

R	Insertase-pH8	Fit	Residue	Mo-Oxo	Mo-Oxo-5	Mo-O	Mo-O-13	Mo-S	Mo-S-18
0.0000	-0.11781	0.14395	-0.26177	-0.14149	-51.415	0.16330	-12.837	0.12214	-17.878
0.030700	0.30423	0.46926	-0.16502	0.21590	-47.841	0.16092	-12.839	0.092400	-17.908
0.061400	0.49590	0.63412	-0.13822	0.42820	-45.718	0.14754	-12.852	0.058400	-17.942
0.092000	0.38531	0.57111	-0.18590	0.42609	-45.739	0.12050	-12.879	0.024500	-17.976
0.12272	0.054200	0.32853	-0.27430	0.25103	-47.490	0.082600	-12.917	-0.0051000	-18.005
0.15340	-0.30735	0.044000	-0.35137	0.031600	-49.684	0.041000	-12.959	-0.028600	-18.029
0.18408	-0.49764	-0.12709	-0.37055	-0.084500	-50.845	0.0039800	-12.996	-0.046500	-18.046
0.21476	-0.40330	-0.091700	-0.31159	-0.0081900	-50.082	-0.022900	-13.023	-0.060700	-18.061
0.24544	-0.054900	0.13342	-0.18829	0.24510	-47.549	-0.039000	-13.039	-0.072600	-18.073
0.27612	0.38883	0.43041	-0.041600	0.56238	-44.376	-0.048800	-13.049	-0.083200	-18.083
0.30680	0.71893	0.64035	0.078600	0.79116	-42.088	-0.058800	-13.059	-0.092100	-18.092
0.33748	0.77928	0.64455	0.13472	0.81764	-41.824	-0.073800	-13.074	-0.099200	-18.099
0.36816	0.54334	0.42567	0.11767	0.62565	-43.743	-0.094800	-13.095	-0.10522	-18.105
0.39884	0.12809	0.077700	0.050400	0.30603	-46.940	-0.11738	-13.117	-0.11096	-18.111
0.42951	-0.26236	-0.24028	-0.022100	0.011500	-49.885	-0.13487	-13.135	-0.11686	-18.117
0.46019	-0.43601	-0.38376	-0.052300	-0.12059	-51.206	-0.14127	-13.141	-0.12189	-18.122
0.49087	-0.30742	-0.29564	-0.011800	-0.037600	-50.376	-0.13465	-13.135	-0.12336	-18.123
0.52155	0.059000	-0.035500	0.094500	0.20088	-47.991	-0.11828	-13.118	-0.11811	-18.118
0.55223	0.47848	0.25019	0.22829	0.45369	-45.463	-0.099000	-13.099	-0.10448	-18.104
0.58291	0.73423	0.40254	0.33169	0.57042	-44.296	-0.083900	-13.084	-0.084000	-18.084
0.61359	0.68379	0.33204	0.35175	0.46990	-45.301	-0.076600	-13.077	-0.061200	-18.061
0.64427	0.33068	0.066400	0.26427	0.18428	-48.157	-0.075400	-13.075	-0.042500	-18.042
0.67495	-0.17303	-0.26083	0.087800	-0.15457	-51.546	-0.074300	-13.074	-0.032000	-18.032
0.70563	-0.59632	-0.47658	-0.11974	-0.38075	-53.808	-0.066000	-13.066	-0.029800	-18.030
0.73631	-0.73846	-0.45686	-0.28160	-0.37962	-53.796	-0.046300	-13.046	-0.031000	-18.031
0.76699	-0.52631	-0.19312	-0.33319	-0.14941	-51.494	-0.016000	-13.016	-0.027700	-18.028
0.79767	-0.052500	0.19832	-0.25078	0.19337	-48.066	0.018600	-12.981	-0.013700	-18.014
0.82835	0.46480	0.53073	-0.065900	0.46930	-45.307	0.048900	-12.951	0.012500	-17.987
0.85903	0.76196	0.63966	0.14229	0.52596	-44.740	0.068500	-12.932	0.045200	-17.955
0.88971	0.74380	0.46793	0.27587	0.31742	-46.826	0.075900	-12.924	0.074600	-17.925
0.92039	0.35624	0.099100	0.25718	-0.068100	-50.681	0.076100	-12.924	0.091100	-17.909
0.95107	-0.21657	-0.28039	0.063800	-0.44876	-54.488	0.077500	-12.922	0.090900	-17.909
0.98175	-0.72933	-0.47339	-0.25594	-0.63979	-56.398	0.087700	-12.912	0.078700	-17.921
10.124	-0.96996	-0.37510	-0.59486	-0.55023	-55.502	0.10934	-12.891	0.065800	-17.934

10.431	-0.85592	-0.033100	-0.82287	-0.23565	-52.357	0.13807	-12.862	0.064500	-17.935
10.738	-0.46616	0.36855	-0.83471	0.12257	-48.774	0.16440	-12.836	0.081600	-17.918
11.045	0.0056800	0.59682	-0.59113	0.30504	-46.950	0.17819	-12.822	0.11358	-17.886
11.351	0.35228	0.48956	-0.13728	0.16773	-48.323	0.17363	-12.826	0.14820	-17.852
11.658	0.45556	0.046100	0.40945	-0.27627	-52.763	0.15237	-12.848	0.17001	-17.830
11.965	0.33820	-0.55974	0.89794	-0.85127	-58.513	0.12274	-12.877	0.16878	-17.831
12.272	0.13646	-10.576	11.941	-12.986	-62.986	0.095600	-12.904	0.14540	-17.855
12.579	0.0083300	-12.164	12.247	-14.068	-64.068	0.078300	-12.922	0.11212	-17.888
