

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:	Blind Creek
Date:	14/02/2017
Commissioner:	Marlborough DC
Locality:	Blenheim
Test information:	
Name:	BC3
Location:	BC3
Date:	14/02/2017
Prehole mode:	
Prehole depth [cm]:	0
Hydrostatic line [cm]:	0
Ground level [m]:	0
Latitude:	-41.439937
Longitude:	173.974532
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:	2269	3751	0	15961	3016						
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	0.42	0.13	2.36	0.030952	0.561905	0.41764	2.2	0.038388	0	0.420472	2.2619
0.02	0.64	0.26	2.36	0.040625	0.36875	0.63764	2.2	0.076776	1.7	0.640472	2.1638
0.03	1.17	0.35	4.31	0.029915	0.368376	1.16569	2.2	0.115163	1.7	1.170862	4.0157
0.04	1.52	0.61	3.84	0.040132	0.252632	1.51616	2.2	0.153551	2	1.520768	3.4476
0.05	1.67	0.64	2.36	0.038323	0.141317	1.66764	2.2	0.191939	2	1.670472	1.8695
0.06	1.82	1.24	1.36	0.068132	0.074725	1.81864	2.2	0.230327	2.2	1.820272	0.7714
0.07	1.92	5.55	-0.24	0.289062	-0.0125	1.92024	2.2	0.268715	2.2	1.919952	-0.9267
0.08	2.01	7.56	-0.59	0.376119	-0.029353	2.01059	2.2	0.307102	2.3	2.009882	-1.3748
0.09	2.12	10.02	-0.83	0.472642	-0.039151	2.12083	2.2	0.34549	2.3	2.119834	-1.7129
0.1	2.22	13.5	-0.83	0.608108	-0.037387	2.22083	2.2	0.383878	2.3	2.219834	-1.811
0.11	2.32	15.82	-0.95	0.681897	-0.040948	2.32095	2.2	0.422266	2.2	2.31981	-2.0291
0.12	2.42	18.7	-1	0.772727	-0.041322	2.421	2.2	0.460654	2.2	2.4198	-2.1772
0.13	2.47	21.5	-1.06	0.870445	-0.042915	2.47106	2.2	0.499042	2.1	2.469788	-2.3353
0.14	2.53	24.18	-1.18	0.955731	-0.04664	2.53118	2.2	0.537429	2.1	2.529764	-2.5534
0.15	2.68	29.64	-1.18	1.10597	-0.04403	2.68118	2.2	0.575817	2.1	2.679764	-2.6515
0.16	2.74	32.61	-1.18	1.190146	-0.043066	2.74118	2.2	0.614205	2.1	2.739764	-2.7496
0.17	2.8	35.13	-1.3	1.254643	-0.046429	2.8013	2.2	0.652593	2	2.79974	-2.9677
0.18	2.84	36.75	-1.24	1.294014	-0.043662	2.84124	2.2	0.690981	2	2.839752	-3.0058
0.19	2.88	38.67	-1.3	1.342708	-0.045139	2.8813	2.3	0.731112	2.1	2.87974	-3.1639
0.2	2.89	39.53	-1.3	1.36782	-0.044983	2.8913	2.2	0.7695	2.1	2.88974	-3.262
0.21	2.93	40.33	-1.36	1.376451	-0.046416	2.93136	2.2	0.807888	2.1	2.929728	-3.4201
0.22	3.08	42.21	-1.42	1.370455	-0.046104	3.08142	2.3	0.84802	2.1	3.079716	-3.5782
0.23	2.03	37.68	-0.71	1.856158	-0.034975	2.03071	2.3	0.888152	0	2.029858	-2.9663
0.24	3.34	44.32	-1.24	1.326946	-0.037126	3.34124	2.4	0.930027	0.9	3.339752	-3.5944
0.25	3.52	44.6	-1.24	1.267045	-0.035227	3.52124	2.3	0.970159	1.9	3.519752	-3.6925
0.26	3.74	44.73	-1.42	1.195989	-0.037968	3.74142	2.3	1.010291	1.9	3.739716	-3.9706
0.27	4	44.76	-1.42	1.119	-0.0355	4.00142	2.4	1.052166	1.9	3.999716	-4.0687
0.28	4.5	44.92	-1.6	0.998222	-0.035556	4.5016	2.3	1.092298	1.9	4.49968	-4.3468
0.29	4.77	45.5	-1.6	0.953878	-0.033543	4.7716	2.4	1.134174	1.9	4.76968	-4.4449
0.3	5.02	46.26	-1.6	0.921514	-0.031873	5.0216	2.4	1.17605	1.9	5.01968	-4.543
0.31	5.22	46.84	-1.71	0.897318	-0.032759	5.22171	2.4	1.217925	1.9	5.219658	-4.7511
0.32	5.64	48.27	-1.71	0.855851	-0.030319	5.64171	2.4	1.259801	1.9	5.639658	-4.8492
0.33	5.86	48.43	-1.71	0.826451	-0.029181	5.86171	2.4	1.301677	1.9	5.859658	-4.9473
0.34	6.05	49.93	-1.71	0.825289	-0.028264	6.05171	2.4	1.343552	1.9	6.049658	-5.0454
0.35	6.24	52.04	-1.71	0.833974	-0.027404	6.24171	2.4	1.385428	2	6.239658	-5.1435
0.36	6.37	54.37	-1.71	0.853532	-0.026845	6.37171	2.4	1.427303	2	6.369658	-5.2416
0.37	6.52	58.67	-1.77	0.899847	-0.027147	6.52177	2.4	1.469179	1.9	6.519646	-5.3997
0.38	6.45	61.64	-1.71	0.955659	-0.026512	6.45171	2.4	1.511055	1.9	6.449658	-5.4378
0.39	6.32	65.31	-1.65	1.033386	-0.026108	6.32165	2.4	1.55293	2	6.31967	-5.4759

0.4	6.19	68.21	-1.6	1.101939	-0.025848	6.1916	2.4	1.594806	2	6.18968	-5.524
0.41	5.9	75.65	-1.6	1.282203	-0.027119	5.9016	2.4	1.636682	1.9	5.89968	-5.6221
0.42	5.71	78.65	-1.65	1.377408	-0.028897	5.71165	2.4	1.678557	1.9	5.70967	-5.7702
0.43	5.49	82.51	-1.77	1.502914	-0.03224	5.49177	2.4	1.720433	1.9	5.489646	-5.9883
0.44	5.3	84.8	-1.89	1.6	-0.03566	5.30189	2.4	1.762309	1.9	5.299622	-6.2064
0.45	5.11	87.26	-1.89	1.707632	-0.036986	5.11189	2.4	1.804184	2	5.109622	-6.3045
0.46	4.74	91.63	-1.77	1.933122	-0.037342	4.74177	2.4	1.84606	2	4.739646	-6.2826
0.47	4.59	93.67	-1.71	2.040741	-0.037255	4.59171	2.4	1.887936	1.9	4.589658	-6.3207
0.48	4.44	94.82	-1.71	2.135586	-0.038514	4.44171	2.4	1.929811	1.9	4.439658	-6.4188
0.49	4.31	95.24	-1.71	2.209745	-0.039675	4.31171	2.4	1.971687	1.9	4.309658	-6.5169
0.5	4.07	94.92	-1.89	2.332187	-0.046437	4.07189	2.4	2.013563	2	4.069622	-6.795
0.51	3.99	94.06	-2.07	2.357393	-0.05188	3.99207	2.4	2.055438	2	3.989586	-7.0731
0.52	3.91	92.97	-2.19	2.377749	-0.05601	3.91219	2.4	2.097314	1.9	3.909562	-7.2912
0.53	3.85	91.34	-2.42	2.372468	-0.062857	3.85242	2.4	2.13919	1.9	3.849516	-7.6193
0.54	3.74	86.88	-2.6	2.322995	-0.069519	3.7426	2.4	2.181065	1.9	3.73948	-7.8974
0.55	3.68	84.36	-2.72	2.292391	-0.073913	3.68272	2.4	2.222941	1.9	3.679456	-8.1155
0.56	3.63	81.04	-3.07	2.232507	-0.084573	3.63307	2.4	2.264817	2	3.629386	-8.5636
0.57	3.57	76.99	-3.37	2.156583	-0.094398	3.57337	2.4	2.306692	2	3.569326	-8.9617
0.58	3.49	73.92	-3.37	2.118052	-0.096562	3.49337	2.4	2.348568	1.9	3.489326	-9.0598
0.59	3.29	70.35	-3.49	2.138298	-0.106079	3.29349	2.4	2.390444	1.9	3.289302	-9.2779
0.6	3.2	69.11	-3.72	2.159688	-0.11625	3.20372	2.4	2.432319	1.9	3.199256	-9.606
0.61	3.11	67.73	-4.08	2.177814	-0.13119	3.11408	2.4	2.474195	1.9	3.109184	-10.0641
0.62	3.01	67.8	-3.72	2.252492	-0.123588	3.01372	2.4	2.51607	1.9	3.009256	-9.8022
0.63	2.93	69.14	-2.42	2.359727	-0.082594	2.93242	2.4	2.557946	1.9	2.929516	-8.6003
0.64	2.78	70.73	-3.96	2.544245	-0.142446	2.78396	2.6	2.603309	1.9	2.779208	-10.2384
0.65	2.73	71.88	-4.25	2.632967	-0.155678	2.73425	2.6	2.648672	1.9	2.72915	-10.6265
0.66	2.67	73.6	-4.31	2.756554	-0.161423	2.67431	2.6	2.694035	2	2.669138	-10.7846
0.67	2.61	76.09	-4.37	2.915326	-0.167433	2.61437	2.6	2.739398	2	2.609126	-10.9427
0.68	2.51	81.23	-4.14	3.236255	-0.16494	2.51414	2.6	2.784761	2	2.509172	-10.8108
0.69	2.45	83.24	-3.9	3.397551	-0.159184	2.4539	2.6	2.830124	2	2.44922	-10.6689
0.7	2.39	84.96	-3.31	3.554812	-0.138494	2.39331	2.6	2.875487	1.9	2.389338	-10.177
0.71	2.32	86.27	-2.19	3.718534	-0.094397	2.32219	2.6	2.92085	1.9	2.319562	-9.1551
0.72	2.25	88.54	-0.59	3.935111	-0.026222	2.25059	2.6	2.966213	1.9	2.249882	-7.6532
0.73	2.11	94.12	-0.35	4.460664	-0.016588	2.11035	2.6	3.011576	1.9	2.10993	-7.5113
0.74	2.06	95.72	-1.06	4.646602	-0.051456	2.06106	2.6	3.056939	1.9	2.059788	-8.3194
0.75	2.03	96.8	-1.71	4.768473	-0.084236	2.03171	2.6	3.102302	1.9	2.029658	-9.0675
0.76	1.98	97.34	-3.07	4.916162	-0.155051	1.98307	2.6	3.147665	1.9	1.979386	-10.5256
0.77	1.88	96.48	-5.26	5.131915	-0.279787	1.88526	2.6	3.193028	1.9	1.878948	-12.8137
0.78	1.83	96.64	-4.79	5.280874	-0.261749	1.83479	2.6	3.238391	1.9	1.829042	-12.4418
0.79	1.79	96.58	-4.19	5.395531	-0.234078	1.79419	2.6	3.283754	2	1.789162	-11.9399
0.8	1.75	96.51	-4.02	5.514857	-0.229714	1.75402	2.6	3.329117	2	1.749196	-11.868
0.81	1.71	95.43	-4.08	5.580702	-0.238596	1.71408	2.6	3.37448	1.9	1.709184	-12.0261
0.82	1.65	91.95	-3.9	5.572727	-0.236364	1.6539	2.6	3.419843	1.9	1.64922	-11.9442
0.83	1.62	90.1	-3.84	5.561728	-0.237037	1.62384	2.6	3.465206	2	1.619232	-11.9823
