280.243	6280.588	6280.397	0.97497	0.99265	0.81371	-0.18473	0.146
33	6280.87	6281.433	6281.183	0.9927	0.98516	0.84749	-0.14552	0.148
34	6281.809	6282.137	6281.961	0.97682	0.97806	0.83872	-0.15611	0.152
35	6282.607	6282.873	6282.728	0.95069	0.95632	0.85849	-0.1281	0.168
36	6283.68	6283.905	6283.798	0.95988	0.95665	0.87015	-0.14848	0.205
37	6284.431	6284.675	6284.541	0.96626	0.97235	0.92899	-0.066778	0.215
38	6287.587	6287.944	6287.757	0.99456	0.9919	0.90678	-0.089951	0.149
39	6289.261	6289.567	6289.403	1.0014	0.98743	0.89487	-0.1094	0.145
40	6290.05	6290.378	6290.226	0.99797	0.98834	0.8603	-0.14712	0.157
41	6292.018	6292.369	6292.167	0.99579	0.9937	0.86365	-0.14436	0.14
42	6292.531	6292.744	6292.644	0.99468	0.99914	0.98455	-0.01138	0.084
43	6292.757	6293.095	6292.963	0.99808	0.98283	0.82821	-0.17473	0.146
44	6294.623	6294.873	6294.752	0.99328	1.0118	0.98582	-0.011946	0.09
45	6294.898	6295.424	6295.181	0.99982	0.99062	0.84715	-0.1567	0.142
46	6295.816	6296.196	6295.965	0.99054	1.0009	0.82595	-0.18199	0.145
47	6298.281	6298.62	6298.46	0.99075	0.98935	0.84849	-0.15631	0.146
48	6299.028	6299.422	6299.232	0.99816	0.99921	0.83367	-0.17456	0.152
49	6301.777	6302.153	6302.002	0.98813	0.99529	0.8588	-0.14102	0.142
50	6302.529	6302.999	6302.768	0.99074	0.99349	0.8471	-0.14844	0.143
51	6305.624	6306.072	6305.812	0.99791	0.99164	0.88379	-0.11475	0.144
52	6306.313	6306.83	6306.568	1.004	0.98973	0.87856	-0.12214	0.143
53	6309.671	6310.197	6309.891	0.99386	1.0031	0.91865	-0.085347	0.151
54	6310.422	6310.948	6310.643	1.0021	1.0035	0.91476	-0.090407	0.148
55	6313.896	6314.122	6314.071	0.99581	0.99115	0.98506	-0.0094036	0.143
56	6314.131	6314.394	6314.242	0.98915	0.99353	0.93275	-0.0614	0.137
57	6314.845	6315.126	6314.983	0.9841	1.0008	0.93369	-0.074366	0.161
58	6318.636	6319.02	6318.854	0.9936	1.0016	0.95973	-0.03837	0.135
59	6319.425	6319.787	6319.6	1.0064	0.99676	0.95837	-0.039619	0.133
60	6323.533	6323.972	6323.773	1.0145	1.0009	0.9679	-0.031808	0.208
61	6324.209	6324.623	6324.465	0.99432	1.0046	0.97668	-0.023215	0.178
62	6328.803	6328.991	6328.902	0.99544	0.99101	0.98527	-0.01034	0.101
63	6332.043	6332.2	6332.098	1.0009	0.99763	0.97719	-0.017802	0.038
64	6458.582	6459.032	6458.924	1.0011	0.98964	0.9809	-0.01268	0.031
65	6469.889	6470.027	6469.99	0.99348	0.99127	0.98057	-0.012212	0.043
66	6472.394	6472.644	6472.484	0.99361	1.0011	0.98128	-0.010511	0.03
67	6473.145	6473.295	6473.211	0.98986	1.0008	0.97663	-0.017641	0.045
68	6474.961	6475.312	6475.146	0.99291	0.99233	0.97088	-0.052173	0.423

69	6475.633	6475.971	6475.832	0.99717	0.9879	0.95883	-0.042144	0.174
70	6479.836	6480.353	6480.081	0.99631	0.98648	0.94794	-0.034495	0.18
71	6480.901	6481.089	6481.038	0.97625	0.97605	0.97382	-0.0046601	0.073
72	6483.092	6483.437	6483.244	0.9847	0.99286	0.95638	-0.031163	0.163
73	6483.627	6484.109	6483.861	0.99292	0.98643	0.96715	-0.028772	0.405
74	6486.588	6486.967	6486.779	1.0008	0.99862	0.97314	-0.021079	0.21
75	6488.957	6489.295	6488.994	0.99376	0.99384	0.98315	-0.013231	0.017
76	6490.667	6491.005	6490.8	0.9981	0.99045	0.95215	-0.038465	0.167
77	6492.764	6493.045	6492.92	0.99034	0.99135	0.95506	-0.032018	0.154
78	6493.045	6493.405	6493.25	0.99135	1.0007	0.9768	-0.013627	0.124
79	6495.69	6496.056	6495.874	0.97963	0.9972	0.94638	-0.041322	0.136
80	6497.475	6497.683	6497.568	0.98491	0.99651	0.98006	-0.054824	0.384
81	6508.535	6508.789	6508.597	0.98423	0.98934	0.97275	-0.015541	0.116
82	6514.608	6514.918	6514.733	0.98855	0.99549	0.95377	-0.045385	0.157
83	6516.347	6516.795	6516.575	0.98985	0.99222	0.93923	-0.048695	0.202
84	6516.95	6517.26	6517.109	0.98758	0.98893	0.9701	-0.016103	0.13
85	6519.239	6519.803	6519.479	0.99117	0.99738	0.96802	-0.027017	0.219
86	6523.781	6523.992	6523.872	0.98434	0.99362	0.9736	-0.046577	0.315
87	6532.244	6532.506	6532.351	0.98961	0.99838	0.96561	-0.027582	0.12
88	6533.896	6534.159	6534.038	0.99577	1.0023	0.97973	-0.028131	0.218
89	6536.562	6536.774	6536.597	0.99659	0.99219	0.98757	-0.0071561	0.018
90	6543.627	6544.161	6543.912	0.99277	0.99625	0.95368	-0.035705	0.155
91	6547.605	6547.905	6547.699	0.98454	0.99187	0.97252	-0.026557	0.357
92	6548.431	6548.938	6548.651	0.98739	0.98613	0.95793	-0.027907	0.195
93	6552.521	6552.795	6552.646	0.95833	0.95302	0.92667	-0.036558	0.194
94	6557.08	6557.277	6557.152	0.88263	0.87002	0.85456	-0.015336	0.033
95	6571.887	6572.231	6572.079	0.97411	0.9706	0.94765	-0.034506	0.273
96	6574.694	6575.09	6574.88	0.96335	0.9617	0.91954	-0.038915	0.238
1	6866.929	6867.337	6867.226	0.98804	0.59188	0.35781	-0.64565	0.212
2	6867.323	6867.689	6867.481	0.59188	0.90865	0.43187	-1.1068	0.496
3	6867.689	6867.943	6867.871	0.90865	0.79935	0.7839	-0.22517	0.287
4	6867.958	6868.352	6868.163	0.80366	0.62768	0.1815	-0.96036	0.352
5	6868.352	6868.662	6868.501	0.62768	0.80774	0.38027	-0.40884	0.199
6	6868.789	6869.014	6868.933	0.64217	0.32959	0.25839	-1.4301	0.445
7	6868.972	6869.127	6869.027	0.33172	0.47388	0.31309	-0.676	0.35
8	6869.437	6869.69	6869.617	0.93447	0.83703	0.82688	-0.20865	0.337
9	6869.648	6870.212	6869.924	0.83022	0.91204	0.052763	-0.83696	0.228
10	6870.478	6870.713	6870.676	0.95205	0.88968	0.88772	-0.13297	0.426
11	6870.697	6871.104	6870.939	0.90419	0.70223	0.26103	-0.64049	0.211
12	6871.104	6871.464	6871.265	0.70223	0.86177	0.20923	-0.68629	0.214
13	6871.684	6871.965	6871.874	0.96532	0.92487	0.91331	-0.02248	0.038
14	6871.965	6872.435	6872.232	0.92487	0.88548	0.23246	-0.6996	0.2

15	6872.482	6873.092	6872.828	0.89093	0.92593	0.19723	-0.70541	0.201
16	6873.468	6873.953	6873.781	0.94158	0.84046	0.2447	-0.69916	0.199
17	6874.333	6874.97	6874.639	0.93224	0.95107	0.21033	-0.72501	0.204
18	6875.211	6875.831	6875.579	0.95504	0.9181	0.26107	-0.68353	0.198
19	6876.33	6877.036	6876.7	0.96384	0.967	0.24953	-0.70179	0.202
20	6877.312	6877.862	6877.622	0.97647	0.95894	0.31412	-0.65522	0.189
21	6878.694	6879.333	6879.027	0.98087	0.9733	0.33753	-0.63528	0.187
22	6879.671	6880.122	6879.913	0.9732	0.97477	0.51385	-0.49037	0.173
23	6883.562	6883.953	6883.818	0.97047	0.8558	0.3761	-0.60013	0.18
24	6885.455	6886.009	6885.743	0.98568	0.92372	0.32537	-0.63718	0.186
25	6886.413	6887.042	6886.73	0.94183	0.9405	0.25761	-0.68872	0.199
26	6888.538	6889.283	6888.934	0.93944	0.95942	0.26043	-0.6865	0.199
27	6889.524	6890.291	6889.888	0.96758	0.98291	0.22027	-0.72462	0.208
28	6892.043	6892.669	6892.357	0.97706	0.95697	0.24089	-0.72046	0.208
29	6892.907	6893.621	6893.295	0.95746	0.95865	0.22749	-0.72954	0.219
30	6895.604	6896.45	6896.021	0.97983	0.96601	0.25664	-0.70529	0.201
31	6896.506	6897.295	6896.947	0.97519	0.9774	0.2375	-0.71051	0.21
32	6899.492	6900.322	6899.936	0.99112	0.9913	0.29212	-0.67509	0.206
33	6900.431	6901.355	6900.852	0.98239	1.0068	0.27953	-0.69668	0.206
34	6903.678	6904.384	6904.101	0.99795	0.95432	0.34546	-0.64213	0.192
35	6904.608	6905.366	6905.007	0.99649	0.98639	0.32413	-0.65232	0.196
36	6908.112	6908.77	6908.515	1.0001	0.97623	0.41419	-0.58921	0.184
37	6909.089	6909.708	6909.409	1.0011	0.99723	0.40292	-0.59884	0.192
38	6912.877	6913.441	6913.182	1.0062	0.99598	0.5	-0.50881	0.173
39	6913.652	6914.38	6914.069	0.98888	0.99424	0.4835	-0.5231	0.175
40	6917.506	6918.358	6918.105	1.0089	0.97294	0.58066	-0.44374	0.165
41	6918.668	6919.392	6918.988	1.0126	1.0039	0.57261	-0.44753	0.164
42	6923.013	6923.577	6923.288	0.97873	1.0042	0.6388	-0.35775	0.175
43	6923.858	6924.479	6924.157	0.99156	0.9955	0.67466	-0.33871	0.163
44	6928.415	6928.964	6928.716	0.98554	1.0118	0.7773	-0.23637	0.152
45	6928.964	6930.185	6929.583	1.0118	0.99642	0.76814	-0.23047	0.145
46	6933.664	6933.934	6933.801	0.96784	0.99186	0.94465	-0.045104	0.128
47	6934.228	6934.65	6934.404	0.98336	0.99761	0.86313	-0.13451	0.163
48	6935.12	6935.448	6935.265	0.98216	0.9973	0.86004	-0.14859	0.165
49	6935.59	6935.872	6935.756	1.0082	0.99747	0.97589	-0.092154	0.503
50	6937.548	6937.872	6937.674	0.99437	0.99385	0.90951	-0.086201	0.145
51	6939.38	6939.873	6939.625	1.0017	1.0212	0.93291	-0.06207	0.219
52	6939.929	6940.577	6940.249	0.99945	1.0047	0.90639	-0.13324	0.462
53	6941	6941.38	6941.207	0.98166	0.98948	0.89128	-0.10018	0.151
54	6941.952	6942.494	6942.148	0.98612	0.99736	0.91462	-0.060979	0.127
55	6943.53	6943.974	6943.797	0.99824	0.99163	0.90266	-0.096976	0.182
56	6946.439	6946.702	6946.623	0.99032	1.0209	0.95733	-0.034195	0.035

