

[illegible]

Company information:	
Name:	LandTest Limited
Address:	300 Cashel Street
Zip code:	8011
City:	Christchurch
P.IVA:	
E-Mail:	info@landtest.co.nz
Phone number:	0800 837837
Fax number:	
Site information:	
Name:	Marlborough Stop Banks
Date:	20/02/2017
Commissioner:	
Locality:	Marlborough
Test information:	
Name:	WAT1
Location:	WAT1
Date:	20/02/2017
Prehole mode:	
Prehole depth [cm]:	0
Hydrostatic line [cm]:	0
Ground level [m]:	0
Latitude:	-41.463596
Longitude:	173.977313
Operator:	Gray Lewis
Comments:	
Probe code:	MKJ330



LandTest

subsurface **ground** investigation

	Qc	Fs	Speed	U2	Tilt	a Factor					
Factors:	192460	31343	10	16925	150151	0.8					
Zeros:	2262	3743	0	16017	7014						
Depth [m]	Qc [MPa]	Fs [KPa]	U2 [KPa]	Rf [%]	U2/Qc [%]	Qc-U2 [MPa]	Tilt [°]	Dist [cm]	Speed [cm/sec]	Qt [MPa]	U2-U0 [KPa]
0.01	0.01	0	-1.89	0	-18.9	0.01189	3.4	0.059306	0.7	0.009622	-1.9881
0.02	0.02	0	2.72	0	13.6	0.01728	2.3	0.099438	0.7	0.020544	2.5238
0.03	0.35	0.41	18.2	0.117143	5.2	0.3318	2.3	0.13957	2	0.35364	17.9057
0.04	0.82	0.32	17.84	0.039024	2.17561	0.80216	2.4	0.181446	2	0.823568	17.4476
0.05	1.58	0.26	18.02	0.016456	1.140506	1.56198	2.6	0.226809	2	1.583604	17.5295
0.06	1.81	0.51	18.26	0.028177	1.00884	1.79174	2.6	0.272172	2	1.813652	17.6714
0.07	2.09	0.73	17.61	0.034928	0.842584	2.07239	2.6	0.317535	2	2.093522	16.9233
0.08	2.36	0.89	14.71	0.037712	0.623305	2.34529	2.6	0.362898	2	2.362942	13.9252
0.09	2.47	3.8	11.64	0.153846	0.471255	2.45836	2.6	0.408261	2	2.472328	10.7571
0.1	2.66	10.24	9.1	0.384962	0.342105	2.6509	2.6	0.453624	2	2.66182	8.119
0.11	2.78	13.4	8.69	0.482014	0.31259	2.77131	2.6	0.498987	2	2.781738	7.6109
0.12	2.78	16.91	8.39	0.608273	0.301799	2.77161	2.6	0.54435	2	2.781678	7.2128
0.13	2.91	20.8	8.33	0.714777	0.286254	2.90167	2.6	0.589713	2	2.911666	7.0547
0.14	3.1	23.51	8.27	0.758387	0.266774	3.09173	2.6	0.635075	2	3.101654	6.8966
0.15	3.21	26.32	8.33	0.819938	0.259502	3.20167	2.6	0.680438	2	3.211666	6.8585
0.16	3.2	29.9	8.09	0.934375	0.252812	3.19191	2.6	0.725801	2	3.201618	6.5204
0.17	3.04	37.11	6.85	1.220724	0.225329	3.03315	2.6	0.771164	2	3.04137	5.1823
0.18	2.02	58.42	6.2	2.892079	0.306931	2.0138	2.6	0.816527	2	2.02124	4.4342
0.19	2.24	56.76	6.68	2.533929	0.298214	2.23332	2.6	0.86189	2	2.241336	4.8161
0.2	2.77	55.07	7.21	1.988087	0.260289	2.76279	2.7	0.908997	2	2.771442	5.248
0.21	3.23	57.14	7.5	1.76904	0.232198	3.2225	2.7	0.956103	2	3.2315	5.4399
0.22	3.46	61.77	4.49	1.78526	0.129769	3.45551	2.6	1.001466	2	3.460898	2.3318
0.23	3.12	74.15	3.37	2.376603	0.108013	3.11663	2.7	1.048573	2	3.120674	1.1137
0.24	2.75	95.49	3.07	3.472364	0.111636	2.74693	2.7	1.095679	2	2.750614	0.7156
0.25	2.88	107.46	2.78	3.73125	0.096528	2.87722	2.7	1.142786	2	2.880556	0.3275
0.26	3.16	106.69	2.36	3.376266	0.074684	3.15764	2.7	1.189892	2	3.160472	-0.1906
0.27	2.64	113.04	2.19	4.281818	0.082955	2.63781	2.7	1.236999	2	2.640438	-0.4587
0.28	2.73	115.97	2.19	4.247985	0.08022	2.72781	2.7	1.284105	2	2.730438	-0.5568
0.29	3.11	119.52	1.95	3.843087	0.062701	3.10805	2.7	1.331211	2	3.11039	-0.8949
0.3	3.11	119.55	1.95	3.844051	0.062701	3.10805	2.7	1.378318	2	3.11039	-0.993
0.31	3.1	115.62	1.95	3.729677	0.062903	3.09805	2.7	1.425424	2	3.10039	-1.0911
0.32	3.21	111.83	1.95	3.483801	0.060748	3.20805	2.7	1.472531	2	3.21039	-1.1892
0.33	3.19	109.47	1.95	3.431661	0.061129	3.18805	2.7	1.519637	2	3.19039	-1.2873
0.34	2.88	113.39	1.83	3.937153	0.063542	2.87817	2.7	1.566744	2	2.880366	-1.5054
0.35	2.7	113.87	1.77	4.217407	0.065556	2.69823	2.7	1.61385	2	2.700354	-1.6635
0.36	2.54	113.68	1.65	4.475591	0.064961	2.53835	2.7	1.660957	2	2.54033	-1.8816
0.37	2.46	117.76	1.65	4.786992	0.067073	2.45835	2.7	1.708063	2	2.46033	-1.9797
0.38	2.53	111.13	1.6	4.39249	0.063241	2.5284	2.7	1.75517	2	2.53032	-2.1278
0.39	2.38	101.23	1.54	4.253361	0.064706	2.37846	2.7	1.802276	2	2.380308	-2.2859

0.4	2.15	97.66	1.54	4.542326	0.071628	2.14846	2.7	1.849382	2	2.150308	-2.384
0.41	2.18	92.37	1.54	4.237156	0.070642	2.17846	2.7	1.896489	2	2.180308	-2.4821
0.42	1.97	89.11	1.54	4.52335	0.078173	1.96846	2.7	1.943595	2	1.970308	-2.5802
0.43	1.93	86.88	1.54	4.501554	0.079793	1.92846	2.7	1.990702	2	1.930308	-2.6783
0.44	1.91	86.14	1.54	4.509948	0.080628	1.90846	2.7	2.037808	2	1.910308	-2.7764
0.45	1.58	83.97	1.48	5.314557	0.093671	1.57852	2.7	2.084915	2.1	1.580296	-2.9345
0.46	1.43	79.92	1.42	5.588811	0.099301	1.42858	2.7	2.132021	2.1	1.430284	-3.0926
0.47	1.41	76.48	1.48	5.424113	0.104965	1.40852	2.7	2.179128	2	1.410296	-3.1307
0.48	1.37	72.58	1.42	5.29781	0.10365	1.36858	2.7	2.226234	2	1.370284	-3.2888
0.49	1.21	70.1	1.36	5.793388	0.112397	1.20864	2.7	2.27334	2	1.210272	-3.4469
0.5	1.2	67.32	1.36	5.61	0.113333	1.19864	2.7	2.320447	2	1.200272	-3.545
0.51	1.29	64.54	1.36	5.003101	0.105426	1.28864	2.7	2.367553	2	1.290272	-3.6431
0.52	1.37	56.22	1.42	4.10365	0.10365	1.36858	2.7	2.41466	2	1.370284	-3.6812
0.53	1.46	51.3	1.48	3.513699	0.10137	1.45852	2.7	2.461766	2	1.460296	-3.7193
0.54	1.36	46.9	1.42	3.448529	0.104412	1.35858	2.7	2.508873	2	1.360284	-3.8774
0.55	1.45	44.38	1.48	3.06069	0.102069	1.44852	2.7	2.555979	2	1.450296	-3.9155
0.56	1.65	42.08	1.48	2.550303	0.089697	1.64852	2.7	2.603086	2	1.650296	-4.0136
0.57	1.77	39.47	1.48	2.229944	0.083616	1.76852	2.7	2.650192	2	1.770296	-4.1117
0.58	1.48	35.83	1.54	2.420946	0.104054	1.47846	2.7	2.697299	2	1.480308	-4.1498
0.59	1.4	34.43	1.6	2.459286	0.114286	1.3984	2.7	2.744405	2	1.40032	-4.1879
0.6	1.25	32.86	1.6	2.6288	0.128	1.2484	2.7	2.791511	2	1.25032	-4.286
0.61	1.35	31.11	1.65	2.304444	0.122222	1.34835	2.7	2.838618	2	1.35033	-4.3341
0.62	1.42	29.13	1.65	2.051408	0.116197	1.41835	2.7	2.885724	2	1.42033	-4.4322
0.63	1.46	27.47	1.65	1.881507	0.113014	1.45835	2.7	2.932831	2	1.46033	-4.5303
0.64	1.48	24.53	1.6	1.657432	0.108108	1.4784	2.7	2.979937	2	1.48032	-4.6784
0.65	1.48	23.23	1.65	1.569595	0.111486	1.47835	2.7	3.027044	2	1.48033	-4.7265
0.66	1.47	22.24	1.6	1.512925	0.108844	1.4684	2.7	3.07415	2	1.47032	-4.8746
0.67	1.47	21.76	1.6	1.480272	0.108844	1.4684	2.8	3.123	2	1.47032	-4.9727
0.68	1.47	21.66	1.6	1.473469	0.108844	1.4684	2.8	3.17185	2	1.47032	-5.0708
0.69	1.48	21.79	1.6	1.472297	0.108108	1.4784	2.8	3.220699	2	1.48032	-5.1689
0.7	1.48	21.98	1.6	1.485135	0.108108	1.4784	2.8	3.269549	2	1.48032	-5.267
0.71	1.48	21.5	1.6	1.452703	0.108108	1.4784	2.8	3.318399	2	1.48032	-5.3651
0.72	1.48	21.18	1.54	1.431081	0.104054	1.47846	2.8	3.367249	2	1.480308	-5.5232
0.73	1.39	21.22	1.54	1.526619	0.110791	1.38846	2.8	3.416099	2	1.390308	-5.6213
0.74	1.35	21.82	1.54	1.616296	0.114074	1.34846	2.8	3.464948	2	1.350308	-5.7194
0.75	1.35	22.65	1.54	1.677778	0.114074	1.34846	2.8	3.513798	2	1.350308	-5.8175
0.76	1.37	23.55	1.54	1.718978	0.112409	1.36846	2.8	3.562648	2	1.370308	-5.9156
0.77	1.48	24.5	1.54	1.655405	0.104054	1.47846	2.8	3.611498	2	1.480308	-6.0137
0.78	1.57	24.73	1.54	1.575159	0.098089	1.56846	2.8	3.660347	2	1.570308	-6.1118
0.79	1.63	24.73	1.54	1.517178	0.094479	1.62846	2.8	3.709197	2	1.630308	-6.2099
0.8	1.68	24.69	1.54	1.469643	0.091667	1.67846	2.8	3.758047	2	1.680308	-6.308
0.81	1.66	24.98	1.54	1.504819	0.092771	1.65846	2.8	3.806897	2	1.660308	-6.4061
0.82	1.65	25.68	1.54	1.556364	0.093333	1.64846	2.8	3.855746	2	1.650308	-6.5042
0.83	1.66	26	1.54	1.566265	0.092771	1.65846	2.8	3.904596	2	1.660308	-6.6023
0.84	1.67	26.07	1.54	1.561078	0.092216	1.66846	2.9	3.955189	2	1.670308	-6.7004
0.85	1.68	26.26	1.54	1.563095	0.091667	1.67846	2.8	4.004039	2	1.680308	-6.7985
0.86	1.68	26.26	1.54	1.563095	0.091667	1.67846	2.8	4.052889	0	1.680308	-6.8966
0.87	1.68	26.26	1.54	1.563095	0.091667	1.67846	2.8	4.101738	3	1.680308	-6.9947
0.88	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.152331	3	0.38007	-8.2828
0.89	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.202924	3	0.38007	-8.3809
0.9	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.253517	3	0.38007	-8.479
0.91	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.30411	3	0.38007	-8.5771
0.92	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.354703	3	0.38007	-8.6752
0.93	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.405296	3	0.38007	-8.7733
0.94	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.455889	3	0.38007	-8.8714
0.95	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.506482	3	0.38007	-8.9695
0.96	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.557075	3	0.38007	-9.0676
0.97	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.607668	10.5	0.38007	-9.1657
0.98	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.658261	10.5	0.38007	-9.2638
0.99	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.708854	10.5	0.38007	-9.3619
1	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.759447	10.5	0.38007	-9.46
1.01	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.81004	10.5	0.38007	-9.5581
1.02	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.860633	10.5	0.38007	-9.6562
1.03	0.38	0.13	0.35	0.034211	0.092105	0.37965	2.9	4.911226	10.5	0.38007	-9.7543
1.04	0.39	0.13	0.3	0.033333	0.076923	0.3897	2.9	4.961818	10.5	0.39006	-9.9024
1.05	0.39	0.13	0.3	0.033333	0.076923	0.3897	2.9	5.012411	10.5	0.39006	-10.0005
1.06	0.39	0.13	0.3	0.033333	0.076923	0.3897	2.9	5.063004	10.5	0.39006	-10.0986
1.07	0.39	0.13	0.3	0.033333	0.076923	0.3897	2.9	5.113597	10.5	0.39006	-10.1967
1.08	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.16419	10.5	0.38006	-10.2948
1.09	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.214783	10.5	0.38006	-10.3929
1.1	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.265376	10.5	0.38006	-10.491
1.11	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.315969	10.5	0.38006	-10.5891

1.12	0.38	0.1	0.3	0.026316	0.078947	0.3797	2.9	5.366562	10.5	0.38006	-10.6872
1.13	0.38	0.1	0.3	0.026316	0.078947	0.3797	2.9	5.417155	10.5	0.38006	-10.7853
1.14	0.38	0.1	0.3	0.026316	0.078947	0.3797	2.9	5.467748	10.5	0.38006	-10.8834
1.15	0.38	0.1	0.3	0.026316	0.078947	0.3797	2.9	5.518341	10.5	0.38006	-10.9815
1.16	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.568934	10.5	0.38006	-11.0796
1.17	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.619527	10.5	0.38006	-11.1777
1.18	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.67012	10.5	0.38006	-11.2758
1.19	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.720713	10.5	0.38006	-11.3739
1.2	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	5.771306	10.5	0.38006	-11.472
1.21	0.38	0.1	0.35	0.026316	0.092105	0.37965	2.8	5.820155	10.5	0.38007	-11.5201
1.22	0.38	0.1	0.35	0.026316	0.092105	0.37965	2.8	5.869005	10.5	0.38007	-11.6182
1.23	0.38	0.1	0.35	0.026316	0.092105	0.37965	2.8	5.917855	10.5	0.38007	-11.7163
1.24	0.38	0.1	0.35	0.026316	0.092105	0.37965	2.8	5.966705	10.5	0.38007	-11.8144
1.25	0.38	0.1	0.35	0.026316	0.092105	0.37965	2.8	6.015554	10.5	0.38007	-11.9125
1.26	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.066147	10.5	0.38006	-12.0606
1.27	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.11674	10.5	0.38006	-12.1587
1.28	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.167333	10.5	0.38006	-12.2568
1.29	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.217926	10.5	0.38006	-12.3549
1.3	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.268519	10.5	0.38006	-12.453
1.31	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.319112	10.5	0.38006	-12.5511
1.32	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.369705	10.5	0.38006	-12.6492
1.33	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.420298	10.5	0.38006	-12.7473
1.34	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.470891	10.5	0.38006	-12.8454
1.35	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.521484	10.5	0.38006	-12.9435
1.36	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.572077	10.5	0.38006	-13.0416
1.37	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.62267	10.5	0.38006	-13.1397
1.38	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.673263	10.6	0.38006	-13.2378
1.39	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.723856	10.6	0.38006	-13.3359
1.4	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.774448	10.6	0.38006	-13.434
1.41	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.825041	10.6	0.38006	-13.5321
1.42	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.875634	10.6	0.38006	-13.6302
1.43	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.926227	10.6	0.38006	-13.7283
1.44	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	6.97682	10.6	0.38006	-13.8264
1.45	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.027413	10.6	0.38006	-13.9245
1.46	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.078006	10.6	0.38006	-14.0226
1.47	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.128599	10.6	0.38006	-14.1207
1.48	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.177449	10.6	0.38006	-14.2188
1.49	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.226299	10.5	0.38006	-14.3169
1.5	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.275148	10.5	0.38006	-14.415
1.51	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.323998	10.5	0.38006	-14.5131
1.52	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.372848	10.5	0.38006	-14.6112
1.53	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.421698	10.5	0.38006	-14.7093
1.54	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.470547	10.5	0.38006	-14.8074
1.55	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.519397	10.5	0.38006	-14.9055
1.56	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.8	7.568247	10.5	0.38006	-15.0036
1.57	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.61884	10.5	0.38006	-15.1017
1.58	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.669433	10.5	0.38006	-15.1998
1.59	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.720026	10.6	0.38006	-15.2979
1.6	0.38	0.13	0.3	0.034211	0.078947	0.3797	2.9	7.770619	10.6	0.38006	-15.396
1.61	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.8	7.819469	10.6	0.380048	-15.5541
1.62	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.8	7.868318	10.6	0.380048	-15.6522
1.63	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.8	7.917168	10.6	0.380048	-15.7503
1.64	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.8	7.966018	10.6	0.380048	-15.8484
1.65	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.8	8.014868	10.6	0.380048	-15.9465
1.66	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.065461	10.6	0.380048	-16.0446
1.67	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.116053	10.6	0.380048	-16.1427
1.68	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.166646	10.6	0.380048	-16.2408
1.69	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.217239	10.6	0.380048	-16.3389
1.7	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.267832	10.5	0.380048	-16.437
1.71	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.318425	10.5	0.380048	-16.5351
1.72	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.369018	10.5	0.380048	-16.6332
1.73	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.419611	10.5	0.380048	-16.7313
1.74	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.470204	10.5	0.380048	-16.8294
1.75	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.520797	10.5	0.380048	-16.9275
1.76	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.57139	10.5	0.380048	-17.0256
1.77	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.621983	10.5	0.380048	-17.1237
1.78	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.672576	10.5	0.380048	-17.2218
1.79	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.723169	10.5	0.380048	-17.3199
1.8	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.773762	10.5	0.380048	-17.418
1.81	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.824355	10.6	0.380048	-17.5161
1.82	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.874948	10.6	0.380048	-17.6142
1.83	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	8.925541	10.6	0.380048	-17.7123