0.84	1.59	88.35	-3.84	5.556604	-0.241509	1.59384	2.6	3.510569	2	1.589232	-12.0804
0.85	1.59	88.35	-3.84	5.556604	-0.241509	1.59384	2.6	3.555932	3.3	1.589232	-12.1785
0.86	1.59	88.35	-3.84	5.556604	-0.241509	1.59384	2.6	3.601295	2	1.589232	-12.2766
0.87	0.38	62.5	7.27	16.447368	1.913158	0.37273	2.6	3.646658	2	0.381454	-1.2647
0.88	1.67	71.37	-0.95	4.273653	-0.056886	1.67095	2.6	3.692021	1.9	1.66981	-9.5828
0.89	1.61	68.66	-1.89	4.264596	-0.117391	1.61189	2.6	3.737384	1.9	1.609622	-10.6209
0.9	1.57	66.43	-1.71	4.23121	-0.108917	1.57171	2.6	3.782747	2	1.569658	-10.539
0.91	1.58	65.47	-0.95	4.143671	-0.060127	1.58095	2.6	3.82811	2	1.57981	-9.8771
0.92	1.63	64.83	-0.35	3.977301	-0.021472	1.63035	2.6	3.873473	1.9	1.62993	-9.3752
0.93	1.69	64.45	1.06	3.813609	0.062722	1.68894	2.6	3.918836	1.9	1.690212	-8.0633
0.94	1.93	63.62	2.84	3.296373	0.14715	1.92716	2.6	3.964199	2	1.930568	-6.3814
0.95	2.05	63.59	3.13	3.101951	0.152683	2.04687	2.6	4.009562	2	2.050626	-6.1895
0.96	2.15	64.07	3.19	2.98	0.148372	2.14681	2.6	4.054925	1.9	2.150638	-6.2276
0.97	2.18	63.46	1.18	2.911009	0.054128	2.17882	2.6	4.100288	1.9	2.180236	-8.3357
0.98	2.12	63.46	-2.48	2.993396	-0.116981	2.12248	2.6	4.145651	1.9	2.119504	-12.0938
0.99	1.94	64.16	-8.8	3.307216	-0.453608	1.9488	2.6	4.191014	1.9	1.93824	-18.5119
1	1.86	65.25	-11.05	3.508065	-0.594086	1.87105	2.6	4.236377	2	1.85779	-20.86
1.01	1.7	65.37	-17.19	3.845294	-1.011176	1.71719	2.6	4.28174	2	1.696562	-27.0981
1.02	1.63	65.92	-17.37	4.044172	-1.065644	1.64737	2.6	4.327103	2	1.626526	-27.3762
1.03	1.51	66.23	-16.13	4.386093	-1.068212	1.52613	2.6	4.372466	2	1.506774	-26.2343
1.04	1.47	65.98	-15.78	4.488435	-1.073469	1.48578	2.6	4.417829	2	1.466844	-25.9824
1.05	1.45	65.79	-15.42	4.537241	-1.063448	1.46542	2.6	4.463192	2	1.446916	-25.7205
1.06	1.42	65.88	-15.24	4.639437	-1.073239	1.43524	2.6	4.508555	2	1.416952	-25.6386
1.07	1.4	65.41	-15.07	4.672143	-1.076429	1.41507	2.6	4.553918	2	1.396986	-25.5667
1.08	1.34	62.92	-15.01	4.695522	-1.120149	1.35501	2.7	4.601024	2	1.336998	-25.6048
1.09	1.31	61.74	-15.01	4.712977	-1.145802	1.32501	2.6	4.646387	2	1.306998	-25.7029
1.1	1.28	60.14	-15.01	4.698438	-1.172656	1.29501	2.7	4.693493	2	1.276998	-25.801
1.11	1.25	57.62	-15.07	4.6096	-1.2056	1.26507	2.6	4.738856	1.9	1.246986	-25.9591

1.12	1.22	55.07	-15.13	4.513934	-1.240164	1.23513	2.7	4.785963	1.9	1.216974	-26.1172
1.13	1.18	50.44	-14.95	4.274576	-1.266949	1.19495	2.7	4.833069	2	1.17701	-26.0353
1.14	1.18	48.88	-14.89	4.142373	-1.261864	1.19489	2.7	4.880176	2	1.177022	-26.0734
1.15	1.22	47.47	-14.77	3.890984	-1.210656	1.23477	2.7	4.927282	2	1.217046	-26.0515
1.16	1.26	46.33	-14.65	3.676984	-1.162698	1.27465	2.7	4.974389	2	1.25707	-26.0296
1.17	1.3	45.43	-14.53	3.494615	-1.117692	1.31453	2.7	5.021495	2	1.297094	-26.0077
1.18	1.32	43.01	-14.71	3.258333	-1.114394	1.33471	2.7	5.068602	2	1.317058	-26.2858
1.19	1.3	41.64	-15.66	3.203077	-1.204615	1.31566	2.7	5.115708	2	1.296868	-27.3339
1.2	1.27	40.71	-16.19	3.205512	-1.274803	1.28619	2.7	5.162815	2	1.266762	-27.962
1.21	1.22	40.07	-16.54	3.284426	-1.355738	1.23654	2.7	5.209921	2	1.216692	-28.4101
1.22	1.2	38.7	-16.84	3.225	-1.403333	1.21684	2.7	5.257027	1.9	1.196632	-28.8082
1.23	1.21	37.11	-17.02	3.066942	-1.406612	1.22702	2.7	5.304134	1.9	1.206596	-29.0863
1.24	1.22	35.73	-17.08	2.928689	-1.4	1.23708	2.7	5.35124	2	1.216584	-29.2444
1.25	1.23	34.62	-17.13	2.814634	-1.392683	1.24713	2.7	5.398347	2	1.226574	-29.3925
1.26	1.23	33.79	-17.08	2.747154	-1.388618	1.24708	2.7	5.445453	2	1.226584	-29.4406
1.27	1.1	31.14	-16.48	2.830909	-1.498182	1.11648	2.7	5.49256	2	1.096704	-28.9387
1.28	1.04	28.71	-11.29	2.760577	-1.085577	1.05129	2.7	5.539666	1.9	1.037742	-23.8468
1.29	0.98	26.96	-0.95	2.75102	-0.096939	0.98095	2.7	5.586773	1.9	0.97981	-13.6049
1.3	0.93	25.33	-1.12	2.723656	-0.12043	0.93112	2.7	5.633879	2	0.929776	-13.873
1.31	0.9	24.57	-1.24	2.73	-0.137778	0.90124	2.7	5.680985	2	0.899752	-14.0911
1.32	0.87	24.82	-1.3	2.852874	-0.149425	0.8713	2.8	5.729835	1.9	0.86974	-14.2492
1.33	0.83	25.75	-0.35	3.10241	-0.042169	0.83035	2.7	5.776942	1.9	0.82993	-13.3973
1.34	0.87	25.52	0.12	2.933333	0.013793	0.86988	2.8	5.825791	2	0.870024	-13.0254
1.35	0.96	24.47	0.47	2.548958	0.048958	0.95953	2.8	5.874641	2	0.960094	-12.7735
1.36	1.12	23.29	0.71	2.079464	0.063393	1.11929	2.8	5.923491	2	1.120142	-12.6316
1.37	1.56	22.75	1.06	1.458333	0.067949	1.55894	2.8	5.972341	2	1.560212	-12.3797
1.38	1.71	23.04	1.06	1.347368	0.061988	1.70894	2.9	6.022934	2	1.710212	-12.4778
1.39	1.8	23.23	1	1.290556	0.055556	1.799	2.8	6.071784	2	1.8002	-12.6359
1.4	1.8	23.29	1	1.293889	0.055556	1.799	2.9	6.122376	1.9	1.8002	-12.734
1.41	1.75	22.65	0.77	1.294286	0.044	1.74923	2.9	6.172969	1.9	1.750154	-13.0621
1.42	1.53	19.97	0.65	1.305229	0.042484	1.52935	2.9	6.223562	1.9	1.53013	-13.2802
1.43	1.45	19.02	0.53	1.311724	0.036552	1.44947	2.9	6.274155	1.9	1.450106	-13.4983
1.44	1.39	18.41	0.47	1.32446	0.033813	1.38953	2.9	6.324748	2	1.390094	-13.6564
1.45	1.36	18.12	0.41	1.332353	0.030147	1.35959	2.9	6.375341	2	1.360082	-13.8145
1.46	1.34	18.12	0.35	1.352239	0.026119	1.33965	2.9	6.425934	2	1.34007	-13.9726
1.47	1.34	18.47	0.24	1.378358	0.01791	1.33976	2.9	6.476527	2	1.340048	-14.1807
1.48	1.39	20.2	0.12	1.453237	0.008633	1.38988	2.9	6.52712	1.9	1.390024	-14.3988
1.49	1.44	21.38	0.12	1.484722	0.008333	1.43988	2.9	6.577713	1.9	1.440024	-14.4969
1.5	1.55	21.92	0.24	1.414194	0.015484	1.54976	2.9	6.628306	2	1.550048	-14.475
1.51	1.67	22.65	0.12	1.356287	0.007186	1.66988	2.9	6.678899	2	1.670024	-14.6931
1.52	1.78	23.93	-2.84	1.344382	-0.159551	1.78284	3	6.731235	1.9	1.779432	-17.7512
1.53	1.76	24.57	-2.95	1.396023	-0.167614	1.76295	3	6.783571	1.9	1.75941	-17.9593
1.54	1.68	24.92	-3.25	1.483333	-0.193452	1.68325	3	6.835907	2	1.67935	-18.3574
1.55	1.57	25.2	-3.72	1.605096	-0.236943	1.57372	3	6.888243	2	1.569256	-18.9255
1.56	1.46	25.14	-3.78	1.721918	-0.258904	1.46378	3	6.940579	1.9	1.459244	-19.0836
1.57	1.26	25.2	-2.9	2	-0.230159	1.2629	3	6.992915	1.9	1.25942	-18.3017
1.58	1.19	25.65	-2.42	2.155462	-0.203361	1.19242	3	7.04525	1.9	1.189516	-17.9198
1.59	1.11	26.32	-1.89	2.371171	-0.17027	1.11189	3	7.097586	2	1.109622	-17.4879
1.6	1.04	27.25	-0.95	2.620192	-0.091346	1.04095	3	7.149922	2	1.03981	-16.646
1.61	0.97	28.33	-0.3	2.920619	-0.030928	0.9703	3	7.202258	2	0.96994	-16.0941
1.62	0.86	28.75	1.12	3.343023	0.130233	0.85888	3.1	7.256337	2	0.860224	-14.7722
1.63	0.83	28.43	2.19	3.425301	0.263855	0.82781	3.1	7.310416	1.9	0.830438	-13.8003
1.64	0.8	28.14	2.6	3.5175	0.325	0.7974	3.1	7.364495	1.9	0.80052	-13.4884
1.65	0.77	27.98	2.72	3.633766	0.353247	0.76728	3.1	7.418574	2	0.770544	-13.4665
1.66	0.76	27.73	2.84	3.648684	0.373684	0.75716	3.1	7.472652	2	0.760568	-13.4446
1.67	0.81	26.07	3.01	3.218519	0.371605	0.80699	3.1	7.526731	1.9	0.810602	-13.3727
1.68	0.86	25.62	3.13	2.97907	0.363953	0.85687	3.1	7.58081	1.9	0.860626	-13.3508
1.69	0.96	25.49	3.25	2.655208	0.338542	0.95675	3.1	7.634889	2	0.96065	-13.3289
1.7	1.11	26	3.43	2.342342	0.309009	1.10657	3.1	7.688968	2	1.110686	-13.247
1.71	1.3	26.45	3.31	2.034615	0.254615	1.29669	3.1	7.743046	1.9	1.300662	-13.4651
1.72	1.88	27.22	-0.89	1.447872	-0.04734	1.88089	3.1	7.797125	1.9	1.879822	-17.7632
1.73	2.63	27.28	-2.48	1.037262	-0.094297	2.63248	3.1	7.851204	1.9	2.629504	-19.4513