57	6947.195	6947.754	6947.509	1.0034	0.98617	0.87062	-0.1193	0.243
58	6948.816	6949.267	6949.03	0.99804	1.0023	0.94331	-0.06591	0.279
59	6950.488	6950.919	6950.72	0.99756	0.99836	0.96415	-0.044533	0.29
60	6953.323	6954.104	6953.692	1.0063	1.0172	0.95174	-0.15409	1.248
61	6956.218	6956.683	6956.417	0.99159	1.0029	0.86099	-0.14646	0.221
62	6959.282	6959.683	6959.422	0.9718	1.0058	0.92236	-0.078724	0.243
63	6961.022	6961.422	6961.229	1.0017	0.99313	0.89841	-0.10623	0.2
64	6986.393	6986.717	6986.565	1.0338	1.0285	0.93233	-0.27366	0.432
65	6988.746	6989.21	6988.96	1.021	1.0148	0.915	-0.089782	0.166
66	6993.94	6994.27	6994.057	1.0072	1.0106	0.97897	-0.050845	0.225
67	6998.572	6999.135	6998.955	1.0005	1.0063	0.92965	-0.055961	0.148
68	7004.569	7004.844	7004.72	1.0057	0.9808	0.93293	-0.077327	0.167
69	7011.069	7011.469	7011.294	1.0088	1.0014	0.94669	-0.040463	0.034
70	7016.085	7016.602	7016.432	1.011	0.98238	0.90873	-0.076398	0.206
71	7023.239	7023.718	7023.473	0.9966	0.99482	0.92172	-0.071804	0.192
72	7027.132	7027.773	7027.47	0.98394	0.97062	0.91615	-0.067653	0.15
73	7039.605	7039.958	7039.789	0.99369	0.98589	0.91025	-0.059025	0.137
74	7050.657	7051.051	7050.85	0.99977	1.0103	0.95865	-0.038803	0.214
75	7052.604	7052.921	7052.694	0.99449	0.99746	0.94308	-0.081391	0.014
76	7056.767	7057.126	7056.973	1.0294	1.0087	0.97399	-0.04253	0.281
77	7082.889	7083.194	7083.043	1.0002	1.0164	0.95647	-0.03414	0.085
78	7147.491	7147.754	7147.662	0.9961	0.9993	0.94591	-0.047702	0.038
79	7167.067	7167.48	7167.356	0.97808	0.98789	0.9179	-0.058095	0.147
80	7167.609	7168.255	7167.883	0.98837	0.99325	0.78563	-0.17956	0.177
81	7169.728	7170.27	7170.064	0.97753	0.97953	0.93289	-0.062524	0.428
82	7170.27	7170.89	7170.549	0.97953	0.95764	0.8812	-0.09322	0.163
83	7172.394	7173.098	7172.744	0.99713	0.98267	0.85057	-0.12947	0.305
84	7173.154	7173.633	7173.403	0.97615	0.9374	0.81277	-0.15901	0.194
85	7173.633	7173.915	7173.749	0.9374	1.011	0.8815	-0.36818	0.449
86	7173.915	7174.253	7174.134	1.011	0.95381	0.89958	-0.075044	0.238
87	7175.493	7176.535	7176.094	0.98442	1.0023	0.86701	-0.1023	0.319
88	7176.704	7177.155	7177.092	0.99743	0.89088	0.87469	-0.1136	0.218
89	7177.183	7177.578	7177.359	0.91294	0.84414	0.74686	-0.14836	0.131
90	7177.521	7177.803	7177.585	0.88989	0.97197	0.84414	-0.15937	0.223
91	7178.201	7178.689	7178.413	0.98802	0.98605	0.90014	-0.087571	0.171
92	7179.086	7179.452	7179.271	1.0038	1.0036	0.94158	-0.050497	0.183
93	7181.162	7181.711	7181.537	1.0005	0.84744	0.68467	-0.30551	0.239
94	7181.65	7181.894	7181.685	0.85066	0.98147	0.84448	-0.15506	0.261
95	7184.11	7184.732	7184.501	0.98372	0.9172	0.4719	-0.48245	0.217
96	7185.815	7186.182	7186.13	0.97964	0.81129	0.78071	-0.18504	0.188
97	7186.182	7186.548	7186.351	0.81129	0.94612	0.6923	-0.21876	0.174
98	7186.759	7187.168	7187.007	0.98883	0.93628	0.85386	-0.15328	0.285

99	7187.168	7187.59	7187.383	0.93628	0.94272	0.57948	-0.3926	0.178
100	7191.084	7191.704	7191.479	1.0022	0.92475	0.55008	-0.42498	0.206
101	7191.656	7192.018	7191.816	0.89937	0.9871	0.84993	-0.15309	0.31
102	7192.297	7192.56	7192.453	0.97579	0.96797	0.90986	-0.076574	0.16
103	7193.234	7193.678	7193.564	1.0141	0.80741	0.76547	-0.2474	0.28
104	7193.595	7193.99	7193.689	0.78961	0.98235	0.7561	-0.23638	0.325
105	7194.812	7195.321	7195.031	0.98078	0.9909	0.86497	-0.12048	0.193
106	7195.551	7195.896	7195.793	1.0034	0.97547	0.93162	-0.067685	0.232
107	7196.883	7197.589	7197.24	0.99214	0.98656	0.89034	-0.084746	0.209
108	7197.632	7198.008	7197.839	0.99259	0.97373	0.88574	-0.10314	0.181
109	7198.215	7198.609	7198.43	0.96631	0.9627	0.84789	-0.13663	0.158
110	7200.187	7200.713	7200.488	0.97619	0.977	0.72372	-0.26615	0.275
111	7200.713	7201.577	7201.182	0.977	0.97955	0.58004	-0.38387	0.192
112	7203.597	7203.999	7203.842	1.0036	0.96773	0.93205	-0.075909	0.306
113	7203.999	7204.527	7204.286	0.96773	0.97243	0.64021	-0.33965	0.195
114	7206.133	7206.894	7206.41	0.98647	0.98832	0.56579	-0.4157	0.205
115	7209.309	7209.778	7209.506	0.96463	1	0.82544	-0.15684	0.163
116	7216.241	7216.654	7216.507	1.0001	0.96432	0.85844	-0.13713	0.197
117	7223.126	7223.915	7223.606	0.97027	1.0008	0.79791	-0.17841	0.193
118	7227.211	7227.972	7227.476	0.99326	0.97688	0.84529	-0.14388	0.22
119	7231.894	7232.444	7232.222	1.0101	1.0094	0.877	-0.10926	0.198
120	7232.535	7233.176	7232.875	0.96843	1.017	0.65247	-0.33152	0.215
121	7234.157	7234.486	7234.389	0.9798	0.92431	0.88473	-0.11307	0.223
122	7234.486	7235.014	7234.713	0.92431	0.9859	0.56295	-0.41495	0.227
123	7235.83	7236.407	7236.11	1.0031	0.97077	0.80902	-0.18045	0.202
124	7239.676	7239.972	7239.833	1.0033	0.99942	0.91605	-0.070633	0.161
125	7240.324	7240.746	7240.655	1.0127	0.73214	0.70128	-0.33789	0.312
126	7240.69	7240.972	7240.73	0.7268	0.95659	0.71848	-0.42635	0.448
127	7243.283	7243.562	7243.497	1.0099	0.84338	0.83099	-0.27642	0.379
128	7243.546	7243.842	7243.686	0.85317	0.95416	0.62876	-0.37901	0.219
129	7245.387	7245.831	7245.661	1.022	0.99598	0.8256	-0.18275	0.196
130	7246.948	7247.54	7247.193	0.99258	1.0115	0.90761	-0.064141	0.269
131	7248.647	7249.21	7248.898	0.99307	1.002	0.93095	-0.060745	0.165
132	7249.943	7250.506	7250.191	0.97522	1.0045	0.89997	-0.075879	0.157
133	7251.915	7252.704	7252.362	0.98662	0.99208	0.693	-0.29728	0.192
134	7252.704	7253.061	7252.857	0.99208	0.97367	0.89337	-0.084377	0.187
135	7253.042	7253.437	7253.217	0.97312	0.98117	0.81948	-0.16873	0.19
136	7253.437	7253.944	7253.696	0.98117	0.98718	0.74992	-0.23682	0.171
137	7256.873	7257.232	7257.064	1.0024	0.98025	0.94072	-0.12866	0.453
138	7257.232	7257.612	7257.363	0.98025	1.0084	0.87126	-0.1148	0.172
139	7257.612	7258.225	7257.919	1.0084	1.0044	0.86873	-0.12453	0.241
140	7258.416	7258.901	7258.569	1.0121	1.0025	0.95531	-0.027279	0.141