1.84	0.38	0.16	0.24	0.042105	0.063158	0.37976	2.9	8.976133	10.6	0.380048	-17.8104
1.85	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	9.026726	10.6	0.380048	-17.9085
1.86	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	9.077319	1.5	0.380048	-18.0066
1.87	0.38	0.13	0.24	0.034211	0.063158	0.37976	2.9	9.127912	2.2	0.380048	-18.1047
1.88	0.79	0.38	-0.47	0.048101	-0.059494	0.79047	2.8	9.176762	2.2	0.789906	-18.9128
1.89	1.58	21.15	-0.35	1.338608	-0.022152	1.58035	2.9	9.227355	2	1.57993	-18.8909
1.9	1.6	21.06	-0.35	1.31625	-0.021875	1.60035	2.8	9.276205	2	1.59993	-18.989
1.91	1.57	21.22	-0.41	1.351592	-0.026115	1.57041	2.9	9.326798	2.2	1.569918	-19.1471
1.92	1.53	21.31	-0.35	1.39281	-0.022876	1.53035	2.8	9.375647	2.2	1.52993	-19.1852
1.93	1.54	21.82	-0.41	1.416883	-0.026623	1.54041	2.9	9.42624	2.1	1.539918	-19.3433
1.94	1.54	21.82	-0.41	1.416883	-0.026623	1.54041	2.9	9.476833	2.1	1.539918	-19.4414
1.95	1.54	22.33	-0.35	1.45	-0.022727	1.54035	2.9	9.527426	2.2	1.53993	-19.4795
1.96	1.56	22.27	-0.41	1.427564	-0.026282	1.56041	2.9	9.578019	2.2	1.559918	-19.6376
1.97	1.58	22.11	-0.47	1.399367	-0.029747	1.58047	2.9	9.628612	2.1	1.579906	-19.7957
1.98	1.6	21.98	-0.47	1.37375	-0.029375	1.60047	2.9	9.679205	2.1	1.599906	-19.8938
1.99	1.6	22.21	-0.59	1.388125	-0.036875	1.60059	2.9	9.729798	2.2	1.599882	-20.1119
2	1.57	22.65	-0.65	1.442675	-0.041401	1.57065	2.9	9.780391	2.2	1.56987	-20.27
2.01	1.51	24.95	-0.71	1.652318	-0.04702	1.51071	2.9	9.830984	2.1	1.509858	-20.4281
2.02	1.46	26.55	-0.77	1.818493	-0.05274	1.46077	3	9.88332	2.1	1.459846	-20.5862
2.03	1.45	30.44	-0.77	2.09931	-0.053103	1.45077	2.8	9.93217	2.1	1.449846	-20.6843
2.04	1.47	31.04	-0.77	2.111565	-0.052381	1.47077	2.9	9.982763	2.1	1.469846	-20.7824
2.05	1.5	31.17	-0.77	2.078	-0.051333	1.50077	2.9	10.033356	2	1.499846	-20.8805
2.06	1.52	31.3	-0.83	2.059211	-0.054605	1.52083	2.9	10.083948	2	1.519834	-21.0386
2.07	1.53	32.03	-0.89	2.093464	-0.05817	1.53089	2.9	10.134541	2	1.529822	-21.1967
2.08	1.51	33.44	-0.83	2.21457	-0.054967	1.51083	2.9	10.185134	2	1.509834	-21.2348
2.09	1.48	35.61	-0.83	2.406081	-0.056081	1.48083	2.9	10.235727	2.1	1.479834	-21.3329
2.1	1.48	37.23	-0.83	2.515541	-0.056081	1.48083	2.9	10.28632	2.1	1.479834	-21.431
2.11	1.45	38.92	-0.89	2.684138	-0.061379	1.45089	2.9	10.336913	2	1.449822	-21.5891
2.12	1.45	39.82	-0.89	2.746207	-0.061379	1.45089	2.9	10.387506	2	1.449822	-21.6872
2.13	1.45	40.55	-0.89	2.796552	-0.061379	1.45089	2.9	10.438099	2	1.449822	-21.7853
2.14	1.44	41.44	-0.95	2.877778	-0.065972	1.44095	2.9	10.488692	2	1.43981	-21.9434
2.15	1.43	42.63	-0.95	2.981119	-0.066434	1.43095	2.9	10.539285	2	1.42981	-22.0415
2.16	1.39	46.01	-1.12	3.310072	-0.080576	1.39112	2.8	10.588135	2	1.389776	-22.3096
2.17	1.32	46.49	-1.18	3.52197	-0.089394	1.32118	2.8	10.636984	2	1.319764	-22.4677
2.18	1.28	46.39	-1.24	3.624219	-0.096875	1.28124	2.8	10.685834	2	1.279752	-22.6258
2.19	1.25	47.51	-1.3	3.8008	-0.104	1.2513	2.8	10.734684	2	1.24974	-22.7839
2.2	1.22	48.88	-1.3	4.006557	-0.106557	1.2213	2.8	10.783534	2	1.21974	-22.882
2.21	1.17	49.45	-1.3	4.226496	-0.111111	1.1713	2.8	10.832384	2	1.16974	-22.9801
2.22	1.09	49.77	-1.42	4.566055	-0.130275	1.09142	3	10.884719	2	1.089716	-23.1982
2.23	1.06	48.69	-1.6	4.593396	-0.150943	1.0616	3	10.937055	2	1.05968	-23.4763
2.24	1.03	48.02	-1.71	4.662136	-0.166019	1.03171	3	10.989391	2	1.029658	-23.6844
2.25	1.01	46.42	-1.83	4.59604	-0.181188	1.01183	3	11.041727	2	1.009634	-23.9025
2.26	0.99	44.95	-1.95	4.540404	-0.19697	0.99195	3	11.094063	2	0.98961	-24.1206
2.27	0.91	42.63	-1.89	4.684615	-0.207692	0.91189	3	11.146399	2	0.909622	-24.1587
2.28	0.88	41.22	-1.89	4.684091	-0.214773	0.88189	3	11.198735	2	0.879622	-24.2568
2.29	0.85	40.01	-1.89	4.707059	-0.222353	0.85189	3	11.251071	2	0.849622	-24.3549
2.3	0.83	39.08	-1.89	4.708434	-0.227711	0.83189	3	11.303407	2	0.829622	-24.453
2.31	0.81	37.62	-1.89	4.644444	-0.233333	0.81189	3	11.355743	2	0.809622	-24.5511
2.32	0.79	36.88	-1.89	4.668354	-0.239241	0.79189	3	11.408079	2	0.789622	-24.6492
2.33	0.79	34.94	-1.89	4.422785	-0.239241	0.79189	3	11.460415	2	0.789622	-24.7473
2.34	0.78	33.5	-1.83	4.294872	-0.234615	0.78183	3	11.512751	2	0.779634	-24.7854
2.35	0.76	32.67	-1.89	4.298684	-0.248684	0.76189	3	11.565087	2	0.759622	-24.9435
2.36	0.75	32.22	-1.95	4.296	-0.26	0.75195	3	11.617423	2	0.74961	-25.1016
2.37	0.75	32.89	-2.25	4.385333	-0.3	0.75225	3	11.669759	2.1	0.74955	-25.4997
2.38	0.75	34.36	-2.95	4.581333	-0.393333	0.75295	3	11.722095	2.1	0.74941	-26.2978
2.39	0.77	35.13	-3.31	4.562338	-0.42987	0.77331	3	11.774431	2	0.769338	-26.7559
2.4	0.79	35.13	-3.6	4.446835	-0.455696	0.7936	3	11.826767	2	0.78928	-27.144
2.41	0.82	34.9	-3.84	4.256098	-0.468293	0.82384	3	11.879103	2	0.819232	-27.4821
2.42	0.85	33.95	-4.08	3.994118	-0.48	0.85408	3	11.931439	2	0.849184	-27.8202
2.43	0.86	33.56	-4.25	3.902326	-0.494186	0.86425	3	11.983775	2	0.85915	-28.0883
2.44	0.85	33.09	-4.49	3.892941	-0.528235	0.85449	3	12.036111	2	0.849102	-28.4264
2.45	0.85	33.12	-4.79	3.896471	-0.563529	0.85479	3	12.088446	2	0.849042	-28.8245
2.46	0.83	33.12	-5.08	3.990361	-0.612048	0.83508	3	12.140782	2	0.828984	-29.2126
2.47	0.81	32.86	-5.44	4.05679	-0.671605	0.81544	3.1	12.194861	2	0.808912	-29.6707
2.48	0.77	33.31	-5.85	4.325974	-0.75974	0.77585	3.1	12.24894	2	0.76883	-30.1788
2.49	0.72	33.63	-6.62	4.670833	-0.919444	0.72662	3.1	12.303019	2	0.718676	-31.0469
2.5	0.69	32.64	-6.91	4.730435	-1.001449	0.69691	3.1	12.357098	2	0.688618	-31.435
2.51	0.66	31.68	-7.21	4.8	-1.092424	0.66721	3.1	12.411177	2	0.658558	-31.8331
2.52	0.62	29.7	-7.39	4.790323	-1.191935	0.62739	3.1	12.465255	2	0.618522	-32.1112
2.53	0.59	28.36	-7.44	4.80678	-1.261017	0.59744	3.1	12.519334	2	0.588512	-32.2593
2.54	0.57	27.12	-7.5	4.757895	-1.315789	0.5775	3.1	12.573413	2	0.5685	-32.4174
2.55	0.55	26.13	-7.5	4.750909	-1.363636	0.5575	3.1	12.627492	2	0.5485	-32.5155

2.56	0.54	25.65	-7.44	4.75	-1.377778	0.54744	3.1	12.681571	2	0.538512	-32.5536
2.57	0.55	24.85	-7.39	4.518182	-1.343636	0.55739	3.1	12.735649	2	0.548522	-32.6017
2.58	0.59	23.77	-7.39	4.028814	-1.252542	0.59739	3.1	12.789728	2	0.588522	-32.6998
2.59	0.64	22.62	-7.33	3.534375	-1.145312	0.64733	3.1	12.843807	2	0.638534	-32.7379
2.6	0.75	20.48	-7.33	2.730667	-0.977333	0.75733	3.1	12.897886	2	0.748534	-32.836
2.61	0.78	19.4	-7.27	2.487179	-0.932051	0.78727	3.1	12.951965	2	0.778546	-32.8741
2.62	0.81	19.02	-7.33	2.348148	-0.904938	0.81733	3.1	13.006043	2	0.808534	-33.0322
2.63	0.84	19.65	-7.44	2.339286	-0.885714	0.84744	3	13.058379	2	0.838512	-33.2403
2.64	0.86	20.23	-7.74	2.352326	-0.9	0.86774	3	13.110715	2	0.858452	-33.6384
2.65	0.86	21.5	-8.04	2.5	-0.934884	0.86804	3.1	13.164794	2	0.858392	-34.0365
2.66	0.83	24.69	-8.74	2.974699	-1.053012	0.83874	3	13.21713	2	0.828252	-34.8346
2.67	0.82	25.84	-9.16	3.15122	-1.117073	0.82916	3	13.269466	2	0.818168	-35.3527
2.68	0.82	27.15	-9.51	3.310976	-1.159756	0.82951	3	13.321802	2	0.818098	-35.8008
2.69	0.82	28.75	-9.75	3.506098	-1.189024	0.82975	3	13.374138	2	0.81805	-36.1389
2.7	0.82	30.28	-9.81	3.692683	-1.196341	0.82981	3.2	13.42996	2	0.818038	-36.297
2.71	0.83	31.49	-9.81	3.793976	-1.181928	0.83981	3.2	13.485781	2	0.828038	-36.3951
2.72	0.86	33.12	-10.1	3.851163	-1.174419	0.8701	3.2	13.541603	2	0.85798	-36.7832
2.73	0.87	33.76	-10.16	3.88046	-1.167816	0.88016	3.2	13.597424	2	0.867968	-36.9413
2.74	0.89	34.33	-10.34	3.857303	-1.161798	0.90034	3.2	13.653246	2	0.887932	-37.2194
2.75	0.91	35.32	-10.52	3.881319	-1.156044	0.92052	3.2	13.709067	2	0.907896	-37.4975
2.76	0.93	36.44	-10.75	3.91828	-1.155914	0.94075	3.2	13.764889	2	0.92785	-37.8256
2.77	0.95	37.3	-11.05	3.926316	-1.163158	0.96105	3.2	13.82071	2	0.94779	-38.2237
2.78	0.86	36.4	-11.17	4.232558	-1.298837	0.87117	3.2	13.876532	2	0.857766	-38.4418
2.79	0.81	36.05	-11.17	4.450617	-1.379012	0.82117	3.2	13.932353	2	0.807766	-38.5399
2.8	0.77	35.57	-11.17	4.619481	-1.450649	0.78117	3.2	13.988175	2	0.767766	-38.638
2.81	0.75	35.48	-11.11	4.730667	-1.481333	0.76111	3.2	14.043996	2	0.747778	-38.6761
2.82	0.73	35.93	-11.17	4.921918	-1.530137	0.74117	3.2	14.099818	2	0.727766	-38.8342
2.83	0.7	36.44	-11.17	5.205714	-1.595714	0.71117	3.2	14.155639	2	0.697766	-38.9323
2.84	0.68	36.69	-11.11	5.395588	-1.633824	0.69111	3.2	14.211461	2	0.677778	-38.9704
2.85	0.69	36.88	-11.11	5.344928	-1.610145	0.70111	3.2	14.267282	2	0.687778	-39.0685
2.86	0.69	36.63	-11.23	5.308696	-1.627536	0.70123	3.2	14.323104	2	0.687754	-39.2866
2.87	0.67	35.96	-11.4	5.367164	-1.701493	0.6814	3.2	14.378925	2	0.66772	-39.5547
2.88	0.66	35.48	-11.46	5.375758	-1.736364	0.67146	3.2	14.434747	2	0.657708	-39.7128
2.89	0.66	35.48	-11.46	5.375758	-1.736364	0.67146	3.2	14.490568	2	0.657708	-39.8109
2.9	0.66	35.48	-11.46	5.375758	-1.736364	0.67146	3.2	14.54639	2	0.657708	-39.909
2.91	0.75	29.1	-10.93	3.88	-1.457333	0.76093	3.2	14.602211	2	0.747814	-39.4771
2.92	0.78	28.71	-10.75	3.680769	-1.378205	0.79075	3.2	14.658033	1.9	0.77785	-39.3952
2.93	0.86	27.6	-10.69	3.209302	-1.243023	0.87069	3.2	14.713854	1.9	0.857862	-39.4333
2.94	0.96	26.07	-10.64	2.715625	-1.108333	0.97064	3.3	14.771418	2	0.957872	-39.4814
2.95	1.05	26.13	-10.58	2.488571	-1.007619	1.06058	3.2	14.82724	2	1.047884	-39.5195
2.96	1.13	27.22	-10.52	2.40885	-0.930973	1.14052	3.3	14.884804	2	1.127896	-39.5576
2.97	1.15	29.96	-10.93	2.605217	-0.950435	1.16093	3.3	14.942368	2	1.147814	-40.0657
2.98	1.1	31.08	-11.29	2.825455	-1.026364	1.11129	3.3	14.999932	2	1.097742	-40.5238
2.99	1.03	31.68	-11.64	3.075728	-1.130097	1.04164	3.3	15.057496	2	1.027672	-40.9719
3	0.99	32.54	-12.29	3.286869	-1.241414	1.00229	3.3	15.11506	2	0.987542	-41.72
3.01	0.91	33.05	-12.64	3.631868	-1.389011	0.92264	3.3	15.172624	2	0.907472	-42.1681
3.02	0.93	32.54	-12.53	3.498925	-1.347312	0.94253	3.3	15.230188	2	0.927494	-42.1562
3.03	1.05	24.82	-12.23	2.36381	-1.164762	1.06223	3.3	15.287752	2	1.047554	-41.9543
3.04	1.17	22.01	-12.05	1.881197	-1.029915	1.18205	3.3	15.345316	2	1.16759	-41.8724
3.05	1.29	21.98	-11.94	1.703876	-0.925581	1.30194	3.3	15.40288	2	1.287612	-41.8605
3.06	1.4	25.24	-11.94	1.802857	-0.852857	1.41194	3.3	15.460444	2	1.397612	-41.9586
3.07	1.43	28.75	-12.29	2.01049	-0.859441	1.44229	3.4	15.51975	2	1.427542	-42.4067
3.08	1.32	36.15	-14.42	2.738636	-1.092424	1.33442	3.3	15.577314	2	1.317116	-44.6348
3.09	1.24	38.7	-15.42	3.120968	-1.243548	1.25542	3.4	15.636621	2	1.236916	-45.7329
3.1	1.17	40.46	-16.37	3.45812	-1.399145	1.18637	3.4	15.695927	2	1.166726	-46.781
3.11	1.08	41.44	-17.67	3.837037	-1.636111	1.09767	3.4	15.755233	2	1.076466	-48.1791
3.12	1.01	41.92	-18.43	4.150495	-1.824752	1.02843	3.4	15.81454	2	1.006314	-49.0372
3.13	0.95	42.05	-18.79	4.426316	-1.977895	0.96879	3.4	15.873846	2	0.946242	-49.4953
3.14	0.87	38.96	-18.85	4.478161	-2.166667	0.88885	3.4	15.933153	2	0.86623	-49.6534
3.15	0.84	36.08	-18.73	4.295238	-2.229762	0.85873	3.4	15.992459	2	0.836254	-49.6315
3.16	0.82	33.47	-18.67	4.081707	-2.276829	0.83867	3.4	16.051765	2	0.816266	-49.6696
3.17	0.79	31.2	-18.61	3.949367	-2.355696	0.80861	3.4	16.111072	2	0.786278	-49.7077
3.18	0.77	29.13	-18.61	3.783117	-2.416883	0.78861	3.4	16.170378	2	0.766278	-49.8058
3.19	0.77	26.77	-18.49	3.476623	-2.401299	0.78849	3.4	16.229684	2	0.766302	-49.7839
3.2	0.79	20.48	-18.26	2.592405	-2.311392	0.80826	3.4	16.288991	2	0.786348	-49.652
3.21	0.82	16.94	-18.08	2.065854	-2.204878	0.83808	3.4	16.348297	2	0.816384	-49.5701
3.22	0.85	15.25	-17.96	1.794118	-2.112941	0.86796	3.4	16.407604	2	0.846408	-49.5482
3.23	0.89	15.73	-17.84	1.767416	-2.004494	0.90784	3.4	16.46691	2	0.886432	-49.5263
3.24	0.91	16.69	-17.9	1.834066	-1.967033	0.9279	3.4	16.526216	2	0.90642	-49.6844
3.25	0.92	17.96	-17.96	1.952174	-1.952174	0.93796	3.4	16.585523	2	0.916408	-49.8425
3.26	0.87	22.05	-18.43	2.534483	-2.118391	0.88843	3.4	16.644829	2	0.866314	-50.4106
3.27	0.81	24.44	-18.67	3.017284	-2.304938	0.82867	3.4	16.704135	2	0.806266	-50.7487

3.28	0.76	25.68	-18.97	3.378947	-2.496053	0.77897	3.4	16.763442	2	0.756206	-51.1468
3.29	0.72	26.96	-19.14	3.744444	-2.658333	0.73914	3.4	16.822748	2	0.716172	-51.4149
3.3	0.7	27.76	-19.38	3.965714	-2.768571	0.71938	3.4	16.882055	2	0.696124	-51.753
3.31	0.66	28.14	-19.5	4.263636	-2.954545	0.6795	3.4	16.941361	2	0.6561	-51.9711
3.32	0.63	28.65	-19.26	4.547619	-3.057143	0.64926	3.4	17.000667	2	0.626148	-51.8292
3.33	0.63	28.11	-19.26	4.461905	-3.057143	0.64926	3.4	17.059974	2	0.626148	-51.9273
3.34	0.65	26.99	-19.2	4.152308	-2.953846	0.6692	3.4	17.11928	2	0.64616	-51.9654
3.35	0.69	27.15	-19.14	3.934783	-2.773913	0.70914	3.5	17.180329	2	0.686172	-52.0035
3.36	0.71	27.95	-19.08	3.93662	-2.687324	0.72908	3.5	17.241377	2	0.706184	-52.0416
3.37	0.72	28.3	-19.03	3.930556	-2.643056	0.73903	3.4	17.300684	2	0.716194	-52.0897
3.38	0.71	26.64	-19.08	3.752113	-2.687324	0.72908	3.5	17.361732	2	0.706184	-52.2378
3.39	0.7	24.25	-19.03	3.464286	-2.718571	0.71903	3.5	17.422781	2	0.696194	-52.2859
3.4	0.69	23.04	-19.03	3.33913	-2.757971	0.70903	3.5	17.483829	2	0.686194	-52.384
3.41	0.68	21.92	-19.03	3.223529	-2.798529	0.69903	3.5	17.544878	2	0.676194	-52.4821
3.42	0.66	20.61	-18.97	3.122727	-2.874242	0.67897	3.5	17.605926	2	0.656206	-52.5202
3.43	0.64	19.62	-18.91	3.065625	-2.954688	0.65891	3.5	17.666975	2	0.636218	-52.5583
3.44	0.67	19.05	-18.73	2.843284	-2.795522	0.68873	3.5	17.728023	2	0.666254	-52.4764
3.45	0.68	18.82	-18.73	2.767647	-2.754412	0.69873	3.5	17.789072	2	0.676254	-52.5745
3.46	0.66	18.47	-18.73	2.798485	-2.837879	0.67873	3.5	17.85012	2	0.656254	-52.6726
3.47	0.64	18.41	-18.73	2.876562	-2.926562	0.65873	3.5	17.911169	2	0.636254	-52.7707
3.48	0.64	19.3	-18.73	3.015625	-2.926562	0.65873	3.5	17.972217	2	0.636254	-52.8688
3.49	0.64	20	-18.73	3.125	-2.926562	0.65873	3.5	18.033266	2	0.636254	-52.9669
3.5	0.62	20.87	-18.79	3.366129	-3.030645	0.63879	3.5	18.094315	2	0.616242	-53.125
3.51	0.59	20.61	-18.79	3.49322	-3.184746	0.60879	3.5	18.155363	2	0.586242	-53.2231
3.52	0.55	20.29	-18.73	3.689091	-3.405455	0.56873	3.5	18.216412	2	0.546254	-53.2612
3.53	0.52	19.69	-18.61	3.786538	-3.578846	0.53861	3.5	18.27746	2	0.516278	-53.2393
3.54	0.51	18.6	-18.55	3.647059	-3.637255	0.52855	3.5	18.338509	2	0.50629	-53.2774
3.55	0.57	16.27	-18.43	2.854386	-3.233333	0.58843	3.5	18.399557	2	0.566314	-53.2555
3.56	0.68	15.19	-18.38	2.233824	-2.702941	0.69838	3.5	18.460606	2	0.676324	-53.3036
3.57	0.88	15.12	-18.26	1.718182	-2.075	0.89826	3.5	18.521654	2	0.876348	-53.2817
3.58	1.25	15.54	-18.08	1.2432	-1.4464	1.26808	3.5	18.582703	2	1.246384	-53.1998
3.59	1.64	16.11	-17.96	0.982317	-1.095122	1.65796	3.5	18.643751	2	1.636408	-53.1779
3.6	1.88	16.34	-18.2	0.869149	-0.968085	1.8982	3.5	18.7048	2	1.87636	-53.516
3.61	1.88	16.43	-18.32	0.873936	-0.974468	1.89832	3.5	18.765848	2	1.876336	-53.7341
3.62	1.59	14.17	-4.67	0.891195	-0.293711	1.59467	3.5	18.826897	2	1.589066	-40.1822
3.63	1.43	13.4	-4.73	0.937063	-0.330769	1.43473	3.6	18.889688	2	1.429054	-40.3403
3.64	1.3	13.18	-4.73	1.013846	-0.363846	1.30473	3.6	18.952478	2	1.299054	-40.4384
3.65	1.2	13.4	-4.79	1.116667	-0.399167	1.20479	3.6	19.015269	2	1.199042	-40.5965
3.66	1.1	13.75	-4.84	1.25	-0.44	1.10484	3.6	19.078059	2	1.099032	-40.7446
3.67	1.01	14.55	-4.84	1.440594	-0.479208	1.01484	3.6	19.14085	2	1.009032	-40.8427
3.68	0.89	17.39	-4.9	1.953933	-0.550562	0.8949	3.6	19.20364	2	0.88902	-41.0008
3.69	0.85	18.54	-4.84	2.181176	-0.569412	0.85484	3.6	19.266431	2	0.849032	-41.0389
3.7	0.82	19.21	-4.79	2.342683	-0.584146	0.82479	3.6	19.329221	2	0.819042	-41.087
3.71	0.81	19.4	-4.79	2.395062	-0.591358	0.81479	3.6	19.392012	2	0.809042	-41.1851
3.72	0.79	19.27	-4.73	2.439241	-0.598734	0.79473	3.6	19.454802	2	0.789054	-41.2232
3.73	0.78	19.24	-4.73	2.466667	-0.60641	0.78473	3.6	19.517593	2	0.779054	-41.3213
3.74	0.77	19.43	-4.73	2.523377	-0.614286	0.77473	3.6	19.580383	2	0.769054	-41.4194
3.75	0.74	19.17	-4.73	2.590541	-0.639189	0.74473	3.6	19.643174	2	0.739054	-41.5175
3.76	0.7	18.76	-4.79	2.68	-0.684286	0.70479	3.6	19.705964	2	0.699042	-41.6756
3.77	0.65	18.06	-4.9	2.778462	-0.753846	0.6549	3.6	19.768755	2	0.64902	-41.8837
3.78	0.6	17.23	-4.9	2.871667	-0.816667	0.6049	3.6	19.831545	2	0.59902	-41.9818
3.79	0.55	15.86	-4.9	2.883636	-0.890909	0.5549	3.6	19.894336	2	0.54902	-42.0799
3.8	0.5	13.81	-4.84	2.762	-0.968	0.50484	3.6	19.957126	2	0.499032	-42.118
3.81	0.42	9.7	-4.79	2.309524	-1.140476	0.42479	3.6	20.019917	2	0.419042	-42.1661
3.82	0.42	8.49	-4.73	2.021429	-1.12619	0.42473	3.6	20.082707	2	0.419054	-42.2042
3.83	0.44	8.17	-4.61	1.856818	-1.047727	0.44461	3.6	20.145498	2	0.439078	-42.1823
3.84	0.48	8.07	-4.55	1.68125	-0.947917	0.48455	3.7	20.21003	2	0.47909	-42.2204
3.85	0.51	8.17	-4.55	1.601961	-0.892157	0.51455	3.7	20.274563	2	0.50909	-42.3185
3.86	0.59	9.28	-4.49	1.572881	-0.761017	0.59449	3.7	20.339095	2	0.589102	-42.3566
3.87	0.62	9.7	-4.49	1.564516	-0.724194	0.62449	3.7	20.403627	2	0.619102	-42.4547
3.88	0.63	9.89	-4.49	1.569841	-0.712698	0.63449	3.7	20.468159	2	0.629102	-42.5528
3.89	0.63	9.89	-4.49	1.569841	-0.712698	0.63449	3.7	20.532692	2	0.629102	-42.6509
3.9	0.63	9.89	-4.49	1.569841	-0.712698	0.63449	3.7	20.597224	2	0.629102	-42.749
3.91	0.68	10.98	-4.14	1.614706	-0.608824	0.68414	3.6	20.660015	2	0.679172	-42.4971
3.92	0.62	11.07	-4.25	1.785484	-0.685484	0.62425	3.6	20.722805	2	0.61915	-42.7052
3.93	0.59	11.39	-4.25	1.930508	-0.720339	0.59425	3.6	20.785596	2	0.58915	-42.8033
3.94	0.55	11.2	-4.19	2.036364	-0.761818	0.55419	3.7	20.850128	2	0.549162	-42.8414
3.95	0.52	10.46	-4.19	2.011538	-0.805769	0.52419	3.7	20.91466	2	0.519162	-42.9395
3.96	0.48	9.83	-4.14	2.047917	-0.8625	0.48414	3.7	20.979193	2	0.479172	-42.9876
3.97	0.47	10.05	-4.14	2.138298	-0.880851	0.47414	3.7	21.043725	2	0.469172	-43.0857
3.98	0.49	10.11	-4.08	2.063265	-0.832653	0.49408	3.7	21.108257	2	0.489184	-43.1238
3.99	0.51	10.27	-4.02	2.013725	-0.788235	0.51402	3.7	21.172789	2	0.509196	-43.1619