1.74	3.27	26.19	-3.55	0.800917	-0.108563	3.27355	3.1	7.905283	1.9	3.26929	-20.6194
1.75	3.81	23.61	-3.49	0.619685	-0.091601	3.81349	3.1	7.959362	1.9	3.809302	-20.6575
1.76	5.18	20.67	-3.19	0.399035	-0.061583	5.18319	2.9	8.009955	1.9	5.179362	-20.4556
1.77	5.88	19.21	-2.9	0.326701	-0.04932	5.8829	3.1	8.064033	1.9	5.87942	-20.2637
1.78	6.69	17.8	-2.48	0.266069	-0.03707	6.69248	3.1	8.118112	1.9	6.689504	-19.9418
1.79	7.15	17.58	-2.3	0.245874	-0.032168	7.1523	3.1	8.172191	1.9	7.14954	-19.8599
1.8	7.64	16.85	-2.13	0.22055	-0.02788	7.64213	3.2	8.228013	1.9	7.639574	-19.788
1.81	9.05	15.19	-1.54	0.167845	-0.017017	9.05154	3.2	8.283834	1.9	9.049692	-19.2961
1.82	9	18.7	-0.59	0.207778	-0.006556	9.00059	2.6	8.329197	1.9	8.999882	-18.4442
1.83	8.03	30.37	1.18	0.378207	0.014695	8.02882	3.2	8.385019	1.9	8.030236	-16.7723

1.84	7.77	45.78	0.77	0.589189	0.00991	7.76923	3.3	8.442583	1.9	7.770154	-17.2804
1.85	7.74	85.35	0.06	1.102713	0.000775	7.73994	3.3	8.500147	1.9	7.740012	-18.0885
1.86	7.4	80.31	-0.06	1.08527	-0.000811	7.40006	3.4	8.559453	1.9	7.399988	-18.3066
1.87	6.99	89.59	-0.12	1.281688	-0.001717	6.99012	3.4	8.618759	1.9	6.989976	-18.4647
1.88	7.26	86.59	0.06	1.1927	0.000826	7.25994	3.4	8.678066	1.9	7.260012	-18.3828
1.89	7.26	86.59	0.06	1.1927	0.000826	7.25994	3.4	8.737372	2	7.260012	-18.4809
1.9	7.26	86.59	0.06	1.1927	0.000826	7.25994	3.4	8.796679	2	7.260012	-18.579
1.91	6.39	75.33	-0.53	1.178873	-0.008294	6.39053	3.4	8.855985	1.9	6.389894	-19.2671
1.92	6.67	75.07	-0.77	1.125487	-0.011544	6.67077	3.4	8.915291	1.9	6.669846	-19.6052
1.93	6.92	77.18	-0.89	1.115318	-0.012861	6.92089	3.4	8.974598	2	6.919822	-19.8233
1.94	7.49	64.48	-1.06	0.860881	-0.014152	7.49106	3.4	9.033904	2	7.489788	-20.0914
1.95	7.51	65.02	-0.77	0.865779	-0.010253	7.51077	3.4	9.09321	1.9	7.509846	-19.8995
1.96	8.61	66.94	-0.53	0.777468	-0.006156	8.61053	3.6	9.156001	1.9	8.609894	-19.7576
1.97	8.75	75.26	-0.53	0.860114	-0.006057	8.75053	3.5	9.217049	2	8.749894	-19.8557
1.98	9.17	95.33	1.65	1.039586	0.017993	9.16835	3.2	9.272871	1.9	9.17033	-17.7738
1.99	11.71	81.39	0.71	0.695047	0.006063	11.70929	2.6	9.318234	1.9	11.710142	-18.8119
2	12.65	81.58	-0.06	0.644901	-0.000474	12.65006	3.3	9.375798	2	12.649988	-19.68
2.01	11.36	148.2	-0.53	1.304577	-0.004665	11.36053	3.6	9.438588	1.9	11.359894	-20.2481
2.02	12.21	82.16	0.77	0.672891	0.006306	12.20923	3.6	9.501379	1.9	12.210154	-19.0462
2.03	15.66	109.05	-1	0.69636	-0.006386	15.661	3.6	9.56417	1.9	15.6598	-20.9143
2.04	15.02	107.36	0.71	0.71478	0.004727	15.01929	3.4	9.623476	1.9	15.020142	-19.3024
2.05	16.32	117.12	-0.3	0.717647	-0.001838	16.3203	3.6	9.686266	1.9	16.31994	-20.4105
2.06	18.28	108.19	-0.65	0.591849	-0.003556	18.28065	3.4	9.745573	1.9	18.27987	-20.8586
2.07	16.66	151.61	-0.83	0.910024	-0.004982	16.66083	3.6	9.808363	1.9	16.659834	-21.1367
2.08	17.44	184.54	-0.59	1.058142	-0.003383	17.44059	3.7	9.872896	1.9	17.439882	-20.9948
2.09	18.07	177.04	0.89	0.979745	0.004925	18.06911	3.6	9.935686	1.9	18.070178	-19.6129
2.1	17.22	356.99	0.53	2.073113	0.003078	17.21947	3.5	9.996735	1.9	17.220106	-20.071
2.11	16.91	318.54	-0.65	1.883737	-0.003844	16.91065	3.6	10.059525	1.9	16.90987	-21.3491
2.12	18.58	210.06	-0.83	1.130571	-0.004467	18.58083	3.7	10.124058	1.9	18.579834	-21.6272
2.13	17.91	192.26	-0.12	1.073479	-0.00067	17.91012	3.8	10.190331	1.9	17.909976	-21.0153
2.14	17.54	176.31	-0.71	1.005188	-0.004048	17.54071	3.3	10.247895	1.9	17.539858	-21.7034
2.15	18.72	200.17	-0.83	1.069284	-0.004434	18.72083	3.5	10.308944	2	18.719834	-21.9215
2.16	21.28	183.1	-0.83	0.860432	-0.0039	21.28083	3.5	10.369993	2	21.279834	-22.0196
2.17	20.27	118.37	-0.06	0.583966	-0.000296	20.27006	3.5	10.431041	1.9	20.269988	-21.3477
2.18	20.47	97.47	-1.3	0.47616	-0.006351	20.4713	3.4	10.490347	1.9	20.46974	-22.6858
2.19	19.55	138.53	-1	0.708593	-0.005115	19.551	3.2	10.546169	2	19.5498	-22.4839
2.2	21.5	115.43	-0.71	0.536884	-0.003302	21.50071	3	10.598505	2	21.499858	-22.292
2.21	18.03	35.22	-0.59	0.195341	-0.003272	18.03059	3.3	10.656069	2	18.029882	-22.2701
2.22	19.14	32.38	0.12	0.169175	0.000627	19.13988	2.7	10.703175	2	19.140024	-21.6582
2.23	18.34	30.53	-0.12	0.166467	-0.000654	18.34012	3.3	10.760739	2	18.339976	-21.9963
2.24	18.49	34.07	-0.83	0.184262	-0.004489	18.49083	3.3	10.818303	2	18.489834	-22.8044
2.25	18.92	48.08	-0.83	0.254123	-0.004387	18.92083	3.4	10.87761	2	18.919834	-22.9025
2.26	18.15	134.19	-0.77	0.739339	-0.004242	18.15077	3.7	10.942142	2	18.149846	-22.9406
2.27	17.66	150.15	-0.47	0.850227	-0.002661	17.66047	3.9	11.010157	1.9	17.659906	-22.7387
2.28	16.85	163.03	-0.89	0.967537	-0.005282	16.85089	3.3	11.067721	1.9	16.849822	-23.2568
2.29	15.9	222.92	-0.47	1.402013	-0.002956	15.90047	3.6	11.130512	1.9	15.899906	-22.9349
2.3	16.08	186.8	-0.89	1.161692	-0.005535	16.08089	4.1	11.202009	1.9	16.079822	-23.453
2.31	15.53	105.64	-0.77	0.680232	-0.004958	15.53077	4.3	11.276988	2	15.529846	-23.4311
2.32	14.69	134.16	-0.41	0.913274	-0.002791	14.69041	4.4	11.353707	2	14.689918	-23.1692
2.33	14.48	170.02	0.18	1.174171	0.001243	14.47982	4.4	11.430426	2	14.480036	-22.6773
2.34	14.22	163.7	-0.35	1.151195	-0.002461	14.22035	4.3	11.505405	2	14.21993	-23.3054
2.35	14.45	139.33	-0.77	0.964221	-0.005329	14.45077	4	11.575161	2	14.449846	-23.8235
2.36	13.77	76.51	-0.41	0.555628	-0.002977	13.77041	4	11.644918	2	13.769918	-23.5616
2.37	13.5	64.7	-0.95	0.479259	-0.007037	13.50095	4.4	11.721637	2	13.49981	-24.1997
2.38	10.26	16.27	-0.95	0.158577	-0.009259	10.26095	4.2	11.794875	2.1	10.25981	-24.2978
2.39	11.28	32.32	-0.18	0.286525	-0.001596	11.28018	4.2	11.868113	2.1	11.279964	-23.6259
2.4	10.02	70.22	-1.42	0.700798	-0.014172	10.02142	4.1	11.939611	2	10.019716	-24.964
2.41	10.4	61.86	-1.18	0.594808	-0.011346	10.40118	4.2	12.012849	2	10.399764	-24.8221
2.42	9.92	60.68	-0.77	0.611694	-0.007762	9.92077	4.2	12.086087	2	9.919846	-24.5102
2.43	10.22	27.63	-0.89	0.270352	-0.008708	10.22089	4	12.155844	2	10.219822	-24.7283
2.44	9.48	19.43	-0.59	0.204958	-0.006224	9.48059	4.6	12.236043	2	9.479882	-24.5264
2.45	10.2	21.47	-0.59	0.21049	-0.005784	10.20059	4.5	12.314502	2	10.199882	-24.6245
2.46	10.31	24.95	-0.3	0.241998	-0.00291	10.3103	4.2	12.38774	2	10.30994	-24.4326
2.47	10.35	14.68	0.06	0.141836	0.00058	10.34994	3.4	12.447046	2	10.350012	-24.1707
2.48	8.69	11.58	0.18	0.133257	0.002071	8.68982	4.3	12.522025	2	8.690036	-24.1488
2.49	6.93	20.51	2.13	0.29596	0.030736	6.92787	4.5	12.600484	2	6.930426	-22.2969
2.5	6.8	20.23	0.89	0.2975	0.013088	6.79911	4.4	12.677203	2	6.800178	-23.635
2.51	6.64	18.22	1.3	0.274398	0.019578	6.6387	4.3	12.752182	2	6.64026	-23.3231
2.52	6.54	19.08	1.42	0.291743	0.021713	6.53858	4.4	12.828901	2	6.540284	-23.3012
2.53	6.6	16.69	0.83	0.252879	0.012576	6.59917	4.5	12.90736	2	6.600166	-23.9893
2.54	7.12	18.98	1.24	0.266573	0.017416	7.11876	4.5	12.985819	2	7.120248	-23.6774
2.55	7.91	30.69	1.12	0.38799	0.014159	7.90888	3.3	13.043383	2	7.910224	-23.8955

2.56	5.51	64.96	2.3	1.178947	0.041742	5.5077	4.2	13.116621	2	5.51046	-22.8136
2.57	5.23	33.44	1.95	0.639388	0.037285	5.22805	4.2	13.189859	2	5.23039	-23.2617
2.58	5.95	39.34	2.01	0.661176	0.033782	5.94799	4.1	13.261357	2	5.950402	-23.2998
2.59	5.24	36.18	2.66	0.690458	0.050763	5.23734	4.3	13.336336	2	5.240532	-22.7479