141	7260.482	7260.882	7260.724	0.98669	0.97773	0.92952	-0.074411	0.187
142	7261.14	7261.774	7261.431	1.0108	0.97019	0.93808	-0.038507	0.233
143	7261.868	7262.244	7262.014	0.98917	1.0162	0.89721	-0.09184	0.126
144	7262.784	7263.206	7262.953	0.98733	1.001	0.91208	-0.078139	0.179
145	7264.286	7264.85	7264.543	0.97726	1.0015	0.82472	-0.16844	0.303
146	7264.85	7265.202	7265.032	1.0015	0.99274	0.96856	-0.025814	0.106
147	7265.202	7265.789	7265.573	0.99274	0.96565	0.61893	-0.37296	0.206
148	7269.469	7269.96	7269.73	0.99796	0.984	0.90714	-0.061523	0.198
149	7269.96	7270.347	7270.119	0.984	1.0014	0.93433	-0.05816	0.214
150	7272.394	7273.408	7272.948	0.99916	0.9946	0.62995	-0.35911	0.216
151	7274.958	7275.605	7275.388	1.0076	0.95719	0.77913	-0.20788	0.195
152	7275.662	7276.056	7275.782	0.99998	0.95945	0.94212	-0.050826	0.121
153	7276.056	7276.958	7276.842	0.95945	0.94951	0.89132	-0.036113	0.132
154	7276.958	7277.69	7277.366	0.94951	0.94817	0.65054	-0.28543	0.184
155	7277.804	7278.476	7278.074	0.94812	0.94384	0.85947	-0.073348	0.18
156	7278.445	7279.208	7278.773	0.93193	0.95873	0.88312	-0.048208	0.263
157	7281.986	7282.566	7282.244	0.97989	0.98705	0.90114	-0.066186	0.162
158	7283.006	7283.359	7283.171	0.98333	1.0061	0.946	-0.14804	0.54
159	7287.562	7287.111	7287.367	0.98947	0.98512	0.78421	-0.20657	0.184
160	7287.858	7288.281	7288.091	0.99587	0.98654	0.86614	-0.11262	0.169
161	7290.112	7290.648	7290.396	0.98599	0.99481	0.6532	-0.34274	0.218
162	7290.831	7291.268	7291.077	0.99939	1.0043	0.91194	-0.063455	0.178
163	7291.985	7292.346	7292.137	0.99298	1.0005	0.90598	-0.08892	0.192
164	7292.494	7292.823	7292.67	1.0116	0.97544	0.92088	-0.096827	0.298
165	7293.217	7293.513	7293.361	0.99073	0.97126	0.94337	-0.046037	0.148
166	7294.22	7294.5	7294.382	0.99725	0.98864	0.95031	-0.029753	0.084
167	7294.697	7295.305	7294.998	1.0113	0.98698	0.90069	-0.084947	0.207
168	7295.453	7295.798	7295.606	1.0063	1.0005	0.96635	-0.044895	0.212
169	7296.077	7296.521	7296.294	1.0129	1.0022	0.94886	-0.047001	0.023
170	7297.971	7298.309	7298.076	0.98982	1.0043	0.93884	-0.049554	0.036
171	7299.548	7300.074	7299.892	0.95625	1.0057	0.89693	-0.069815	0.109
172	7301.953	7302.272	7302.088	0.98912	0.996	0.93717	-0.094733	0.285
173	7302.291	7302.854	7302.563	0.98308	1.0019	0.95244	-0.022902	0.082
174	7302.93	7303.418	7303.189	0.9834	0.98605	0.78743	-0.18885	0.208
175	7303.893	7304.485	7304.16	0.97966	0.99214	0.74666	-0.22326	0.202
176	7308.5	7308.965	7308.735	0.99373	1.0182	0.92479	-0.084762	0.219
177	7309.218	7309.81	7309.501	0.98804	1.0329	0.84088	-0.16899	0.214
178	7312.314	7312.807	7312.588	1.0188	1.0089	0.9118	-0.090428	0.159
179	7315.249	7315.742	7315.49	1.0057	1.0263	0.93687	-0.074746	0.211
180	7317.016	7317.635	7317.267	1.0195	1.0049	0.90728	-0.10695	0.185
181	7317.713	7318.384	7318.355	1.0322	0.97539	0.95778	-0.034222	0.076
182	7318.384	7318.901	7318.671	0.97539	0.99714	0.86869	-0.12055	0.165

183	7320.631	7321.2	7320.84	1.0308	1.0441	0.94348	-0.056248	0.233
184	7323.689	7324.366	7323.938	0.99399	1.0242	0.96536	-0.05914	0.216
185	7326.957	7327.154	7327.098	1.0188	1.0067	0.96627	-0.062324	0.117
186	7327.014	7327.465	7327.351	1.0018	1.0297	0.94189	-0.05341	0.075
187	7330.49	7331.009	7330.824	1.0495	1.0083	0.9346	-0.079765	0.167
188	7333.497	7333.94	7333.667	1.0188	1.0181	0.89024	-0.10456	0.149
189	7334.483	7334.779	7334.634	1.0055	1.027	0.98601	-0.031342	0.165
190	7335.107	7335.535	7335.326	0.99984	1.0264	0.94309	-0.072496	0.208
191	7341.934	7342.253	7342.138	1.0085	1.0147	0.96472	-0.033502	0.055
192	7343.788	7344.125	7343.94	1.0221	0.98895	0.9595	-0.059904	0.174
193	7349.007	7349.62	7349.454	0.99112	1.0173	0.93386	-0.034344	0.104
194	7358.772	7359.082	7358.832	0.98775	1.0118	0.95652	-0.047565	0.13
195	7360.244	7360.683	7360.335	0.9865	1.0016	0.94689	-0.038745	0.065
196	7363.492	7363.943	7363.752	1.0101	1.0212	0.95147	-0.077842	0.346
197	7365.464	7365.943	7365.715	1.0255	1.0089	0.97029	-0.10264	0.539
198	7368.292	7368.781	7368.446	0.99444	0.99799	0.93838	-0.041586	0.121
199	7368.964	7369.391	7369.156	1.0045	1.0463	0.95552	-0.15277	0.425
200	7593.555	7593.83	7593.708	0.77901	0.57375	0.396	-1.3577	0.46
201	7593.83	7594.147	7593.945	0.57375	0.84448	0.38075	-0.69364	0.309
202	7594.168	7594.717	7594.482	0.83884	0.83301	0.25373	-0.5816	0.206
203	7594.886	7595.013	7594.984	0.5484	0.34524	0.32948	-0.90607	0.342
204	7595.013	7595.394	7595.204	0.34524	0.52953	0.097196	-0.40983	0.216
205	7595.499	7595.985	7595.739	0.66421	0.62189	0.25619	-0.4387	0.198
206	7595.943	7596.387	7596.242	0.64254	0.17013	0.052497	-0.9217	0.474
207	7596.323	7596.831	7596.419	0.17058	0.77369	0.12054	-0.68881	0.35
208	7597.845	7596.915	7597.409	0.74498	0.72353	0.0070771	-0.77301	0.428
209	7598.099	7597.803	7597.917	0.68682	0.74377	0.65904	-0.037137	0.041
210	7598.225	7599.24	7598.743	0.70845	0.60602	0.0029158	-0.98146	0.727
211	7599.355	7599.614	7599.479	0.67053	0.65276	0.62263	-0.039574	0.163
212	7599.614	7600.201	7600.063	0.65276	0.075058	0.0074699	-0.79972	0.542
213	7600.224	7600.858	7600.415	0.084265	0.57256	0.0040477	-1.4947	1.041
214	7600.882	7601.234	7601.178	0.60993	0.56445	0.54477	-0.072287	0.253
215	7601.234	7601.915	7601.678	0.56445	0.22544	0.0099063	-0.79572	0.629
216	7601.868	7602.689	7602.289	0.1701	0.46406	0.0013869	-0.34527	0.429
217	7603.042	7603.84	7603.517	0.48659	0.34409	0.0054471	-0.61933	0.59
218	7603.84	7604.779	7604.396	0.34409	0.39551	0.0053339	-0.40546	0.482
219	7605.202	7605.953	7605.591	0.38036	0.4055	0.0059161	-0.66448	0.633
220	7606.034	7606.292	7606.219	0.46128	0.3983	0.35085	-0.12112	0.178
221	7606.292	7607.145	7606.722	0.3983	0.43225	-0.0031615	-0.72644	0.718
222	7607.145	7607.48	7607.355	0.43225	0.44153	0.39535	-0.056831	0.13
223	7607.48	7608.281	7607.887	0.44153	0.45946	0.0022849	-0.86809	0.737
224	7608.281	7608.643	7608.528	0.45946	0.54601	0.43783	-0.083879	0.115