12.885	0.026600	-0.97211	0.99870	-11.292	-61.292	0.070900	-12.929	0.086200	-17.914
13.192	0.11799	-0.48097	0.59895	-0.62625	-56.262	0.065100	-12.935	0.080200	-17.920
13.499	0.089000	-0.060100	0.14913	-0.20216	-52.022	0.048500	-12.951	0.093600	-17.906
13.806	-0.26462	-0.034400	-0.23019	-0.15669	-51.567	0.011100	-12.989	0.11119	-17.889
14.113	-10.154	-0.55597	-0.45942	-0.61652	-56.165	-0.049400	-13.049	0.10994	-17.890
14.419	-20.020	-14.832	-0.51884	-14.289	-64.289	-0.12502	-13.125	0.070800	-17.929
14.726	-28.340	-23.903	-0.44374	-21.792	-71.792	-0.20136	-13.201	-0.0096900	-18.010
15.033	-30.205	-27.194	-0.30113	-23.404	-73.404	-0.26453	-13.265	-0.11452	-18.115
15.340	-21.835	-20.239	-0.15960	-15.025	-65.025	-0.30876	-13.309	-0.21257	-18.213
15.647	-0.26490	-0.19985	-0.065000	0.41294	-45.871	-0.33989	-13.340	-0.27291	-18.273
15.953	23.694	24.000	-0.030600	30.532	-19.468	-0.37221	-13.372	-0.28098	-18.281
16.260	49.945	50.362	-0.041700	57.035	0.70347	-0.41927	-13.419	-0.24800	-18.248
16.567	67.533	68.249	-0.071500	75.146	25.146	-0.48228	-13.482	-0.20749	-18.207
16.874	69.683	70.652	-0.096900	78.070	28.070	-0.54221	-13.542	-0.19958	-18.200
17.181	54.147	55.229	-0.10816	63.333	13.333	-0.56061	-13.561	-0.24981	-18.250
17.487	24.399	25.492	-0.10928	33.932	-16.068	-0.49083	-13.491	-0.35321	-18.353
17.794	-11.305	-10.198	-0.11067	-0.25012	-52.501	-0.29697	-13.297	-0.47269	-18.473
18.101	-42.713	-41.516	-0.11977	-36.240	-86.240	0.026600	-12.973	-0.55414	-18.554
18.408	-61.182	-59.829	-0.13528	-58.742	-10.874	0.44336	-12.557	-0.55207	-18.552
18.715	-62.662	-61.183	-0.14793	-65.422	-11.542	0.87714	-12.123	-0.45322	-18.453
19.021	-48.919	-47.454	-0.14653	-56.899	-10.690	12.296	-11.770	-0.28517	-18.285
19.328	-26.503	-25.248	-0.12556	-38.302	-88.302	14.089	-11.591	-0.10348	-18.103
19.635	-0.39606	-0.30662	-0.089400	-17.036	-67.036	13.585	-11.641	0.038500	-17.962
19.942	11.547	12.058	-0.051100	0.0050200	-49.950	10.779	-11.922	0.12287	-17.877
20.249	16.817	17.074	-0.025600	0.89663	-41.034	0.62505	-12.375	0.18568	-17.814
20.555	13.367	13.587	-0.022000	0.95119	-40.488	0.10031	-12.900	0.30719	-17.693
20.862	0.61707	0.65509	-0.038000	0.46408	-45.359	-0.38261	-13.383	0.57361	-17.426

21.169	0.10334	0.16398	-0.060600	-0.13057	-51.306	-0.72956	-13.730	10.241	-16.976
21.476	0.18077	0.25262	-0.071800	-0.46392	-54.639	-0.89087	-13.891	16.074	-16.393
21.783	0.86786	0.92501	-0.057100	-0.37590	-53.759	-0.87041	-13.870	21.713	-15.829
22.089	18.219	18.344	-0.012500	0.053500	-49.465	-0.71704	-13.717	24.979	-15.502
22.396	25.112	24.575	0.053800	0.58344	-44.166	-0.50294	-13.503	23.770	-15.623
22.703	24.719	23.471	0.12474	0.95184	-40.482	-0.29758	-13.298	16.929	-16.307
23.010	15.303	13.476	0.18270	10.049	-39.951	-0.14713	-13.147	0.48986	-17.510
23.317	-0.10426	-0.32089	0.21663	0.75821	-42.418	-0.065500	-13.066	-10.136	-19.014
23.623	-19.159	-21.424	0.22650	0.37025	-46.298	-0.038600	-13.039	-24.741	-20.474
23.930	-32.892	-35.113	0.22205	0.049300	-49.507	-0.037600	-13.038	-35.229	-21.523
24.237	-37.546	-39.718	0.21722	-0.053700	-50.537	-0.034800	-13.035	-38.833	-21.883
24.544	-31.677	-33.908	0.22304	0.086400	-49.136	-0.015100	-13.015	-34.621	-21.462
24.850	-17.517	-19.940	0.24228	0.36727	-46.327	0.020700	-12.979	-23.820	-20.382
25.157	0.0072200	-0.26098	0.26820	0.62101	-43.790	0.060500	-12.939	-0.94249	-18.942
25.464	15.581	12.704	0.28771	0.70257	-42.974	0.089800	-12.910	0.47808	-17.522
25.771	24.893	22.022	0.28704	0.56040	-44.396	0.099900	-12.900	15.419	-16.458
26.078	26.563	23.990	0.25730	0.25588	-47.441	0.092300	-12.908	20.508	-15.949