2.6	8.26	66.11	1.54	0.800363	0.018644	8.25846	4.1	13.407833	2	8.260308	-23.966
2.61	7.74	50.41	2.07	0.651292	0.026744	7.73793	3.9	13.475848	2	7.740414	-23.5341
2.62	6.44	50.41	2.36	0.782764	0.036646	6.43764	4.1	13.547346	2	6.440472	-23.3422
2.63	4.25	53.19	3.25	1.251529	0.076471	4.24675	4.2	13.620584	2	4.25065	-22.5503
2.64	3.33	94.38	3.25	2.834234	0.097598	3.32675	4.2	13.693822	2	3.33065	-22.6484
2.65	3.01	103.56	3.49	3.440532	0.115947	3.00651	4.1	13.76532	2.1	3.010698	-22.5065
2.66	3.27	65.15	3.55	1.992355	0.108563	3.26645	3.9	13.833335	2	3.27071	-22.5446
2.67	4.19	70.73	3.37	1.688067	0.08043	4.18663	3.7	13.897867	2	4.190674	-22.8227
2.68	5.11	42.85	3.01	0.838552	0.058904	5.10699	3.5	13.958916	2	5.110602	-23.2808
2.69	5.98	24.82	3.25	0.41505	0.054348	5.97675	3.4	14.018222	2	5.98065	-23.1389
2.7	6.14	22.4	3.13	0.364821	0.050977	6.13687	3.1	14.072301	2	6.140626	-23.357
2.71	6.46	15.67	4.37	0.24257	0.067647	6.45563	2.9	14.122894	2	6.460874	-22.2151
2.72	6.72	29.64	3.72	0.441071	0.055357	6.71628	3.3	14.180458	2	6.720744	-22.9632
2.73	6.72	29.64	3.72	0.441071	0.055357	6.71628	3.3	14.238022	2	6.720744	-23.0613
2.74	4.53	19.08	4.19	0.421192	0.092494	4.52581	3.3	14.295586	2	4.530838	-22.6894
2.75	5.52	28.11	4.73	0.509239	0.085688	5.51527	2.9	14.346179	2	5.520946	-22.2475
2.76	5.35	30.66	3.6	0.573084	0.06729	5.3464	2.7	14.393285	2	5.35072	-23.4756
2.77	6.4	21.22	4.14	0.331562	0.064687	6.39586	2.9	14.443878	2	6.400828	-23.0337
2.78	6.07	11.58	4.61	0.190774	0.075947	6.06539	3.3	14.501442	2	6.070922	-22.6618
2.79	6.27	9.19	4.19	0.146571	0.066826	6.26581	3	14.553778	2	6.270838	-23.1799
2.8	6.46	30.15	4.73	0.466718	0.07322	6.45527	3.1	14.607857	2	6.460946	-22.738
2.81	5.09	53.89	3.72	1.058743	0.073084	5.08628	2.8	14.656707	2	5.090744	-23.8461
2.82	6.84	27.69	3.25	0.404825	0.047515	6.83675	2.8	14.705557	2	6.84065	-24.4142
2.83	7.41	31.75	4.37	0.428475	0.058974	7.40563	2.9	14.75615	2	7.410874	-23.3923
2.84	9.41	10.11	3.96	0.107439	0.042083	9.40604	2.6	14.801513	2	9.410792	-23.9004
2.85	9.8	3.51	5.44	0.035816	0.05551	9.79456	2.2	14.8399	2	9.801088	-22.5185
2.86	9.87	20.13	5.79	0.203951	0.058663	9.86421	2.8	14.88875	2	9.871158	-22.2666
2.87	8.2	20.42	5.32	0.249024	0.064878	8.19468	2.4	14.930626	2	8.201064	-22.8347
2.88	8.51	13.27	4.49	0.155934	0.052761	8.50551	3.2	14.986447	2	8.510898	-23.7628
2.89	8.51	13.27	4.49	0.155934	0.052761	8.50551	3.2	15.042269	2	8.510898	-23.8609
2.9	8.51	13.27	4.49	0.155934	0.052761	8.50551	3.2	15.09809	2	8.510898	-23.959
2.91	7.4	2.01	4.73	0.027162	0.063919	7.39527	3.4	15.157397	2	7.400946	-23.8171
2.92	7.73	36.02	5.79	0.465977	0.074903	7.72421	3.4	15.216703	2	7.731158	-22.8552
2.93	7.5	55.58	6.62	0.741067	0.088267	7.49338	3.1	15.270782	2	7.501324	-22.1233
2.94	6.4	40.46	6.62	0.632188	0.103438	6.39338	3	15.323118	2	6.401324	-22.2214
2.95	5.67	33.25	5.85	0.58642	0.103175	5.66415	3	15.375454	2	5.67117	-23.0895
2.96	7.06	52.29	5.79	0.740652	0.082011	7.05421	3.6	15.438244	2	7.061158	-23.2476
2.97	5.58	61.1	6.91	1.094982	0.123835	5.57309	3.2	15.494066	2	5.581382	-22.2257
2.98	6.39	61.7	5.55	0.965571	0.086854	6.38445	4	15.563822	2	6.39111	-23.6838
2.99	8.46	60.24	6.32	0.712057	0.074704	8.45368	3.8	15.630096	1.9	8.461264	-23.0119
3	7.23	34.07	6.09	0.471231	0.084232	7.22391	3.6	15.692887	1.9	7.231218	-23.34
3.01	3.99	10.53	5.79	0.26391	0.145113	3.98421	4	15.762643	2.1	3.991158	-23.7381
3.02	6.75	28.75	4.55	0.425926	0.067407	6.74545	4.1	15.834141	2	6.75091	-25.0762
3.03	8.6	23.83	5.32	0.277093	0.06186	8.59468	4.2	15.907379	2	8.601064	-24.4043
3.04	9.88	37.33	6.26	0.377834	0.06336	9.87374	3.9	15.975394	2	9.881252	-23.5624
3.05	7.99	29.26	6.68	0.366208	0.083605	7.98332	4.3	16.050373	2	7.991336	-23.2405
3.06	9.34	82.41	6.38	0.882334	0.068308	9.33362	4.5	16.128832	2	9.341276	-23.6386
3.07	7.75	80.88	7.8	1.043613	0.100645	7.7422	4.3	16.203811	2	7.75156	-22.3167
3.08	7.49	43.36	8.27	0.578905	0.110414	7.48173	4.2	16.277049	2	7.491654	-21.9448
3.09	8.37	165.59	7.21	1.978375	0.086141	8.36279	4.3	16.352028	2	8.371442	-23.1029
3.1	8.02	134.67	7.62	1.679177	0.095012	8.01238	4.2	16.425266	2	8.021524	-22.791
3.11	7.95	99	7.39	1.245283	0.092956	7.94261	4.3	16.500244	2	7.951478	-23.1191
3.12	8.19	137.35	7.33	1.677045	0.089499	8.18267	4.3	16.575223	2	8.191466	-23.2772
3.13	7.87	160.07	7.56	2.033926	0.096061	7.86244	4.3	16.650202	2	7.871512	-23.1453
3.14	8.41	113.49	8.33	1.349465	0.099049	8.40167	4.4	16.726921	2	8.411666	-22.4734
3.15	8.38	98.4	7.8	1.174224	0.093079	8.3722	4.4	16.80364	2	8.38156	-23.1015
3.16	8.88	118.18	7.33	1.330856	0.082545	8.87267	4.5	16.882099	2	8.881466	-23.6696
3.17	9.75	122.26	7.39	1.253949	0.075795	9.74261	4.5	16.960558	2	9.751478	-23.7077
3.18	8.59	77.08	7.92	0.897322	0.0922	8.58208	4.1	17.032056	2.1	8.591584	-23.2758
3.19	8.89	37.81	8.39	0.425309	0.094376	8.88161	4.4	17.108775	2.1	8.891678	-22.9039
3.2	8.12	84.13	8.8	1.036084	0.108374	8.1112	4.3	17.183753	2	8.12176	-22.592
3.21	7.92	93.64	8.86	1.182323	0.111869	7.91114	4.4	17.260472	2	7.921772	-22.6301
3.22	9.28	59.89	7.86	0.645366	0.084698	9.27214	4.4	17.337191	2	9.281572	-23.7282
3.23	10.11	34.3	8.57	0.339268	0.084768	10.10143	4.4	17.41391	2	10.111714	-23.1163
3.24	10.75	63.14	8.86	0.587349	0.082419	10.74114	3.7	17.478443	2	10.751772	-22.9244
3.25	9.49	28.46	8.51	0.299895	0.089673	9.48149	3.5	17.539491	2	9.491702	-23.3725
3.26	8.12	50.47	8.8	0.621552	0.108374	8.1112	4.1	17.610989	2.1	8.12176	-23.1806
3.27	9.51	72.2	9.45	0.759201	0.099369	9.50055	4.4	17.687708	2.1	9.51189	-22.6287

3.28	6.78	31.27	9.57	0.461209	0.14115	6.77043	4.4	17.764427	2	6.781914	-22.6068
3.29	7.87	28.56	9.16	0.362897	0.116391	7.86084	4.3	17.839406	2	7.871832	-23.1149
3.3	8.6	58.51	9.22	0.680349	0.107209	8.59078	4.3	17.914384	2	8.601844	-23.153
3.31	7.31	76.16	9.69	1.04186	0.132558	7.30031	3.7	17.978917	2	7.311938	-22.7811
3.32	7.78	114.86	9.57	1.47635	0.123008	7.77043	4.2	18.052155	2	7.781914	-22.9992
3.33	10.25	66.23	10.04	0.646146	0.097951	10.23996	3.6	18.114945	2	10.252008	-22.6273
3.34	10.47	54.49	9.63	0.520439	0.091977	10.46037	3.9	18.182961	2	10.471926	-23.1354
3.35	10.51	63.65	10.16	0.605614	0.09667	10.49984	4	18.252717	2	10.512032	-22.7035
3.36	8.74	78.17	10.28	0.894394	0.11762	8.72972	4.2	18.325955	2	8.742056	-22.6816
3.37	7.27	120.7	10.04	1.660248	0.138102	7.25996	4	18.395712	2	7.272008	-23.0197
3.38	7.13	115.34	10.28	1.617672	0.14418	7.11972	4	18.465468	2	7.132056	-22.8778
3.39	7.86	82.54	10.64	1.050127	0.135369	7.84936	3.8	18.531742	2	7.862128	-22.6159
3.4	8.27	77.78	10.52	0.940508	0.127207	8.25948	3.6	18.594533	2	8.272104	-22.834
3.41	7.54	43.84	10.52	0.581432	0.139523	7.52948	4	18.664289	2	7.542104	-22.9321
3.42	9.4	32.93	10.64	0.350319	0.113191	9.38936	3.7	18.728821	2	9.402128	-22.9102
3.43	6.52	64.58	10.81	0.990491	0.165798	6.50919	3.7	18.793354	2	6.522162	-22.8383
3.44	7.04	58.04	11.05	0.824432	0.15696	7.02895	3.9	18.861369	2	7.04221	-22.6964
3.45	5.76	50.41	10.93	0.875174	0.189757	5.74907	3.7	18.925901	2	5.762186	-22.9145
3.46	6.63	37.87	10.93	0.571192	0.164857	6.61907	4.3	19.00088	2.1	6.632186	-23.0126
3.47	7.18	46.42	11.52	0.646518	0.160446	7.16848	4.2	19.074118	2.1	7.182304	-22.5207
3.48	8.76	58.42	11.23	0.666895	0.128196	8.74877	4	19.143875	2	8.762246	-22.9088
3.49	7.25	57.43	11.82	0.792138	0.163034	7.23818	3.6	19.206665	2	7.252364	-22.4169