225	7608.643	7609.624	7609.27	0.54601	0.34887	-0.00241	-0.65248	0.625
226	7609.882	7610.812	7610.408	0.4714	0.5404	0.0031634	-0.57145	0.488
227	7611.407	7612.478	7612.035	0.67822	0.52792	0.0098897	-0.74509	0.605
228	7612.562	7613.718	7613.149	0.55115	0.73083	0.0049777	-0.67841	0.448
229	7613.831	7614.253	7614	0.80761	0.86007	0.76267	-0.074068	0.151
230	7614.253	7615.634	7615.028	0.86007	0.76902	0.011642	-0.81395	0.478
231	7615.634	7616.789	7616.111	0.76902	0.92231	0.03208	-0.81819	0.373
232	7619.513	7619.818	7619.69	0.96345	0.94209	0.86252	-0.11936	0.197
233	7619.818	7620.246	7620.087	0.94209	0.88901	0.84597	-0.097493	0.319
234	7620.246	7621.559	7620.978	0.88901	0.82025	0.010852	-0.86811	0.504
235	7621.559	7622.078	7621.769	0.82025	0.89598	0.77453	-0.11126	0.199
236	7622.261	7623.909	7623.274	0.89347	0.68478	0.004634	-0.84258	0.609
237	7623.922	7625.038	7624.471	0.67883	0.75454	0.0010057	-0.85235	0.624
238	7625.178	7625.437	7625.318	0.78422	0.78514	0.72421	-0.17983	0.323
239	7626.619	7626.323	7626.593	0.79526	0.56486	0.56035	-0.4627	0.519
240	7626.646	7627.421	7627.039	0.55653	0.49182	0.0022818	-1.0634	0.748
241	7627.773	7628.774	7628.19	0.51355	0.68933	0.0033546	-0.87162	0.7
242	7628.929	7629.295	7629.062	0.78057	0.82162	0.67505	-0.15461	0.204
243	7630.098	7630.324	7630.239	0.80074	0.70512	0.63988	-0.32332	0.265
244	7630.394	7631.493	7631.001	0.7018	0.54129	0.00050216	-0.80136	0.647
245	7631.689	7632.609	7632.127	0.5051	0.61902	0.00017606	-1.0141	0.819
246	7632.889	7633.168	7633.009	0.77363	0.79227	0.67391	-0.25611	0.294
247	7633.858	7634.401	7634.139	0.86612	0.82659	0.6884	-0.16113	0.212
248	7634.631	7635.601	7635.171	0.68495	0.51505	0.0033107	-0.84913	0.656
249	7635.601	7636.833	7636.282	0.51505	0.6894	-0.0035496	-0.66371	0.537
250	7636.998	7637.375	7637.143	0.75589	0.8393	0.6856	-0.17587	0.257
251	7638.102	7638.44	7638.289	0.90394	0.89891	0.73397	-0.17928	0.182
252	7638.797	7639.98	7639.556	0.82929	0.57417	-0.0034953	-0.86491	0.614
253	7639.98	7641.183	7640.658	0.57417	0.7108	0.0014109	-0.69223	0.518
254	7641.276	7641.746	7641.434	0.75795	0.83205	0.72036	-0.13498	0.391
255	7642.479	7642.798	7642.662	0.94339	0.89187	0.79646	-0.42612	0.471
256	7643.492	7644.633	7644.171	0.83729	0.65608	0.0076895	-0.81257	0.554
257	7644.633	7645.753	7645.269	0.65608	0.7534	-0.00065087	-0.72006	0.478
258	7645.927	7646.232	7646.062	0.83061	0.87306	0.78134	-0.35855	0.566
259	7647	7647.359	7647.169	0.92115	0.93876	0.83133	-0.096671	0.155
260	7648.648	7649.43	7649.011	0.68091	0.70042	0.0084689	-0.78233	0.415
261	7649.637	7650.482	7650.103	0.68887	0.70242	0.010111	-0.76656	0.412
262	7651.774	7652.056	7651.945	0.9418	0.95744	0.87329	-0.070758	0.145
263	7653.723	7654.591	7654.07	0.78125	0.84383	0.016978	-0.7817	0.357
264	7654.591	7655.625	7655.152	0.84383	0.86929	0.025673	-0.82277	0.367
265	7658.953	7659.779	7659.352	0.86202	0.87368	0.060361	-0.79631	0.306
266	7659.856	7660.838	7660.429	0.85738	0.88535	0.046407	-0.79852	0.309

267	7664.45	7665.239	7664.855	0.94075	0.89197	0.12996	-0.76039	0.257
268	7665.464	7666.225	7665.925	0.92221	0.87934	0.10442	-0.78391	0.262
269	7670.093	7671.07	7670.586	0.94663	0.96817	0.24423	-0.69112	0.228
270	7671.07	7672.383	7671.649	0.96817	0.93999	0.23858	-0.70758	0.238
271	7676.224	7676.872	7676.543	0.97656	0.94888	0.39626	-0.57076	0.202
272	7677.168	7677.999	7677.596	0.98528	0.9625	0.37289	-0.57781	0.2
273	7682.412	7683.103	7682.733	0.96442	0.97877	0.53933	-0.44045	0.185
274	7683.365	7684.023	7683.772	1.0023	0.97963	0.54281	-0.45489	0.194
275	7688.891	7689.323	7689.156	1.0099	0.97687	0.68203	-0.33525	0.176
276	7689.98	7690.431	7690.192	0.99129	0.99665	0.70569	-0.30891	0.17
277	7695.521	7695.901	7695.818	0.97881	0.85874	0.80183	-0.18299	0.168
278	7696.619	7697.211	7696.856	1.0079	0.99104	0.77403	-0.18861	0.185
279	7702.479	7703.065	7702.688	1.0052	1.0058	0.92315	-0.098627	0.19
280	7703.464	7703.934	7703.754	0.98353	1.0145	0.89872	-0.093325	0.13
281	7709.676	7710.089	7709.871	1.0092	1.0096	0.95719	-0.045294	0.182
282	7725.531	7725.812	7725.716	0.99867	0.98563	0.9604	-0.060707	0.269
283	7893.302	7893.788	7893.534	1.0017	1.0144	0.95174	-0.052359	0.245
284	7895.774	7896.239	7896.021	1.011	1.0345	0.93497	-0.07348	0.162
285	7901.422	7902.056	7901.795	1.0326	1.0139	0.94329	-0.10762	0.408
286	7910.58	7910.916	7910.694	0.99627	1.0175	0.94389	-0.066686	0.101
287	7924.474	7924.896	7924.629	1.0162	0.98476	0.94977	-0.049991	0.174
288	7949.68	7950.3	7950.012	1.0234	1.019	0.95835	-0.055773	0.325
289	7958.384	7958.798	7958.485	0.97964	1.0211	0.92221	-0.076738	0.245
290	7962.619	7963.408	7962.964	0.99676	0.9747	0.92684	-0.054427	0.235
291	7990.469	7991.107	7990.778	1.082	1.0441	0.95533	-0.26387	0.788
292	8007.042	8008.023	8007.507	0.97627	0.98629	0.92845	-0.046688	0.494
293	8028.394	8028.873	8028.562	1.028	1.0142	0.94542	-0.049814	0.206
294	8035.667	8035.995	8035.925	0.96179	0.9754	0.93321	-0.038029	0.103
295	8045.182	8046.345	8045.451	0.99927	1.0191	0.92026	-0.043011	0.29
296	8051.868	8052.408	8052.09	0.97354	0.96453	0.9222	-0.06545	0.025
297	8056.602	8057.145	8056.909	0.98213	0.95194	0.93098	-0.050598	0.087
298	8129.76	8130.141	8130.008	0.96157	0.95539	0.89849	-0.057228	0.128
299	8130.141	8130.577	8130.45	0.95539	0.96521	0.90155	-0.054816	0.163
300	8133.382	8133.957	8133.747	0.98968	0.98657	0.78846	-0.18266	0.205
301	8134.746	8135.485	8135.041	0.96005	0.94099	0.76907	-0.18878	0.204
302	8140.244	8141.089	8140.674	1.004	0.96677	0.80156	-0.1734	0.257
303	8141.558	8142.141	8141.915	0.98652	0.92804	0.75333	-0.21386	0.185
304	8143.386	8143.978	8143.738	1.0469	1.0072	0.86556	-0.14027	0.252
305	8145.901	8146.408	8146.192	1.0292	1.0011	0.88459	-0.13888	0.272
306	8146.662	8147.486	8147.162	1.0037	1.003	0.82593	-0.13417	0.224
307	8148.099	8148.69	8148.366	0.91064	0.95664	0.76042	-0.16091	0.18
308	8149.451	8149.958	8149.69	0.96128	0.9037	0.78937	-0.11605	0.203

309	8152.126	8152.807	8152.491	0.99712	1.0089	0.77993	-0.1943	0.266
310	8153.324	8153.864	8153.69	0.95026	0.96243	0.80231	-0.13823	0.171
311	8154.146	8155.061	8154.632	0.981	0.97777	0.65602	-0.3055	0.244
312	8157.532	8158.281	8157.987	1.0472	0.97548	0.66748	-0.34466	0.239
313	8160.957	8161.689	8161.419	0.96458	1.0107	0.56629	-0.41397	0.207
314	8161.689	8162.112	8161.967	1.0107	0.89743	0.71439	-0.23953	0.23
315	8162.112	8162.647	8162.324	0.89743	0.93509	0.59994	-0.33282	0.229
316	8164	8164.845	8164.508	0.96622	0.98216	0.44267	-0.47366	0.236
317	8163.988	8164.782	8164.508	0.96622	0.91232	0.44267	-0.46854	0.232
318	8168.506	8169.147	8168.793	0.94334	0.94488	0.71778	-0.20474	0.207
319	8169.147	8169.605	8169.368	0.94488	0.94393	0.77987	-0.16611	0.207
320	8169.605	8170.307	8169.965	0.94393	0.91931	0.49275	-0.44843	0.214
321	8171.864	8172.474	8172.217	0.99313	0.98522	0.89133	-0.1029	0.286
322	8172.901	8173.451	8173.108	1.0134	1.0112	0.89056	-0.069021	0.026
323	8175.343	8175.578	8175.464	0.99941	1.0042	0.91706	-0.075426	0.076
324	8176.632	8177.238	8176.961	0.96938	0.94407	0.3973	-0.5575	0.245
325	8177.633	8178.281	8177.907	0.91548	0.9716	0.72065	-0.21919	0.246
326	8178.239	8178.591	8178.454	0.97369	0.95489	0.79911	-0.16752	0.196
327	8178.675	8179.281	8179.021	0.96366	0.92826	0.71416	-0.23284	0.217
328	8181.294	8182.248	8181.821	0.99284	0.97415	0.6745	-0.2847	0.259
329	8185.913	8186.686	8186.359	0.98233	0.97509	0.72274	-0.23882	0.214
330	8188.722	8189.812	8189.25	0.99456	0.97572	0.44474	-0.50217	0.255
331	8192.704	8193.437	8193.085	0.95239	0.93241	0.52134	-0.39882	0.227
332	8197.338	8197.993	8197.674	0.95458	0.96542	0.4958	-0.44752	0.209
333	8199.661	8200.178	8199.935	0.99482	0.97606	0.87049	-0.10078	0.208
334	8200.318	8200.858	8200.656	1.0256	0.98968	0.81046	-0.21256	0.218
335	8209.366	8209.728	8209.495	0.96907	1.0034	0.88604	-0.08215	0.233
336	8211.802	8212.394	8212.103	0.96423	0.9648	0.82128	-0.13329	0.162
337	8217.285	8218.567	8218.083	1.0186	0.99936	0.73253	-0.23129	0.253
338	8221.223	8221.864	8221.522	0.9974	0.99983	0.82372	-0.14441	0.268
339	8223.734	8224.181	8223.966	0.97563	0.98506	0.83034	-0.19738	0.282
340	8225.39	8225.883	8225.683	0.98279	0.99519	0.87689	-0.10515	0.261
341	8226.675	8227.323	8226.942	0.92065	0.94553	0.44782	-0.46439	0.207
342	8227.745	8228.126	8228.023	0.96182	0.6572	0.62297	-0.49779	0.427
343	8228.027	8228.534	8228.261	0.71172	0.87863	0.40882	-0.50063	0.307
344	8228.521	8228.985	8228.713	0.87916	0.95756	0.70446	-0.22589	0.266
345	8229.464	8229.985	8229.719	0.96417	1.0055	0.73692	-0.24872	0.23
346	8230.831	8231.408	8231.268	1.0083	0.77385	0.54656	-0.41089	0.247
347	8231.437	8231.888	8231.657	0.85262	0.95773	0.78016	-0.13581	0.23
348	8233.595	8234.072	8233.883	0.96596	0.95554	0.67545	-0.26941	0.202
349	8234.22	8234.746	8234.587	0.96623	0.98843	0.90582	-0.049754	0.193
350	8236.948	8237.475	8237.283	0.96291	1.0001	0.82628	-0.10353	0.241