4	0.55	10.78	-3.96	1.96	-0.72	0.55396	3.7	21.237322	2	0.549208	-43.2
4.01	0.63	11.9	-3.96	1.888889	-0.628571	0.63396	3.7	21.301854	2	0.629208	-43.2981
4.02	0.65	11.84	-3.96	1.821538	-0.609231	0.65396	3.7	21.366386	2	0.649208	-43.3962
4.03	0.64	12.6	-3.96	1.96875	-0.61875	0.64396	3.7	21.430919	2	0.639208	-43.4943
4.04	0.63	12.28	-3.96	1.949206	-0.628571	0.63396	3.7	21.495451	2	0.629208	-43.5924
4.05	0.61	12.06	-3.96	1.977049	-0.64918	0.61396	3.8	21.561725	2	0.609208	-43.6905
4.06	0.6	11.68	-3.96	1.946667	-0.66	0.60396	3.8	21.627999	2	0.599208	-43.7886
4.07	0.58	11.2	-3.9	1.931034	-0.672414	0.5839	3.8	21.694273	2	0.57922	-43.8267
4.08	0.58	10.72	-3.84	1.848276	-0.662069	0.58384	3.8	21.760547	2	0.579232	-43.8648
4.09	0.61	10.94	-3.78	1.793443	-0.619672	0.61378	3.8	21.826821	2	0.609244	-43.9029
4.1	0.64	11.42	-3.78	1.784375	-0.590625	0.64378	3.8	21.893094	2	0.639244	-44.001
4.11	0.64	11.13	-3.84	1.739062	-0.6	0.64384	3.8	21.959368	2	0.639232	-44.1591
4.12	0.62	10.78	-3.78	1.73871	-0.609677	0.62378	3.8	22.025642	2	0.619244	-44.1972
4.13	0.59	10.21	-3.84	1.730508	-0.650847	0.59384	3.8	22.091916	2	0.589232	-44.3553
4.14	0.55	9.09	-3.78	1.652727	-0.687273	0.55378	3.8	22.15819	2	0.549244	-44.3934
4.15	0.54	9.32	-3.72	1.725926	-0.688889	0.54372	3.9	22.226205	2	0.539256	-44.4315
4.16	0.54	9.67	-3.72	1.790741	-0.688889	0.54372	3.9	22.294221	2	0.539256	-44.5296
4.17	0.55	9.67	-3.66	1.758182	-0.665455	0.55366	3.8	22.360495	2	0.549268	-44.5677
4.18	0.56	9.73	-3.66	1.7375	-0.653571	0.56366	3.9	22.42851	2	0.559268	-44.6658
4.19	0.59	9.54	-3.66	1.616949	-0.620339	0.59366	3.8	22.494784	2	0.589268	-44.7639
4.2	0.68	9.35	-3.55	1.375	-0.522059	0.68355	3.9	22.562799	2	0.67929	-44.752
4.21	0.74	9.6	-3.55	1.297297	-0.47973	0.74355	3.9	22.630814	2	0.73929	-44.8501
4.22	0.87	10.34	-3.49	1.188506	-0.401149	0.87349	3.9	22.69883	2	0.869302	-44.8882
4.23	1.05	11.52	-3.43	1.097143	-0.326667	1.05343	3.9	22.766845	2.1	1.049314	-44.9263
4.24	1.28	12.73	-3.43	0.994531	-0.267969	1.28343	3.9	22.83486	2.1	1.279314	-45.0244
4.25	1.49	13.85	-3.43	0.92953	-0.230201	1.49343	3.9	22.902875	2	1.489314	-45.1225
4.26	1.9	16.27	-4.02	0.856316	-0.211579	1.90402	3.9	22.970891	2	1.899196	-45.8106
4.27	2.14	17.07	-4.61	0.797664	-0.215421	2.14461	3.9	23.038906	2	2.139078	-46.4987
4.28	2.37	17.55	-5.2	0.740506	-0.219409	2.3752	3.9	23.106921	2	2.36896	-47.1868
4.29	2.55	16.91	-5.32	0.663137	-0.208627	2.55532	3.9	23.174937	2	2.548936	-47.4049
4.3	2.63	16.37	-5.49	0.622433	-0.208745	2.63549	3.9	23.242952	2	2.628902	-47.673
4.31	2.69	16.02	-5.85	0.595539	-0.217472	2.69585	3.9	23.310967	2	2.68883	-48.1311
4.32	2.74	16.05	-6.97	0.585766	-0.25438	2.74697	3.9	23.378982	2	2.738606	-49.3492
4.33	2.75	15.6	-7.15	0.567273	-0.26	2.75715	3.9	23.446998	2	2.74857	-49.6273
4.34	2.73	14.04	-7.21	0.514286	-0.264103	2.73721	3.9	23.515013	2	2.728558	-49.7854
4.35	2.7	12.57	-7.15	0.465556	-0.264815	2.70715	3.9	23.583028	2	2.69857	-49.8235
4.36	2.68	11.55	-7.09	0.43097	-0.264552	2.68709	3.9	23.651044	2	2.678582	-49.8616
4.37	2.68	10.98	-7.03	0.409701	-0.262313	2.68703	3.9	23.719059	2	2.678594	-49.8997
4.38	2.69	11.29	-6.97	0.419703	-0.259108	2.69697	3.9	23.787074	2	2.688606	-49.9378
4.39	2.7	11.84	-6.97	0.438519	-0.258148	2.70697	3.9	23.85509	2	2.698606	-50.0359
4.4	2.69	12.38	-6.97	0.460223	-0.259108	2.69697	3.9	23.923105	2	2.688606	-50.134
4.41	2.67	12.86	-6.91	0.481648	-0.258801	2.67691	3.9	23.99112	2	2.668618	-50.1721
4.42	2.65	13.24	-6.91	0.499623	-0.260755	2.65691	3.9	24.059135	2	2.648618	-50.2702
4.43	2.59	13.56	-6.91	0.523552	-0.266795	2.59691	3.9	24.127151	2	2.588618	-50.3683
4.44	2.44	14.74	-6.91	0.604098	-0.283197	2.44691	3.9	24.195166	2	2.438618	-50.4664
4.45	2.36	15.47	-6.85	0.655508	-0.290254	2.36685	3.9	24.263181	2	2.35863	-50.5045
4.46	2.28	16.34	-6.91	0.716667	-0.30307	2.28691	3.9	24.331197	2	2.278618	-50.6626
4.47	2.21	16.91	-6.91	0.765158	-0.31267	2.21691	3.9	24.399212	2	2.208618	-50.7607
4.48	2.14	17.07	-6.97	0.797664	-0.325701	2.14697	3.9	24.467227	2	2.138606	-50.9188
4.49	2.07	17.01	-7.03	0.821739	-0.339614	2.07703	3.9	24.535242	2	2.068594	-51.0769
4.5	2.01	16.88	-6.97	0.839801	-0.346766	2.01697	3.9	24.603258	2	2.008606	-51.115
4.51	1.89	16.91	-6.91	0.894709	-0.365608	1.89691	3.9	24.671273	2	1.888618	-51.1531
4.52	1.84	16.75	-6.91	0.910326	-0.375543	1.84691	3.9	24.739288	2	1.838618	-51.2512
4.53	1.78	16.69	-6.97	0.93764	-0.391573	1.78697	3.9	24.807304	2	1.778606	-51.4093
4.54	1.7	16.72	-6.97	0.983529	-0.41	1.70697	3.9	24.875319	2	1.698606	-51.5074
4.55	1.64	16.53	-6.97	1.007927	-0.425	1.64697	3.9	24.943334	2	1.638606	-51.6055
4.56	1.5	15.25	-6.91	1.016667	-0.460667	1.50691	3.9	25.011349	2	1.498618	-51.6436
4.57	1.47	14.29	-6.91	0.972109	-0.470068	1.47691	3.9	25.079365	2	1.468618	-51.7417
4.58	1.43	13.34	-6.91	0.932867	-0.483217	1.43691	3.9	25.14738	2	1.428618	-51.8398
4.59	1.41	12.54	-6.85	0.889362	-0.485816	1.41685	3.9	25.215395	2	1.40863	-51.8779
4.6	1.42	12.09	-6.79	0.851408	-0.478169	1.42679	3.9	25.283411	2	1.418642	-51.916
4.61	1.48	12.25	-6.79	0.827703	-0.458784	1.48679	3.9	25.351426	2	1.478642	-52.0141
4.62	1.66	13.72	-6.79	0.826506	-0.409036	1.66679	3.9	25.419441	2	1.658642	-52.1122
4.63	1.78	14.45	-6.74	0.811798	-0.378652	1.78674	4.1	25.490939	2	1.778652	-52.1603
4.64	1.91	15.12	-6.79	0.791623	-0.355497	1.91679	4.1	25.562436	2	1.908642	-52.3084
4.65	2.04	15.35	-6.85	0.752451	-0.335784	2.04685	4.1	25.633934	2	2.03863	-52.4665
4.66	2.16	15.35	-7.09	0.710648	-0.328241	2.16709	4.1	25.705431	2	2.158582	-52.8046
4.67	2.24	14.96	-7.39	0.667857	-0.329911	2.24739	4.1	25.776928	2	2.238522	-53.2027
4.68	2.31	14.61	-8.74	0.632468	-0.378355	2.31874	4.1	25.848426	2	2.308252	-54.6508
4.69	2.33	15	-9.63	0.643777	-0.413305	2.33963	4.1	25.919923	2	2.328074	-55.6389
4.7	2.36	15.25	-10.4	0.646186	-0.440678	2.3704	4.1	25.991421	2	2.35792	-56.507
4.71	2.39	15.38	-10.99	0.643515	-0.459833	2.40099	4.1	26.062918	2	2.387802	-57.1951

4.72	2.4	15.06	-11.46	0.6275	-0.4775	2.41146	4.1	26.134416	2	2.397708	-57.7632
4.73	2.43	14.96	-11.82	0.615638	-0.48642	2.44182	4.1	26.205913	2	2.427636	-58.2213
4.74	2.43	13.66	-12.05	0.56214	-0.495885	2.44205	4.1	26.277411	2	2.42759	-58.5494
4.75	2.41	12.89	-12.11	0.534855	-0.50249	2.42211	4.1	26.348908	2	2.407578	-58.7075
4.76	2.34	11.93	-12.29	0.509829	-0.525214	2.35229	4.1	26.420405	2	2.337542	-58.9856
4.77	2.28	11.07	-12.64	0.485526	-0.554386	2.29264	4.1	26.491903	2	2.277472	-59.4337
4.78	2.18	10.75	-12.82	0.493119	-0.588073	2.19282	4.1	26.5634	2	2.177436	-59.7118
4.79	1.98	8.97	-12.76	0.45303	-0.644444	1.99276	4.1	26.634898	2	1.977448	-59.7499
4.8	1.89	8.36	-12.7	0.442328	-0.671958	1.9027	4.1	26.706395	2	1.88746	-59.788
4.81	1.8	8.07	-12.7	0.448333	-0.705556	1.8127	4.1	26.777893	2	1.79746	-59.8861
4.82	1.73	8.1	-12.7	0.468208	-0.734104	1.7427	4.1	26.84939	2	1.72746	-59.9842
4.83	1.67	8.36	-12.64	0.500599	-0.756886	1.68264	4.1	26.920888	2	1.667472	-60.0223
4.84	1.62	8.81	-12.64	0.543827	-0.780247	1.63264	4.1	26.992385	2	1.617472	-60.1204
4.85	1.57	9.51	-12.64	0.605732	-0.805096	1.58264	4.1	27.063882	2	1.567472	-60.2185
4.86	1.49	10.69	-12.58	0.71745	-0.844295	1.50258	4.1	27.13538	2	1.487484	-60.2566
4.87	1.42	11.01	-12.53	0.775352	-0.882394	1.43253	4.1	27.206877	2	1.417494	-60.3047
4.88	1.37	11.42	-12.53	0.833577	-0.914599	1.38253	4.1	27.278375	2	1.367494	-60.4028
4.89	1.37	11.42	-12.53	0.833577	-0.914599	1.38253	4.1	27.349872	2	1.367494	-60.5009
4.9	1.37	11.42	-12.53	0.833577	-0.914599	1.38253	4.1	27.42137	2	1.367494	-60.599
4.91	1.24	10.69	-11.29	0.862097	-0.910484	1.25129	4.1	27.492867	2	1.237742	-59.4571
4.92	1.15	10.69	-11.29	0.929565	-0.981739	1.16129	4.1	27.564365	2	1.147742	-59.5552
4.93	1.05	11.01	-11.29	1.048571	-1.075238	1.06129	4.1	27.635862	2	1.047742	-59.6533
4.94	0.95	11.42	-11.29	1.202105	-1.188421	0.96129	4.1	27.707359	2	0.947742	-59.7514
4.95	0.86	12.03	-11.29	1.398837	-1.312791	0.87129	4.1	27.778857	2	0.857742	-59.8495
4.96	0.77	12.92	-11.23	1.677922	-1.458442	0.78123	4.1	27.850354	2	0.767754	-59.8876
4.97	0.63	14.33	-11.17	2.274603	-1.773016	0.64117	4.1	27.921852	2	0.627766	-59.9257
4.98	0.59	14.8	-11.17	2.508475	-1.89322	0.60117	4.2	27.99509	2	0.587766	-60.0238
4.99	0.57	15.35	-11.11	2.692982	-1.949123	0.58111	4.2	28.068328	2	0.567778	-60.0619
5	0.55	15.51	-11.05	2.82	-2.009091	0.56105	4.2	28.141566	2	0.54779	-60.1
5.01	0.5	15.89	-10.99	3.178	-2.198	0.51099	4.2	28.214805	2	0.497802	-60.1381
5.02	0.49	16.85	-10.87	3.438776	-2.218367	0.50087	4.2	28.288043	2	0.487826	-60.1162
5.03	0.51	16.27	-10.87	3.190196	-2.131373	0.52087	4.2	28.361281	2	0.507826	-60.2143
5.04	0.57	14.17	-10.81	2.485965	-1.896491	0.58081	4.2	28.434519	2	0.567838	-60.2524
5.05	0.66	13.72	-10.69	2.078788	-1.619697	0.67069	4.2	28.507757	2	0.657862	-60.2305
5.06	0.78	14.26	-10.64	1.828205	-1.364103	0.79064	4.2	28.580996	2	0.777872	-60.2786
5.07	0.96	15	-10.58	1.5625	-1.102083	0.97058	4.2	28.654234	2	0.957884	-60.3167
5.08	1.25	15.22	-10.99	1.2176	-0.8792	1.26099	4.2	28.727472	2	1.247802	-60.8248
5.09	1.36	15.06	-11.23	1.107353	-0.825735	1.37123	4.2	28.80071	2	1.357754	-61.1629
5.1	1.46	14.17	-11.52	0.970548	-0.789041	1.47152	4.2	28.873948	2	1.457696	-61.551
5.11	1.52	13.59	-11.76	0.894079	-0.773684	1.53176	4.2	28.947187	2	1.517648	-61.8891
5.12	1.53	12.22	-11.82	0.798693	-0.772549	1.54182	4.2	29.020425	2	1.527636	-62.0472
5.13	1.4	10.91	-11.88	0.779286	-0.848571	1.41188	4.2	29.093663	2	1.397624	-62.2053
5.14	1.31	10.15	-11.94	0.774809	-0.91145	1.32194	4.2	29.166901	2.1	1.307612	-62.3634
5.15	1.21	9.7	-11.94	0.801653	-0.986777	1.22194	4.3	29.24188	2.1	1.207612	-62.4615
5.16	1.1	9.12	-11.94	0.829091	-1.085455	1.11194	4.2	29.315118	2	1.097612	-62.5596
5.17	0.99	8.55	-11.94	0.863636	-1.206061	1.00194	4.2	29.388356	2	0.987612	-62.6577
5.18	0.89	7.37	-11.88	0.82809	-1.334831	0.90188	4.2	29.461594	2	0.887624	-62.6958
5.19	0.73	6.44	-11.88	0.882192	-1.627397	0.74188	4.3	29.536573	2	0.727624	-62.7939
5.2	0.68	6.44	-11.88	0.947059	-1.747059	0.69188	4.3	29.611552	2	0.677624	-62.892
5.21	0.65	6.86	-11.82	1.055385	-1.818462	0.66182	4.2	29.68479	2	0.647636	-62.9301
5.22	0.62	7.69	-11.82	1.240323	-1.906452	0.63182	4.3	29.759769	2	0.617636	-63.0282
5.23	0.62	8.68	-11.76	1.4	-1.896774	0.63176	4.3	29.834748	2	0.617648	-63.0663
5.24	0.67	10.15	-11.7	1.514925	-1.746269	0.6817	4.3	29.909726	2	0.66766	-63.1044
5.25	0.78	11.8	-11.7	1.512821	-1.5	0.7917	4.3	29.984705	2	0.77766	-63.2025
5.26	1.2	13.5	-11.58	1.125	-0.965	1.21158	4.4	30.061424	2	1.197684	-63.1806
5.27	1.32	13.78	-11.58	1.043939	-0.877273	1.33158	4.3	30.136403	2	1.317684	-63.2787
5.28	1.35	13.69	-11.64	1.014074	-0.862222	1.36164	4.3	30.211381	2	1.347672	-63.4368
5.29	1.34	13.56	-11.7	1.01194	-0.873134	1.3517	4.4	30.2881	2	1.33766	-63.5949
5.3	1.32	12.99	-11.82	0.984091	-0.895455	1.33182	4.3	30.363079	2	1.317636	-63.813
5.31	1.31	12.47	-11.82	0.951908	-0.90229	1.32182	4.3	30.438058	2	1.307636	-63.9111
5.32	1.37	11.01	-11.82	0.80365	-0.862774	1.38182	4.3	30.513037	2	1.367636	-64.0092
5.33	1.42	10.27	-11.82	0.723239	-0.832394	1.43182	4.4	30.589756	2	1.417636	-64.1073
5.34	1.48	10.02	-11.76	0.677027	-0.794595	1.49176	4.4	30.666475	2	1.477648	-64.1454
5.35	1.53	10.08	-11.76	0.658824	-0.768627	1.54176	4.4	30.743194	2	1.527648	-64.2435
5.36	1.57	10.62	-11.7	0.676433	-0.745223	1.5817	4.4	30.819913	2	1.56766	-64.2816
5.37	1.55	11.84	-12.35	0.763871	-0.796774	1.56235	4.4	30.896632	2	1.54753	-65.0297
5.38	1.54	12.6	-12.58	0.818182	-0.816883	1.55258	4.4	30.973351	2	1.537484	-65.3578
5.39	1.5	12.57	-12.7	0.838	-0.846667	1.5127	4.4	31.05007	2	1.49746	-65.5759
5.4	1.46	12.47	-12.76	0.85411	-0.873973	1.47276	4.4	31.126789	2	1.457448	-65.734
5.41	1.42	12.19	-12.82	0.858451	-0.902817	1.43282	4.4	31.203508	2	1.417436	-65.8921
5.42	1.39	12.25	-12.88	0.881295	-0.926619	1.40288	4.4	31.280227	2	1.387424	-66.0502
5.43	1.39	12.38	-13	0.890647	-0.935252	1.403	4.4	31.356946	2	1.3874	-66.2683