26.384	21.909	19.933	0.19759	-0.074100	-50.741	0.076500	-12.924	19.908	-16.009
26.691	14.020	12.873	0.11473	-0.28868	-52.887	0.064400	-12.936	15.115	-16.488
26.998	0.62489	0.60473	0.020200	-0.31222	-53.122	0.064000	-12.936	0.85297	-17.147
27.305	0.087400	0.16143	-0.074000	-0.16607	-51.661	0.075300	-12.925	0.25220	-17.748
27.612	-0.15236	0.0061000	-0.15846	0.048700	-49.513	0.091300	-12.909	-0.13399	-18.134
27.918	-0.18350	0.044300	-0.22782	0.20675	-47.933	0.10205	-12.898	-0.26447	-18.264
28.225	-0.15951	0.12097	-0.28048	0.22143	-47.786	0.099700	-12.900	-0.20019	-18.200
28.532	-0.20400	0.11304	-0.31703	0.085000	-49.150	0.083000	-12.917	-0.055000	-18.055
28.839	-0.35108	-0.012200	-0.33893	-0.13333	-51.333	0.057200	-12.943	0.064000	-17.936
29.146	-0.54355	-0.19588	-0.34767	-0.32697	-53.270	0.031500	-12.969	0.099600	-17.900
29.452	-0.68036	-0.33557	-0.34479	-0.40733	-54.073	0.014400	-12.986	0.057400	-17.943
29.759	-0.68200	-0.35004	-0.33197	-0.34665	-53.467	0.0094200	-12.991	-0.012800	-18.013
30.066	-0.53731	-0.22635	-0.31096	-0.18778	-51.878	0.014100	-12.986	-0.052700	-18.053
30.373	-0.30883	-0.025700	-0.28314	-0.018200	-50.182	0.021600	-12.978	-0.029100	-18.029
30.680	-0.097700	0.15106	-0.24880	0.076600	-49.234	0.024300	-12.976	0.050200	-17.950
30.986	0.0100000	0.21689	-0.20688	0.055400	-49.446	0.017800	-12.982	0.14371	-17.856
31.293	-0.013200	0.14222	-0.15544	-0.060600	-50.606	0.0027700	-12.997	0.20005	-17.800
31.600	-0.12616	-0.033300	-0.092900	-0.20249	-52.025	-0.015800	-13.016	0.18496	-17.815

31.907	-0.24407	-0.22469	-0.019400	-0.29146	-52.915	-0.031200	-13.031	0.097900	-17.902
32.214	-0.28488	-0.34644	0.061600	-0.27902	-52.790	-0.038500	-13.038	-0.028900	-18.029
32.520	-0.21137	-0.35441	0.14304	-0.16994	-51.699	-0.037100	-13.037	-0.14740	-18.147
32.827	-0.048100	-0.26361	0.21551	-0.017000	-50.170	-0.030200	-13.030	-0.21650	-18.216
33.134	0.13385	-0.13486	0.26871	0.10833	-48.917	-0.023300	-13.023	-0.21990	-18.220
33.441	0.25494	-0.039400	0.29432	0.15241	-48.476	-0.021100	-13.021	-0.17066	-18.171
33.748	0.26738	-0.021100	0.28849	0.10574	-48.943	-0.025300	-13.025	-0.10155	-18.102
34.054	0.17765	-0.076100	0.25377	0.0049500	-49.950	-0.033600	-13.034	-0.047400	-18.047
34.361	0.041100	-0.15862	0.19968	-0.088300	-50.883	-0.041700	-13.042	-0.028700	-18.029
34.668	-0.067200	-0.20855	0.14137	-0.11994	-51.199	-0.044900	-13.045	-0.043700	-18.044
34.975	-0.088900	-0.18515	0.096300	-0.070700	-50.707	-0.041200	-13.041	-0.073200	-18.073
35.282	-0.0092900	-0.088500	0.079300	0.035800	-49.642	-0.031800	-13.032	-0.092500	-18.093
35.588	0.13826	0.041300	0.097000	0.14748	-48.525	-0.020500	-13.021	-0.085700	-18.086
35.895	0.29057	0.14641	0.14416	0.21102	-47.890	-0.011600	-13.012	-0.053000	-18.053
36.202	0.38450	0.18178	0.20272	0.19933	-48.007	-0.0077000	-13.008	-0.0098500	-18.010
36.509	0.38406	0.13801	0.24604	0.12381	-48.762	-0.0086700	-13.009	0.022900	-17.977
36.816	0.29254	0.045300	0.24724	0.026700	-49.733	-0.011800	-13.012	0.030400	-17.970
37.122	0.14633	-0.043200	0.18958	-0.041800	-50.418	-0.013300	-13.013	0.011900	-17.988
37.429	-0.0043000	-0.079200	0.074900	-0.049200	-50.492	-0.010600	-13.011	-0.019400	-18.019
37.736	-0.11674	-0.043200	-0.073500	0.0036800	-49.963	-0.0032600	-13.003	-0.043600	-18.044
38.043	-0.17013	0.046900	-0.21699	0.084800	-49.152	0.0066100	-12.993	-0.044500	-18.045
38.350	-0.16744	0.14616	-0.31361	0.14880	-48.512	0.015600	-12.984	-0.018200	-18.018
38.656	-0.12765	0.20684	-0.33449	0.16068	-48.393	0.020700	-12.979	0.025500	-17.975
38.963	-0.074100	0.20200	-0.27614	0.11305	-48.869	0.020900	-12.979	0.068000	-17.932