351	8239.661	8240.131	8239.887	0.999	1.0016	0.88448	-0.11183	0.261
352	8242.948	8243.625	8243.479	0.9921	0.85026	0.65242	-0.2935	0.233
353	8247.866	8248.69	8248.289	0.96449	0.97152	0.91489	-0.043866	0.2
354	8252.385	8253.065	8252.689	0.92981	0.95169	0.84382	-0.11275	0.282
355	8256.215	8256.86	8256.501	1.0086	0.95501	0.58355	-0.38338	0.213
356	8259.34	8260.089	8259.652	0.9877	0.98234	0.77801	-0.18465	0.252
357	8263.098	8263.746	8263.398	0.98586	0.97492	0.83173	-0.1316	0.249
358	8271.437	8272.475	8272.022	0.94999	0.99427	0.73799	-0.20163	0.255
359	8274.016	8274.592	8274.34	0.96296	0.91512	0.5802	-0.38214	0.232
360	8275.049	8275.366	8275.17	1.0039	0.94751	0.92901	-0.042135	0.1
361	8276.267	8276.886	8276.628	1.0419	0.98697	0.81636	-0.22468	0.426
362	8279.098	8280.099	8279.587	0.9933	0.95826	0.6868	-0.2612	0.278
363	8281.442	8282.461	8282.004	0.93685	0.99004	0.5649	-0.40772	0.228
364	8284.927	8285.403	8285.068	0.95741	1.0104	0.92272	-0.092335	0.404
365	8286.094	8286.373	8286.209	0.97306	0.99083	0.92334	-0.062901	0.188
366	8286.34	8286.883	8286.681	0.98042	0.98807	0.9234	-0.050886	0.04
367	8287.445	8288.365	8287.915	0.96808	1.0162	0.54948	-0.4063	0.232
368	8289.173	8289.793	8289.514	1.0005	0.97471	0.7292	-0.2263	0.245
369	8293.703	8294.675	8294.148	0.94865	0.95323	0.72619	-0.1881	0.16
370	8300.741	8300.083	8300.402	0.99557	0.95742	0.72349	-0.24074	0.227
371	8303.935	8304.662	8304.299	0.98281	1.0168	0.80266	-0.15473	0.25
372	8304.779	8305.483	8305.062	1.0014	0.95336	0.64322	-0.31788	0.223
373	8311.436	8312.309	8311.913	1.0094	0.96874	0.81813	-0.11887	0.229
374	8315.774	8316.535	8316.166	1.0294	1.0342	0.89189	-0.13269	0.225
375	8317.835	8318.415	8318.117	1.0062	0.95582	0.73485	-0.23956	0.235
376	8320.918	8321.375	8321.238	1.0046	0.83541	0.74257	-0.30608	0.32
377	8321.375	8321.925	8321.531	0.83541	0.95705	0.67119	-0.25491	0.242
378	8329.437	8329.957	8329.628	1.019	1.001	0.83102	-0.14392	0.235
379	8335.437	8336.061	8335.475	0.95512	0.96836	0.91991	-0.058245	0.018
380	8338.666	8339.248	8339.01	0.94258	0.99421	0.79389	-0.15319	0.197
381	8350.153	8350.788	8350.245	0.97963	1.0161	0.8976	-0.060967	0.163
382	8353.418	8353.935	8353.632	0.99103	1.0118	0.89576	-0.095811	0.272
383	8356.809	8357.454	8357.021	1.0111	0.97457	0.87209	-0.10017	0.194
384	8361.802	8362.562	8362.092	0.93713	1.0054	0.89185	-0.12346	0.805
385	8367.041	8367.529	8367.253	0.92282	0.97134	0.86969	-0.075263	0.132
386	8377.323	8377.887	8377.624	0.98902	0.97852	0.91769	-0.075388	0.176
387	8391.465	8392.009	8391.851	0.99956	1.006	0.93716	-0.027456	0.098
388	8396.768	8397.253	8396.869	0.93998	1.0129	0.89351	-0.050513	0.12
389	8408.823	8409.288	8409.181	0.97916	0.98259	0.87267	-0.11145	0.229
390	8430.647	8431	8430.81	0.99759	0.99244	0.90816	-0.10228	0.321
391	8432.872	8433.645	8432.937	1.0043	1.0209	0.94675	-0.063028	0.058
1	8933.809	8934.823	8934.141	0.93368	1.0133	0.88864	-0.08633	0.316

2	8939.966	8940.529	8940.188	0.97956	0.99535	0.91231	-0.071695	0.162
3	8942.056	8942.643	8942.295	1.0158	1.0013	0.88728	-0.1136	0.227
4	8946.551	8947.145	8946.852	0.96382	1.0095	0.88979	-0.11303	0.204
5	8951.463	8951.886	8951.751	1.0103	0.93077	0.9172	-0.28365	0.858
6	8951.886	8952.449	8952.174	0.93077	0.98285	0.83867	-0.11058	0.203
7	8954.027	8954.562	8954.295	1.0196	1.0072	0.78652	-0.27257	0.366
8	8954.562	8955.323	8954.941	1.0072	0.96425	0.69817	-0.27876	0.251
9	8962.139	8962.688	8962.419	0.89472	0.87376	0.71011	-0.61344	0.858
10	8962.467	8962.842	8962.521	0.74429	0.96715	0.73798	-0.23599	0.357
11	8963.276	8963.711	8963.487	0.95295	0.94582	0.69953	-0.2677	0.21
12	8965.002	8965.777	8965.449	0.9837	0.94664	0.64429	-0.33425	0.255
13	8966.224	8966.604	8966.374	0.91299	0.99112	0.7891	-0.26674	0.349
14	8970.774	8971.254	8971.073	1.0252	0.91327	0.81081	-0.19899	0.366
15	8971.254	8971.888	8971.561	0.91327	0.94063	0.58235	-0.41085	0.34
16	8972.526	8973.036	8972.867	1.0052	0.9969	0.8755	-0.10902	0.172
17	8973.974	8974.434	8974.248	0.99877	0.94437	0.81679	-0.15464	0.224
18	8974.417	8974.992	8974.744	0.94512	0.98619	0.78611	-0.18117	0.209
19	8976.143	8976.604	8976.385	1.01	1.0285	0.91364	-0.15891	0.365
20	8980.019	8981.089	8980.521	0.96933	0.94853	0.4325	-0.55392	0.349
21	8986.218	8986.957	8986.579	0.98808	0.90947	0.5287	-0.42686	0.245
22	8986.979	8987.972	8987.584	0.93857	0.90875	0.37853	-0.50947	0.32
23	8987.908	8988.373	8988.107	0.8895	0.97446	0.8219	-0.24425	0.551
24	8988.69	8989.451	8989.062	0.95576	0.87191	0.69156	-0.222	0.224
25	8990.271	8991.14	8990.81	0.96896	0.90453	0.46962	-0.45017	0.279
26	8991.14	8991.868	8991.69	0.90453	0.68021	0.35245	-0.55481	0.279
27	8991.868	8992.408	8991.954	0.68021	0.93081	0.63619	-0.3094	0.341
28	8999.753	9000.58	9000.272	0.94688	0.76366	0.28933	-0.5735	0.321
29	9000.58	9001.097	9000.7	0.76366	0.91017	0.67194	-0.23629	0.255
30	9003.126	9003.718	9003.607	0.92646	0.66696	0.57317	-0.34744	0.289
31	9003.746	9004.422	9003.865	0.67747	0.85468	0.58754	-0.3048	0.32
32	9006.461	9007.133	9007.067	0.90455	0.76274	0.74384	-0.28945	1.254
33	9006.369	9008.354	9007.541	0.86106	0.8752	0.6123	-0.18988	0.247
34	9008.75	9009.818	9009.061	0.83106	0.80823	0.71681	-0.079349	0.242
35	9011.284	9012.383	9011.854	0.74294	0.78955	0.41093	-0.33462	0.303
36	9016.125	9017.027	9016.702	0.79402	0.70853	0.23276	-0.57096	0.439
37	9022.1	9023.036	9022.619	0.84838	0.90139	0.40054	-0.44741	0.279
38	9025.535	9026.11	9025.888	0.84157	0.80666	0.30407	-0.56984	0.275
39	9031.032	9031.559	9031.378	0.97004	0.8953	0.73527	-0.25591	0.298
40	9042.479	9042.995	9042.795	1.0753	0.87279	0.79387	-0.81202	0.809
41	9052.394	9053.549	9052.944	0.95821	0.98019	0.65685	-0.31622	0.269
42	9059.88	9060.674	9060.403	0.98749	1.0102	0.70325	-0.25234	0.252
43	9062.413	9063.115	9062.684	0.96535	0.95614	0.78937	-0.14606	0.304