5.44	1.57	13.81	-13.35	0.879618	-0.850318	1.58335	4.4	31.433665	2	1.56733	-66.7164
5.45	1.71	15	-13.59	0.877193	-0.794737	1.72359	4.4	31.510384	2	1.707282	-67.0545
5.46	1.86	15.41	-13.77	0.828495	-0.740323	1.87377	4.4	31.587103	2	1.857246	-67.3326
5.47	2.01	15.7	-16.84	0.781095	-0.837811	2.02684	4.4	31.663822	2	2.006632	-70.5007
5.48	2.08	15.25	-20.62	0.733173	-0.991346	2.10062	4.4	31.740541	2	2.075876	-74.3788
5.49	2.18	12.92	-21.03	0.592661	-0.964679	2.20103	4.4	31.81726	2	2.175794	-74.8869
5.5	2.17	12.95	-21.03	0.596774	-0.969124	2.19103	4.4	31.893979	2	2.165794	-74.985
5.51	2.1	12.89	-21.03	0.61381	-1.001429	2.12103	4.5	31.972438	2	2.095794	-75.0831
5.52	2.02	12.67	-21.03	0.627228	-1.041089	2.04103	4.5	32.050897	2	2.015794	-75.1812
5.53	1.92	11.87	-20.97	0.618229	-1.092188	1.94097	4.5	32.129356	2	1.915806	-75.2193
5.54	1.83	11.07	-20.97	0.604918	-1.145902	1.85097	4.4	32.206075	2	1.825806	-75.3174
5.55	1.67	11.33	-20.97	0.678443	-1.255689	1.69097	4.5	32.284535	2	1.665806	-75.4155
5.56	1.6	11.58	-20.97	0.72375	-1.310625	1.62097	4.5	32.362994	2	1.595806	-75.5136
5.57	1.52	11.1	-20.92	0.730263	-1.376316	1.54092	4.5	32.441453	2	1.515816	-75.5617
5.58	1.46	10.66	-20.86	0.730137	-1.428767	1.48086	4.5	32.519912	2	1.455828	-75.5998
5.59	1.43	10.78	-20.86	0.753846	-1.458741	1.45086	4.5	32.598371	2	1.425828	-75.6979
5.6	1.4	11.42	-20.86	0.815714	-1.49	1.42086	4.5	32.67683	2	1.395828	-75.796
5.61	1.29	13.43	-20.86	1.041085	-1.617054	1.31086	4.5	32.755289	2	1.285828	-75.8941
5.62	1.24	14.84	-20.86	1.196774	-1.682258	1.26086	4.5	32.833748	2	1.235828	-75.9922
5.63	1.18	15.95	-20.86	1.351695	-1.767797	1.20086	4.5	32.912207	2	1.175828	-76.0903
5.64	1.14	16.4	-20.86	1.438596	-1.829825	1.16086	4.5	32.990666	2	1.135828	-76.1884
5.65	1.1	16.14	-20.86	1.467273	-1.896364	1.12086	4.5	33.069126	2	1.095828	-76.2865
5.66	1.06	15.7	-20.86	1.481132	-1.967925	1.08086	4.5	33.147585	2	1.055828	-76.3846
5.67	1.02	15.67	-20.8	1.536275	-2.039216	1.0408	4.6	33.227784	2	1.01584	-76.4227
5.68	1	16.97	-20.8	1.697	-2.08	1.0208	4.6	33.307982	2	0.99584	-76.5208
5.69	1.12	17.8	-20.74	1.589286	-1.851786	1.14074	4.6	33.388181	2	1.115852	-76.5589
5.7	1.39	18.09	-20.68	1.301439	-1.48777	1.41068	4.6	33.46838	2	1.385864	-76.597
5.71	1.89	18.98	-20.56	1.004233	-1.087831	1.91056	4.5	33.546839	2	1.885888	-76.5751
5.72	2.54	19.43	-20.5	0.764961	-0.807087	2.5605	4.6	33.627038	2	2.5359	-76.6132
5.73	3.1	20.1	-20.62	0.648387	-0.665161	3.12062	4.6	33.707237	2	3.095876	-76.8313
5.74	3.62	20.04	-30.19	0.553591	-0.833978	3.65019	4.5	33.785696	2	3.613962	-86.4994
5.75	3.7	18.79	-31.43	0.507838	-0.849459	3.73143	4.6	33.865895	2	3.693714	-87.8375
5.76	3.74	18.06	-31.67	0.482888	-0.846791	3.77167	4.6	33.946094	2	3.733666	-88.1756
5.77	3.71	17.01	-31.67	0.458491	-0.853639	3.74167	4.6	34.026293	2	3.703666	-88.2737
5.78	3.61	15.6	-31.55	0.432133	-0.873961	3.64155	4.6	34.106492	2	3.60369	-88.2518
5.79	3.51	13.05	-31.55	0.371795	-0.89886	3.54155	4.6	34.186691	2	3.50369	-88.3499
5.8	3.23	10.98	-31.49	0.339938	-0.974923	3.26149	4.6	34.26689	2	3.223702	-88.388
5.81	3.1	10.62	-31.49	0.342581	-1.015806	3.13149	4.6	34.347089	2	3.093702	-88.4861
5.82	2.98	10.72	-31.43	0.359732	-1.054698	3.01143	4.6	34.427288	2	2.973714	-88.5242
5.83	2.85	11.29	-31.43	0.39614	-1.102807	2.88143	4.6	34.507487	2	2.843714	-88.6223
5.84	2.76	11.93	-31.43	0.432246	-1.138768	2.79143	4.6	34.587686	2	2.753714	-88.7204
5.85	2.57	12.51	-31.37	0.48677	-1.220623	2.60137	4.6	34.667885	2	2.563726	-88.7585
5.86	2.47	12.67	-31.37	0.512955	-1.27004	2.50137	4.6	34.748083	2	2.463726	-88.8566
5.87	2.37	12.95	-31.37	0.546414	-1.323629	2.40137	4.6	34.828282	2	2.363726	-88.9547
5.88	2.37	12.95	-31.37	0.546414	-1.323629	2.40137	4.6	34.908481	2	2.363726	-89.0528
5.89	2.37	12.95	-31.37	0.546414	-1.323629	2.40137	4.6	34.98868	2	2.363726	-89.1509
5.9	0.73	0.86	-30.25	0.117808	-4.143836	0.76025	4.6	35.068879	1.9	0.72395	-88.129
5.91	2.17	12.03	-30.25	0.554378	-1.394009	2.20025	4.6	35.149078	1.9	2.16395	-88.2271
5.92	2.14	13.37	-30.31	0.624766	-1.416355	2.17031	4.7	35.231017	2	2.133938	-88.3852
5.93	2.1	14.68	-30.43	0.699048	-1.449048	2.13043	4.6	35.311216	2	2.093914	-88.6033
5.94	2.04	15.31	-30.43	0.75049	-1.491667	2.07043	4.7	35.393154	2	2.033914	-88.7014
5.95	1.98	15.35	-30.43	0.775253	-1.536869	2.01043	4.6	35.473353	2	1.973914	-88.7995
5.96	1.94	15.09	-30.37	0.777835	-1.565464	1.97037	4.7	35.555291	2	1.933926	-88.8376
5.97	1.92	14.8	-30.31	0.770833	-1.578646	1.95031	4.7	35.63723	2	1.913938	-88.8757
5.98	1.99	14.71	-30.31	0.739196	-1.523116	2.02031	4.7	35.719168	2	1.983938	-88.9738
5.99	2.15	15.57	-30.31	0.724186	-1.409767	2.18031	4.7	35.801107	2	2.143938	-89.0719
6	2.4	17.36	-30.49	0.723333	-1.270417	2.43049	4.7	35.883045	2	2.393902	-89.35
6.01	2.77	18.86	-30.84	0.680866	-1.113357	2.80084	4.7	35.964984	2	2.763832	-89.7981
6.02	3.13	18.92	-32.26	0.604473	-1.030671	3.16226	4.6	36.045183	2	3.123548	-91.3162
6.03	3.37	18.47	-42.07	0.548071	-1.248368	3.41207	4.7	36.127121	2	3.361586	-101.2243
6.04	3.63	18.41	-43.66	0.507163	-1.202755	3.67366	4.7	36.20906	2	3.621268	-102.9124
6.05	3.86	19.4	-43.72	0.502591	-1.132642	3.90372	4.7	36.290998	2	3.851256	-103.0705
6.06	4.01	19.81	-43.72	0.494015	-1.090274	4.05372	4.7	36.372937	2	4.001256	-103.1686
6.07	4.1	18.86	-43.66	0.46	-1.064878	4.14366	4.6	36.453136	2	4.091268	-103.2067
6.08	4.29	16.11	-43.66	0.375524	-1.017716	4.33366	4.7	36.535074	2	4.281268	-103.3048
6.09	4.37	14.9	-43.6	0.340961	-0.997712	4.4136	4.7	36.617013	2	4.36128	-103.3429
6.1	4.43	14.1	-43.55	0.318284	-0.98307	4.47355	4.7	36.698951	2	4.42129	-103.391
6.11	4.44	13.3	-43.49	0.29955	-0.979505	4.48349	4.7	36.78089	1.9	4.431302	-103.4291
6.12	4.44	12.7	-43.43	0.286036	-0.978153	4.48343	4.7	36.862828	1.9	4.431314	-103.4672
6.13	4.42	12.7	-43.37	0.28733	-0.981222	4.46337	4.8	36.946506	2	4.411326	-103.5053
6.14	4.4	13.3	-43.37	0.302273	-0.985682	4.44337	4.8	37.030184	2	4.391326	-103.6034
6.15	4.36	13.91	-43.31	0.319037	-0.993349	4.40331	4.8	37.113862	2	4.351338	-103.6415

6.16	4.31	14.93	-43.31	0.346404	-1.004872	4.35331	4.8	37.19754	2	4.301338	-103.7396
6.17	4.23	16.24	-43.31	0.383924	-1.023877	4.27331	4.8	37.281218	2	4.221338	-103.8377
6.18	4.12	17.71	-43.25	0.429854	-1.049757	4.16325	4.8	37.364895	2	4.11135	-103.8758
6.19	3.82	19.91	-43.25	0.521204	-1.132199	3.86325	4.8	37.448573	2	3.81135	-103.9739
6.2	3.67	20.51	-43.19	0.558856	-1.176839	3.71319	4.8	37.532251	2	3.661362	-104.012
6.21	3.54	21.44	-43.19	0.60565	-1.220056	3.58319	4.8	37.615929	2	3.531362	-104.1101
6.22	3.41	22.91	-43.19	0.671848	-1.266569	3.45319	4.8	37.699607	2	3.401362	-104.2082
6.23	3.29	24.41	-43.19	0.741945	-1.312766	3.33319	4.8	37.783285	2	3.281362	-104.3063
6.24	3.12	27.02	-43.13	0.866026	-1.382372	3.16313	4.8	37.866963	2	3.111374	-104.3444
6.25	3.06	28.4	-43.13	0.928105	-1.409477	3.10313	4.8	37.95064	2	3.051374	-104.4425
6.26	3.02	29.54	-43.13	0.978146	-1.428146	3.06313	4.8	38.034318	2	3.011374	-104.5406
6.27	2.99	29.99	-43.07	1.00301	-1.440468	3.03307	4.8	38.117996	2	2.981386	-104.5787
6.28	2.95	30.05	-43.07	1.018644	-1.46	2.99307	4.8	38.201674	2	2.941386	-104.6768
6.29	2.92	29.99	-43.07	1.027055	-1.475	2.96307	4.8	38.285352	2	2.911386	-104.7749
6.3	2.84	29.74	-43.01	1.047183	-1.514437	2.88301	4.8	38.36903	2	2.831398	-104.813
6.31	2.81	29.64	-42.95	1.054804	-1.52847	2.85295	4.8	38.452707	2	2.80141	-104.8511
6.32	2.79	29.32	-42.95	1.050896	-1.539427	2.83295	4.8	38.536385	2	2.78141	-104.9492
6.33	2.77	28.68	-42.95	1.035379	-1.550542	2.81295	4.8	38.620063	2	2.76141	-105.0473
6.34	2.75	28.01	-42.9	1.018545	-1.56	2.7929	4.8	38.703741	2	2.74142	-105.0954
6.35	2.72	27.37	-42.9	1.00625	-1.577206	2.7629	4.9	38.789158	2	2.71142	-105.1935
6.36	2.6	26.74	-42.84	1.028462	-1.647692	2.64284	4.8	38.872836	2	2.591432	-105.2316
6.37	2.55	26.29	-42.84	1.03098	-1.68	2.59284	4.9	38.958253	2	2.541432	-105.3297
6.38	2.5	25.84	-42.84	1.0336	-1.7136	2.54284	4.9	39.04367	2	2.491432	-105.4278
6.39	2.53	25.72	-42.78	1.016601	-1.690909	2.57278	4.8	39.127347	2	2.521444	-105.4659
6.4	2.63	25.94	-42.78	0.986312	-1.626616	2.67278	4.9	39.212764	2	2.621444	-105.564
6.41	3.16	26.58	-42.72	0.841139	-1.351899	3.20272	4.9	39.298181	2	3.151456	-105.6021
6.42	3.53	27.18	-42.66	0.769972	-1.208499	3.57266	4.9	39.383598	2	3.521468	-105.6402
6.43	3.94	28.01	-42.6	0.710914	-1.081218	3.9826	4.9	39.469015	2	3.93148	-105.6783
6.44	4.34	29.19	-42.6	0.672581	-0.981567	4.3826	4.9	39.554432	2	4.33148	-105.7764
6.45	4.62	29.35	-42.78	0.635281	-0.925974	4.66278	4.9	39.639849	2	4.611444	-106.0545
6.46	4.83	28.08	-44.31	0.581366	-0.917391	4.87431	5	39.727005	2	4.821138	-107.6826
6.47	5.07	27.6	-46.79	0.544379	-0.92288	5.11679	5	39.81416	2	5.060642	-110.2607
6.48	5.07	27.18	-46.85	0.536095	-0.924063	5.11685	5	39.901316	2	5.06063	-110.4188
6.49	5.01	26.13	-46.79	0.521557	-0.933932	5.05679	5	39.988472	2	5.000642	-110.4569
6.5	4.89	24.47	-46.74	0.500409	-0.955828	4.93674	5	40.075628	2	4.880652	-110.505
6.51	4.74	22.59	-46.68	0.476582	-0.98481	4.78668	4.9	40.161045	2	4.730664	-110.5431
6.52	4.61	20.32	-46.62	0.440781	-1.01128	4.65662	5	40.2482	2	4.600676	-110.5812
6.53	4.43	20.04	-46.56	0.45237	-1.051016	4.47656	5	40.335356	2	4.420688	-110.6193
6.54	4.4	20.61	-46.5	0.468409	-1.056818	4.4465	4.9	40.420773	2	4.3907	-110.6574
6.55	4.38	21.57	-46.5	0.492466	-1.061644	4.4265	5	40.507929	2	4.3707	-110.7555
6.56	4.4	22.72	-46.44	0.516364	-1.055455	4.44644	5	40.595085	2	4.390712	-110.7936
6.57	4.43	23.74	-46.44	0.535892	-1.048307	4.47644	5	40.68224	2	4.420712	-110.8917
6.58	4.68	25.27	-46.38	0.539957	-0.991026	4.72638	5	40.769396	2	4.670724	-110.9298
6.59	4.97	27.12	-46.32	0.545674	-0.931992	5.01632	5	40.856552	2	4.960736	-110.9679
6.6	5.36	29.54	-46.32	0.551119	-0.864179	5.40632	5	40.943707	2	5.350736	-111.066
6.61	5.74	31.3	-46.5	0.545296	-0.810105	5.7865	5	41.030863	2	5.7307	-111.3441
6.62	6	32.67	-46.85	0.5445	-0.780833	6.04685	5	41.118019	2	5.99063	-111.7922
6.63	6.19	34.23	-47.86	0.552989	-0.773183	6.23786	5	41.205175	2	6.180428	-112.9003
6.64	6.36	34.94	-53.77	0.549371	-0.84544	6.41377	5	41.29233	2	6.349246	-118.9084
6.65	6.35	34.27	-57.31	0.539685	-0.90252	6.40731	5	41.379486	2	6.338538	-122.5465
6.66	6.38	34.01	-58.85	0.533072	-0.922414	6.43885	5	41.466642	2	6.36823	-124.1846
6.67	6.34	33.09	-59.44	0.521924	-0.937539	6.39944	5	41.553798	2	6.328112	-124.8727
6.68	6.27	32.61	-59.5	0.520096	-0.948963	6.3295	5	41.640953	2	6.2581	-125.0308
6.69	6.14	31.33	-59.44	0.510261	-0.968078	6.19944	5	41.728109	2	6.128112	-125.0689
6.7	5.78	25.05	-59.32	0.433391	-1.026298	5.83932	5	41.815265	2	5.768136	-125.047
6.71	5.63	22.4	-59.32	0.397869	-1.053641	5.68932	5.1	41.904159	2	5.618136	-125.1451
6.72	5.52	21.47	-59.26	0.388949	-1.073551	5.57926	5	41.991315	2	5.508148	-125.1832
6.73	5.45	21.57	-59.26	0.39578	-1.087339	5.50926	5.1	42.080209	2	5.438148	-125.2813
6.74	5.39	22.21	-59.2	0.412059	-1.09833	5.4492	5	42.167365	2	5.37816	-125.3194
6.75	5.35	25.01	-59.14	0.467477	-1.105421	5.40914	5.1	42.256259	2	5.338172	-125.3575
6.76	5.3	25.94	-59.14	0.489434	-1.115849	5.35914	5.1	42.345154	2	5.288172	-125.4556
6.77	5.28	26.86	-59.14	0.508712	-1.120076	5.33914	5.1	42.434048	2	5.268172	-125.5537
6.78	5.28	27.92	-59.08	0.528788	-1.118939	5.33908	5.1	42.522942	2	5.268184	-125.5918
6.79	5.28	29.03	-59.08	0.549811	-1.118939	5.33908	5.1	42.611836	2	5.268184	-125.6899
6.8	5.3	30.63	-59.03	0.577925	-1.113774	5.35903	5.1	42.700731	2	5.288194	-125.738
6.81	5.28	32.86	-59.03	0.622348	-1.117992	5.33903	5.1	42.789625	2	5.268194	-125.8361
6.82	5.25	33.25	-58.97	0.633333	-1.123238	5.30897	5.1	42.878519	2	5.238206	-125.8742
6.83	5.2	33.25	-58.97	0.639423	-1.134038	5.25897	5.2	42.969152	2	5.188206	-125.9723
6.84	5.11	32.7	-58.97	0.639922	-1.154012	5.16897	5.2	43.059785	2	5.098206	-126.0704
6.85	4.96	32.03	-58.97	0.645766	-1.188911	5.01897	5.2	43.150417	2	4.948206	-126.1685
6.86	4.71	31.08	-58.91	0.659873	-1.250743	4.76891	5.2	43.24105	2	4.698218	-126.2066
6.87	4.27	29.48	-58.91	0.690398	-1.379625	4.32891	5.2	43.331682	2	4.258218	-126.3047