39.270	-0.025700	0.13809	-0.16381	0.028700	-49.713	0.017500	-12.983	0.091900	-17.908
39.577	0.0066500	0.049800	-0.043200	-0.052300	-50.523	0.013400	-12.987	0.088800	-17.911
39.883	0.018500	-0.018800	0.037400	-0.093700	-50.937	0.011400	-12.989	0.063500	-17.937
40.190	0.0096700	-0.037200	0.046900	-0.080900	-50.809	0.013000	-12.987	0.030800	-17.969
40.497	-0.016900	-0.0025800	-0.014300	-0.027400	-50.274	0.017500	-12.983	0.0073300	-17.993
40.804	-0.053400	0.060100	-0.11352	0.033600	-49.664	0.022700	-12.977	0.0037500	-17.996
41.111	-0.086900	0.11238	-0.19932	0.067100	-49.329	0.025800	-12.974	0.019500	-17.980
41.417	-0.10157	0.12284	-0.22441	0.053700	-49.463	0.025200	-12.975	0.044000	-17.956
41.724	-0.085600	0.082600	-0.16821	-0.00080900	-50.008	0.020900	-12.979	0.062600	-17.937
42.031	-0.039500	0.0090000	-0.048500	-0.069800	-50.698	0.014600	-12.985	0.064200	-17.936
42.338	0.019700	-0.064600	0.084300	-0.12021	-51.202	0.0088200	-12.991	0.046800	-17.953

42.645	0.061900	-0.10605	0.16796	-0.12932	-51.293	0.0055200	-12.994	0.017700	-17.982
42.951	0.057300	-0.10067	0.15798	-0.095600	-50.956	0.0051100	-12.995	-0.010200	-18.010
43.258	-0.0074600	-0.057500	0.050000	-0.038400	-50.384	0.0064500	-12.994	-0.025500	-18.025
43.565	-0.11685	-0.0033300	-0.11353	0.013100	-49.869	0.0075100	-12.992	-0.023900	-18.024
43.872	-0.22678	0.031500	-0.25831	0.034600	-49.654	0.0064400	-12.994	-0.0094900	-18.009
44.179	-0.28000	0.028900	-0.30888	0.019000	-49.810	0.0025900	-12.997	0.0072900	-17.993
44.485	-0.23184	-0.0090700	-0.22278	-0.021400	-50.214	-0.0032300	-13.003	0.015600	-17.984
44.792	-0.074700	-0.062000	-0.012700	-0.062500	-50.625	-0.0091500	-13.009	0.0096400	-17.990
45.099	0.15119	-0.10284	0.25402	-0.080900	-50.809	-0.013200	-13.013	-0.0087400	-18.009
45.406	0.36786	-0.11169	0.47955	-0.066000	-50.660	-0.014400	-13.014	-0.031300	-18.031
45.713	0.48917	-0.085500	0.57468	-0.024700	-50.247	-0.013000	-13.013	-0.047800	-18.048
46.019	0.45747	-0.038600	0.49603	0.023100	-49.769	-0.010400	-13.010	-0.051300	-18.051
46.326	0.27139	0.0057300	0.26565	0.055500	-49.445	-0.0082600	-13.008	-0.041500	-18.042
46.633	-0.0089400	0.027100	-0.036000	0.059100	-49.409	-0.0079200	-13.008	-0.024100	-18.024
46.940	-0.28331	0.018400	-0.30166	0.035800	-49.642	-0.0094900	-13.009	-0.0079600	-18.008
47.247	-0.45130	-0.011900	-0.43935	0.00054300	-49.995	-0.012000	-13.012	-0.00046200	-18.000
47.553	-0.45365	-0.044800	-0.40886	-0.026900	-50.269	-0.014100	-13.014	-0.0038200	-18.004
47.860	-0.29684	-0.061100	-0.23577	-0.032200	-50.322	-0.014400	-13.014	-0.014500	-18.014
48.167	-0.049600	-0.051100	0.0015800	-0.013200	-50.132	-0.012600	-13.013	-0.025400	-18.025
48.474	0.18732	-0.019100	0.20646	0.019900	-49.801	-0.0093500	-13.009	-0.029700	-18.030
48.781	0.32399	0.019900	0.30406	0.050300	-49.497	-0.0059000	-13.006	-0.024400	-18.024
49.087	0.31889	0.048500	0.27040	0.063700	-49.363	-0.0034200	-13.003	-0.011800	-18.012
49.394	0.19325	0.055200	0.13801	0.055100	-49.449	-0.0024700	-13.002	0.0025800	-17.997
49.701	0.017500	0.040300	-0.022800	0.030800	-49.692	-0.0027300	-13.003	0.012200	-17.988
50.008	-0.12343	0.014400	-0.13783	0.0041300	-49.959	-0.0032700	-13.003	0.013500	-17.986
50.315	-0.16921	-0.0075100	-0.16170	-0.011900	-50.119	-0.0030200	-13.003	0.0073600	-17.993
50.621	-0.10949	-0.013900	-0.095600	-0.010800	-50.108	-0.0014000	-13.001	-0.0017100	-18.002
50.928	0.015200	-0.0022500	0.017500	0.0041300	-49.959	0.0014300	-12.999	-0.0078100	-18.008
51.235	0.13648	0.020400	0.11608	0.022600	-49.774	0.0046500	-12.995	-0.0069000	-18.007
51.542	0.19202	0.041800	0.15024	0.033300	-49.667	0.0072400	-12.993	0.0012800	-17.999