44	9063.688	9064.392	9064.016	0.90278	0.97626	0.78145	-0.15377	0.253
45	9068.731	9069.507	9069.11	0.99307	0.99909	0.37747	-0.56206	0.291
46	9071.409	9072.461	9071.931	1.0087	1.0026	0.38535	-0.59926	0.307
47	9073.989	9074.894	9074.285	0.91237	1.0156	0.69182	-0.30268	0.309
48	9078.703	9079.173	9079.03	0.93504	0.91234	0.84006	-0.11243	0.219
49	9079.173	9079.624	9079.364	0.91234	0.915	0.83848	-0.082094	0.156
50	9079.549	9080.112	9079.822	0.94815	0.89094	0.62597	-0.29845	0.197
51	9080.318	9080.788	9080.538	0.99618	1.0797	0.93062	-0.19814	0.512
52	9080.938	9081.615	9081.288	1.0356	0.94132	0.54235	-0.42804	0.261
53	9085.246	9085.584	9085.46	0.99757	0.99498	0.92853	-0.071075	0.138
54	9086.176	9086.683	9086.575	1.0045	0.79912	0.69322	-0.30646	0.278
55	9086.746	9087.422	9087.002	0.81713	0.94396	0.36017	-0.57241	0.273
56	9088.651	9089.215	9088.931	1.0338	1.0399	0.97589	-0.060623	0.384
57	9089.309	9090.013	9089.784	1.0484	1.0252	0.90015	-0.12419	0.335
58	9090.036	9090.693	9090.296	1.025	1.0685	0.92542	-0.063468	0.309
59	9092.079	9092.783	9092.448	1.096	1.1503	0.81465	-0.22852	0.205
60	9093.394	9094.169	9093.765	1.1202	1.0616	0.85259	-0.24568	0.254
61	9094.756	9095.883	9095.317	1.0898	1.1034	0.92719	-0.13667	0.196
62	9098.178	9098.85	9098.449	1.0017	1.0043	0.89399	-0.094185	0.307
63	9099.392	9100.218	9099.753	0.935	0.91949	0.54444	-0.40453	0.248
64	9100.218	9100.916	9100.494	0.91949	1.0077	0.69585	-0.27499	0.28
65	9105.042	9105.718	9105.388	0.99574	0.99214	0.6202	-0.3943	0.251
66	9105.972	9106.507	9106.174	1.0586	1.0626	0.94464	-0.11509	0.249
67	9106.563	9107.184	9107.045	1.0667	0.96761	0.90808	-0.13038	0.39
68	9107.184	9107.634	9107.369	0.96761	1.0678	0.81664	-0.26599	0.313
69	9107.957	9108.445	9108.313	0.994	0.93682	0.79422	-0.2018	0.195
70	9115.378	9115.777	9115.607	1.0448	1.0164	0.88574	-0.17283	0.268
71	9117.619	9118.267	9117.986	0.99521	1.0094	0.70539	-0.26502	0.239
72	9118.492	9119.281	9118.899	0.99185	0.9582	0.38434	-0.58564	0.294
73	9124.499	9125.074	9124.887	1.0021	1.0286	0.96605	-0.033043	0.06
74	9127.589	9127.983	9127.807	1.0114	1.007	0.88991	-0.15769	0.304
75	9128.422	9128.854	9128.579	0.98457	1.0221	0.812	-0.19309	0.222
76	9129.549	9129.999	9129.855	1.0038	0.88465	0.78855	-0.17418	0.231
77	9130.281	9131.089	9130.569	0.95308	1.0212	0.4659	-0.49725	0.279
78	9132.104	9132.667	9132.423	0.99952	0.9925	0.8743	-0.12334	0.258
79	9133.978	9134.527	9134.277	1.015	0.96478	0.81644	-0.19025	0.245
80	9134.527	9135.288	9134.752	0.96478	1.0168	0.8779	-0.057827	0.264
81	9135.668	9136.26	9135.983	0.99859	0.90902	0.64174	-0.31596	0.271
82	9136.26	9136.788	9136.556	0.90902	0.89283	0.40163	-0.50009	0.24
83	9136.788	9137.253	9137.033	0.89283	0.96647	0.67629	-0.21187	0.183
84	9140.106	9140.718	9140.445	1.0054	0.98722	0.93254	-0.068474	0.223
85	9140.67	9141.328	9141.155	0.98602	1.0246	0.95552	-0.050823	0.181

86	9149.65	9150.27	9150.01	1.0167	1.0304	0.8234	-0.14895	0.231
87	9150.478	9150.984	9150.788	0.99508	1.0342	0.93409	-0.057812	0.116
88	9151.351	9152.309	9151.718	1.0101	0.99537	0.8608	-0.066994	0.191
89	9152.309	9152.985	9152.583	0.99537	0.83732	0.69989	-0.17192	0.263
90	9152.957	9153.464	9153.146	0.86735	0.98808	0.60085	-0.38587	0.261
91	9155.042	9155.549	9155.445	0.97364	0.62521	0.60172	-0.44119	0.424
92	9155.492	9156.084	9155.676	0.64612	0.95399	0.3929	-0.45835	0.334
93	9156.084	9156.479	9156.127	0.95399	0.9951	0.87775	-0.09197	0.036
94	9156.479	9156.958	9156.809	0.9951	0.96346	0.86375	-0.11388	0.152
95	9159.666	9160.246	9160.084	1.034	0.97908	0.83952	-0.1598	0.224
96	9160.552	9161.253	9160.869	0.98839	1.0482	0.85723	-0.16218	0.256
97	9167.773	9168.098	9167.922	0.9352	0.97664	0.81344	-0.3694	0.427
98	9168.577	9168.802	9168.759	1.0215	0.9714	0.91377	-0.062331	0.03
99	9169.069	9169.323	9169.24	1.0352	0.99687	0.95652	-0.086672	0.156
100	9169.323	9169.619	9169.422	0.99687	1.0163	0.88476	-0.1546	0.173
101	9173.743	9174.549	9174.101	0.9725	0.96488	0.44773	-0.47261	0.336
102	9174.549	9174.959	9174.812	0.96488	0.96704	0.90334	-0.095345	0.181
103	9174.959	9175.485	9175.208	0.96704	0.9845	0.60398	-0.34432	0.248
104	9176.619	9177.195	9176.85	1.0196	0.91697	0.58458	-0.24582	0.132
105	9178.384	9178.892	9178.41	0.88851	0.95494	0.80545	-0.16025	0.027
106	9184.126	9184.611	9184.401	0.91651	1.0319	0.66584	-0.36303	0.263
107	9184.675	9185.288	9184.939	0.89697	1.0317	0.68504	-0.22148	0.215
108	9191.281	9191.892	9191.536	0.98593	1.0669	0.89193	-0.092753	0.119
109	9191.892	9192.972	9192.521	1.0669	1.0168	0.82928	-0.16142	0.393
110	9194.967	9195.695	9195.332	0.98847	0.98563	0.64547	-0.30515	0.272
111	9195.724	9196.292	9195.984	0.97604	1.0138	0.79183	-0.19406	0.232
112	9205.38	9205.915	9205.66	0.95952	0.93876	0.87652	-0.070338	0.079
113	9212.505	9213.085	9212.788	0.97083	0.93245	0.80869	-0.13722	0.254
114	9214.38	9215.002	9214.668	0.93973	0.87135	0.73799	-0.1887	0.273
115	9216.773	9217.788	9217.255	0.94855	0.98959	0.69521	-0.24883	0.604
116	9224.516	9225.535	9225.014	0.81956	0.78761	0.60963	-0.15676	0.255
117	9234.506	9235.183	9234.765	0.87263	0.85583	0.7533	-0.11468	0.236
118	9237.781	9238.373	9238.079	0.91826	0.91809	0.8166	-0.093943	0.194
119	9238.373	9239.219	9238.979	0.91809	0.90314	0.81775	-0.0855	0.05
120	9246.06	9246.576	9246.271	0.97216	1.0098	0.79582	-0.29365	0.43
121	9249.107	9249.572	9249.459	1.0116	0.97518	0.87639	-0.11037	0.132
122	9250.605	9251.535	9251.078	1.0312	0.93117	0.74981	-0.19484	0.27
123	9260.062	9260.887	9260.359	0.91279	0.96543	0.79023	-0.14283	0.231
124	9262.05	9262.428	9262.269	0.94132	0.975	0.84904	-0.08863	0.155
125	9265.995	9266.422	9266.102	1.0034	0.98922	0.89375	-0.089164	0.048
126	9272.742	9273.117	9272.972	1.0105	0.91827	0.88095	-0.22492	0.425
127	9273.117	9273.418	9273.187	0.91827	1.0377	0.88034	-0.13277	0.177

128	9278.373	9279.176	9278.808	0.96525	0.97787	0.54868	-0.44878	0.381
129	9278.416	9279.215	9278.808	1.0503	0.97394	0.54868	-0.44738	0.381
130	9279.332	9279.896	9279.732	0.95847	0.96825	0.84865	-0.11595	0.249
131	9279.896	9280.342	9280.101	0.96825	0.95861	0.78646	-0.21642	0.314
132	9284.568	9285.226	9284.9	0.98301	0.91704	0.60929	-0.34835	0.28
133	9286.188	9286.835	9286.43	0.99588	0.95117	0.72307	-0.18617	0.243
134	9288.771	9289.211	9288.895	1.0388	0.97764	0.85529	-0.12756	0.134
135	9289.65	9290.037	9289.813	0.96301	0.96287	0.82885	-0.1456	0.168
136	9291.045	9291.665	9291.314	0.97949	1.0014	0.75628	-0.22559	0.254
137	9292.731	9293.492	9293.123	0.99581	1.0117	0.78339	-0.19024	0.243
138	9293.999	9294.76	9294.462	1.019	0.87698	0.726	-0.21304	0.381
139	9294.76	9295.492	9295.093	0.87698	1.0709	0.64927	-0.65818	0.76
140	9297.163	9298.018	9297.691	0.89884	0.80529	0.58803	-0.28883	0.429
141	9297.773	9298.598	9297.856	0.77922	0.91547	0.76644	-0.18183	0.731
142	9299.818	9300.552	9300.389	1.0531	0.6207	0.53248	-0.45753	0.369
143	9300.765	9301.406	9301.015	0.80731	0.96767	0.48423	-0.45219	0.219
144	9301.65	9302.139	9301.885	0.93376	0.98316	0.70554	-0.25062	0.212
145	9303.476	9304.11	9303.827	0.94424	0.97336	0.39165	-0.58285	0.264
146	9304.885	9304.345	9304.497	0.94488	1.0014	0.77279	-0.18704	0.014
147	9307.041	9307.407	9307.233	0.98926	0.98725	0.83025	-0.21335	0.289
148	9307.534	9308.45	9308.042	0.88911	1.026	0.30637	-0.74463	0.459
149	9309.069	9309.873	9309.479	0.91542	0.78367	0.097523	-1.0453	0.581
150	9311.38	9311.873	9311.709	0.96844	0.88949	0.67848	-0.27774	0.211
151	9313.678	9314.45	9314.004	0.96048	0.98112	0.82954	-0.14568	0.335
152	9314.581	9315.485	9315.146	0.99391	0.89995	0.30385	-0.62853	0.327
153	9315.485	9316.077	9315.906	0.89995	0.71424	0.27682	-0.58634	0.297
154	9316.077	9316.521	9316.172	0.71424	0.5659	0.00027208	-0.47203	0.097
155	9316.521	9317.228	9316.801	0.5659	0.75999	-0.10191	-0.93862	0.566
156	9318.497	9319.455	9319.048	0.91416	0.94385	0.22308	-0.59969	0.304
157	9320.375	9320.995	9320.69	1.0101	1.0238	0.6167	-0.3688	0.167
158	9322.141	9322.817	9322.495	0.88096	0.81529	0.4191	-0.37555	0.23
159	9322.817	9323.455	9323.126	0.81529	0.69684	0.23711	-0.60465	0.25
160	9323.809	9324.527	9324.171	0.91207	0.74544	0.20572	-0.56314	0.243
161	9324.591	9325.076	9324.924	0.80754	0.45359	0.33172	-0.75071	0.545
162	9324.992	9325.731	9325.405	0.42412	0.61065	0.084299	-0.70454	0.692
163	9327.274	9328.183	9327.75	1.0192	0.97976	0.19182	-0.75494	0.382
164	9328.099	9329.007	9328.692	0.88603	1.0125	0.78496	-0.12157	0.196
165	9330.225	9330.741	9330.526	0.84054	0.96803	0.75812	-0.14627	0.049
166	9330.905	9331.915	9331.438	0.97461	0.957	0.29851	-0.59126	0.296
167	9332.689	9334.005	9333.536	0.9632	0.78637	0.02643	-0.85276	0.494
168	9334.005	9335.272	9334.502	0.78637	0.91406	0.10002	-0.77731	0.449
169	9335.104	9335.775	9335.617	0.93681	0.88687	0.7563	-0.17033	0.243