3.5	8.59	58.19	11.58	0.677416	0.134808	8.57842	3.5	19.267714	2	8.592316	-22.755
3.51	9.09	50.73	11.58	0.558086	0.127393	9.07842	3.6	19.330504	2	9.092316	-22.8531
3.52	6.47	82	12.11	1.267388	0.187172	6.45789	3.5	19.391553	2	6.472422	-22.4212
3.53	6.32	79.67	11.82	1.260601	0.187025	6.30818	3.5	19.452601	2	6.322364	-22.8093
3.54	8.51	50.47	11.94	0.593067	0.140306	8.49806	3.3	19.510165	2	8.512388	-22.7874
3.55	6.53	56.95	12.88	0.872129	0.197243	6.51712	3.3	19.567729	2	6.532576	-21.9455
3.56	8.73	56.98	12.05	0.652692	0.13803	8.71795	3.6	19.63052	2	8.73241	-22.8736
3.57	6.86	33.31	11.94	0.485569	0.174052	6.84806	3.8	19.696794	2	6.862388	-23.0817
3.58	8.73	45.46	12.05	0.520733	0.13803	8.71795	3.4	19.7561	2	8.73241	-23.0698
3.59	8.58	50.28	12.29	0.586014	0.14324	8.56771	3.8	19.822374	2	8.582458	-22.9279
3.6	7	22.17	12.05	0.316714	0.172143	6.98795	3.7	19.886906	2	7.00241	-23.266
3.61	9.8	46.45	11.88	0.47398	0.121224	9.78812	3.3	19.94447	2	9.802376	-23.5341
3.62	8.4	27.37	13	0.325833	0.154762	8.387	3	19.996806	2	8.4026	-22.5122
3.63	9.25	43.81	13	0.473622	0.140541	9.237	3.1	20.050885	2	9.2526	-22.6103
3.64	9.86	96.86	12.76	0.982353	0.129412	9.84724	3	20.103221	2	9.862552	-22.9484
3.65	9.81	93.29	13.18	0.950968	0.134353	9.79682	2.3	20.143353	2	9.812636	-22.6265
3.66	9.74	108.09	13.06	1.109754	0.134086	9.72694	2.3	20.183485	2	9.742612	-22.8446
3.67	9.69	102.22	13.29	1.054902	0.137152	9.67671	2.9	20.234078	2	9.692658	-22.7127
3.68	9.33	120.25	13.06	1.288853	0.139979	9.31694	3	20.286414	2	9.332612	-23.0408
3.69	10.12	103.88	12.82	1.026482	0.12668	10.10718	3	20.33875	2	10.122564	-23.3789
3.7	10.5	77.56	13.59	0.738667	0.129429	10.48641	3	20.391086	2	10.502718	-22.707
3.71	10.46	95.14	13.12	0.90956	0.12543	10.44688	2.9	20.441678	2	10.462624	-23.2751
3.72	11.19	73.41	13.41	0.656032	0.119839	11.17659	2.9	20.492271	2	11.192682	-23.0832
3.73	12.06	74.12	13.53	0.614594	0.112189	12.04647	3	20.544607	2	12.062706	-23.0613
3.74	12.44	73.99	12.76	0.594775	0.102572	12.42724	2.9	20.5952	2	12.442552	-23.9294
3.75	12.13	85.35	13.88	0.703627	0.114427	12.11612	2.7	20.642307	2	12.132776	-22.9075
3.76	10.14	76.89	14.59	0.758284	0.143886	10.12541	2.5	20.685926	2	10.142918	-22.2956
3.77	9.54	51.3	12.7	0.537736	0.133124	9.5273	2.7	20.733033	2	9.54254	-24.2837
3.78	8.93	200.68	13.41	2.247256	0.150168	8.91659	2.4	20.774908	2	8.932682	-23.6718
3.79	8.84	154.1	13.59	1.743213	0.153733	8.82641	2.7	20.822015	2	8.842718	-23.5899
3.8	10.16	178.76	13.83	1.759449	0.136122	10.14617	2.6	20.867378	2	10.162766	-23.448
3.81	11.95	186.1	14.06	1.557322	0.117657	11.93594	2.5	20.910997	2	11.952812	-23.3161
3.82	12.11	192.93	14.24	1.593146	0.117589	12.09576	2.6	20.95636	2	12.112848	-23.2342
3.83	12.65	207.57	14.48	1.64087	0.114466	12.63552	2.6	21.001723	2	12.652896	-23.0923
3.84	9.91	190.54	15.24	1.922704	0.153784	9.89476	2.3	21.041855	2.1	9.913048	-22.4304
3.85	7.57	171.23	15.13	2.261955	0.199868	7.55487	2.9	21.092448	2.1	7.573026	-22.6385
3.86	9.33	197.62	15.13	2.118114	0.162165	9.31487	2.8	21.141298	2.1	9.333026	-22.7366
3.87	9.64	171.68	15.18	1.780913	0.157469	9.62482	2.7	21.188404	2	9.643036	-22.7847
3.88	9.83	143.57	15.66	1.460529	0.159308	9.81434	2.6	21.233767	2	9.833132	-22.4028
3.89	9.83	143.57	15.66	1.460529	0.159308	9.81434	2.6	21.27913	2	9.833132	-22.5009
3.9	9.83	143.57	15.66	1.460529	0.159308	9.81434	2.6	21.324493	2.1	9.833132	-22.599
3.91	9.99	89.21	15.13	0.892993	0.151451	9.97487	2.5	21.368112	2.1	9.993026	-23.2271
3.92	9.17	72.58	15.36	0.791494	0.167503	9.15464	2.4	21.409988	1.9	9.173072	-23.0952
3.93	9.13	44.95	15.24	0.492333	0.166922	9.11476	2.6	21.455351	1.9	9.133048	-23.3133
3.94	9.47	33.98	15.36	0.358817	0.162196	9.45464	2.6	21.500714	2	9.473072	-23.2914
3.95	9.86	49.77	15.54	0.504767	0.157606	9.84446	2.8	21.549564	2	9.863108	-23.2095
3.96	9.99	38.92	15.72	0.38959	0.157357	9.97428	2.7	21.59667	2	9.993144	-23.1276
3.97	9.35	43.33	15.83	0.463422	0.169305	9.33417	2.7	21.643777	2	9.353166	-23.1157
3.98	8.28	45.82	16.01	0.553382	0.193357	8.26399	2.7	21.690883	2	8.283202	-23.0338
3.99	8.68	36.85	16.07	0.424539	0.185138	8.66393	2.6	21.736246	2	8.683214	-23.0719

4	7.64	27.92	16.13	0.365445	0.211126	7.62387	2.7	21.783353	2	7.643226	-23.11
4.01	7.01	43.87	16.43	0.62582	0.234379	6.99357	2.7	21.830459	2.1	7.013286	-22.9081
4.02	6.94	29.32	16.66	0.422478	0.240058	6.92334	2.8	21.879309	2.1	6.943332	-22.7762
4.03	7.33	65.12	16.66	0.888404	0.227285	7.31334	2.8	21.928159	2	7.333332	-22.8743
4.04	7.89	57.17	16.84	0.724588	0.213435	7.87316	3	21.980495	2	7.893368	-22.7924
4.05	7.92	60.11	16.78	0.758965	0.211869	7.90322	3.1	22.034573	2	7.923356	-22.9505
4.06	5.73	25.62	17.13	0.44712	0.298953	5.71287	2.7	22.08168	2	5.733426	-22.6986
4.07	6.34	29.1	17.08	0.458991	0.269401	6.32292	2.7	22.128786	2.1	6.343416	-22.8467
4.08	6.19	15.73	17.08	0.25412	0.275929	6.17292	2.3	22.168918	2.1	6.193416	-22.9448
4.09	5.2	15.82	17.25	0.304231	0.331731	5.18275	2.1	22.205562	2	5.20345	-22.8729
4.1	5.36	25.24	17.37	0.470896	0.324067	5.34263	2.8	22.254412	2	5.363474	-22.851
4.11	5.97	40.97	17.43	0.686265	0.29196	5.95257	2.8	22.303261	2	5.973486	-22.8891
4.12	6.4	48.46	17.55	0.757188	0.274219	6.38245	2.9	22.353854	2	6.40351	-22.8672
4.13	6.68	49.39	17.61	0.739371	0.263623	6.66239	3	22.40619	2	6.683522	-22.9053
4.14	7.22	60.01	17.67	0.831163	0.244737	7.20233	2.9	22.456783	2	7.223534	-22.9434
4.15	8.1	62.69	17.78	0.773951	0.219506	8.08222	2.9	22.507376	2	8.103556	-22.9315
4.16	7.68	74.21	17.9	0.966276	0.233073	7.6621	3	22.559712	2	7.68358	-22.9096
4.17	5.57	54.59	17.96	0.980072	0.322442	5.55204	3	22.612048	2.1	5.573592	-22.9477
4.18	6.9	20.8	18.08	0.301449	0.262029	6.88192	2.9	22.662641	2.1	6.903616	-22.9258
4.19	6.47	35.22	18.14	0.544359	0.280371	6.45186	3	22.714977	2	6.473628	-22.9639
4.2	6.81	53.19	18.26	0.781057	0.268135	6.79174	3	22.767313	2	6.813652	-22.942
4.21	8.06	66.08	18.49	0.819851	0.229404	8.04151	3.1	22.821392	2	8.063698	-22.8101
4.22	7.78	92.01	18.49	1.182648	0.237661	7.76151	3	22.873728	2	7.783698	-22.9082
4.23	6.98	101.59	18.61	1.455444	0.266619	6.96139	3.1	22.927806	2	6.983722	-22.8863
4.24	6.55	86.11	18.73	1.314656	0.285954	6.53127	3.2	22.983628	2	6.553746	-22.8644
4.25	6.44	84.61	18.73	1.31382	0.290839	6.42127	3.3	23.041192	2.1	6.443746	-22.9625
4.26	6.01	66.11	18.79	1.1	0.312646	5.99121	3	23.093528	2.1	6.013758	-23.0006
4.27	6.92	57.88	18.79	0.836416	0.271532	6.90121	3.1	23.147607	2	6.923758	-23.0987
4.28	7.53	46.61	19.03	0.618991	0.252722	7.51097	2.9	23.1982	2	7.533806	-22.9568
4.29	7.07	72.42	19.38	1.024328	0.274116	7.05062	3.4	23.257506	2	7.073876	-22.7049
4.3	7.86	55.26	19.32	0.703053	0.245802	7.84068	3.4	23.316812	2	7.863864	-22.863
4.31	6.56	37.46	19.38	0.571037	0.295427	6.54062	3.2	23.372634	2	6.563876	-22.9011
4.32	8	46.33	19.5	0.579125	0.24375	7.9805	3.5	23.433682	2	8.0039	-22.8792
4.33	7.87	49.64	19.62	0.63075	0.249301	7.85038	3.4	23.492989	2	7.873924	-22.8573
4.34	7.4	49.48	19.97	0.668649	0.269865	7.38003	3.3	23.550553	2	7.403994	-22.6054
4.35	6.7	70.06	19.79	1.045672	0.295373	6.68021	3.3	23.608117	2.1	6.703958	-22.8835
4.36	6.71	70.45	20.03	1.049925	0.29851	6.68997	3.4	23.667423	2.1	6.714006	-22.7416
4.37	6.48	55.55	20.15	0.857253	0.310957	6.45985	3.4	23.72673	2.1	6.48403	-22.7197