51.849	0.15491	0.051000	0.10388	0.029300	-49.707	0.0084500	-12.992	0.013300	-17.987
52.155	0.043700	0.044100	-0.00046800	0.012200	-49.878	0.0081900	-12.992	0.023700	-17.976
52.462	-0.090000	0.025400	-0.11544	-0.0098200	-50.098	0.0069900	-12.993	0.028200	-17.972
52.769	-0.18865	0.0047200	-0.19337	-0.026400	-50.264	0.0057300	-12.994	0.025400	-17.975
53.076	-0.21668	-0.0079300	-0.20875	-0.030300	-50.303	0.0051600	-12.995	0.017200	-17.983

53.383	-0.17534	-0.0075100	-0.16783	-0.021200	-50.212	0.0055800	-12.994	0.0081200	-17.992
53.689	-0.097400	0.0038400	-0.10122	-0.0052700	-50.053	0.0066800	-12.993	0.0024400	-17.998
53.996	-0.026100	0.018500	-0.044600	0.0083600	-49.916	0.0078000	-12.992	0.0023000	-17.998
54.303	0.0095100	0.027400	-0.017900	0.012300	-49.877	0.0082500	-12.992	0.0068200	-17.993
54.610	0.010200	0.025200	-0.015000	0.0047300	-49.953	0.0076700	-12.992	0.012800	-17.987
54.917	0.0034400	0.012100	-0.0087100	-0.010400	-50.104	0.0061800	-12.994	0.016300	-17.984
55.223	0.024800	-0.0058400	0.030700	-0.025300	-50.253	0.0042600	-12.996	0.015200	-17.985
55.530	0.093100	-0.020900	0.11398	-0.032900	-50.329	0.0025200	-12.997	0.0095600	-17.990
55.837	0.19378	-0.026900	0.22065	-0.030000	-50.300	0.0013500	-12.999	0.0017900	-17.998
56.144	0.28051	-0.022500	0.30305	-0.018600	-50.186	0.00078800	-12.999	-0.0047700	-18.005
56.450	0.29594	-0.011500	0.30740	-0.0043600	-50.044	0.00055200	-12.999	-0.0076500	-18.008
56.757	0.20185	2.48E-01	0.20183	0.0062300	-49.938	0.00021600	-13.000	-0.0064200	-18.006
57.064	0.0040200	0.0061700	-0.0021500	0.0094300	-49.906	-0.00052700	-13.001	-0.0027300	-18.003
57.371	-0.24188	0.0045200	-0.24639	0.0055500	-49.945	-0.0017100	-13.002	0.00067600	-17.999
57.678	-0.44807	-0.0033100	-0.44476	-0.0016200	-50.016	-0.0030800	-13.003	0.0013900	-17.999
57.984	-0.52993	-0.012800	-0.51709	-0.0071800	-50.072	-0.0042600	-13.004	-0.0014000	-18.001
58.291	-0.44321	-0.019300	-0.42391	-0.0077500	-50.078	-0.0049100	-13.005	-0.0066300	-18.007
58.598	-0.20635	-0.019900	-0.18642	-0.0029900	-50.030	-0.0049400	-13.005	-0.012000	-18.012
58.905	0.10309	-0.015200	0.11824	0.0045500	-49.955	-0.0045000	-13.005	-0.015200	-18.015
59.212	0.37738	-0.0078700	0.38525	0.011100	-49.889	-0.0039200	-13.004	-0.015000	-18.015
59.518	0.52097	-0.0017800	0.52276	0.013700	-49.863	-0.0034900	-13.003	-0.012000	-18.012
59.825	0.48815	0.00055500	0.48760	0.011700	-49.883	-0.0033800	-13.003	-0.0077200	-18.008
60.132	0.29995	-0.0011600	0.30111	0.0067000	-49.933	-0.0035200	-13.004	-0.0043400	-18.004
60.439	0.033500	-0.0051600	0.038700	0.0017100	-49.983	-0.0037000	-13.004	-0.0031700	-18.003
60.746	-0.21080	-0.0087300	-0.20207	-0.00081700	-50.008	-0.0036600	-13.004	-0.0042600	-18.004
61.052	-0.35013	-0.0097200	-0.34041	-1.67E-01	-50.000	-0.0032600	-13.003	-0.0064400	-18.006
61.359	-0.34958	-0.0074500	-0.34212	0.0031100	-49.969	-0.0025200	-13.003	-0.0080400	-18.008
61.666	-0.23091	-0.0029300	-0.22799	0.0064500	-49.935	-0.0016100	-13.002	-0.0077700	-18.008
61.973	-0.057100	0.0019600	-0.059000	0.0080300	-49.920	-0.00072500	-13.001	-0.0053400	-18.005
62.280	0.098600	0.0054000	0.093200	0.0069800	-49.930	-4.74E-01	-13.000	-0.0015300	-18.002
62.586	0.18366	0.0065100	0.17715	0.0038300	-49.962	0.00037700	-13.000	0.0023000	-17.998
62.893	0.18481	0.0055300	0.17928	2.88E-02	-50.000	0.00061700	-12.999	0.0049100	-17.995
63.200	0.12629	0.0034900	0.12281	-0.0030500	-50.030	0.00080400	-12.999	0.0057300	-17.994
63.507	0.051800	0.0016300	0.050200	-0.0045400	-50.045	0.0010500	-12.999	0.0051200	-17.995
63.814	0.00029800	0.00081100	-0.00051200	-0.0046200	-50.046	0.0014100	-12.999	0.0040200	-17.996