6.88	4.09	28.17	-58.91	0.688753	-1.440342	4.14891	5.1	43.420577	2	4.078218	-126.4028
6.89	4.09	28.17	-58.91	0.688753	-1.440342	4.14891	5.1	43.509471	2	4.078218	-126.5009
6.9	4.09	28.17	-58.91	0.688753	-1.440342	4.14891	5.1	43.598365	2	4.078218	-126.599
6.91	3.62	17.96	-57.67	0.496133	-1.593094	3.67767	5.2	43.688998	1.9	3.608466	-125.4571
6.92	3.6	18.09	-57.67	0.5025	-1.601944	3.65767	5.1	43.777892	1.9	3.588466	-125.5552
6.93	3.42	18.38	-57.61	0.537427	-1.684503	3.47761	5.2	43.868525	2	3.408478	-125.5933
6.94	3.3	18.82	-57.61	0.570303	-1.745758	3.35761	5.2	43.959157	2	3.288478	-125.6914
6.95	3.2	19.4	-57.61	0.60625	-1.800312	3.25761	5.2	44.04979	2	3.188478	-125.7895
6.96	3.13	19.88	-57.61	0.635144	-1.840575	3.18761	5.1	44.138684	2	3.118478	-125.8876
6.97	3.04	20.51	-57.55	0.674671	-1.893092	3.09755	5.3	44.231055	2	3.02849	-125.9257
6.98	3.06	20.64	-57.55	0.67451	-1.880719	3.11755	5.3	44.323425	2	3.04849	-126.0238
6.99	3.08	22.08	-57.55	0.716883	-1.868506	3.13755	5.3	44.415796	2	3.06849	-126.1219
7	3.18	23.77	-57.43	0.747484	-1.805975	3.23743	5.3	44.508166	2	3.168514	-126.1
7.01	3.92	25.11	-57.25	0.640561	-1.460459	3.97725	5.3	44.600537	2	3.90855	-126.0181
7.02	4.76	27.47	-57.13	0.577101	-1.20021	4.81713	5.3	44.692908	2	4.748574	-125.9962
7.03	5.31	26.86	-57.08	0.505838	-1.074953	5.36708	5.3	44.785278	2	5.298584	-126.0443
7.04	5.68	27.5	-57.08	0.484155	-1.00493	5.73708	5.3	44.877649	2	5.668584	-126.1424
7.05	6.04	26.99	-56.96	0.446854	-0.943046	6.09696	5.3	44.970019	2	6.028608	-126.1205
7.06	6.42	26.55	-56.96	0.413551	-0.887227	6.47696	5.3	45.06239	2	6.408608	-126.2186
7.07	6.82	25.36	-56.84	0.371848	-0.833431	6.87684	5.3	45.154761	2	6.808632	-126.1967
7.08	7.47	26.35	-56.72	0.352744	-0.759304	7.52672	5.4	45.248869	2	7.458656	-126.1748
7.09	7.41	30.02	-56.78	0.405128	-0.766262	7.46678	5.4	45.342977	2	7.398644	-126.3329
7.1	7.39	30.76	-56.54	0.416238	-0.765088	7.44654	5.3	45.435348	1.9	7.378692	-126.191
7.11	7.68	41.41	-56.48	0.539193	-0.735417	7.73648	5.3	45.527718	1.9	7.668704	-126.2291
7.12	8.18	36.75	-56.37	0.449267	-0.68912	8.23637	5.3	45.620089	1.9	8.168726	-126.2172
7.13	8.45	35.35	-56.31	0.418343	-0.666391	8.50631	5.3	45.71246	1.9	8.438738	-126.2553
7.14	8.83	34.65	-56.25	0.392412	-0.637033	8.88625	5.3	45.80483	2	8.81875	-126.2934
7.15	8.97	34.52	-56.25	0.384838	-0.62709	9.02625	5.3	45.897201	2	8.95875	-126.3915
7.16	9.07	36.5	-56.13	0.402426	-0.618853	9.12613	5.4	45.991309	2	9.058774	-126.3696
7.17	9.17	34.17	-56.07	0.372628	-0.61145	9.22607	5.4	46.085417	2	9.158786	-126.4077
7.18	9.39	32.29	-56.01	0.343876	-0.596486	9.44601	5.4	46.179526	2	9.378798	-126.4458
7.19	9.35	37.74	-56.01	0.403636	-0.599037	9.40601	5.4	46.273634	2	9.338798	-126.5439
7.2	9.32	38.16	-55.95	0.409442	-0.600322	9.37595	5.4	46.367742	2	9.30881	-126.582
7.21	9.37	39.28	-55.89	0.41921	-0.596478	9.42589	5.4	46.461851	2	9.358822	-126.6201
7.22	9.38	39.47	-55.89	0.420789	-0.595842	9.43589	5.4	46.555959	1.9	9.368822	-126.7182
7.23	9.46	42.31	-55.83	0.447252	-0.590169	9.51583	5.4	46.650067	1.9	9.448834	-126.7563
7.24	9.47	37.07	-55.78	0.391447	-0.589018	9.52578	5.4	46.744176	2	9.458844	-126.8044
7.25	9.45	37.14	-55.72	0.393016	-0.58963	9.50572	5.4	46.838284	2	9.438856	-126.8425
7.26	9.43	37.3	-55.72	0.395546	-0.59088	9.48572	5.5	46.93413	2	9.418856	-126.9406
7.27	9.38	37.07	-55.66	0.395203	-0.59339	9.43566	5.4	47.028238	1.9	9.368868	-126.9787
7.28	9.3	37.46	-55.6	0.402796	-0.597849	9.3556	5.5	47.124084	1.9	9.28888	-127.0168
7.29	9.27	37.46	-55.54	0.404099	-0.599137	9.32554	5.5	47.219929	2	9.258892	-127.0549
7.3	9.25	38.57	-55.54	0.416973	-0.600432	9.30554	5.5	47.315775	2	9.238892	-127.153
7.31	9.19	38.99	-55.48	0.424266	-0.6037	9.24548	5.5	47.411621	2	9.178904	-127.1911
7.32	9.14	40.39	-55.48	0.441904	-0.607002	9.19548	5.5	47.507467	2	9.128904	-127.2892
7.33	9.03	33.4	-55.36	0.369878	-0.613068	9.08536	5.5	47.603312	1.9	9.018928	-127.2673
7.34	9.04	34.07	-55.36	0.376881	-0.612389	9.09536	5.5	47.699158	1.9	9.028928	-127.3654
7.35	9.03	34.3	-55.36	0.379845	-0.613068	9.08536	5.5	47.795004	2	9.018928	-127.4635
7.36	9.01	34.78	-55.3	0.386016	-0.613762	9.0653	5.5	47.89085	2	8.99894	-127.5016
7.37	8.99	35.89	-55.24	0.399221	-0.614461	9.04524	5.5	47.986695	2	8.978952	-127.5397
7.38	8.99	35.89	-55.24	0.399221	-0.614461	9.04524	5.5	48.082541	2	8.978952	-127.6378
7.39	9.03	37.07	-55.13	0.41052	-0.61052	9.08513	5.5	48.178387	2	9.018974	-127.6259
7.4	9.08	37.27	-55.13	0.410463	-0.607159	9.13513	5.5	48.274233	2	9.068974	-127.724
7.41	9.11	37.46	-55.07	0.411196	-0.604501	9.16507	5.5	48.370078	2	9.098986	-127.7621
7.42	9.18	37.78	-55.07	0.411547	-0.599891	9.23507	5.5	48.465924	2	9.168986	-127.8602
7.43	9.26	37.84	-55.01	0.408639	-0.59406	9.31501	5.6	48.563507	2	9.248998	-127.8983
7.44	9.37	37.94	-54.95	0.404909	-0.586446	9.42495	5.6	48.66109	2	9.35901	-127.9364
7.45	9.39	37.78	-54.89	0.402343	-0.584558	9.44489	5.6	48.758673	2	9.379022	-127.9745
7.46	9.45	37.9	-54.89	0.401058	-0.580847	9.50489	5.6	48.856256	2	9.439022	-128.0726
7.47	9.47	37.84	-54.83	0.399578	-0.578986	9.52483	5.6	48.953839	1.9	9.459034	-128.1107
7.48	9.5	37.71	-54.77	0.396947	-0.576526	9.55477	5.6	49.051422	1.9	9.489046	-128.1488
7.49	9.5	37.97	-54.71	0.399684	-0.575895	9.55471	5.6	49.149004	2	9.489058	-128.1869
7.5	9.53	38.13	-54.71	0.400105	-0.574082	9.58471	5.6	49.246587	2	9.519058	-128.285
7.51	9.55	38.03	-54.65	0.39822	-0.572251	9.60465	5.6	49.34417	1.9	9.53907	-128.3231
7.52	9.59	38.22	-54.65	0.39854	-0.569864	9.64465	5.6	49.441753	1.9	9.57907	-128.4212
7.53	9.71	38.67	-54.59	0.398249	-0.562204	9.76459	5.6	49.539336	2	9.699082	-128.4593
7.54	9.78	39.02	-54.53	0.398978	-0.557566	9.83453	5.6	49.636919	2	9.769094	-128.4974
7.55	9.87	39.28	-54.53	0.397974	-0.552482	9.92453	5.7	49.736239	1.9	9.859094	-128.5955
7.56	9.96	39.24	-54.53	0.393976	-0.54749	10.01453	5.7	49.835558	1.9	9.949094	-128.6936
7.57	10.09	40.07	-54.42	0.397126	-0.539346	10.14442	5.7	49.934878	1.9	10.079116	-128.6817
7.58	10.15	40.2	-54.42	0.396059	-0.536158	10.20442	5.7	50.034198	1.9	10.139116	-128.7798
7.59	10.23	40.26	-54.36	0.393548	-0.531378	10.28436	5.7	50.133518	2	10.219128	-128.8179

7.6	10.29	40.84	-54.36	0.39689	-0.52828	10.34436	5.7	50.232837	2	10.279128	-128.916
7.61	10.29	41.06	-54.3	0.399028	-0.527697	10.3443	5.7	50.332157	2	10.27914	-128.9541
7.62	10.32	40.97	-54.3	0.396996	-0.526163	10.3743	5.7	50.431477	2	10.30914	-129.0522
7.63	10.24	41.6	-54.24	0.40625	-0.529688	10.29424	5.7	50.530797	1.9	10.229152	-129.0903
7.64	10.2	41.99	-54.18	0.411667	-0.531176	10.25418	5.7	50.630116	1.9	10.189164	-129.1284
7.65	10.19	42.34	-54.18	0.415505	-0.531698	10.24418	5.7	50.729436	2	10.179164	-129.2265
7.66	10.16	42.91	-54.12	0.422343	-0.532677	10.21412	5.7	50.828756	2	10.149176	-129.2646
7.67	10.19	43.07	-54.06	0.422669	-0.53052	10.24406	5.7	50.928076	2	10.179188	-129.3027
7.68	10.23	44.22	-54.06	0.432258	-0.528446	10.28406	5.7	51.027395	2	10.219188	-129.4008
7.69	10.27	44.79	-54	0.436125	-0.525803	10.324	5.7	51.126715	2	10.2592	-129.4389
7.7	10.3	45.4	-53.94	0.440777	-0.523689	10.35394	5.7	51.226035	2	10.289212	-129.477
7.71	10.3	45.53	-53.94	0.442039	-0.523689	10.35394	5.7	51.325355	2	10.289212	-129.5751
7.72	10.26	46.42	-53.88	0.452437	-0.525146	10.31388	5.7	51.424674	2	10.249224	-129.6132
7.73	10.22	46.45	-53.88	0.454501	-0.527202	10.27388	5.7	51.523994	2	10.209224	-129.7113
7.74	10.14	46.42	-53.83	0.457791	-0.530868	10.19383	5.7	51.623314	2	10.129234	-129.7594
7.75	10.01	46.87	-53.83	0.468232	-0.537762	10.06383	5.7	51.722634	2	9.999234	-129.8575
7.76	9.93	47.22	-53.83	0.475529	-0.542095	9.98383	5.7	51.821953	2	9.919234	-129.9556
7.77	9.89	47.7	-53.77	0.482305	-0.54368	9.94377	5.7	51.921273	2	9.879246	-129.9937
7.78	9.98	48.24	-53.71	0.483367	-0.538176	10.03371	5.7	52.020593	2	9.969258	-130.0318
7.79	10.03	48.24	-53.65	0.480957	-0.534895	10.08365	5.7	52.119913	2	10.01927	-130.0699
7.8	10.06	49.07	-53.65	0.487773	-0.5333	10.11365	5.7	52.219232	2	10.04927	-130.168
7.81	10.1	48.85	-53.59	0.483663	-0.530594	10.15359	5.9	52.322025	2	10.089282	-130.2061
7.82	10.13	47.92	-53.53	0.47305	-0.52843	10.18353	5.9	52.424818	2	10.119294	-130.2442
7.83	10.12	47.54	-53.53	0.469763	-0.528953	10.17353	5.9	52.52761	2	10.109294	-130.3423
7.84	10.1	47.79	-53.47	0.473168	-0.529406	10.15347	5.9	52.630403	2	10.089306	-130.3804
7.85	10.1	46.74	-53.41	0.462772	-0.528812	10.15341	5.9	52.733195	2	10.089318	-130.4185
7.86	10.05	46.39	-53.41	0.461592	-0.531443	10.10341	5.9	52.835988	2	10.039318	-130.5166
7.87	10.01	45.69	-53.35	0.456444	-0.532967	10.06335	5.9	52.93878	2	9.99933	-130.5547
7.88	10.01	45.69	-53.35	0.456444	-0.532967	10.06335	5.9	53.041573	2	9.99933	-130.6528
7.89	10.01	45.69	-53.35	0.456444	-0.532967	10.06335	5.9	53.144365	2	9.99933	-130.7509
7.9	8.8	36.21	-52.11	0.411477	-0.592159	8.85211	5.9	53.247158	2	8.789578	-129.609
7.91	9.65	35.7	-52.05	0.369948	-0.539378	9.70205	5.9	53.34995	1.9	9.63959	-129.6471
7.92	9.6	35.67	-51.99	0.371562	-0.541562	9.65199	5.9	53.452743	1.9	9.589602	-129.6852
7.93	9.58	36.15	-51.99	0.377349	-0.542693	9.63199	5.9	53.555535	1.9	9.569602	-129.7833
7.94	9.48	36.91	-51.99	0.389346	-0.548418	9.53199	5.9	53.658328	1.9	9.469602	-129.8814
7.95	9.34	38.16	-51.99	0.408565	-0.556638	9.39199	5.9	53.761121	2	9.329602	-129.9795
7.96	9.29	39.34	-51.99	0.423466	-0.559634	9.34199	5.9	53.863913	1.9	9.279602	-130.0776
7.97	9.24	40.07	-51.99	0.433658	-0.562662	9.29199	5.9	53.966706	1.9	9.229602	-130.1757
7.98	9.19	40.23	-51.99	0.437758	-0.565724	9.24199	5.9	54.069498	1.9	9.179602	-130.2738
7.99	9.12	41.67	-51.94	0.456908	-0.569518	9.17194	5.9	54.172291	1.9	9.109612	-130.3219
8	9.26	41.86	-51.88	0.452052	-0.560259	9.31188	5.9	54.275083	2	9.249624	-130.36
8.01	9.58	42.15	-51.88	0.439979	-0.541545	9.63188	5.9	54.377876	2	9.569624	-130.4581
8.02	9.71	42.24	-51.88	0.435015	-0.534295	9.76188	5.9	54.480668	2	9.699624	-130.5562
8.03	9.82	42.37	-51.82	0.431466	-0.527699	9.87182	5.9	54.583461	1.9	9.809636	-130.5943
8.04	9.93	41.19	-51.76	0.414804	-0.521249	9.98176	5.9	54.686253	1.9	9.919648	-130.6324
8.05	9.93	40.9	-51.76	0.411883	-0.521249	9.98176	5.9	54.789046	2	9.919648	-130.7305
8.06	9.89	41.16	-51.7	0.416178	-0.52275	9.9417	6	54.893574	2	9.87966	-130.7686
8.07	9.83	41.29	-51.7	0.420041	-0.525941	9.8817	6	54.998103	2	9.81966	-130.8667
8.08	9.77	41.51	-51.7	0.424872	-0.529171	9.8217	6	55.102631	2	9.75966	-130.9648
8.09	9.52	41.86	-51.64	0.439706	-0.542437	9.57164	6	55.20716	2	9.509672	-131.0029
8.1	9.38	42.63	-51.64	0.454478	-0.550533	9.43164	6	55.311688	2	9.369672	-131.101
8.11	9.28	42.88	-51.64	0.462069	-0.556466	9.33164	6	55.416217	2	9.269672	-131.1991
8.12	9.19	43.04	-51.64	0.468335	-0.561915	9.24164	6	55.520745	2	9.179672	-131.2972
8.13	9.11	44.38	-51.64	0.487157	-0.56685	9.16164	6	55.625274	2	9.099672	-131.3953
8.14	9.01	46.01	-51.58	0.510655	-0.572475	9.06158	6	55.729802	2	8.999684	-131.4334
8.15	8.93	46.84	-51.58	0.524524	-0.577604	8.98158	6	55.834331	2.1	8.919684	-131.5315
8.16	8.8	48.85	-51.52	0.555114	-0.585455	8.85152	6	55.938859	2.1	8.789696	-131.5696
8.17	8.77	49.26	-51.52	0.561688	-0.587457	8.82152	6	56.043387	2	8.759696	-131.6677
8.18	8.7	49.64	-51.46	0.570575	-0.591494	8.75146	6	56.147916	2	8.689708	-131.7058
8.19	8.67	49.61	-51.46	0.572203	-0.593541	8.72146	6	56.252444	2	8.659708	-131.8039
8.2	8.6	49.61	-51.46	0.57686	-0.598372	8.65146	6	56.356973	2	8.589708	-131.902
8.21	8.55	49.58	-51.4	0.579883	-0.60117	8.6014	6	56.461501	2	8.53972	-131.9401
8.22	8.49	49.71	-51.4	0.585512	-0.605418	8.5414	6	56.56603	2	8.47972	-132.0382
8.23	8.38	48.97	-51.4	0.584368	-0.613365	8.4314	6	56.670558	2	8.36972	-132.1363
8.24	8.35	48.91	-51.34	0.585749	-0.61485	8.40134	6	56.775087	2.1	8.339732	-132.1744
8.25	8.31	49.13	-51.34	0.591215	-0.61781	8.36134	6	56.879615	2.1	8.299732	-132.2725
8.26	8.29	49.29	-51.29	0.594572	-0.618697	8.34129	6	56.984144	2	8.279742	-132.3206
8.27	8.29	48.02	-51.29	0.579252	-0.618697	8.34129	6	57.088672	2	8.279742	-132.4187
8.28	8.28	47.67	-51.29	0.575725	-0.619444	8.33129	6	57.193201	2	8.269742	-132.5168
8.29	8.3	47.35	-51.23	0.570482	-0.617229	8.35123	6.1	57.299465	2	8.289754	-132.5549
8.3	8.41	46.9	-51.23	0.557669	-0.609156	8.46123	6	57.403993	2	8.399754	-132.653
8.31	8.51	46.74	-51.17	0.549236	-0.601293	8.56117	6.1	57.510257	2	8.499766	-132.6911