4.38	6.1	52.45	20.21	0.859836	0.331311	6.07979	3.4	23.786036	2.1	6.104042	-22.7578
4.39	6.13	42.69	20.27	0.696411	0.330669	6.10973	3.4	23.845342	2.1	6.134054	-22.7959
4.4	6.22	42.18	19.73	0.678135	0.317203	6.20027	3.5	23.906391	2	6.223946	-23.434
4.41	6.02	40.23	19.97	0.668272	0.331728	6.00003	3.4	23.965697	2	6.023994	-23.2921
4.42	6.02	40.23	19.97	0.668272	0.331728	6.00003	3.4	24.025004	2	6.023994	-23.3902
4.43	4.8	40.33	20.27	0.840208	0.422292	4.77973	3.1	24.079082	2	4.804054	-23.1883
4.44	5.35	27.69	20.5	0.51757	0.383178	5.3295	3.3	24.136646	2	5.3541	-23.0564
4.45	5.57	20.16	20.5	0.361939	0.368043	5.5495	3.5	24.197695	2	5.5741	-23.1545
4.46	5.1	22.21	20.68	0.43549	0.40549	5.07932	3.5	24.258744	2.1	5.104136	-23.0726
4.47	4.69	21.47	20.97	0.457783	0.447122	4.66903	3.6	24.321534	2.1	4.694194	-22.8807
4.48	3.9	11.42	21.27	0.292821	0.545385	3.87873	3.6	24.384325	2	3.904254	-22.6788
4.49	3.9	11.42	21.27	0.292821	0.545385	3.87873	3.6	24.447115	2	3.904254	-22.7769
4.5	3.37	9.06	21.33	0.268843	0.632938	3.34867	3.6	24.509906	2.1	3.374266	-22.815
4.51	3.13	8.42	21.33	0.26901	0.68147	3.10867	3.6	24.572696	2.1	3.134266	-22.9131
4.52	2.86	5.77	21.98	0.201748	0.768531	2.83802	3.6	24.635487	2	2.864396	-22.3612
4.53	2.69	6.54	22.63	0.243123	0.841264	2.66737	3.6	24.698277	2	2.694526	-21.8093
4.54	1.98	16.05	22.51	0.810606	1.136869	1.95749	3.6	24.761068	2.1	1.984502	-22.0274
4.55	1.93	23.93	22.39	1.239896	1.160104	1.90761	3.6	24.823858	2.1	1.934478	-22.2455
4.56	1.84	23.13	22.39	1.257065	1.216848	1.81761	3.6	24.886649	2.1	1.844478	-22.3436
4.57	1.62	25.17	22.33	1.553704	1.378395	1.59767	3.6	24.949439	2.1	1.624466	-22.5017
4.58	1.53	28.27	23.93	1.847712	1.564052	1.50607	3.6	25.01223	2	1.534786	-20.9998
4.59	1.41	29.32	25.23	2.079433	1.789362	1.38477	3.6	25.07502	2	1.415046	-19.7979
4.6	1.36	31.14	21.74	2.289706	1.598529	1.33826	3.6	25.137811	2.1	1.364348	-23.386
4.61	1.32	33.15	22.57	2.511364	1.709848	1.29743	3.6	25.200601	2.1	1.324514	-22.6541
4.62	1.28	33.66	27.77	2.629688	2.169531	1.25223	3.6	25.263392	2	1.285554	-17.5522
4.63	1.24	35.03	30.96	2.825	2.496774	1.20904	3.6	25.326182	2	1.246192	-14.4603
4.64	1.22	35.06	30.43	2.87377	2.494262	1.18957	3.6	25.388973	2	1.226086	-15.0884
4.65	1.19	36.56	26.06	3.072269	2.189916	1.16394	3.6	25.451763	2	1.195212	-19.5565
4.66	1.13	38.45	21.57	3.402655	1.90885	1.10843	3.6	25.514554	2.1	1.134314	-24.1446
4.67	1.06	37.84	17.25	3.569811	1.627358	1.04275	3.6	25.577344	2.1	1.06345	-28.5627
4.68	0.94	25.27	16.78	2.688298	1.785106	0.92322	3.6	25.640135	2.1	0.943356	-29.1308
4.69	0.89	24.53	17.25	2.75618	1.938202	0.87275	3.6	25.702926	2.1	0.89345	-28.7589
4.7	0.82	23.99	20.21	2.92561	2.464634	0.79979	3.6	25.765716	2.1	0.824042	-25.897
4.71	0.72	21.98	21.92	3.052778	3.044444	0.69808	3.6	25.828507	2	0.724384	-24.2851

4.72	0.7	21.57	24.05	3.081429	3.435714	0.67595	3.6	25.891297	2	0.70481	-22.2532
4.73	0.73	21.15	25.35	2.89726	3.472603	0.70465	3.6	25.954088	2.1	0.73507	-21.0513
4.74	0.84	21.44	25.82	2.552381	3.07381	0.81418	3.7	26.01862	2.1	0.845164	-20.6794
4.75	0.98	22.78	23.57	2.32449	2.405102	0.95643	3.8	26.084894	2	0.984714	-23.0275
4.76	1.09	23.23	21.62	2.131193	1.983486	1.06838	3.7	26.149426	2	1.094324	-25.0756
4.77	1.17	21.76	20.15	1.859829	1.722222	1.14985	3.7	26.213958	2	1.17403	-26.6437
4.78	1.29	20.16	16.66	1.562791	1.291473	1.27334	3.7	26.278491	2	1.293332	-30.2318
4.79	1.31	20.07	15.95	1.532061	1.217557	1.29405	3.7	26.343023	2.1	1.31319	-31.0399
4.8	1.31	18.86	16.25	1.439695	1.240458	1.29375	3.7	26.407555	2.1	1.31325	-30.838
4.81	1.31	17.74	16.13	1.354198	1.231298	1.29387	3.7	26.472088	2.1	1.313226	-31.0561
4.82	1.28	16.59	16.07	1.296094	1.255469	1.26393	3.7	26.53662	2.1	1.283214	-31.2142
4.83	1.27	15.82	16.13	1.245669	1.270079	1.25387	3.7	26.601152	2.1	1.273226	-31.2523
4.84	1.3	15.54	15.95	1.195385	1.226923	1.28405	3.7	26.665685	2.1	1.30319	-31.5304
4.85	1.47	16.72	15.89	1.137415	1.080952	1.45411	3.7	26.730217	2.1	1.473178	-31.6885
4.86	1.53	17.45	14.77	1.140523	0.965359	1.51523	3.7	26.794749	2.1	1.532954	-32.9066
4.87	1.55	18.28	10.22	1.179355	0.659355	1.53978	3.7	26.859281	2	1.552044	-37.5547
4.88	1.56	18.54	7.09	1.188462	0.454487	1.55291	3.7	26.923814	2	1.561418	-40.7828
4.89	1.56	18.54	7.09	1.188462	0.454487	1.55291	3.7	26.988346	2	1.561418	-40.8809
4.9	1.56	18.54	7.09	1.188462	0.454487	1.55291	3.7	27.052878	2	1.561418	-40.979
4.91	1.56	18.57	11.23	1.190385	0.719872	1.54877	3.7	27.117411	2	1.562246	-36.9371
4.92	1.53	16.53	9.28	1.080392	0.606536	1.52072	3.7	27.181943	2	1.531856	-38.9852
4.93	1.42	14.61	9.39	1.028873	0.661268	1.41061	3.7	27.246475	2	1.421878	-38.9733
4.94	1.37	14.45	9.57	1.054745	0.69854	1.36043	3.7	27.311008	2.1	1.371914	-38.8914
4.95	1.32	14.48	9.87	1.09697	0.747727	1.31013	3.7	27.37554	2.1	1.321974	-38.6895
4.96	1.32	14.64	10.04	1.109091	0.760606	1.30996	3.7	27.440072	2	1.322008	-38.6176
4.97	1.38	15.06	10.22	1.091304	0.74058	1.36978	3.7	27.504605	2	1.382044	-38.5357
4.98	1.48	15.95	10.46	1.077703	0.706757	1.46954	3.7	27.569137	2	1.482092	-38.3938
4.99	1.59	17.55	10.58	1.103774	0.665409	1.57942	3.8	27.635411	2	1.592116	-38.3719
5	1.73	20.96	4.19	1.211561	0.242197	1.72581	3.8	27.701685	2	1.730838	-44.86
5.01	1.7	19.62	-0.89	1.154118	-0.052353	1.70089	3.8	27.767959	2	1.699822	-50.0381
5.02	1.7	19.49	-1.89	1.146471	-0.111176	1.70189	3.8	27.834232	2.1	1.699622	-51.1362
5.03	1.71	19.27	-2.42	1.126901	-0.14152	1.71242	3.9	27.902248	2.1	1.709516	-51.7643
5.04	1.7	19.27	-1.77	1.133529	-0.104118	1.70177	3.9	27.970263	2.1	1.699646	-51.2124
5.05	1.68	18.66	-1.89	1.110714	-0.1125	1.68189	3.9	28.038278	2.1	1.679622	-51.4305
5.06	1.71	18.12	-1.6	1.059649	-0.093567	1.7116	3.9	28.106294	2.1	1.70968	-51.2386
5.07	1.75	17.99	-1.42	1.028	-0.081143	1.75142	3.9	28.174309	2.1	1.749716	-51.1567
5.08	1.81	17.8	-1.24	0.983425	-0.068508	1.81124	3.9	28.242324	2.1	1.809752	-51.0748
5.09	1.88	17.83	-1.06	0.948404	-0.056383	1.88106	3.9	28.31034	2.1	1.879788	-50.9929
5.1	1.97	18.15	-0.95	0.92132	-0.048223	1.97095	3.9	28.378355	2	1.96981	-50.981
5.11	2.06	18.28	-1.18	0.887379	-0.057282	2.06118	3.9	28.44637	2	2.059764	-51.3091
5.12	2.16	18.41	-1.12	0.852315	-0.051852	2.16112	3.9	28.514385	2	2.159776	-51.3472
5.13	2.36	17.58	-1.48	0.744915	-0.062712	2.36148	3.9	28.582401	2	2.359704	-51.8053
5.14	2.44	17.93	-1.6	0.734836	-0.065574	2.4416	3.9	28.650416	2	2.43968	-52.0234
5.15	2.44	17.99	-1.71	0.737295	-0.070082	2.44171	3.9	28.718431	2	2.439658	-52.2315
5.16	2.44	17.87	-1.83	0.732377	-0.075	2.44183	3.9	28.786447	2.1	2.439634	-52.4496
5.17	2.37	18.09	-1.89	0.763291	-0.079747	2.37189	3.9	28.854462	2.1	2.369622	-52.6077
5.18	2.29	17.36	-1.83	0.758079	-0.079913	2.29183	3.9	28.922477	2	2.289634	-52.6458
5.19	2.17	16.46	-1.65	0.758525	-0.076037	2.17165	3.9	28.990492	2	2.16967	-52.5639
5.2	1.93	15.22	-1.36	0.788601	-0.070466	1.93136	3.9	29.058508	2.1	1.929728	-52.372
5.21	1.8	14.8	-1.24	0.822222	-0.068889	1.80124	3.9	29.126523	2.1	1.799752	-52.3501
5.22	1.67	14.84	-1.12	0.888623	-0.067066	1.67112	3.9	29.194538	2	1.669776	-52.3282
5.23	1.54	15.35	-1.06	0.996753	-0.068831	1.54106	3.9	29.262554	2	1.539788	-52.3663
5.24	1.42	16.62	-0.95	1.170423	-0.066901	1.42095	3.9	29.330569	2.1	1.41981	-52.3544
5.25	1.32	18.19	-0.83	1.37803	-0.062879	1.32083	3.9	29.398584	2.1	1.319834	-52.3325