64.120	-0.012400	0.0012700	-0.013700	-0.0040000	-50.040	0.0018300	-12.998	0.0034300	-17.997
64.427	0.0028900	0.0027100	0.00018100	-0.0034200	-50.034	0.0022200	-12.998	0.0039100	-17.996
64.734	0.019200	0.0045900	0.014600	-0.0031900	-50.032	0.0024800	-12.998	0.0053000	-17.995
65.041	0.011700	0.0063500	0.0053900	-0.0031600	-50.032	0.0025600	-12.997	0.0069500	-17.993
65.348	-0.026900	0.0075500	-0.034500	-0.0029400	-50.029	0.0024700	-12.998	0.0080300	-17.992
65.654	-0.082400	0.0079200	-0.090300	-0.0023200	-50.023	0.0022300	-12.998	0.0080200	-17.992
65.961	-0.12706	0.0073500	-0.13441	-0.0014700	-50.015	0.0019100	-12.998	0.0069000	-17.993
66.268	-0.13594	0.0059200	-0.14186	-0.00079400	-50.008	0.0015700	-12.998	0.0051500	-17.995
66.575	-0.10138	0.0040000	-0.10538	-0.00062900	-50.006	0.0012400	-12.999	0.0033900	-17.997
66.882	-0.037900	0.0021500	-0.040100	-0.00090400	-50.009	0.00093000	-12.999	0.0021200	-17.998
67.188	0.025200	0.0010200	0.024200	-0.0011200	-50.011	0.00064600	-12.999	0.0014900	-17.999
67.495	0.060200	0.0010100	0.059200	-0.00065900	-50.007	0.00039100	-13.000	0.0012800	-17.999
67.802	0.055800	0.0020100	0.053800	0.00078300	-49.992	0.00015800	-13.000	0.0010700	-17.999
68.109	0.024100	0.0033300	0.020800	0.0028600	-49.971	-6,17E-01	-13.000	0.00052900	-17.999
68.416	-0.0057200	0.0039500	-0.0096700	0.0046700	-49.953	-0.00028400	-13.000	-0.00044000	-18.000
68.722	-0.0044900	0.0029900	-0.0074900	0.0051800	-49.948	-0.00051600	-13.001	-0.0016700	-18.002
69.029	0.039600	0.00026400	0.039300	0.0038700	-49.961	-0.00075000	-13.001	-0.0028600	-18.003
69.336	0.11141	-0.0035500	0.11496	0.0011200	-49.989	-0.00095200	-13.001	-0.0037200	-18.004
69.643	0.17383	-0.0070600	0.18089	-0.0018600	-50.019	-0.0010700	-13.001	-0.0041300	-18.004
69.950	0.18554	-0.0088300	0.19437	-0.0035800	-50.036	-0.0010800	-13.001	-0.0041700	-18.004
70.256	0.12320	-0.0080700	0.13127	-0.0031100	-50.031	-0.00095900	-13.001	-0.0040100	-18.004
70.563	-0.0033100	-0.0051200	0.0018200	-0.00054200	-50.005	-0.00075800	-13.001	-0.0038200	-18.004
70.870	-0.15101	-0.0013600	-0.14965	0.0028900	-49.971	-0.00055800	-13.001	-0.0036900	-18.004
71.177	-0.26082	0.0014500	-0.26227	0.0054400	-49.946	-0.00044500	-13.000	-0.0035500	-18.004
71.484	-0.28393	0.0020000	-0.28593	0.0057700	-49.942	-0.00046500	-13.000	-0.0033100	-18.003
71.790	-0.20544	0.00013800	-0.20557	0.0036100	-49.964	-0.00060000	-13.001	-0.0028700	-18.003
72.097	-0.053400	-0.0030100	-0.050400	-7,75E-02	-50.000	-0.00076200	-13.001	-0.0022400	-18.002
72.404	0.11187	-0.0056200	0.11749	-0.0033000	-50.033	-0.00083800	-13.001	-0.0014800	-18.001
72.711	0.22360	-0.0061000	0.22970	-0.0046400	-50.046	-0.00073700	-13.001	-0.00071600	-18.001
73.017	0.23863	-0.0039300	0.24256	-0.0034600	-50.035	-0.00044000	-13.000	-3,03E-01	-18.000
73.324	0.15660	1,32E-02	0.15660	-0.00051300	-50.005	-1,35E-01	-13.000	0.00052800	-17.999
73.631	0.019800	0.0038500	0.015900	0.0024700	-49.975	0.00041700	-13.000	0.00095800	-17.999
73.938	-0.10717	0.0057400	-0.11291	0.0037400	-49.963	0.00072400	-12.999	0.0012700	-17.999
74.245	-0.16754	0.0047800	-0.17232	0.0024500	-49.976	0.00084200	-12.999	0.0014900	-17.999
74.551	-0.13911	0.0015100	-0.14062	-0.00087500	-50.009	0.00078900	-12.999	0.0016000	-17.998

74.858	-0.043700	-0.0023000	-0.041400	-0.0045800	-50.046	0.00066100	-12.999	0.0016200	-17.998
75.165	0.064800	-0.0046000	0.069400	-0.0068000	-50.068	0.00057500	-12.999	0.0016300	-17.998
75.472	0.12777	-0.0041000	0.13187	-0.0064100	-50.064	0.00061000	-12.999	0.0017100	-17.998
75.779	0.11170	-0.00099000	0.11269	-0.0036800	-50.037	0.00076500	-12.999	0.0019300	-17.998