8.32	8.6	46.52	-51.11	0.54093	-0.594302	8.65111	6.1	57.616521	2	8.589778	-132.7292
8.33	8.68	46.68	-51.11	0.537788	-0.588825	8.73111	6.1	57.722785	2	8.669778	-132.8273
8.34	8.76	47.06	-51.05	0.537215	-0.582763	8.81105	6.1	57.829049	2	8.74979	-132.8654
8.35	8.85	46.87	-51.05	0.529605	-0.576836	8.90105	6.1	57.935313	2	8.83979	-132.9635
8.36	8.9	46.87	-51.05	0.526629	-0.573596	8.95105	6.1	58.041577	2	8.88979	-133.0616
8.37	9.01	47.22	-50.99	0.524084	-0.565927	9.06099	6.1	58.147842	2	8.999802	-133.0997
8.38	9.08	47.12	-50.93	0.518943	-0.560903	9.13093	6.1	58.254106	2.1	9.069814	-133.1378
8.39	9.13	47.06	-50.93	0.515444	-0.557831	9.18093	6.1	58.36037	2.1	9.119814	-133.2359
8.4	9.2	47.22	-50.93	0.513261	-0.553587	9.25093	6.1	58.466634	2	9.189814	-133.334
8.41	9.29	47.6	-50.87	0.512379	-0.547578	9.34087	6.1	58.572898	2	9.279826	-133.3721
8.42	9.36	48.08	-50.87	0.513675	-0.543483	9.41087	6.1	58.679162	2	9.349826	-133.4702
8.43	9.46	48.27	-50.81	0.510254	-0.537104	9.51081	6.1	58.785426	2	9.449838	-133.5083
8.44	9.63	48.97	-50.75	0.508515	-0.526999	9.68075	6.1	58.89169	2.1	9.61985	-133.5464
8.45	9.74	49.64	-50.69	0.509651	-0.520431	9.79069	6.1	58.997954	2.1	9.729862	-133.5845
8.46	9.84	50.09	-50.69	0.509045	-0.515142	9.89069	6.1	59.104218	2	9.829862	-133.6826
8.47	9.93	50.19	-50.64	0.505438	-0.50997	9.98064	6.1	59.210482	2	9.919872	-133.7307
8.48	10.05	50.73	-50.64	0.504776	-0.503881	10.10064	6.1	59.316746	2	10.039872	-133.8288
8.49	10.17	51.05	-50.64	0.501967	-0.497935	10.22064	6.1	59.42301	2	10.159872	-133.9269
8.5	10.36	51.72	-50.58	0.499228	-0.488224	10.41058	6.3	59.532745	2	10.349884	-133.965
8.51	10.47	51.97	-50.52	0.496371	-0.482521	10.52052	6.2	59.640744	2	10.459896	-134.0031
8.52	10.55	52.45	-50.52	0.497156	-0.478863	10.60052	6.2	59.748743	2	10.539896	-134.1012
8.53	10.65	52.83	-50.46	0.496056	-0.473803	10.70046	6.2	59.856743	2	10.639908	-134.1393
8.54	10.76	53.22	-50.46	0.49461	-0.468959	10.81046	6.3	59.966477	2.1	10.749908	-134.2374
8.55	10.87	53.63	-50.4	0.493376	-0.463661	10.9204	6.2	60.074476	2.1	10.85992	-134.2755
8.56	11.02	53.98	-50.34	0.489837	-0.456806	11.07034	6.2	60.182476	2	11.009932	-134.3136
8.57	11.24	54.56	-50.28	0.485409	-0.447331	11.29028	6.2	60.290475	2	11.229944	-134.3517
8.58	11.32	55.07	-50.28	0.486484	-0.44417	11.37028	6.2	60.398475	2	11.309944	-134.4498
8.59	11.37	54.91	-50.22	0.482938	-0.441689	11.42022	6.2	60.506474	2	11.359956	-134.4879
8.6	11.41	54.84	-50.22	0.480631	-0.44014	11.46022	6.3	60.616208	2	11.399956	-134.586
8.61	11.46	55.07	-50.22	0.480541	-0.43822	11.51022	6.3	60.725943	2	11.449956	-134.6841
8.62	11.48	55.2	-50.16	0.480836	-0.436934	11.53016	6.2	60.833942	2	11.469968	-134.7222
8.63	11.55	56.18	-50.1	0.486407	-0.433766	11.6001	6.2	60.941941	2	11.53998	-134.7603
8.64	11.59	56.7	-50.1	0.489215	-0.432269	11.6401	6.3	61.051676	2	11.57998	-134.8584
8.65	11.58	57.01	-50.04	0.492314	-0.432124	11.63004	6.2	61.159675	2	11.569992	-134.8965
8.66	11.52	57.65	-50.04	0.500434	-0.434375	11.57004	6.3	61.269409	2	11.509992	-134.9946
8.67	11.49	58.19	-49.99	0.50644	-0.435074	11.53999	6.2	61.377409	2	11.480002	-135.0427
8.68	11.47	58.9	-49.99	0.513514	-0.435833	11.51999	6.3	61.487143	2	11.460002	-135.1408
8.69	11.62	60.56	-49.87	0.52117	-0.429174	11.66987	6.3	61.596877	2	11.610026	-135.1189
8.7	11.72	61.45	-49.87	0.524317	-0.425512	11.76987	6.3	61.706611	2	11.710026	-135.217
8.71	11.74	62.02	-49.87	0.528279	-0.424787	11.78987	6.3	61.816346	2	11.730026	-135.3151
8.72	11.77	62.57	-49.81	0.531606	-0.423195	11.81981	6.3	61.92608	2	11.760038	-135.3532
8.73	11.77	63.3	-49.75	0.537808	-0.422685	11.81975	6.4	62.037549	2	11.76005	-135.3913
8.74	11.81	63.36	-49.75	0.536494	-0.421253	11.85975	6.4	62.149018	2	11.80005	-135.4894
8.75	11.76	64.13	-49.75	0.545323	-0.423044	11.80975	6.4	62.260487	2.1	11.75005	-135.5875
8.76	11.64	64.51	-49.69	0.55421	-0.42689	11.68969	6.4	62.371956	2.1	11.630062	-135.6256
8.77	11.57	64.77	-49.69	0.55981	-0.429473	11.61969	6.4	62.483425	2	11.560062	-135.7237
8.78	11.53	64.8	-49.63	0.562012	-0.430442	11.57963	6.4	62.594894	2	11.520074	-135.7618
8.79	11.57	64.93	-49.57	0.561193	-0.428436	11.61957	6.4	62.706363	2	11.560086	-135.7999
8.8	11.68	64.54	-49.57	0.552568	-0.424401	11.72957	6.4	62.817832	2	11.670086	-135.898
8.81	11.89	64.38	-49.51	0.541463	-0.4164	11.93951	6.4	62.929301	2	11.880098	-135.9361
8.82	11.92	64.42	-49.45	0.540436	-0.414849	11.96945	6.4	63.040769	2	11.91011	-135.9742
8.83	11.95	65.05	-49.45	0.544351	-0.413808	11.99945	6.4	63.152238	2	11.94011	-136.0723
8.84	11.98	65.66	-49.39	0.54808	-0.41227	12.02939	6.4	63.263707	2	11.970122	-136.1104
8.85	12.06	65.63	-49.39	0.544196	-0.409536	12.10939	6.4	63.375176	2	12.050122	-136.2085
8.86	12.16	65.15	-49.34	0.535773	-0.405757	12.20934	6.4	63.486645	2	12.150132	-136.2566
8.87	12.28	64.42	-49.34	0.524593	-0.401792	12.32934	6.4	63.598114	2	12.270132	-136.3547
8.88	12.49	63.14	-49.34	0.505524	-0.395036	12.53934	6.4	63.709583	2	12.480132	-136.4528
8.89	12.49	63.14	-49.34	0.505524	-0.395036	12.53934	6.4	63.821052	2.2	12.480132	-136.5509
8.9	12.49	63.14	-49.34	0.505524	-0.395036	12.53934	6.4	63.932521	1.9	12.480132	-136.649
8.91	12.45	52.42	-48.27	0.421044	-0.387711	12.49827	6.4	64.04399	1.9	12.440346	-135.6771
8.92	12.77	50.47	-48.33	0.395223	-0.378465	12.81833	6.4	64.155459	2	12.760334	-135.8352
8.93	12.85	50.57	-48.27	0.393541	-0.375642	12.89827	6.5	64.268662	2	12.840346	-135.8733
8.94	12.9	50.38	-48.27	0.390543	-0.374186	12.94827	6.5	64.381865	2	12.890346	-135.9714
8.95	12.92	49.33	-48.27	0.381811	-0.373607	12.96827	6.5	64.495068	2	12.910346	-136.0695
8.96	12.91	48.66	-48.27	0.376917	-0.373896	12.95827	6.4	64.606537	2	12.900346	-136.1676
8.97	12.9	47.92	-48.27	0.371473	-0.374186	12.94827	6.5	64.719741	2	12.890346	-136.2657
8.98	12.88	46.29	-48.21	0.359394	-0.374301	12.92821	6.5	64.832944	2	12.870358	-136.3038
8.99	12.95	46.61	-48.21	0.359923	-0.372278	12.99821	6.5	64.946147	2	12.940358	-136.4019
9	13.02	48.18	-48.21	0.370046	-0.370276	13.06821	6.5	65.05935	2	13.010358	-136.5
9.01	13.23	50.73	-48.15	0.383447	-0.363946	13.27815	6.5	65.172553	2.1	13.22037	-136.5381
9.02	13.39	52.74	-48.15	0.393876	-0.359597	13.43815	6.5	65.285757	2.1	13.38037	-136.6362
9.03	13.55	54.37	-48.15	0.401255	-0.355351	13.59815	6.5	65.39896	2	13.54037	-136.7343

9.04	13.91	55.71	-48.21	0.400503	-0.346585	13.95821	6.5	65.512163	2	13.900358	-136.8924
9.05	14.09	54.33	-48.27	0.385593	-0.342583	14.13827	6.5	65.625366	2.1	14.080346	-137.0505
9.06	14.14	54.94	-48.33	0.388543	-0.341796	14.18833	6.5	65.738569	2.1	14.130334	-137.2086
9.07	14.01	53.6	-48.33	0.382584	-0.344968	14.05833	6.5	65.851773	2	14.000334	-137.3067
9.08	13.97	51.43	-48.33	0.368146	-0.345956	14.01833	6.5	65.964976	2	13.960334	-137.4048
9.09	14.03	49.45	-48.33	0.352459	-0.344476	14.07833	6.5	66.078179	2	14.020334	-137.5029
9.1	14.28	47.06	-48.33	0.329552	-0.338445	14.32833	6.5	66.191382	2	14.270334	-137.601
9.11	14.69	40.2	-48.27	0.273656	-0.328591	14.73827	6.6	66.306319	2	14.680346	-137.6391
9.12	14.5	40.3	-49.04	0.277931	-0.338207	14.54904	6.5	66.419523	2	14.490192	-138.5072
9.13	14.23	45.66	-49.57	0.320871	-0.348349	14.27957	6.6	66.53446	2.1	14.220086	-139.1353
9.14	14.15	41.25	-49.57	0.291519	-0.350318	14.19957	6.6	66.649397	2.1	14.140086	-139.2334
9.15	14.95	29.9	-49.45	0.2	-0.330769	14.99945	6.6	66.764334	2	14.94011	-139.2115
9.16	15.61	24.73	-49.39	0.158424	-0.3164	15.65939	6.6	66.879271	2	15.600122	-139.2496
9.17	15.04	22.17	-49.39	0.147407	-0.328391	15.08939	6.2	66.987271	2	15.030122	-139.3477
9.18	12.55	65.88	-48.45	0.52494	-0.386056	12.59845	6.5	67.100474	2	12.54031	-138.5058
9.19	13.09	92.01	-46.09	0.702903	-0.352101	13.13609	6.5	67.213677	2	13.080782	-136.2439
9.2	13.55	89.97	-45.85	0.663985	-0.338376	13.59585	6.5	67.32688	2	13.54083	-136.102
9.21	13.34	67.03	-44.02	0.502474	-0.329985	13.38402	6.5	67.440084	2	13.331196	-134.3701
9.22	13.7	83.72	-43.01	0.611095	-0.313942	13.74301	6.5	67.553287	2	13.691398	-133.4582
9.23	13.72	73.38	-42.54	0.53484	-0.310058	13.76254	6.5	67.66649	2.1	13.711492	-133.0863
9.24	14.01	72.14	-41.95	0.514918	-0.299429	14.05195	6.5	67.779693	2.1	14.00161	-132.5944
9.25	14.38	78.1	-41.54	0.543115	-0.288873	14.42154	6.5	67.892896	2	14.371692	-132.2825
9.26	14.96	72.65	-39.7	0.485628	-0.265374	14.9997	6.5	68.0061	2	14.95206	-130.5406
9.27	15.36	74.75	-39.17	0.486654	-0.255013	15.39917	6.6	68.121037	2	15.352166	-130.1087
9.28	15	69.81	-37.81	0.4654	-0.252067	15.03781	6.5	68.23424	2	14.992438	-128.8468
9.29	15.49	63.59	-37.46	0.410523	-0.241833	15.52746	6.5	68.347443	2	15.482508	-128.5949
9.3	14.98	58	-35.75	0.387183	-0.238652	15.01575	6.3	68.457177	2.1	14.97285	-126.983
9.31	14.07	75.61	-10.99	0.537385	-0.078109	14.08099	6.3	68.566912	2.1	14.067802	-102.3211
9.32	13.73	56.25	-9.57	0.409687	-0.069701	13.73957	6.5	68.680115	2.1	13.728086	-100.9992
9.33	13.46	64.38	0.65	0.478306	0.004829	13.45935	6.5	68.793318	2.1	13.46013	-90.8773
9.34	13.08	49.68	9.63	0.379817	0.073624	13.07037	6.5	68.906521	2	13.081926	-81.9954
9.35	13.6	49.58	10.93	0.364559	0.080368	13.58907	6.5	69.019725	2	13.602186	-80.7935
9.36	14.26	45.02	9.93	0.315708	0.069635	14.25007	6.5	69.132928	2	14.261986	-81.8916
9.37	14.83	51.24	8.27	0.345516	0.055765	14.82173	6.5	69.246131	2	14.831654	-83.6497
9.38	15.14	44.64	13.88	0.294848	0.091678	15.12612	6.5	69.359334	2	15.142776	-78.1378
9.39	14.67	44.83	19.26	0.30559	0.131288	14.65074	6.5	69.472537	2	14.673852	-72.8559
9.4	14.07	47.32	21.92	0.336318	0.155792	14.04808	6.3	69.582272	2	14.074384	-70.294
9.41	14.49	50.76	18.79	0.350311	0.129676	14.47121	6.5	69.695475	2	14.493758	-73.5221
9.42	14.39	40.3	27.36	0.280056	0.190132	14.36264	6.5	69.808678	2	14.395472	-65.0502
9.43	14.11	39.24	34.15	0.278101	0.242027	14.07585	6.5	69.921881	2	14.11683	-58.3583
9.44	13.52	46.96	44.25	0.347337	0.327293	13.47575	6.2	70.029881	2.1	13.52885	-48.3564
9.45	13.68	60.24	47.86	0.440351	0.349854	13.63214	6.6	70.144818	2.1	13.689572	-44.8445
9.46	13.25	50.41	62.75	0.380453	0.473585	13.18725	6	70.249346	2.1	13.26255	-30.0526
9.47	13.12	57.84	61.86	0.440854	0.471494	13.05814	6.6	70.364284	2.1	13.132372	-31.0407
9.48	12.49	63.43	60.21	0.507846	0.482066	12.42979	6.6	70.479221	2	12.502042	-32.7888
9.49	12.66	111.76	59.91	0.88278	0.473223	12.60009	6.5	70.592424	2	12.671982	-33.1869
9.5	12.67	104.49	64.28	0.824704	0.50734	12.60572	6.6	70.707361	2	12.682856	-28.915
9.51	11.74	88.86	50.93	0.756899	0.433816	11.68907	6.6	70.822298	2	11.750186	-42.3631
9.52	11.66	77.08	57.84	0.661063	0.496055	11.60216	6.8	70.940702	2.1	11.671568	-35.5512
9.53	11.68	76.7	58.85	0.656678	0.503853	11.62115	6.6	71.055639	2.1	11.69177	-34.6393
9.54	11.74	76.38	59.68	0.650596	0.508348	11.68032	6.6	71.170576	2.1	11.751936	-33.9074
9.55	11.77	78.2	57.43	0.664401	0.487935	11.71257	6.6	71.285514	2.1	11.781486	-36.2555
9.56	11.69	80.15	58.49	0.685629	0.500342	11.63151	6.6	71.400451	2	11.701698	-35.2936
9.57	11.29	81.1	58.2	0.718335	0.5155	11.2318	6.7	71.517122	2	11.30164	-35.6817
9.58	11.23	82.99	56.9	0.739003	0.506679	11.1731	6.8	71.635525	2.1	11.24138	-37.0798
9.59	11.06	84.74	55.78	0.766184	0.50434	11.00422	6.8	71.753929	2.1	11.071156	-38.2979
9.6	10.81	85.86	55.01	0.794265	0.508881	10.75499	6.8	71.872333	2	10.821002	-39.166
9.61	10.97	84.9	55.54	0.773929	0.50629	10.91446	6.8	71.990737	2	10.981108	-38.7341
9.62	10.95	85.92	55.6	0.784658	0.507763	10.8944	6.8	72.109141	2	10.96112	-38.7722
9.63	10.94	73.99	55.66	0.676325	0.508775	10.88434	6.8	72.227545	2	10.951132	-38.8103
9.64	11.09	68.56	55.95	0.618215	0.504509	11.03405	6.8	72.345949	2	11.10119	-38.6184
9.65	11.35	61.93	56.31	0.545639	0.496123	11.29369	6.8	72.464353	2	11.361262	-38.3565
9.66	11.38	58.61	51.99	0.515026	0.456854	11.32801	6.7	72.581024	2	11.390398	-42.7746
9.67	10.28	65.92	49.93	0.641245	0.4857	10.23007	6.8	72.699428	2.1	10.289986	-44.9327
9.68	9.86	74.21	31.37	0.752637	0.318154	9.82863	6.8	72.817832	2.1	9.866274	-63.5908
9.69	9.55	74.4	29.31	0.779058	0.306911	9.52069	6.8	72.936236	2.1	9.555862	-65.7489
9.7	9.46	70.77	29.36	0.748097	0.310359	9.43064	6.8	73.05464	2.1	9.465872	-65.797
9.71	9.25	68.79	29.48	0.743676	0.318703	9.22052	6.8	73.173044	2.1	9.255896	-65.7751
9.72	8.98	69.78	30.01	0.77706	0.334187	8.94999	6.8	73.291448	2.1	8.986002	-65.3432
9.73	8.85	67.48	30.25	0.762486	0.341808	8.81975	6.8	73.409852	2	8.85605	-65.2013
9.74	8.54	64.51	30.37	0.755386	0.355621	8.50963	6.8	73.528256	2	8.546074	-65.1794
9.75	8.35	64.89	30.31	0.777126	0.362994	8.31969	6.8	73.64666	2.1	8.356062	-65.3375

9.76	8.2	67.57	30.31	0.824024	0.369634	8.16969	6.8	73.765064	2.1	8.206062	-65.4356
9.77	8.05	70.57	30.31	0.876646	0.376522	8.01969	6.8	73.883468	2.1	8.056062	-65.5337
9.78	7.98	72.14	30.37	0.90401	0.380576	7.94963	6.8	74.001872	2.1	7.986074	-65.5718
9.79	7.89	70.41	30.37	0.892395	0.384918	7.85963	6.8	74.120276	2.1	7.896074	-65.6699
9.8	7.83	68.88	30.43	0.879693	0.388633	7.79957	6.8	74.23868	2.1	7.836086	-65.708
9.81	7.79	63.2	30.61	0.811297	0.39294	7.75939	6.8	74.357084	2.1	7.796122	-65.6261
9.82	7.79	48.85	30.78	0.627086	0.395122	7.75922	6.8	74.475488	2.1	7.796156	-65.5542
9.83	7.79	46.65	30.84	0.598845	0.395892	7.75916	6.8	74.593891	2.1	7.796168	-65.5923
9.84	7.83	46.74	30.9	0.596935	0.394636	7.7991	6.8	74.712295	2.1	7.83618	-65.6304
9.85	7.84	43.9	30.96	0.559949	0.394898	7.80904	6.8	74.830699	2.1	7.846192	-65.6685
9.86	7.9	43.52	31.02	0.550886	0.392658	7.86898	6.8	74.949103	2.1	7.906204	-65.7066
9.87	7.97	42.63	31.14	0.534881	0.390715	7.93886	6.8	75.067507	2	7.976228	-65.6847
9.88	7.97	42.63	31.14	0.534881	0.390715	7.93886	6.8	75.185911	0	7.976228	-65.7828
9.89	7.97	42.63	31.14	0.534881	0.390715	7.93886	6.8	75.304315	1.9	7.976228	-65.8809
9.9	7.72	34.43	32.79	0.445984	0.424741	7.68721	6.8	75.422719	1.9	7.726558	-64.329
9.91	8.48	32.51	32.91	0.383373	0.38809	8.44709	6.8	75.541123	2	8.486582	-64.3071
9.92	8.8	31.62	32.97	0.359318	0.374659	8.76703	6.8	75.659527	2	8.806594	-64.3452
9.93	9.08	31.49	33.09	0.346806	0.364427	9.04691	6.8	75.777931	2	9.086618	-64.3233
9.94	9.7	31.04	33.32	0.32	0.343505	9.66668	6.8	75.896335	2	9.706664	-64.1914
9.95	9.92	31.17	33.38	0.314214	0.336492	9.88662	6.8	76.014739	2.1	9.926676	-64.2295
9.96	9.94	31.46	33.38	0.316499	0.335815	9.90662	6.8	76.133143	2.1	9.946676	-64.3276
9.97	9.85	32.42	33.5	0.329137	0.340102	9.8165	6.8	76.251547	2	9.8567	-64.3057
9.98	9.72	32.73	33.5	0.336728	0.34465	9.6865	6.8	76.369951	2	9.7267	-64.4038
9.99	9.76	33.15	33.62	0.339652	0.344467	9.72638	6.8	76.488355	2	9.766724	-64.3819
10	9.75	33.72	33.86	0.345846	0.347282	9.71614	6.8	76.606759	2.1	9.756772	-64.24
10.01	11.41	85.19	34.03	0.746626	0.298247	11.37597	6.6	76.721696	2	11.416806	-64.1681
10.02	12.14	95.49	35.75	0.786573	0.294481	12.10425	6.6	76.836633	2	12.14715	-62.5462
10.03	13.18	111.22	36.45	0.843854	0.276555	13.14355	6.6	76.95157	2	13.18729	-61.9443
10.04	13.33	117.89	35.69	0.884396	0.267742	13.29431	6.5	77.064774	2	13.337138	-62.8024
10.05	13.08	137.51	24.64	1.0513	0.188379	13.05536	6.5	77.177977	2	13.084928	-73.9505
10.06	11.24	151.52	-81.83	1.348043	-0.728025	11.32183	6.4	77.289446	2	11.223634	-180.5186
10.07	9.94	142.87	-89.28	1.437324	-0.898189	10.02928	6.4	77.400915	2	9.922144	-188.0667
10.08	8.81	139.33	-88.74	1.581498	-1.007264	8.89874	6.3	77.510649	2	8.792252	-187.6248
10.09	6.94	160.8	-88.39	2.317003	-1.273631	7.02839	6.4	77.622118	2.1	6.922322	-187.3729
10.1	5.14	184.38	-88.27	3.58716	-1.717315	5.22827	6.5	77.735321	2.1	5.122346	-187.351
10.11	3.91	189.48	-88.57	4.846036	-2.265217	3.99857	6.3	77.845055	2.1	3.892286	-187.7491
10.12	3.2	188.88	-87.5	5.9025	-2.734375	3.2875	6.4	77.956524	2.1	3.1825	-186.7772
10.13	2.49	198.26	-82.66	7.962249	-3.319679	2.57266	6.4	78.067993	2.1	2.473468	-182.0353
10.14	1.69	217.21	-75.51	12.852663	-4.468047	1.76551	6.4	78.179462	2.1	1.674898	-174.9834
10.15	1.75	215.58	-75.21	12.318857	-4.297714	1.82521	6.4	78.290931	2.1	1.734958	-174.7815
10.16	1.98	212.3	-74.86	10.722222	-3.780808	2.05486	6.4	78.4024	2.1	1.965028	-174.5296
10.17	2.35	206.62	-74.56	8.79234	-3.172766	2.42456	6.4	78.513869	2	2.335088	-174.3277
10.18	2.81	202.92	-74.33	7.221352	-2.645196	2.88433	6.5	78.627072	2	2.795134	-174.1958
10.19	3.5	201.35	-73.97	5.752857	-2.113429	3.57397	6.4	78.738541	2	3.485206	-173.9339
10.2	8.51	216.6	-75.27	2.545241	-0.884489	8.58527	6.5	78.851744	2	8.494946	-175.332
10.21	7.8	249.37	-75.04	3.197051	-0.962051	7.87504	6.7	78.968415	2	7.784992	-175.2001
10.22	8.86	241.97	-75.21	2.731038	-0.848871	8.93521	6.8	79.086819	2	8.844958	-175.4682
10.23	10.01	220.02	-74.86	2.198002	-0.747852	10.08486	6.9	79.206956	2	9.995028	-175.2163
10.24	11.73	187.98	-74.27	1.602558	-0.633163	11.80427	7.2	79.332289	2	11.715146	-174.7244
10.25	13.88	145.23	-71.79	1.046326	-0.517219	13.95179	7.2	79.457622	2	13.865642	-172.3425
10.26	15.68	128.58	-72.32	0.820026	-0.461224	15.75232	7.3	79.584687	2	15.665536	-172.9706
10.27	15.38	95.72	-72.14	0.622367	-0.469051	15.45214	6.8	79.703091	2	15.365572	-172.8887
10.28	12.96	75.2	-71.85	0.580247	-0.554398	13.03185	7.4	79.831887	2	12.94563	-172.6968
10.29	13.09	43.81	-70.49	0.334683	-0.538503	13.16049	7.5	79.962413	2	13.075902	-171.4349
10.3	11.49	62.76	-69.78	0.546214	-0.607311	11.55978	7.5	80.092939	2	11.476044	-170.823
10.31	10.72	186.29	-70.61	1.73778	-0.658675	10.79061	7.4	80.221735	2	10.705878	-171.7511
10.32	11.15	230.16	-56.48	2.064215	-0.506547	11.20648	7.5	80.352261	2	11.138704	-157.7192
10.33	10.39	223.59	-55.6	2.151973	-0.53513	10.4456	7.3	80.479325	2	10.37888	-156.9373
10.34	8.85	202.09	-55.42	2.283503	-0.626215	8.90542	7.5	80.609852	2	8.838916	-156.8554
10.35	8.47	192.23	-55.3	2.26954	-0.652893	8.5253	7.4	80.738647	2.1	8.45894	-156.8335
10.36	8.14	163.67	-32.73	2.010688	-0.402088	8.17273	7.4	80.867443	2.1	8.133454	-134.3616
10.37	7.17	118.72	115.63	1.655788	1.612692	7.05437	7.6	80.999699	2.1	7.193126	13.9003
10.38	6.43	99.07	105.35	1.540747	1.638414	6.32465	7.7	81.133685	2.1	6.45107	3.5222
10.39	7.65	143.76	58.79	1.879216	0.768497	7.59121	7.7	81.267672	2	7.661758	-43.1359
10.4	7.8	147.85	46.2	1.895513	0.592308	7.7538	7.5	81.398198	2	7.80924	-55.824
10.41	8.2	150.37	40.59	1.83378	0.495	8.15941	7.8	81.533913	2	8.208118	-61.5321
10.42	8.1	157.9	29.72	1.949383	0.366914	8.07028	7.9	81.671358	2	8.105944	-72.5002
10.43	7.66	170.44	25.64	2.225065	0.334726	7.63436	7.9	81.808802	2	7.665128	-76.6783
10.44	6.33	87.07	35.1	1.375513	0.554502	6.2949	7.9	81.946247	2.1	6.33702	-67.3164
10.45	5.52	128.48	42.84	2.327536	0.776087	5.47716	8	82.08542	2.1	5.528568	-59.6745
10.46	5.71	124.46	45.85	2.179685	0.802977	5.66415	8.1	82.226321	2	5.71917	-56.7626
10.47	5.74	119.87	46.68	2.088328	0.81324	5.69332	8.1	82.367222	2	5.749336	-56.0307