5.26	1.25	19.62	-0.71	1.5696	-0.0568	1.25071	3.9	29.466599	2	1.249858	-52.3106
5.27	1.25	23.07	-0.41	1.8456	-0.0328	1.25041	3.9	29.534615	2	1.249918	-52.1087
5.28	1.27	25.3	-0.24	1.992126	-0.018898	1.27024	3.9	29.60263	2	1.269952	-52.0368
5.29	1.28	27.66	-0.12	2.160938	-0.009375	1.28012	3.9	29.670645	2	1.279976	-52.0149
5.3	1.31	30.25	0	2.30916	0	1.31	3.9	29.738661	2.1	1.31	-51.993
5.31	1.37	33.66	-0.3	2.456934	-0.021898	1.3703	3.9	29.806676	2.1	1.36994	-52.3911
5.32	1.51	35.61	-1.36	2.358278	-0.090066	1.51136	3.9	29.874691	2	1.509728	-53.5492
5.33	1.71	33.98	-2.19	1.987135	-0.12807	1.71219	3.9	29.942706	2	1.709562	-54.4773
5.34	2.05	32.64	-3.43	1.592195	-0.167317	2.05343	3.9	30.010722	2	2.049314	-55.8154
5.35	2.05	32.64	-3.43	1.592195	-0.167317	2.05343	3.9	30.078737	2	2.049314	-55.9135
5.36	2.29	29.8	-5.55	1.30131	-0.242358	2.29555	3.9	30.146752	2	2.28889	-58.1316
5.37	2.37	28.49	-9.22	1.20211	-0.38903	2.37922	3.9	30.214768	2.1	2.368156	-61.8997
5.38	2.43	26.61	-12.47	1.095062	-0.513169	2.44247	3.9	30.282783	2.1	2.427506	-65.2478
5.39	2.46	25.2	-13.41	1.02439	-0.545122	2.47341	3.9	30.350798	2.1	2.457318	-66.2859
5.4	2.46	22.88	-13.94	0.930081	-0.566667	2.47394	3.9	30.418814	2.1	2.457212	-66.914
5.41	2.43	20.55	-13.53	0.845679	-0.55679	2.44353	4	30.48857	2	2.427294	-66.6021
5.42	2.42	18.6	-13.29	0.768595	-0.549174	2.43329	4	30.558326	2	2.417342	-66.4602
5.43	2.43	15.86	-13.12	0.652675	-0.539918	2.44312	4	30.628083	2	2.427376	-66.3883

5.44	2.42	13.5	-12.94	0.557851	-0.534711	2.43294	4.1	30.69958	2	2.417412	-66.3064
5.45	2.42	11.9	-12.76	0.491736	-0.527273	2.43276	4	30.769337	2.1	2.417448	-66.2245
5.46	2.45	11.61	-12.58	0.473878	-0.513469	2.46258	4.1	30.840834	2.1	2.447484	-66.1426
5.47	2.49	12.47	-12.41	0.500803	-0.498394	2.50241	4	30.910591	2	2.487518	-66.0707
5.48	2.82	17.74	-12.05	0.629078	-0.427305	2.83205	4	30.980347	2	2.81759	-65.8088
5.49	3.19	25.56	-11.94	0.801254	-0.374295	3.20194	4.1	31.051845	2	3.187612	-65.7969
5.5	2.89	33.21	-11.46	1.149135	-0.39654	2.90146	4	31.121601	2	2.887708	-65.415
5.51	2.74	53.47	-11.11	1.95146	-0.405474	2.75111	4	31.191358	2.1	2.737778	-65.1631
5.52	2.72	57.08	-10.93	2.098529	-0.401838	2.73093	4	31.261114	2.1	2.717814	-65.0812
5.53	3.1	49.42	-10.69	1.594194	-0.344839	3.11069	4.2	31.334352	2.1	3.097862	-64.9393
5.54	3.25	46.74	-10.4	1.438154	-0.32	3.2604	4.2	31.407591	2.1	3.24792	-64.7474
5.55	3.38	43.3	-10.16	1.281065	-0.300592	3.39016	4.1	31.479088	2	3.377968	-64.6055
5.56	2.56	66.81	24.46	2.609766	0.955469	2.53554	4.1	31.550585	2	2.564892	-30.0836
5.57	2.55	65.82	22.98	2.581176	0.901176	2.52702	4.1	31.622083	2	2.554596	-31.6617
5.58	2.66	62.73	21.45	2.358271	0.806391	2.63855	4.1	31.69358	2	2.66429	-33.2898
5.59	2.7	59.53	17.96	2.204815	0.665185	2.68204	4.1	31.765078	2	2.703592	-36.8779
5.6	2.77	53.35	18.02	1.925993	0.650542	2.75198	4.2	31.838316	2	2.773604	-36.916
5.61	2.8	50.15	18.08	1.791071	0.645714	2.78192	4.2	31.911554	2	2.803616	-36.9541
5.62	2.77	48.05	18.26	1.734657	0.659206	2.75174	4.2	31.984792	2	2.773652	-36.8722
5.63	2.72	44.44	18.43	1.633824	0.677574	2.70157	4.3	32.059771	2	2.723686	-36.8003
5.64	2.71	42.4	18.49	1.564576	0.682288	2.69151	4.3	32.13475	2	2.713698	-36.8384
5.65	2.69	39.05	18.61	1.451673	0.691822	2.67139	4.2	32.207988	2	2.693722	-36.8165
5.66	2.69	37.23	18.67	1.384015	0.694052	2.67133	4.3	32.282967	2	2.693734	-36.8546
5.67	2.7	36.15	18.79	1.338889	0.695926	2.68121	4.3	32.357945	2	2.703758	-36.8327
5.68	2.7	34.84	18.85	1.29037	0.698148	2.68115	4.3	32.432924	2.1	2.70377	-36.8708
5.69	2.72	33.76	18.97	1.241176	0.697426	2.70103	4.3	32.507903	2.1	2.723794	-36.8489
5.7	2.73	18.57	19.14	0.68022	0.701099	2.71086	4.3	32.582882	2	2.733828	-36.777
5.71	2.75	16.97	19.26	0.617091	0.700364	2.73074	4.4	32.659601	2	2.753852	-36.7551
5.72	2.78	16.65	19.32	0.598921	0.694964	2.76068	4.3	32.734579	2	2.783864	-36.7932
5.73	2.82	15.22	19.38	0.539716	0.687234	2.80062	4.3	32.809558	2	2.823876	-36.8313
5.74	2.85	15.12	19.44	0.530526	0.682105	2.83056	4.3	32.884537	2	2.853888	-36.8694
5.75	2.87	15.22	19.56	0.530314	0.681533	2.85044	4.4	32.961256	2	2.873912	-36.8475
5.76	2.89	15.25	19.62	0.527682	0.678893	2.87038	4.3	33.036235	2	2.893924	-36.8856
5.77	2.89	15.63	19.73	0.54083	0.682699	2.87027	4.4	33.112954	2	2.893946	-36.8737
5.78	2.87	15.6	19.79	0.543554	0.689547	2.85021	4.4	33.189673	2	2.873958	-36.9118
5.79	2.85	15.57	19.85	0.546316	0.696491	2.83015	4.3	33.264651	2	2.85397	-36.9499
5.8	2.84	15.63	19.91	0.550352	0.701056	2.82009	4.3	33.33963	2.1	2.843982	-36.988
5.81	2.83	15.67	19.97	0.55371	0.705654	2.81003	4.4	33.416349	2.1	2.833994	-37.0261
5.82	2.83	15.7	20.03	0.55477	0.707774	2.80997	4.4	33.493068	2	2.834006	-37.0642
5.83	2.82	15.79	20.15	0.559929	0.714539	2.79985	4.3	33.568047	2	2.82403	-37.0423
5.84	2.83	15.89	20.21	0.561484	0.714134	2.80979	4.4	33.644766	2.1	2.834042	-37.0804
5.85	2.85	16.02	20.27	0.562105	0.711228	2.82973	4.3	33.719745	2.1	2.854054	-37.1185
5.86	2.88	16.14	20.32	0.560417	0.705556	2.85968	4.4	33.796464	2	2.884064	-37.1666
5.87	2.9	16.34	20.38	0.563448	0.702759	2.87962	4.4	33.873183	2	2.904076	-37.2047
5.88	2.94	16.49	20.44	0.560884	0.695238	2.91956	4.4	33.949902	2	2.944088	-37.2428
5.89	2.94	16.49	20.44	0.560884	0.695238	2.91956	4.4	34.026621	2	2.944088	-37.3409
5.9	2.94	16.49	20.44	0.560884	0.695238	2.91956	4.4	34.10334	2	2.944088	-37.439
5.91	2.99	14.55	23.57	0.486622	0.788294	2.96643	4.5	34.181799	2	2.994714	-34.4071
5.92	3.06	14.84	23.63	0.484967	0.772222	3.03637	4.5	34.260258	2	3.064726	-34.4452
5.93	3.12	15.06	23.69	0.482692	0.759295	3.09631	4.5	34.338717	2	3.124738	-34.4833
5.94	3.17	15.38	23.75	0.485174	0.749211	3.14625	4.5	34.417176	2	3.17475	-34.5214
5.95	3.19	15.6	23.81	0.489028	0.746395	3.16619	4.5	34.495635	2.1	3.194762	-34.5595
5.96	3.21	15.86	23.87	0.494081	0.743614	3.18613	4.5	34.574094	2.1	3.214774	-34.5976
5.97	3.23	16.05	23.93	0.496904	0.740867	3.20607	4.5	34.652553	2	3.234786	-34.6357
5.98	3.26	16.62	23.99	0.509816	0.73589	3.23601	4.6	34.732752	2	3.264798	-34.6738
5.99	3.23	16.85	24.05	0.521672	0.744582	3.20595	4.6	34.812951	2	3.23481	-34.7119
6	3.21	17.13	24.11	0.533645	0.75109	3.18589	4.6	34.89315	2	3.214822	-34.75
6.01	3.13	17.74	24.17	0.566773	0.772204	3.10583	4.6	34.973349	2	3.134834	-34.7881
6.02	3.09	18.54	24.17	0.6	0.782201	3.06583	4.6	35.053548	2.1	3.094834	-34.8862
6.03	3.09	20.58	24.28	0.666019	0.785761	3.06572	4.6	35.133747	2.1	3.094856	-34.8743
6.04	3.12	21.63	24.34	0.693269	0.780128	3.09566	4.6	35.213946	2	3.124868	-34.9124
6.05	3.14	22.49	24.4	0.716242	0.777707	3.1156	4.6	35.294145	2	3.14488	-34.9505
6.06	3.17	22.94	24.4	0.723659	0.769716	3.1456	4.6	35.374344	2	3.17488	-35.0486
6.07	3.15	23.61	24.46	0.749524	0.776508	3.12554	4.6	35.454543	2	3.154892	-35.0867
6.08	3.07	23.64	24.52	0.770033	0.798697	3.04548	4.6	35.534742	2.1	3.074904	-35.1248
6.09	2.98	24.12	24.58	0.809396	0.824832	2.95542	4.6	35.614941	2.1	2.984916	-35.1629
6.1	2.79	25.75	24.64	0.922939	0.883154	2.76536	4.6	35.695139	2	2.794928	-35.201
6.11	2.73	26.7	24.58	0.978022	0.900366	2.70542	4.6	35.775338	2	2.734916	-35.3591
6.12	2.56	27.76	24.46	1.084375	0.955469	2.53554	4.6	35.855537	2	2.564892	-35.5772
6.13	2.4	27.66	24.58	1.1525	1.024167	2.37542	4.6	35.935736	2	2.404916	-35.5553