76.085	0.025400	0.0031600	0.022200	-9,77E-01	-50.001	0.00096000	-12.999	0.0022900	-17.998
76.392	-0.084200	0.0061800	-0.090400	0.0024100	-49.976	0.0010800	-12.999	0.0026900	-17.997
76.699	-0.15549	0.0064600	-0.16194	0.0025300	-49.975	0.0010200	-12.999	0.0029000	-17.997
77.006	-0.14401	0.0037700	-0.14777	0.00026500	-49.997	0.00078000	-12.999	0.0027200	-17.997
77.313	-0.046600	-0.00058000	-0.046000	-0.0030300	-50.030	0.00041700	-13.000	0.0020300	-17.998
77.619	0.094700	-0.0043900	0.099100	-0.0053700	-50.054	4,92E-01	-13.000	0.00093200	-17.999
77.926	0.21059	-0.0057300	0.21632	-0.0052300	-50.052	-0.00021500	-13.000	-0.00029300	-18.000
78.233	0.23831	-0.0039100	0.24221	-0.0023200	-50.023	-0.00033000	-13.000	-0.0012500	-18.001
78.540	0.15261	0.00014800	0.15246	0.0021200	-49.979	-0.00033200	-13.000	-0.0016400	-18.002
78.847	-0.019100	0.0043600	-0.023500	0.0060300	-49.940	-0.00031300	-13.000	-0.0013600	-18.001
79.153	-0.20664	0.0065600	-0.21320	0.0075300	-49.925	-0.00036700	-13.000	-0.00060700	-18.001
79.460	-0.32759	0.0055800	-0.33317	0.0059000	-49.941	-0.00053900	-13.001	0.00022400	-18.000
79.767	-0.32474	0.0018900	-0.32663	0.0019800	-49.980	-0.00079200	-13.001	0.00069900	-17.999
80.074	-0.19294	-0.0027200	-0.19022	-0.0022300	-50.022	-0.0010300	-13.001	0.00054900	-17.999
80.381	0.017400	-0.0059700	0.023400	-0.0046000	-50.046	-0.0011600	-13.001	-0.00020800	-18.000
80.687	0.22214	-0.0063000	0.22845	-0.0039100	-50.039	-0.0011100	-13.001	-0.0012800	-18.001
80.994	0.34033	-0.0036200	0.34395	-0.00045600	-50.005	-0.00092100	-13.001	-0.0022400	-18.002
81.301	0.32972	0.00067300	0.32905	0.0041100	-49.959	-0.00068000	-13.001	-0.0027600	-18.003
81.608	0.20408	0.0044100	0.19967	0.0076200	-49.924	-0.00050800	-13.001	-0.0027100	-18.003
81.915	0.024900	0.0057500	0.019100	0.0084700	-49.915	-0.00048400	-13.000	-0.0022400	-18.002
82.221	-0.12834	0.0040800	-0.13242	0.0063500	-49.936	-0.00060400	-13.001	-0.0016700	-18.002
82.528	-0.19477	0.00029800	-0.19507	0.0023700	-49.976	-0.00078300	-13.001	-0.0012900	-18.001
82.835	-0.15889	-0.0036900	-0.15519	-0.0015800	-50.016	-0.00089000	-13.001	-0.0012200	-18.001
83.142	-0.054700	-0.0059600	-0.048800	-0.0038000	-50.038	-0.00081400	-13.001	-0.0013400	-18.001
83.449	0.053500	-0.0054700	0.058900	-0.0036000	-50.036	-0.00052100	-13.001	-0.0013500	-18.001
83.755	0.10399	-0.0026100	0.10660	-0.0015500	-50.016	-6,70E-01	-13.000	-0.00099700	-18.001
84.062	0.068400	0.0011100	0.067300	0.00086300	-49.991	0.00042600	-13.000	-0.00018000	-18.000
84.369	-0.035100	0.0038200	-0.038900	0.0020700	-49.979	0.00082500	-12.999	0.00092800	-17.999
84.676	-0.15193	0.0042400	-0.15617	0.0012200	-49.988	0.0010500	-12.999	0.0019700	-17.998
84.983	-0.21810	0.0022600	-0.22036	-0.0013900	-50.014	0.0010800	-12.999	0.0025600	-17.997
85.289	-0.19258	-0.0010500	-0.19153	-0.0045600	-50.046	0.0010100	-12.999	0.0025000	-17.997

85.596	-0.077600	-0.0040200	-0.073600	-0.0068100	-50.068	0.00091300	-12.999	0.0018800	-17.998
85.903	0.081700	-0.0052300	0.087000	-0.0071300	-50.071	0.00087800	-12.999	0.0010200	-17.999
86.210	0.21858	-0.0041500	0.22273	-0.0054400	-50.054	0.00091800	-12.999	0.00036500	-18.000
86.517	0.27544	-0.0013700	0.27681	-0.0025800	-50.026	0.00098900	-12.999	0.00021900	-18.000
86.823	0.23041	0.0018200	0.22859	0.00018200	-49.998	0.0010100	-12.999	0.00062900	-17.999
87.130	0.10635	0.0040700	0.10228	0.0017900	-49.982	0.00092500	-12.999	0.0013500	-17.999
87.437	-0.041100	0.0046100	-0.045700	0.0019100	-49.981	0.00070900	-12.999	0.0020000	-17.998
87.744	-0.14998	0.0035600	-0.15354	0.00095700	-49.990	0.00040900	-13.000	0.0021900	-17.998