10.48	5.8	121.43	45.85	2.093621	0.790517	5.75415	8.1	82.508124	2	5.80917	-56.9588
10.49	5.93	123.34	52.11	2.079933	0.878752	5.87789	8.1	82.649025	2	5.940422	-50.7969
10.5	6.09	138.63	53.18	2.276355	0.873235	6.03682	8.1	82.789926	2	6.100636	-49.825
10.51	6.11	147.31	55.36	2.410966	0.906056	6.05464	8.1	82.930827	2	6.121072	-47.7431
10.52	7.06	139.36	57.43	1.973938	0.813456	7.00257	8.1	83.071729	2	7.071486	-45.7712
10.53	7.68	142.36	55.72	1.853646	0.725521	7.62428	8.1	83.21263	2	7.691144	-47.5793
10.54	8.26	148.42	54.3	1.796852	0.657385	8.2057	8.1	83.353531	2	8.27086	-49.0974
10.55	8.9	149.03	53.12	1.674494	0.596854	8.84688	8.1	83.494432	2	8.910624	-50.3755
10.56	9.46	146.6	51.4	1.549683	0.54334	9.4086	8.1	83.635334	2	9.47028	-52.1936
10.57	9.9	142.17	50.28	1.436061	0.507879	9.84972	8.1	83.776235	2	9.910056	-53.4117
10.58	10.35	144.4	49.57	1.395169	0.478937	10.30043	8.1	83.917136	2	10.359914	-54.2198
10.59	10.91	82	48.27	0.751604	0.442438	10.86173	8.2	84.059765	2	10.919654	-55.6179
10.6	11.18	72.68	47.44	0.650089	0.424329	11.13256	8.2	84.202394	2	11.189488	-56.546
10.61	11.64	68.15	47.21	0.585481	0.405584	11.59279	8.2	84.345023	2	11.649442	-56.8741
10.62	12.12	70.16	46.74	0.578878	0.385644	12.07326	8.2	84.487652	2	12.129348	-57.4422
10.63	12.63	68.47	46.03	0.542122	0.36445	12.58397	8.2	84.630281	2	12.639206	-58.2503
10.64	13.01	68.21	45.02	0.524289	0.346042	12.96498	8.2	84.77291	2	13.019004	-59.3584
10.65	13.39	76.25	43.6	0.569455	0.325616	13.3464	8.2	84.915539	2	13.39872	-60.8765
10.66	13.45	84.1	42.3	0.625279	0.314498	13.4077	8.2	85.058168	2	13.45846	-62.2746
10.67	13.44	86.08	41.12	0.640476	0.305952	13.39888	8.2	85.200796	2	13.448224	-63.5527
10.68	13.37	86.91	39.76	0.650037	0.297382	13.33024	8.2	85.343425	2.1	13.377952	-65.0108
10.69	13.23	91.06	38.46	0.688284	0.290703	13.19154	8.2	85.486054	2.1	13.237692	-66.4089
10.7	13.04	93.86	37.16	0.719785	0.284969	13.00284	8.2	85.628683	2	13.047432	-67.807
10.71	12.5	96.03	34.68	0.76824	0.27744	12.46532	8.2	85.771312	2	12.506936	-70.3851
10.72	12.24	95.05	33.62	0.776552	0.274673	12.20638	8.2	85.913941	2	12.246724	-71.5432
10.73	11.9	92.3	32.38	0.77563	0.272101	11.86762	8.4	86.060024	2	11.906476	-72.8813
10.74	11.6	84.93	31.37	0.732155	0.270431	11.56863	8.2	86.202653	2	11.606274	-73.9894
10.75	11.28	82.35	30.49	0.730053	0.270301	11.24951	8.2	86.345282	2	11.286098	-74.9675
10.76	10.86	79.89	29.84	0.735635	0.27477	10.83016	8.2	86.487911	2.1	10.865968	-75.7156
10.77	10.4	78.74	29.36	0.757115	0.282308	10.37064	8.4	86.633994	2.1	10.405872	-76.2937
10.78	9.72	79.25	28.54	0.815329	0.293621	9.69146	8.4	86.780077	2	9.725708	-77.2118
10.79	9.37	78.87	27.77	0.841729	0.296371	9.34223	8.4	86.92616	2	9.375554	-78.0799
10.8	8.99	79.41	26.65	0.883315	0.29644	8.96335	8.4	87.072243	2.1	8.99533	-79.298
10.81	8.65	80.91	25.52	0.935376	0.295029	8.62448	8.4	87.218326	2.1	8.655104	-80.5261
10.82	8.37	81.68	24.64	0.975866	0.294385	8.34536	8.4	87.364409	2	8.374928	-81.5042
10.83	8.11	83.05	23.93	1.024044	0.295068	8.08607	8.4	87.510492	2	8.114786	-82.3123
10.84	7.86	82.6	23.16	1.050891	0.294656	7.83684	8.4	87.656575	2.1	7.864632	-83.1804
10.85	7.57	81.77	22.45	1.080185	0.296565	7.54755	8.4	87.802658	2.1	7.57449	-83.9885
10.86	7.22	83.94	21.51	1.162604	0.297922	7.19849	8.5	87.950468	2.1	7.224302	-85.0266
10.87	6.49	92.3	19.03	1.422188	0.29322	6.47097	8.5	88.098277	2.1	6.493806	-87.6047
10.88	6.49	92.3	19.03	1.422188	0.29322	6.47097	8.5	88.246086	2.2	6.493806	-87.7028
10.89	6.49	92.3	19.03	1.422188	0.29322	6.47097	8.5	88.393896	1.9	6.493806	-87.8009
10.9	6.29	83.97	51.23	1.334976	0.814467	6.23877	8.5	88.541705	1.9	6.300246	-55.699
10.91	6.24	80.91	48.33	1.296635	0.774519	6.19167	8.5	88.689515	2	6.249666	-58.6971
10.92	5.9	89.43	43.84	1.515763	0.743051	5.85616	8.5	88.837324	2	5.908768	-63.2852
10.93	5.8	91.31	42.95	1.57431	0.740517	5.75705	8.5	88.985133	2	5.80859	-64.2733
10.94	5.73	90.67	43.31	1.582373	0.755846	5.68669	8.5	89.132943	2	5.738662	-64.0114
10.95	5.93	94.73	44.25	1.59747	0.746206	5.88575	8.5	89.280752	2.1	5.93885	-63.1695
10.96	6.32	109.72	46.68	1.736076	0.738608	6.27332	8.5	89.428562	2.1	6.329336	-60.8376
10.97	6.54	119.58	49.93	1.82844	0.763456	6.49007	8.5	89.576371	2	6.549986	-57.6857
10.98	6.72	115.24	47.74	1.714881	0.710417	6.67226	8.5	89.724181	2	6.729548	-59.9738
10.99	7.04	112.78	45.08	1.601989	0.640341	6.99492	8.5	89.87199	2	7.049016	-62.7319
11	7.84	116.64	45.38	1.487755	0.578827	7.79462	8.6	90.021525	2	7.849076	-62.53
11.01	10.35	124.68	47.39	1.204638	0.457874	10.30261	8.6	90.171061	2	10.359478	-60.6181
11.02	11.9	128.1	48.63	1.076471	0.408655	11.85137	8.6	90.320596	2	11.909726	-59.4762
11.03	13.78	132.76	49.69	0.963425	0.360595	13.73031	8.6	90.470131	2	13.789938	-58.5143
11.04	14.43	135.37	48.86	0.938115	0.3386	14.38114	8.6	90.619667	2	14.439772	-59.4424
11.05	15.01	134.16	47.98	0.893804	0.319654	14.96202	8.6	90.769202	2	15.019596	-60.4205
11.06	14.01	135.76	47.33	0.969022	0.33783	13.96267	8.6	90.918737	2	14.019466	-61.1686
11.07	15.93	134.32	46.68	0.843189	0.293032	15.88332	8.6	91.068273	2	15.939336	-61.9167
11.08	16.41	133.97	45.97	0.816392	0.280134	16.36403	8.6	91.217808	2	16.419194	-62.7248
11.09	17.08	130.46	44.14	0.763817	0.258431	17.03586	8.6	91.367343	2	17.088828	-64.6529
11.1	17.31	129.76	43.49	0.749624	0.251242	17.26651	8.6	91.516879	2	17.318698	-65.401
11.11	17.43	128.74	42.54	0.738612	0.244062	17.38746	8.6	91.666414	2	17.438508	-66.4491
11.12	17.52	129.44	41.71	0.738813	0.238071	17.47829	8.6	91.815949	2	17.528342	-67.3772
11.13	17.52	130.52	40.65	0.744977	0.232021	17.47935	8.6	91.965485	2	17.52813	-68.5353
11.14	17.54	135.76	39.82	0.774002	0.227024	17.50018	8.6	92.11502	2	17.547964	-69.4634
11.15	17.57	141.15	38.94	0.803358	0.221628	17.53106	8.6	92.264555	2	17.577788	-70.4415
11.16	17.6	143.25	37.05	0.81392	0.210511	17.56295	8.6	92.414091	2	17.60741	-72.4296
11.17	17.64	140.57	36.16	0.796882	0.204989	17.60384	8.6	92.563626	2	17.647232	-73.4177
11.18	17.71	138.5	35.45	0.782044	0.200169	17.67455	8.6	92.713161	2	17.71709	-74.2258
11.19	17.8	135.18	34.74	0.759438	0.195169	17.76526	8.6	92.862697	2	17.806948	-75.0339

11.2	17.84	138.91	34.03	0.778643	0.190751	17.80597	8.7	93.013958	2	17.846806	-75.842
11.21	17.9	147.53	32.61	0.82419	0.182179	17.86739	8.7	93.165218	2	17.906522	-77.3601
11.22	17.96	150.27	32.02	0.836693	0.178285	17.92798	8.6	93.314754	2	17.966404	-78.0482
11.23	17.97	153.56	31.14	0.854535	0.173289	17.93886	8.7	93.466015	2	17.976228	-79.0263
11.24	17.93	154.77	30.43	0.86319	0.169716	17.89957	8.7	93.617275	2	17.936086	-79.8344
11.25	17.79	154.07	29.66	0.866048	0.166723	17.76034	8.7	93.768536	2	17.795932	-80.7025
11.26	17.58	153.97	28.83	0.875825	0.163993	17.55117	8.7	93.919797	2	17.585766	-81.6306
11.27	17.3	154.29	27.24	0.89185	0.157457	17.27276	8.7	94.071058	2	17.305448	-83.3187
11.28	17.14	153.08	26.47	0.893116	0.154434	17.11353	8.7	94.222319	2	17.145294	-84.1868
11.29	17.02	153.43	25.76	0.901469	0.151351	16.99424	8.7	94.37358	2	17.025152	-84.9949
11.3	16.89	149.35	25.05	0.884251	0.148313	16.86495	8.7	94.52484	2	16.89501	-85.803
11.31	16.8	147.98	24.52	0.880833	0.145952	16.77548	8.7	94.676101	2	16.804904	-86.4311
11.32	16.78	145.55	23.87	0.867402	0.142253	16.75613	8.7	94.827362	2	16.784774	-87.1792
11.33	16.63	139.07	22.75	0.83626	0.136801	16.60725	8.7	94.978623	2	16.63455	-88.3973
11.34	16.57	136.94	22.16	0.826433	0.133736	16.54784	8.7	95.129884	2	16.574432	-89.0854
11.35	16.56	136.27	21.68	0.822886	0.130918	16.53832	8.7	95.281144	2	16.564336	-89.6635
11.36	16.6	135.21	21.15	0.814518	0.12741	16.57885	8.7	95.432405	2	16.60423	-90.2916
11.37	16.65	132.79	20.74	0.797538	0.124565	16.62926	8.7	95.583666	2	16.654148	-90.7997
11.38	17.08	128.29	19.97	0.751112	0.11692	17.06003	8.7	95.734927	2.1	17.083994	-91.6678
11.39	17.32	125.2	19.62	0.722864	0.113279	17.30038	8.7	95.886188	2.1	17.323924	-92.1159
11.4	17.53	123.22	19.32	0.702909	0.110211	17.51068	8.7	96.037449	2	17.533864	-92.514
11.41	17.75	122.13	19.03	0.688056	0.107211	17.73097	8.7	96.188709	2	17.753806	-92.9021
11.42	17.92	121.27	18.67	0.67673	0.104185	17.90133	8.7	96.33997	2	17.923734	-93.3602
11.43	18.04	123.73	18.32	0.685865	0.101552	18.02168	8.7	96.491231	2	18.043664	-93.8083
11.44	18.26	125.26	17.61	0.68598	0.09644	18.24239	8.7	96.642492	2	18.263522	-94.6164
11.45	18.41	128.61	17.25	0.698588	0.093699	18.39275	8.7	96.793753	2	18.41345	-95.0745
11.46	18.54	132.25	16.84	0.713323	0.090831	18.52316	8.7	96.945013	2	18.543368	-95.5826
11.47	18.66	136.14	16.54	0.729582	0.088639	18.64346	8.7	97.096274	2	18.663308	-95.9807
11.48	18.81	140.96	16.13	0.749389	0.085752	18.79387	8.7	97.247535	2	18.813226	-96.4888
11.49	18.9	145.71	15.83	0.770952	0.083757	18.88417	8.7	97.398796	2	18.903166	-96.8869
11.5	19.11	156.27	15.07	0.817739	0.078859	19.09493	8.7	97.550057	2	19.113014	-97.745
11.51	19.18	161.47	14.59	0.841867	0.076069	19.16541	8.7	97.701318	2	19.182918	-98.3231
11.52	19.15	165.81	14.18	0.865849	0.074047	19.13582	8.7	97.852578	2	19.152836	-98.8312
11.53	19.12	169.26	13.77	0.885251	0.072019	19.10623	8.7	98.003839	2	19.122754	-99.3393
11.54	19.03	169.8	13.23	0.892275	0.069522	19.01677	8.7	98.1551	2	19.032646	-99.9774
11.55	18.95	167.34	12.76	0.883061	0.067335	18.93724	8.7	98.306361	2	18.952552	-100.5455
11.56	18.76	161.69	11.82	0.861887	0.063006	18.74818	8.7	98.457622	2	18.762364	-101.5836
11.57	18.67	159.56	11.34	0.854633	0.060739	18.65866	8.7	98.608883	2	18.672268	-102.1617
11.58	18.55	156.53	10.99	0.843827	0.059245	18.53901	8.7	98.760143	2	18.552198	-102.6098
11.59	18.44	153.21	10.52	0.830857	0.05705	18.42948	8.8	98.913129	2	18.442104	-103.1779
11.6	18.33	151.07	10.04	0.824168	0.054774	18.31996	8.8	99.066115	2	18.332008	-103.756
11.61	18.19	148.1	9.63	0.814184	0.052941	18.18037	8.7	99.217376	2	18.191926	-104.2641
11.62	17.87	140.45	8.74	0.785954	0.048909	17.86126	8.9	99.372086	2	17.871748	-105.2522
11.63	17.66	133.97	8.27	0.758607	0.046829	17.65173	8.8	99.525072	2	17.661654	-105.8203
11.64	17.48	132.25	7.74	0.756579	0.044279	17.47226	8.9	99.679782	2	17.481548	-106.4484
11.65	17.26	132.44	7.33	0.767323	0.042468	17.25267	8.9	99.834493	2	17.261466	-106.9565
11.66	17.08	132.5	6.91	0.775761	0.040457	17.07309	8.9	99.989203	2	17.081382	-107.4746
11.67	16.9	131.67	6.44	0.779112	0.038107	16.89356	8.9	100.143914	2	16.901288	-108.0427
11.68	16.51	130.04	5.61	0.787644	0.033979	16.50439	8.9	100.298624	2	16.511122	-108.9708
11.69	16.41	128.23	5.26	0.781414	0.032054	16.40474	8.9	100.453334	2	16.411052	-109.4189
11.7	16.29	125.2	4.84	0.76857	0.029711	16.28516	8.9	100.608045	2	16.290968	-109.937
11.71	16.25	121.43	4.43	0.747262	0.027262	16.24557	8.9	100.762755	2	16.250886	-110.4451
11.72	16.22	118.65	4.19	0.731504	0.025832	16.21581	8.9	100.917466	2	16.220838	-110.7832
11.73	16.19	116.33	3.84	0.71853	0.023718	16.18616	8.9	101.072176	2	16.190768	-111.2313
11.74	16.14	114.22	3.49	0.707683	0.021623	16.13651	8.9	101.226886	2	16.140698	-111.6794
11.75	16.05	112.59	2.78	0.701495	0.017321	16.04722	8.9	101.381597	2	16.050556	-112.4875
11.76	15.98	112.02	2.48	0.701001	0.015519	15.97752	8.9	101.536307	2	15.980496	-112.8856
11.77	15.97	112.05	2.19	0.701628	0.013713	15.96781	9	101.692742	2	15.970438	-113.2737
11.78	15.85	111.73	1.83	0.704921	0.011546	15.84817	8.9	101.847452	2	15.850366	-113.7318
11.79	15.83	112.15	1.42	0.708465	0.00897	15.82858	8.9	102.002162	2	15.830284	-114.2399
11.8	15.74	112.05	0.89	0.711881	0.005654	15.73911	9	102.158597	2	15.740178	-114.868
11.81	15.75	109.91	0.59	0.697841	0.003746	15.74941	9	102.315031	2	15.750118	-115.2661
11.82	15.74	105.03	0.35	0.667281	0.002224	15.73965	9	102.471466	2	15.74007	-115.6042
11.83	15.8	100.56	0	0.636456	0	15.8	9	102.6279	2	15.8	-116.0523
11.84	15.71	98.65	-0.24	0.627944	-0.001528	15.71024	9	102.784335	2	15.709952	-116.3904
11.85	15.7	96.96	-0.53	0.61758	-0.003376	15.70053	9	102.940769	2.1	15.699894	-116.7785
11.86	15.67	94.18	-1.12	0.601021	-0.007147	15.67112	9	103.097204	2.1	15.669776	-117.4666
11.87	15.65	91.5	-1.36	0.584665	-0.00869	15.65136	9	103.253638	2	15.649728	-117.8047
11.88	15.58	89.02	-1.65	0.571374	-0.010591	15.58165	9	103.410072	2	15.57967	-118.1928
11.89	15.58	89.02	-1.65	0.571374	-0.010591	15.58165	9	103.566507	1.8	15.57967	-118.2909
11.9	15.58	89.02	-1.65	0.571374	-0.010591	15.58165	9	103.722941	2	15.57967	-118.389
11.91	14.93	66.3	16.66	0.444072	0.111587	14.91334	9	103.879376	2	14.933332	-100.1771