170	9335.775	9336.524	9336.052	0.88687	0.8693	0.45335	-0.43972	0.237
171	9336.705	9337.429	9337.129	1.0313	0.94454	0.55159	-0.42853	0.315
172	9337.971	9338.823	9338.409	0.99073	0.85772	0.39989	-0.51331	0.291
173	9338.798	9340.063	9339.358	0.86112	0.92333	0.064792	-0.83226	0.467
174	9341.83	9343.069	9342.594	0.86705	0.59829	0.0050956	-0.90587	0.689
175	9342.957	9343.858	9343.563	0.48931	0.34959	0.12497	-0.44858	0.377
176	9343.802	9344.647	9344.101	0.40553	0.76136	0.028142	-0.79924	0.598
177	9344.676	9346.45	9345.479	0.79168	0.82716	0.021954	-0.7893	0.604
178	9346.028	9347.07	9346.037	0.74931	0.93536	0.72967	-0.12778	0.099
179	9349.94	9351.04	9350.41	0.9859	1.0213	0.70758	-0.28496	0.296
180	9352.353	9353.207	9352.996	1.0028	0.61973	0.36356	-0.61872	0.459
181	9353.241	9353.758	9353.51	0.55805	0.54978	0.16732	-0.46795	0.29
182	9353.758	9354.639	9354.25	0.54978	0.54931	0.0085469	-0.64561	0.517
183	9354.928	9355.393	9355.136	0.8358	0.93104	0.75125	-0.55851	0.749
184	9356.929	9358.041	9357.635	0.88013	0.51268	0.032124	-0.98502	0.755
185	9358.041	9359.112	9358.578	0.51268	0.78697	0.047003	-0.62553	0.552
186	9360.873	9361.55	9361.208	1.0139	1.0279	0.69236	-0.31345	0.267
187	9363.086	9363.645	9363.354	1.0389	1.0432	0.89089	-0.12377	0.285
188	9364.171	9365.485	9364.866	0.98561	0.93038	0.11483	-0.82582	0.432
189	9365.601	9366.915	9366.396	0.90065	0.88251	0.07171	-0.8303	0.459
190	9368.628	9369.643	9369.379	0.90515	0.53305	0.044446	-0.85433	0.482
191	9370.487	9372.253	9371.416	0.87683	0.85253	0.0049913	-0.90643	0.854
192	9373.513	9374.823	9374.3	0.97683	0.99454	0.91654	-0.069822	0.102
193	9375.753	9374.738	9375.228	0.95866	0.98738	0.64155	-0.3406	0.234
194	9376.641	9378.415	9377.646	1.0518	0.89861	0.01375	-0.88781	0.59
195	9379.121	9380.06	9379.644	0.96943	0.9413	0.47349	-0.49605	0.395
196	9380.06	9381.773	9381.131	0.9413	0.80633	0.011861	-0.89263	0.726
197	9381.845	9382.502	9382.102	0.84697	0.9836	0.60951	-0.31585	0.337
198	9382.972	9384.052	9383.528	0.98247	1.0545	0.79245	-0.18634	0.297
199	9385.931	9387.377	9386.766	0.92521	0.83334	0.10884	-0.99723	0.854
200	9387.377	9388.049	9387.772	0.83334	0.92666	0.63857	-0.25597	0.208
201	9390.928	9392.76	9391.737	1.0306	1.0521	0.62593	-0.3691	0.256
202	9393.746	9395.126	9394.318	1.0231	1.0213	0.82979	-0.15603	0.509
203	9395.746	9396.761	9396.25	0.97506	1.0255	0.85152	-0.16262	0.299
204	9397.896	9399.636	9398.987	1.0228	0.96692	0.26079	-0.68449	0.354
205	9399.574	9400.826	9400.069	0.97345	1.0447	0.66441	-0.34001	0.303
206	9401.131	9401.986	9401.588	1.0162	0.95501	0.53544	-0.44883	0.263
207	9402.199	9402.932	9402.588	0.98025	1.014	0.78671	-0.19909	0.259
208	9403.405	9404.016	9403.722	0.99411	0.9746	0.78537	-0.18338	0.279
209	9404.192	9404.709	9404.455	0.94189	0.98868	0.84894	-0.12162	0.248
210	9406.379	9407.76	9406.872	0.97069	1.0614	0.60732	-0.39547	0.287
211	9408.352	9409.196	9409.002	0.99788	0.91929	0.5819	-0.4394	0.29

212	9409.549	9411.042	9410.378	0.96784	0.94891	0.12221	-0.81493	0.493
213	9411.042	9411.507	9411.294	0.94891	0.98961	0.81683	-0.1586	0.229
214	9413.151	9413.743	9413.47	1.0307	0.9179	0.79379	-0.16388	0.21
215	9413.743	9414.45	9414.004	0.9179	1.0159	0.82644	-0.16374	0.258
216	9416.636	9417.162	9416.935	1.0516	0.93926	0.88196	-0.26612	0.689
217	9417.106	9418.084	9417.645	0.97225	0.9663	0.089293	-0.87952	0.465
218	9420.338	9421.052	9420.668	0.99534	0.92173	0.85192	-0.11333	0.08
219	9421.146	9422.328	9421.809	0.9955	0.95487	0.23044	-0.73759	0.358
220	9424.379	9425.183	9424.77	1.022	1.0219	0.92385	-0.10632	0.428
221	9425.837	9427.465	9426.867	1.0045	0.7517	0.0061573	-0.89547	0.674
222	9427.465	9428.965	9428.205	0.7517	0.86294	-0.020564	-0.8171	0.594
223	9429.942	9431.187	9430.595	0.92597	0.9793	0.096251	-0.81995	0.392
224	9436.603	9438.565	9437.82	1.0212	1.0048	0.062203	-0.93108	0.737
225	9439.469	9440.916	9440.729	0.96905	0.06442	-0.010754	-0.97442	0.769
226	9440.812	9441.354	9440.986	0.04602	0.48658	0.015998	-1.7819	1.135
227	9441.999	9442.675	9442.411	0.92941	0.92118	0.60838	-0.31724	0.263
228	9442.731	9443.858	9443.297	0.90245	0.94414	0.10058	-0.82148	0.396
229	9444.084	9444.562	9444.373	0.92844	0.92674	0.60298	-0.33874	0.252
230	9445.38	9446.479	9445.979	1.0509	1.0402	0.31718	-0.65022	0.319
231	9448.567	9449.483	9449.146	1.0742	0.9652	0.70417	-0.2872	0.295
232	9449.483	9450.674	9450.289	0.9652	0.98768	0.50346	-0.44604	0.303
233	9453.664	9454.333	9454.081	1.0257	0.72022	0.27395	-0.64367	0.374
234	9454.321	9455.037	9454.653	0.68721	0.85548	0.18586	-0.62948	0.322
235	9455.604	9456.52	9456.153	0.93235	0.7578	0.056563	-0.84016	0.451
236	9459.38	9460.027	9459.97	0.95672	0.10643	0.052553	-0.81799	0.516
237	9460.563	9461.648	9461.3	0.7643	0.69843	-0.073237	-0.48361	0.337
238	9465.156	9465.781	9465.475	0.85405	1.0852	0.41565	-0.50249	0.19
239	9467.37	9468.084	9467.855	0.96709	0.90301	0.671	-0.2339	0.051
240	9468.196	9468.967	9468.632	0.86652	0.81817	0.51278	-0.32319	0.23
241	9468.929	9469.962	9469.366	0.81999	0.89969	0.20605	-0.6767	0.435
242	9470.094	9470.901	9470.46	1.001	0.99749	0.70819	-0.2267	0.217
243	9473.872	9474.887	9474.475	1.0384	0.72272	0.32089	-0.51578	0.285
244	9475.626	9476.323	9475.97	0.94373	1.0188	0.70873	-0.29961	0.424
245	9479.379	9480.741	9480.221	1.0423	0.88413	0.083212	-0.88521	0.569
246	9480.741	9482.126	9481.637	0.88413	0.71147	0.010538	-0.84938	0.615
247	9482.126	9482.83	9482.368	0.71147	0.94652	0.46834	-0.46021	0.459
248	9485.466	9486.24	9486.01	0.98704	1.0179	0.73267	-0.26146	0.284
249	9486.576	9487.041	9486.829	1.067	1.127	0.86645	-0.62121	0.632
250	9487.067	9487.636	9487.363	1.0211	1.0048	0.75771	-0.525	0.677
251	9492.618	9493.661	9493.432	0.97713	0.7369	0.34866	-0.60561	0.386
252	9493.718	9495.099	9494.248	0.78681	0.90146	0.054715	-0.90999	0.674
253	9496.507	9497.888	9497.409	0.90278	0.91235	0.10042	-0.83534	0.432