88.050	-0.18056	0.0017500	-0.18231	-0.00016600	-50.002	0.00010800	-13.000	0.0018100	-17.998
88.357	-0.13164	0.00024900	-0.13189	-0.00062700	-50.006	-0.00011100	-13.000	0.00098600	-17.999
88.664	-0.038300	-0.00021600	-0.038100	-8,57E-01	-50.001	-0.00020000	-13.000	6,95E-01	-18.000
88.971	0.047600	0.00043700	0.047200	0.0011800	-49.988	-0.00016900	-13.000	-0.00057000	-18.001
89.278	0.083400	0.0016800	0.081700	0.0024700	-49.975	-7,21E-01	-13.000	-0.00072000	-18.001
89.584	0.055900	0.0027000	0.053200	0.0031200	-49.969	1,76E-01	-13.000	-0.00043000	-18.000
89.891	-0.014300	0.0028900	-0.017100	0.0028200	-49.972	4,50E-01	-13.000	2,98E-01	-18.000
90.198	-0.085000	0.0021000	-0.087100	0.0018000	-49.982	-7,06E-02	-13.000	0.00031300	-18.000
90.505	-0.11541	0.00070500	-0.11611	0.00064800	-49.994	-0.00011700	-13.000	0.00017400	-18.000
90.812	-0.086400	-0.00065300	-0.085700	-4,25E-02	-50.000	-0.00024200	-13.000	-0.00040700	-18.000
91.118	-0.010100	-0.0014100	-0.0086800	0.00015400	-49.998	-0.00034300	-13.000	-0.0012200	-18.001
91.425	0.077100	-0.0013700	0.078500	0.00098200	-49.990	-0.00040500	-13.000	-0.0019500	-18.002
91.732	0.13346	-0.00074400	0.13420	0.0019900	-49.980	-0.00043700	-13.000	-0.0022900	-18.002
92.039	0.13312	-2,89E-01	0.13315	0.0025900	-49.974	-0.00046200	-13.000	-0.0021600	-18.002
92.346	0.078600	0.00029400	0.078300	0.0024300	-49.976	-0.00050100	-13.001	-0.0016400	-18.002
92.652	-0.0010800	-8,34E-02	-0.0010700	0.0015300	-49.985	-0.00055500	-13.001	-0.00098700	-18.001
92.959	-0.065700	-0.00083000	-0.064900	0.00023800	-49.998	-0.00060700	-13.001	-0.00046000	-18.000
93.266	-0.084500	-0.0018100	-0.082600	-0.00098200	-50.010	-0.00062800	-13.001	-0.00020200	-18.000
93.573	-0.051700	-0.0025500	-0.049100	-0.0017600	-50.018	-0.00059500	-13.001	-0.00018800	-18.000
93.880	0.010600	-0.0027800	0.013300	-0.0020100	-50.020	-0.00050400	-13.001	-0.00026600	-18.000
94.186	0.063900	-0.0025000	0.066400	-0.0018700	-50.019	-0.00037000	-13.000	-0.00026100	-18.000
94.493	0.073800	-0.0019400	0.075700	-0.0016300	-50.016	-0.00022600	-13.000	-8,45E-01	-18.000
94.800	0.027800	-0.0013900	0.029100	-0.0015000	-50.015	-0.00010400	-13.000	0.00021600	-18.000
95.107	-0.056700	-0.0011000	-0.055600	-0.0015600	-50.016	-2,57E-01	-13.000	0.00048600	-18.000
95.414	-0.13916	-0.0011700	-0.13800	-0.0017300	-50.017	6,92E-02	-13.000	0.00055800	-17.999
95.720	-0.17511	-0.0014800	-0.17363	-0.0018500	-50.019	7,31E-02	-13.000	0.00035800	-18.000
96.027	-0.13752	-0.0018500	-0.13567	-0.0018000	-50.018	-3,43E-02	-13.000	-4,11E-01	-18.000

96.334	-0.031200	-0.0020200	-0.029200	-0.0015700	-50.016	-6,26E-02	-13.000	-0.00044100	-18.000
96.641	0.10686	-0.0018300	0.10870	-0.0012400	-50.012	9,39E-02	-13.000	-0.00060900	-18.001
96.948	0.22223	-0.0012200	0.22345	-0.00086500	-50.009	4,43E-01	-13.000	-0.00039600	-18.000
97.254	0.26571	-0.00021800	0.26592	-0.00050000	-50.005	9,25E-01	-13.000	0.00019000	-18.000
97.561	0.21470	0.0010000	0.21369	-0.00011900	-50.001	0.00014500	-13.000	0.00097700	-17.999
97.868	0.083700	0.0022100	0.081500	0.00031200	-49.997	0.00019500	-13.000	0.0017000	-17.998
98.175	-0.080600	0.0031200	-0.083700	0.00077400	-49.992	0.00023600	-13.000	0.0021100	-17.998
98.482	-0.21758	0.0035300	-0.22111	0.0011700	-49.988	0.00026600	-13.000	0.0020900	-17.998
98.788	-0.27647	0.0033100	-0.27978	0.0013600	-49.986	0.00028300	-13.000	0.0016600	-17.998
99.095	-0.23616	0.0025500	-0.23870	0.0012600	-49.987	0.00029100	-13.000	0.00099600	-17.999
99.402	-0.11306	0.0015000	-0.11456	0.00090800	-49.991	0.00029400	-13.000	0.00030200	-18.000
99.709	0.045700	0.00056100	0.045200	0.00049900	-49.995	0.00029900	-13.000	-0.00023800	-18.000