11.92	14.62	68.6	15.66	0.46922	0.107114	14.60434	9.1	104.037534	2	14.623132	-101.2752
11.93	14.2	69.74	14.59	0.491127	0.102746	14.18541	9.1	104.195692	2	14.202918	-102.4433
11.94	13.06	69.49	12.47	0.532083	0.095482	13.04753	9	104.352126	2	13.062494	-104.6614
11.95	12.32	67.96	11.34	0.551623	0.092045	12.30866	9.1	104.510285	2	12.322268	-105.8895
11.96	11.48	66.78	10.69	0.581707	0.093118	11.46931	9	104.666719	2	11.482138	-106.6376
11.97	10.67	66.14	9.99	0.619869	0.093627	10.66001	9.1	104.824877	2	10.671998	-107.4357
11.98	9.96	66.08	9.45	0.663454	0.09488	9.95055	9.2	104.984758	2	9.96189	-108.0738
11.99	9.24	67.03	8.98	0.725433	0.097186	9.23102	9.2	105.144639	2	9.241796	-108.6419
12	8.5	68.95	8.63	0.811176	0.101529	8.49137	9.2	105.304521	2	8.501726	-109.09
12.01	7.04	70.8	7.98	1.005682	0.113352	7.03202	9.1	105.462679	2.1	7.041596	-109.8381
12.02	5.85	75.93	7.33	1.297949	0.125299	5.84267	9.1	105.620837	2.1	5.851466	-110.5862
12.03	5.45	81.55	6.85	1.49633	0.125688	5.44315	9.1	105.778995	2.1	5.45137	-111.1643
12.04	5.06	92.56	7.03	1.829249	0.138933	5.05297	9.1	105.937153	2	5.061406	-111.0824
12.05	4.85	104.78	7.27	2.160412	0.149897	4.84273	9.1	106.095311	2	4.851454	-110.9405
12.06	4.75	115.15	6.85	2.424211	0.144211	4.74315	9.2	106.255192	2.1	4.75137	-111.4586
12.07	4.3	127.49	8.09	2.964884	0.18814	4.29191	9.2	106.415073	2.1	4.301618	-110.3167
12.08	4.3	127.49	8.09	2.964884	0.18814	4.29191	9.2	106.574955	2	4.301618	-110.4148
12.09	4.13	139.58	10.16	3.379661	0.246005	4.11984	9.3	106.736558	2	4.132032	-108.4429
12.1	4.19	141.31	11.88	3.372554	0.283532	4.17812	9.1	106.894716	2	4.192376	-106.821
12.11	4.36	133.81	12.64	3.069037	0.289908	4.34736	9.3	107.05632	2	4.362528	-106.1591
12.12	4.6	129.82	12.64	2.822174	0.274783	4.58736	9.3	107.217924	2	4.602528	-106.2572
12.13	4.97	133.2	12.53	2.68008	0.252113	4.95747	9.3	107.379528	2	4.972506	-106.4653
12.14	6.2	133.81	13.65	2.158226	0.220161	6.18635	9.3	107.541132	2	6.20273	-105.4434
12.15	6.81	129.85	13.53	1.906755	0.198678	6.79647	9.3	107.702736	2	6.812706	-105.6615
12.16	7.19	126.79	13.06	1.763421	0.181641	7.17694	9.3	107.864339	2	7.192612	-106.2296
12.17	7.42	124.27	12.58	1.674798	0.169542	7.40742	9.3	108.025943	2	7.422516	-106.8077
12.18	7.5	118.62	11.99	1.5816	0.159867	7.48801	9.3	108.187547	2	7.502398	-107.4958
12.19	7.47	112.66	11.34	1.508166	0.151807	7.45866	9.3	108.349151	2	7.472268	-108.2439
12.2	7.6	97.12	10.4	1.277895	0.136842	7.5896	9.3	108.510755	2	7.60208	-109.282
12.21	7.63	88.5	9.87	1.159895	0.129358	7.62013	9.3	108.672358	2	7.631974	-109.9101
12.22	7.62	79.19	9.57	1.039239	0.125591	7.61043	9.4	108.835684	2	7.621914	-110.3082
12.23	7.59	66.62	9.39	0.877734	0.123715	7.58061	9.4	108.99901	2	7.591878	-110.5863
12.24	7.54	55.67	9.1	0.738329	0.12069	7.5309	9.3	109.160614	2.1	7.54182	-110.9744
12.25	7.48	54.43	8.8	0.727674	0.117647	7.4712	9.4	109.32394	2.1	7.48176	-111.3725
12.26	7.34	57.56	8.27	0.784196	0.11267	7.33173	9.4	109.487266	2	7.341654	-112.0006
12.27	6.73	58.39	6.79	0.867608	0.100892	6.72321	9.4	109.650592	2	6.731358	-113.5787
12.28	6.34	57.56	6.03	0.907886	0.09511	6.33397	9.4	109.813918	2	6.341206	-114.4368
12.29	5.92	57.52	5.44	0.971622	0.091892	5.91456	9.4	109.977244	2	5.921088	-115.1249
12.3	5.41	53.22	4.84	0.983734	0.089464	5.40516	9.4	110.14057	2.1	5.410968	-115.823
12.31	4.93	47.95	4.25	0.972617	0.086207	4.92575	9.4	110.303896	2.1	4.93085	-116.5111
12.32	4.52	46.29	3.6	1.024115	0.079646	4.5164	9.4	110.467222	2	4.52072	-117.2592
12.33	4.16	46.77	3.07	1.124279	0.073798	4.15693	9.4	110.630548	2	4.160614	-117.8873
12.34	3.5	50.35	2.72	1.438571	0.077714	3.49728	9.4	110.793874	2.1	3.500544	-118.3354
12.35	3.24	53.57	2.9	1.653395	0.089506	3.2371	9.6	110.960643	2.1	3.24058	-118.2535
12.36	2.92	58.1	3.13	1.989726	0.107192	2.91687	9.4	111.123969	2.1	2.920626	-118.1216
12.37	2.63	62.79	3.84	2.387452	0.146008	2.62616	9.6	111.290737	2	2.630768	-117.5097
12.38	2.72	67.93	5.26	2.497426	0.193382	2.71474	9.6	111.457506	2	2.721052	-116.1878
12.39	3.1	71.31	7.15	2.300323	0.230645	3.09285	9.6	111.624275	2.1	3.10143	-114.3959
12.4	3.57	69.62	8.21	1.95014	0.229972	3.56179	9.6	111.791044	2.1	3.571642	-113.434
12.41	3.93	72.36	8.86	1.841221	0.225445	3.92114	9.6	111.957812	2.1	3.931772	-112.8821
12.42	3.97	76.35	8.21	1.923174	0.206801	3.96179	9.6	112.124581	2.1	3.971642	-113.6302
12.43	3.84	75.49	7.33	1.965885	0.190885	3.83267	9.6	112.29135	2	3.841466	-114.6083
12.44	3.69	77.24	6.74	2.093225	0.182656	3.68326	9.6	112.458119	2	3.691348	-115.2964
12.45	3.57	73.92	6.26	2.070588	0.17535	3.56374	9.6	112.624887	2.1	3.571252	-115.8745
12.46	3.41	67.45	6.03	1.978006	0.176833	3.40397	9.6	112.791656	2.1	3.411206	-116.2026
12.47	3.3	61.32	5.79	1.858182	0.175455	3.29421	9.6	112.958425	2.1	3.301158	-116.5407
12.48	3.23	59.98	5.61	1.856966	0.173684	3.22439	9.6	113.125194	2.1	3.231122	-116.8188
12.49	3.11	59.85	5.26	1.924437	0.169132	3.10474	9.6	113.291962	2.1	3.111052	-117.2669
12.5	2.85	56.76	4.67	1.991579	0.16386	2.84533	9.6	113.458731	2.1	2.850934	-117.955
12.51	2.68	49.23	4.55	1.83694	0.169776	2.67545	9.6	113.6255	2	2.68091	-118.1731
12.52	2.49	44.95	4.31	1.805221	0.173092	2.48569	9.6	113.792268	2	2.490862	-118.5112
12.53	2.33	42.94	4.14	1.842918	0.177682	2.32586	9.7	113.960758	2.1	2.330828	-118.7793
12.54	2.2	43.23	4.25	1.965	0.193182	2.19575	9.6	114.127527	2.1	2.20085	-118.7674
12.55	2.11	45.4	4.49	2.151659	0.212796	2.10551	9.7	114.296016	2	2.110898	-118.6255
12.56	2.13	49.74	5.02	2.335211	0.235681	2.12498	9.7	114.464505	2	2.131004	-118.1936
12.57	2.67	52.29	6.68	1.958427	0.250187	2.66332	9.7	114.632995	2	2.671336	-116.6317
12.58	3.11	55.16	8.04	1.773633	0.258521	3.10196	9.7	114.801484	2	3.111608	-115.3698
12.59	3.74	56.34	9.63	1.506417	0.257487	3.73037	9.7	114.969974	2	3.741926	-113.8779
12.6	4.2	55.48	10.16	1.320952	0.241905	4.18984	9.7	115.138463	2	4.202032	-113.446
12.61	4.45	55.29	9.99	1.242472	0.224494	4.44001	9.7	115.306952	2	4.451998	-113.7141
12.62	4.5	53.41	9.75	1.186889	0.216667	4.49025	9.7	115.475442	2	4.50195	-114.0522
12.63	4.33	43.71	9.28	1.009469	0.214319	4.32072	9.7	115.643931	2	4.331856	-114.6203

12.64	4.14	37.52	9.1	0.90628	0.219807	4.1309	9.7	115.81242	2	4.14182	-114.8984
12.65	3.99	33.02	9.22	0.827569	0.231078	3.98078	9.7	115.98091	2.1	3.991844	-114.8765
12.66	4	31.62	9.57	0.7905	0.23925	3.99043	9.7	116.149399	2.1	4.001914	-114.6246
12.67	4.08	34.11	9.87	0.836029	0.241912	4.07013	9.7	116.317889	2	4.081974	-114.4227
12.68	4.11	38.25	10.04	0.930657	0.244282	4.09996	9.7	116.486378	2	4.112008	-114.3508
12.69	4.1	41.41	10.34	1.01	0.252195	4.08966	9.7	116.654867	2	4.102068	-114.1489
12.7	4.05	44.57	10.99	1.100494	0.271358	4.03901	9.7	116.823357	2	4.052198	-113.597
12.71	4.06	46.58	10.81	1.147291	0.266256	4.04919	9.7	116.991846	2	4.062162	-113.8751
12.72	4.07	51.24	10.22	1.258968	0.251106	4.05978	9.7	117.160335	2	4.072044	-114.5632
12.73	4.06	53.86	9.69	1.326601	0.23867	4.05031	9.7	117.328825	2	4.061938	-115.1913
12.74	4.04	55.93	9.04	1.384406	0.223762	4.03096	9.7	117.497314	2	4.041808	-115.9394
12.75	3.97	60.43	8.45	1.522166	0.212846	3.96155	9.8	117.667524	2.1	3.97169	-116.6275
12.76	3.8	64.29	7.8	1.691842	0.205263	3.7922	9.8	117.837733	2.1	3.80156	-117.3756
12.77	3.43	69.74	6.5	2.033236	0.189504	3.4235	9.8	118.007943	2.1	3.4313	-118.7737
12.78	3.2	72.62	5.97	2.269375	0.186562	3.19403	9.8	118.178152	2	3.201194	-119.4018
12.79	3.12	78.87	6.2	2.527885	0.198718	3.1138	9.8	118.348362	2	3.12124	-119.2699
12.8	3.25	83.62	7.44	2.572923	0.228923	3.24256	9.8	118.518571	2	3.251488	-118.128
12.81	3.69	79.64	9.28	2.158266	0.251491	3.68072	9.8	118.688781	2	3.691856	-116.3861
12.82	4.54	71.88	11.7	1.58326	0.257709	4.5283	9.8	118.85899	2	4.54234	-114.0642
12.83	7.43	78.01	17.19	1.049933	0.231359	7.41281	10	119.032638	2	7.433438	-108.6723
12.84	8.65	75.74	17.96	0.875607	0.20763	8.63204	10	119.206287	2	8.653592	-108.0004
12.85	9.49	77.4	17.61	0.815595	0.185564	9.47239	10	119.379935	2	9.493522	-108.4485
12.86	10.09	78.58	17.25	0.778791	0.170961	10.07275	10	119.553583	2	10.09345	-108.9066
12.87	10.56	77.37	16.84	0.73267	0.15947	10.54316	10	119.727231	2	10.563368	-109.4147
12.88	10.56	77.37	16.84	0.73267	0.15947	10.54316	10	119.900879	2.1	10.563368	-109.5128
12.89	10.56	77.37	16.84	0.73267	0.15947	10.54316	10	120.074527	2.1	10.563368	-109.6109
12.9	10.98	69.46	41.65	0.632605	0.379326	10.93835	10	120.248176	1.8	10.98833	-84.899
12.91	11.55	66.14	40.71	0.572641	0.352468	11.50929	10	120.421824	1.8	11.558142	-85.9371
12.92	11.87	65.44	39.65	0.551306	0.334035	11.83035	10	120.595472	2	11.87793	-87.0952
12.93	12.15	65.53	38.64	0.539342	0.318025	12.11136	10	120.76912	2	12.157728	-88.2033
12.94	12.63	66.43	36.34	0.52597	0.287728	12.59366	10	120.942768	2	12.637268	-90.6014
12.95	12.81	67.03	35.16	0.523263	0.274473	12.77484	10	121.116417	2	12.817032	-91.8795
12.96	12.97	68.79	33.97	0.530378	0.261912	12.93603	10	121.290065	2	12.976794	-93.1676
12.97	13.09	70.13	32.79	0.535752	0.250497	13.05721	10	121.463713	2	13.096558	-94.4457
12.98	13.23	72.39	31.67	0.547166	0.23938	13.19833	10	121.637361	2	13.236334	-95.6638
12.99	13.35	75.26	30.55	0.563745	0.228839	13.31945	10	121.811009	2	13.35611	-96.8819
13	13.58	75.2	28.6	0.553756	0.210604	13.5514	10.1	121.986376	2	13.58572	-98.93
13.01	13.86	76.6	26.77	0.55267	0.193146	13.83323	10.1	122.161743	2	13.865354	-100.8581
13.02	14.01	76.38	25.88	0.545182	0.184725	13.98412	10.1	122.337109	2	14.015176	-101.8462
13.03	14.16	76.03	25.05	0.536935	0.176907	14.13495	10.1	122.512476	2	14.16501	-102.7743
13.04	14.41	78.29	23.57	0.543303	0.163567	14.38643	10.1	122.687843	2	14.414714	-104.3524
13.05	14.51	80.05	22.87	0.551688	0.157615	14.48713	10.1	122.86321	2	14.514574	-105.1505
13.06	14.67	80.98	22.16	0.552011	0.151057	14.64784	10.1	123.038576	2	14.674432	-105.9586
13.07	14.87	81.65	21.62	0.549092	0.145393	14.84838	10.1	123.213943	2	14.874324	-106.5967
13.08	15.09	83.46	21.03	0.553082	0.139364	15.06897	10.1	123.38931	2	15.094206	-107.2848
13.09	15.32	84.52	20.44	0.551697	0.13342	15.29956	10.1	123.564676	2	15.324088	-107.9729
13.1	15.88	88.76	19.5	0.558942	0.122796	15.8605	10.1	123.740043	2	15.8839	-109.011
13.11	16.23	90.36	19.08	0.556747	0.11756	16.21092	10.1	123.91541	2	16.233816	-109.5291
13.12	16.62	92.65	18.73	0.557461	0.112696	16.60127	10.1	124.090777	2	16.623746	-109.9772
13.13	17.17	95.2	18.55	0.554455	0.108037	17.15145	10.1	124.266143	2	17.17371	-110.2553
13.14	17.91	96.1	18.49	0.536572	0.103238	17.89151	10.1	124.44151	2	17.913698	-110.4134
13.15	18.84	96.48	18.73	0.512102	0.099416	18.82127	10.1	124.616877	2	18.843746	-110.2715
13.16	21.11	98.36	20.03	0.46594	0.094884	21.08997	10.3	124.795679	2	21.114006	-109.0696
13.17	22.23	101.17	20.74	0.455106	0.093297	22.20926	10.1	124.971046	2	22.234148	-108.4577
13.18	23.18	102.96	20.8	0.444176	0.089733	23.1592	10.1	125.146413	2	23.18416	-108.4958
13.19	23.98	101.08	21.27	0.421518	0.088699	23.95873	10.3	125.325215	2	23.984254	-108.1239
13.2	25.68	96.93	20.86	0.377453	0.081231	25.65914	10.3	125.504017	2	25.684172	-108.632
13.21	26.9	91.82	20.92	0.341338	0.07777	26.87908	10.3	125.682819	1.9	26.904184	-108.6701
13.22	28.19	90.99	21.27	0.322774	0.075452	28.16873	10.3	125.861621	1.9	28.194254	-108.4182
13.23	28.99	91.25	22.1	0.314764	0.076233	28.9679	10.3	126.040424	2	28.99442	-107.6863
13.24	30.12	97.02	22.22	0.322112	0.073772	30.09778	10.3	126.219226	2	30.124444	-107.6644
13.25	31.34	87.42	27.06	0.278941	0.086343	31.31294	10.3	126.398028	1.9	31.345412	-102.9225
13.26	31.52	81.71	18.2	0.259232	0.057741	31.5018	10.4	126.578547	1.9	31.52364	-111.8806
13.27	31.81	85.82	16.72	0.269789	0.052562	31.79328	10.4	126.759066	1.9	31.813344	-113.4587
13.28	32.22	89.4	16.13	0.277467	0.050062	32.20387	10.4	126.939585	1.9	32.223226	-114.1468
13.29	32.98	89.75	14.12	0.272135	0.042814	32.96588	10.5	127.121821	1.9	32.982824	-116.2549
13.3	33.6	88.76	13.29	0.264167	0.039554	33.58671	10.5	127.304056	1.9	33.602658	-117.183
13.31	33.99	89.27	12.76	0.262636	0.03754	33.97724	10.5	127.486292	1.9	33.992552	-117.8111
13.32	34.01	94.44	12.23	0.277683	0.03596	33.99777	10.5	127.668528	2	34.012446	-118.4392
13.33	34.57	97.25	11.88	0.281313	0.034365	34.55812	10.5	127.850763	2	34.572376	-118.8873
13.34	35	97.47	11.4	0.278486	0.032571	34.9886	10.5	128.032999	1.9	35.00228	-119.4654
13.35	34.99	97.28	10.87	0.278022	0.031066	34.97913	10.5	128.215234	1.9	34.992174	-120.0935

13.36	34.82	97.44	10.34	0.279839	0.029696	34.80966	10.5	128.39747	2	34.822068	-120.7216
13.37	34.82	97.44	10.34	0.279839	0.029696	34.80966	10.5	128.579705	1.8	34.822068	-120.8197
13.38	34.82	97.44	10.34	0.279839	0.029696	34.80966	10.5	128.761941	1.8	34.822068	-120.9178
13.39	40.91	92.91	155.27	0.227108	0.37954	40.75473	10.7	128.947607	1.8	40.941054	23.9141
13.4	41.81	112.08	90.46	0.26807	0.21636	41.71954	10.7	129.133274	1.8	41.828092	-40.994
13.41	42.5	131.16	53.12	0.308612	0.124988	42.44688	10.8	129.320655	1.8	42.510624	-78.4321
13.42	44.5	112.05	52.05	0.251798	0.116966	44.44795	10.8	129.508037	1.8	44.51041	-79.6002
13.43	45.07	105.8	51.88	0.234746	0.11511	45.01812	10.8	129.695418	1.8	45.080376	-79.8683
13.44	46.03	102.38	52.29	0.22242	0.1136	45.97771	10.8	129.882799	1.8	46.040458	-79.5564
13.45	46.55	108.6	54.36	0.233298	0.116778	46.49564	10.9	130.071895	1.8	46.560872	-77.5845
13.46	47.14	122.13	52.94	0.259079	0.112304	47.08706	10.9	130.26099	1.8	47.150588	-79.1026
13.47	48.08	119.07	28.36	0.24765	0.058985	48.05164	10.9	130.450086	1.8	48.085672	-103.7807
13.48	48.96	133.62	8.92	0.272917	0.018219	48.95108	11	130.640895	1.8	48.961784	-123.3188

Company information:	
Name:	LandTest Limited
Address:	300 Cashel Street
Zip code:	8011
City:	Christchurch
P.IVA:	
E-Mail:	info@landtest.co.nz
Phone number:	0800 837837
Fax number:	
Site information:	
Name:	Marlborough Stop Banks
Date:	20/02/2017
Commissioner:	
Locality:	Marlborough
Test information:	
Name:	WAT1A
Location:	WAT1A
Date:	20/02/2017
Prehole mode:	
Prehole depth [cm]:	0
Hydrostatic line [cm]:	0
Ground level [m]:	0
Latitude:	0
Longitude:	0
Operator:	Gray Lewis
Comments:	
Probe code:	MKJ330



	Qc	Fs	Speed	U2	Tilt	a Factor
Factors:	192460	31343	10	16925	150151	0.8
Zeros:	2235	3773	0	15861	2012	