254	9499.208	9500.062	9499.685	0.8594	0.94022	0.61627	-0.25357	0.211
255	9500.062	9501.345	9500.857	0.94022	0.59371	0.0044883	-0.95243	0.817
256	9501.345	9502.443	9501.646	0.59371	1.0177	0.13495	-0.79345	0.485
257	9503.974	9504.845	9504.407	1.1189	1.0625	0.88749	-0.1427	0.144
258	9505.058	9505.913	9505.598	1.1068	1.0121	0.71902	-0.29872	0.337
259	9510.394	9511.126	9510.731	1.0644	1.0054	0.76813	-0.20288	0.181
260	9512.31	9512.911	9512.588	0.98863	0.97429	0.80902	-0.16861	0.316
261	9513.26	9514.062	9513.71	0.95344	0.9417	0.68533	-0.26945	0.296
262	9514.062	9514.781	9514.455	0.9417	0.93747	0.70016	-0.25654	0.205
263	9516.303	9517.528	9516.973	0.77868	0.7095	0.049913	-0.70097	0.519
264	9517.634	9518.204	9517.985	0.85686	0.93998	0.8016	-0.10527	0.223
265	9518.732	9519.873	9519.313	0.87435	0.89322	0.2213	-0.64705	0.335
266	9520.178	9520.905	9520.544	0.91241	0.90278	0.80809	-0.13173	0.146
267	9521.375	9523.112	9522.226	0.96958	0.92307	0.023173	-0.90092	0.649
268	9523.3	9523.91	9523.5	0.97465	0.9216	0.77184	-0.13906	0.203
269	9524.521	9525.625	9525.079	0.92218	0.9273	0.31552	-0.59905	0.301
270	9526.964	9527.894	9527.496	0.95884	0.91196	0.64339	-0.27833	0.262
271	9527.92	9528.771	9528.439	0.92502	0.76217	0.25694	-0.62346	0.354
272	9529.107	9529.701	9529.405	0.90495	0.92826	0.4977	-0.38103	0.183
273	9531.267	9531.999	9531.706	0.87194	0.98001	0.70062	-0.22739	0.214
274	9533.069	9533.858	9533.362	0.94533	0.96492	0.79224	-0.14885	0.302
275	9535.154	9536.647	9535.976	0.9523	0.90493	0.20474	-0.69504	0.493
276	9537.743	9538.72	9538.323	0.91084	0.85142	0.58399	-0.30832	0.323
277	9540.124	9541.467	9540.87	0.88907	0.81167	0.29885	-0.45427	0.308
278	9543.335	9544.004	9543.904	0.68172	0.13961	0.04664	-0.63022	0.448
279	9543.875	9544.592	9544.063	0.055017	0.57148	0.04664	-1.8528	1.542
280	9545.421	9546.111	9545.799	0.70343	0.77269	0.49933	-0.25408	0.279
281	9546.28	9546.787	9546.51	0.81059	0.83506	0.66976	-0.13726	0.217
282	9548.267	9549.069	9548.655	0.96345	0.84843	0.53997	-0.27781	0.371
283	9552.724	9553.71	9553.398	0.92214	0.5902	0.10535	-0.73407	0.419
284	9554.138	9554.598	9554.428	0.74891	0.84872	0.5217	-0.23951	0.19
285	9555.666	9556.308	9556.029	0.89689	0.97352	0.59117	-0.30997	0.243
286	9556.438	9557.869	9557.24	0.94602	0.91769	0.20018	-0.61571	0.514
287	9558.046	9558.685	9558.38	0.9396	0.98507	0.68559	-0.27962	0.245
288	9561.99	9563.174	9562.655	1.0635	0.99977	0.45507	-0.44601	0.381
289	9563.471	9564.337	9563.857	0.9709	1.0049	0.52492	-0.46021	0.292
290	9564.527	9565.584	9565.028	0.9772	0.97659	0.24109	-0.73118	0.322
291	9565.816	9567.274	9566.604	0.99648	1.0203	0.11511	-0.86659	0.465
292	9568.331	9569.282	9568.861	1.0433	0.94099	0.57307	-0.40907	0.481
293	9569.919	9570.741	9570.305	1.0279	1.0627	0.81626	-0.18483	0.219
294	9570.67	9571.633	9571.296	0.9775	1.057	0.41716	-0.48166	0.25
295	9576.473	9577.636	9577.006	1.0965	1.0054	0.75056	-0.25713	0.276

296	9579.03	9580.425	9579.96	0.96058	0.9835	0.45364	-0.5191	0.47
297	9580.502	9581.535	9581.085	0.98076	0.87501	0.16745	-0.68643	0.333
298	9581.379	9582.309	9581.759	0.8679	1.0083	0.60971	-0.35016	0.266
299	9585.437	9586.226	9585.881	0.9507	1.1323	0.78889	-0.19737	0.259
300	9586.563	9587.634	9587.118	1.0732	1.0602	0.67817	-0.36058	0.31
301	9588.109	9588.812	9588.582	0.98464	0.85785	0.54159	-0.4028	0.521
302	9588.812	9589.666	9589.07	0.85785	0.96069	0.32474	-0.51934	0.242
303	9589.818	9590.765	9590.182	1.0282	1.0188	0.48455	-0.48172	0.277
304	9590.856	9591.681	9591.219	1.0551	0.92224	0.45169	-0.4946	0.276
305	9591.65	9592.23	9591.923	0.93098	0.92247	0.65429	-0.27031	0.235
306	9592.169	9592.993	9592.488	0.92048	0.90553	0.3404	-0.59637	0.282
307	9593.922	9594.356	9594.156	0.89448	0.94862	0.62441	-0.30552	0.23
308	9594.438	9595.002	9594.776	0.86836	1.0787	0.66138	-0.192	0.073
309	9597.365	9597.999	9597.586	0.98766	0.88956	0.63019	-0.24526	0.172
310	9598.45	9599.338	9598.851	0.84349	1.0278	0.43119	-0.45918	0.25
311	9604.039	9604.86	9604.567	1.0133	0.83154	0.67571	-0.22642	0.334
312	9604.86	9605.634	9605.136	0.83154	0.98506	0.31326	-0.63545	0.32
313	9605.847	9606.604	9606.157	1.0511	0.9565	0.58229	-0.37321	0.253
314	9607.708	9608.666	9607.873	0.90491	0.98277	0.72565	-0.19173	0.099
315	9609.492	9610.544	9610.034	1.0526	0.86464	0.56622	-0.42822	0.304
316	9617.654	9618.817	9618.067	1.1094	0.97194	0.53965	-0.40409	0.267
317	9619.566	9620.6	9620.008	0.99808	1.0403	0.51489	-0.38771	0.197
318	9620.67	9621.703	9621.175	1.2017	1.0217	0.25552	-0.65708	0.394
319	9621.845	9623.37	9622.667	0.89131	0.98659	0.46581	-0.44318	0.309
320	9624.005	9624.85	9624.452	1.0209	0.96694	0.72949	-0.24926	0.178
321	9625.285	9626.034	9625.723	0.998	0.86032	0.70041	-0.18203	0.211
322	9626.034	9626.912	9626.314	0.86032	0.98378	0.46328	-0.47795	0.307
323	9627.454	9628.901	9628.658	1.0038	1.0479	0.72113	-0.20479	0.087
324	9635.38	9636.789	9636.062	1.0063	0.94609	0.71911	-0.1641	0.056
325	9636.789	9637.944	9637.389	0.94609	0.98223	0.3115	-0.59258	0.462
326	9639.818	9640.43	9640.188	1.0069	0.88149	0.81812	-0.19214	0.313
327	9640.307	9641.162	9640.584	0.89414	1.0383	0.75935	-0.2706	0.328
328	9642.783	9643.358	9643.113	1.0917	1.0007	0.89415	-0.11222	0.069
329	9644.615	9645.366	9645.188	1.013	0.68351	0.65079	-0.42735	0.767
330	9645.261	9645.824	9645.525	0.72035	0.92632	0.42567	-0.52577	0.316
331	9645.998	9646.787	9646.437	0.96195	0.99029	0.58331	-0.37051	0.265
332	9648.309	9648.943	9648.576	1.0711	1.0503	0.90489	-0.18173	0.454
333	9651.64	9652.182	9651.874	1.0948	1.0079	0.85989	-0.15697	0.12
334	9652.494	9653.217	9652.844	1.1194	1.0093	0.8114	-0.23133	0.27
335	9654.4	9655.009	9654.622	1.0255	1.0164	0.70346	-0.24678	0.134
336	9657.03	9657.672	9657.305	1.0474	0.94278	0.78114	-0.22204	0.26
337	9659.398	9660.206	9659.707	0.93445	1.0341	0.78441	-0.19547	0.224

338	9660.45	9661.427	9660.861	0.98549	0.96551	0.75009	-0.26866	0.307
339	9661.54	9662.667	9662.296	0.98819	0.96609	0.3428	-0.62642	0.312
340	9662.892	9663.418	9663.23	0.97501	1.02	0.89507	-0.093046	0.162
341	9664.168	9665.33	9664.618	1.0297	1.07	0.66006	-0.34123	0.293
342	9666.725	9667.654	9667.154	0.99964	1.0765	0.89381	-0.16871	0.496
343	9669.496	9670.201	9669.955	1.0082	0.97637	0.63758	-0.33614	0.277
344	9670.201	9670.858	9670.59	0.97637	0.97401	0.5229	-0.42247	0.281
345	9679.701	9680.838	9680.35	0.88966	0.99106	0.37676	-0.55946	0.304
346	9691.457	9692.549	9691.886	1.0143	1.0412	0.8373	-0.10547	0.259
347	9697.731	9699.042	9698.209	1.0077	0.98391	0.86003	-0.11891	0.067
348	9699.732	9700.465	9700.139	1.0152	0.97896	0.885	-0.10544	0.3
349	9700.958	9701.846	9701.399	1.0024	0.93891	0.53332	-0.44633	0.268
350	9707.971	9709.286	9708.855	0.97559	0.96144	0.78349	-0.19848	0.322
351	9714.781	9716.091	9715.278	1.0025	0.97311	0.50966	-0.48809	0.314
352	9722.361	9723.699	9723.157	1.0734	0.95888	0.67496	-0.29643	0.283
353	9723.91	9725.038	9724.584	1.02	0.99872	0.77403	-0.22846	0.369
354	9730.063	9731.277	9730.657	1.01	0.94047	0.81336	-0.15423	0.341
355	9734.281	9735.718	9734.99	0.97017	1.0416	0.55742	-0.41069	0.273
356	9735.718	9737.408	9736.632	1.0416	1.0506	0.65546	-0.3769	1.497
357	9742.749	9743.909	9743.464	0.93978	0.95677	0.35198	-0.52083	0.325
358	9748.873	9749.845	9749.302	0.84168	0.90604	0.36554	-0.52472	0.253
359	9753.036	9754.581	9753.793	0.98614	1.0412	0.64158	-0.31725	0.427
360	9757.201	9758.609	9757.699	0.91604	0.97767	0.40583	-0.54624	0.311
361	9762.348	9763.568	9762.841	1.0378	0.95504	0.46918	-0.32267	0.308
362	9781.857	9783.21	9782.355	1.1423	1.005	0.48681	-0.42304	0.29
363	9790.398	9791.895	9790.992	1.0537	1.078	0.58046	-0.32007	0.309
364	9792.565	9793.787	9793.323	1.102	0.96058	0.4982	-0.39419	0.26
365	9799.056	9799.831	9799.419	0.98213	1.028	0.71658	-0.26205	0.215
366	9801.226	9801.958	9801.682	1.0221	0.97037	0.66366	-0.37484	0.285
367	9802.954	9803.809	9803.196	1.0889	1.0572	0.82442	-0.15608	0.125
368	9824.588	9826.396	9825.521	1.0567	0.91767	0.76713	-0.21463	0.214
369	9831.604	9832.394	9831.88	1.1285	0.97084	0.85577	-0.18809	0.202
370	9848.436	9849.464	9848.887	1.0662	0.91518	0.81719	-0.17903	0.296