6.14	2.26	33.66	26.35	1.489381	1.165929	2.23365	4.6	36.015935	2	2.26527	-33.8834
6.15	2.15	32.86	26.88	1.528372	1.250233	2.12312	4.6	36.096134	2.1	2.155376	-33.4515

6.16	2.13	33.12	27.24	1.55493	1.278873	2.10276	4.7	36.178073	2.1	2.135448	-33.1896
6.17	2	33.34	26.94	1.667	1.347	1.97306	4.7	36.260011	2	2.005388	-33.5877
6.18	2.01	38.03	25.58	1.89204	1.272637	1.98442	4.7	36.34195	2	2.015116	-35.0458
6.19	1.86	41.89	34.86	2.252151	1.874194	1.82514	4.7	36.423888	2.1	1.866972	-25.8639
6.2	2.01	41	43.66	2.039801	2.172139	1.96634	4.8	36.507566	2.1	2.018732	-17.162
6.21	2.11	40.07	41.18	1.899052	1.951659	2.06882	4.8	36.591244	2.1	2.118236	-19.7401
6.22	2.05	42.37	40.47	2.066829	1.974146	2.00953	4.8	36.674922	2.1	2.058094	-20.5482
6.23	1.78	48.27	32.02	2.711798	1.798876	1.74798	4.8	36.758599	2.1	1.786404	-29.0963
6.24	1.55	55.32	24.52	3.569032	1.581935	1.52548	4.8	36.842277	2.1	1.554904	-36.6944
6.25	1.38	56.79	29.01	4.115217	2.102174	1.35099	4.8	36.925955	2	1.385802	-32.3025
6.26	1.37	56.92	33.38	4.154745	2.436496	1.33662	4.8	37.009633	2	1.376676	-28.0306
6.27	1.43	57.14	28.83	3.995804	2.016084	1.40117	4.9	37.09505	2	1.435766	-32.6787
6.28	1.6	55.67	23.87	3.479375	1.491875	1.57613	4.9	37.180467	2	1.604774	-37.7368
6.29	1.86	56.5	14.42	3.037634	0.775269	1.8458	4.9	37.265884	2	1.862884	-47.2849
6.3	2	59.73	10.34	2.9865	0.517	1.98966	4.9	37.351301	2	2.002068	-51.463
6.31	2.12	59.47	7.21	2.805189	0.340094	2.11279	4.9	37.436718	2	2.121442	-54.6911
6.32	2.27	55.58	37.46	2.448458	1.65022	2.23254	4.9	37.522135	2	2.277492	-24.5392
6.33	2.07	50.38	41.48	2.433816	2.003865	2.02852	4.9	37.607551	2	2.078296	-20.6173
6.34	2.04	46.8	39.23	2.294118	1.923039	2.00077	4.9	37.692968	2	2.047846	-22.0654
6.35	1.85	43.87	40.35	2.371351	2.181081	1.80965	4.9	37.778385	2.1	1.85807	-21.9435
6.36	1.73	39.63	42.25	2.290751	2.442197	1.68775	4.9	37.863802	2.1	1.73845	-20.1416
6.37	1.55	46.49	40.89	2.999355	2.638065	1.50911	4.9	37.949219	2	1.558178	-21.5997
6.38	1.43	36.82	42.01	2.574825	2.937762	1.38799	4.9	38.034636	2	1.438402	-20.5778
6.39	1.48	25.62	41.36	1.731081	2.794595	1.43864	4.9	38.120053	2.1	1.488272	-21.3259
6.4	1.38	25.36	42.78	1.837681	3.1	1.33722	4.9	38.20547	2.1	1.388556	-20.004
6.41	1.11	23.51	44.49	2.118018	4.008108	1.06551	4.9	38.290887	2	1.118898	-18.3921
6.42	1.11	25.2	44.55	2.27027	4.013514	1.06545	5	38.378043	2	1.11891	-18.4302
6.43	1.56	24.82	43.6	1.591026	2.794872	1.5164	5	38.465198	2	1.56872	-19.4783
6.44	1.43	23.1	45.2	1.615385	3.160839	1.3848	5	38.552354	2	1.43904	-17.9764
6.45	0.95	42.05	20.03	4.426316	2.108421	0.92997	5	38.63951	2	0.954006	-43.2445
6.46	0.96	38.22	20.92	3.98125	2.179167	0.93908	5.1	38.728404	2	0.964184	-42.4526
6.47	1	37.55	29.01	3.755	2.901	0.97099	5.1	38.817298	2	1.005802	-34.4607
6.48	1.08	36.08	40.53	3.340741	3.752778	1.03947	5.1	38.906193	2	1.088106	-23.0388
6.49	1.13	33.82	41.89	2.99292	3.70708	1.08811	5.1	38.995087	2	1.138378	-21.7769
6.5	1.12	34.87	45.44	3.113393	4.057143	1.07456	5.1	39.083981	2.1	1.129088	-18.325
6.51	1.04	22.24	50.28	2.138462	4.834615	0.98972	5.1	39.172876	2.1	1.050056	-13.5831
6.52	0.96	23.83	48.57	2.482292	5.059375	0.91143	5.1	39.26177	2	0.969714	-15.3912
6.53	1.01	22.49	50.64	2.226733	5.013861	0.95936	5.1	39.350664	2	1.020128	-13.4193
6.54	0.86	24.85	52.88	2.889535	6.148837	0.80712	5.1	39.439559	2.1	0.870576	-11.2774
6.55	0.83	26.67	54.48	3.213253	6.563855	0.77552	5.1	39.528453	2.1	0.840896	-9.7755
6.56	0.8	27.22	53.41	3.4025	6.67625	0.74659	5.1	39.617347	2	0.810682	-10.9436
6.57	0.78	26.35	55.07	3.378205	7.060256	0.72493	5.2	39.70798	2	0.791014	-9.3817
6.58	0.78	27.02	54.83	3.464103	7.029487	0.72517	5.1	39.796874	2	0.790966	-9.7198
6.59	0.71	24.89	56.25	3.505634	7.922535	0.65375	5.3	39.889245	2	0.72125	-8.3979
6.6	0.77	17.39	52.23	2.258442	6.783117	0.71777	5.3	39.981615	2.1	0.780446	-12.516
6.61	0.78	17.71	49.63	2.270513	6.362821	0.73037	5.3	40.073986	2.1	0.789926	-15.2141
6.62	0.74	18.66	48.15	2.521622	6.506757	0.69185	5.3	40.166356	2	0.74963	-16.7922
6.63	0.73	18.92	45.49	2.591781	6.231507	0.68451	5.2	40.256989	2	0.739098	-19.5503
6.64	0.69	20.93	43.25	3.033333	6.268116	0.64675	5.3	40.349359	2.1	0.69865	-21.8884
6.65	0.62	20.45	42.95	3.298387	6.927419	0.57705	5.3	40.44173	2.1	0.62859	-22.2865
6.66	0.54	25.36	48.86	4.696296	9.048148	0.49114	5.3	40.534101	2.1	0.549772	-16.4746
6.67	0.59	28.43	47.86	4.818644	8.111864	0.54214	5.3	40.626471	2.1	0.599572	-17.5727
6.68	0.7	29.61	43.66	4.23	6.237143	0.65634	5.3	40.718842	2	0.708732	-21.8708
6.69	0.86	28.4	51.34	3.302326	5.969767	0.80866	5.3	40.811212	2	0.870268	-14.2889
6.7	0.96	26.19	51.76	2.728125	5.391667	0.90824	5.3	40.903583	2	0.970352	-13.967
6.71	1.02	24.53	49.39	2.404902	4.842157	0.97061	5.3	40.995954	2	1.029878	-16.4351
6.72	0.92	24.76	49.81	2.691304	5.41413	0.87019	5.3	41.088324	2	0.929962	-16.1132
6.73	0.82	27.92	41.95	3.404878	5.115854	0.77805	5.3	41.180695	2	0.82839	-24.0713
6.74	0.8	32.32	32.67	4.04	4.08375	0.76733	5.3	41.273065	2.1	0.806534	-33.4494
6.75	0.89	32.54	34.45	3.65618	3.870787	0.85555	5.3	41.365436	2.1	0.89689	-31.7675
6.76	1.01	31.2	35.63	3.089109	3.527723	0.97437	5.3	41.457807	2.1	1.017126	-30.6856
6.77	1.13	31.39	29.54	2.777876	2.614159	1.10046	5.3	41.550177	2	1.135908	-36.8737
6.78	1.22	29	30.01	2.377049	2.459836	1.18999	5.4	41.644285	2	1.226002	-36.5018
6.79	1.3	27.57	28.95	2.120769	2.226923	1.27105	5.4	41.738394	2	1.30579	-37.6599
6.8	1.31	28.01	32.97	2.138168	2.516794	1.27703	5.4	41.832502	2	1.316594	-33.738
6.81	1.5	25.4	28.95	1.693333	1.93	1.47105	5.4	41.92661	2.1	1.50579	-37.8561
6.82	1.6	23.29	39.23	1.455625	2.451875	1.56077	5.4	42.020719	2.1	1.607846	-27.6742
6.83	1.72	21.82	42.42	1.268605	2.466279	1.67758	5.4	42.114827	2	1.728484	-24.5823
6.84	1.84	20.45	44.67	1.111413	2.427717	1.79533	5.4	42.208935	2	1.848934	-22.4304
6.85	1.97	19.78	46.44	1.004061	2.35736	1.92356	5.4	42.303044	2	1.979288	-20.7585
6.86	2.1	19.21	46.74	0.914762	2.225714	2.05326	5.4	42.397152	2	2.109348	-20.5566
6.87	2.1	19.21	46.74	0.914762	2.225714	2.05326	5.4	42.49126	4.4	2.109348	-20.6547

6.88	2.1	19.21	46.74	0.914762	2.225714	2.05326	5.4	42.585369	2.1	2.109348	-20.7528
6.89	2.24	15.12	42.01	0.675	1.875446	2.19799	5.4	42.679477	2.1	2.248402	-25.5809
6.9	2.05	16.43	44.08	0.801463	2.150244	2.00592	5.4	42.773585	2	2.058816	-23.609
6.91	2.2	21.03	43.78	0.955909	1.99	2.15622	5.5	42.869431	2	2.208756	-24.0071
6.92	2.72	18.47	44.43	0.679044	1.633456	2.67557	5.5	42.965277	2	2.728886	-23.4552
6.93	2.96	17.39	43.37	0.5875	1.465203	2.91663	5.5	43.061122	2	2.968674	-24.6133
6.94	2.87	12.67	42.01	0.441463	1.463763	2.82799	5.5	43.156968	2.1	2.878402	-26.0714
6.95	2.82	15.6	44.14	0.553191	1.565248	2.77586	5.5	43.252814	2.1	2.828828	-24.0395
6.96	2.61	45.21	42.66	1.732184	1.634483	2.56734	5.6	43.350397	2	2.618532	-25.6176
6.97	2.55	31.59	45.61	1.238824	1.788627	2.50439	5.6	43.44798	2	2.559122	-22.7657
6.98	2.37	35.41	45.85	1.494093	1.934599	2.32415	5.6	43.545563	2	2.37917	-22.6238
6.99	2.16	44.54	44.9	2.062037	2.078704	2.1151	5.6	43.643146	2	2.16898	-23.6719
7	2.08	52.01	43.49	2.500481	2.090865	2.03651	5.6	43.740728	2	2.088698	-25.18
7.01	2.09	50.38	43.66	2.410526	2.088995	2.04634	5.6	43.838311	2	2.098732	-25.1081
7.02	2.07	49.84	45.38	2.407729	2.192271	2.02462	5.6	43.935894	2	2.079076	-23.4862
7.03	2.02	50.92	46.32	2.520792	2.293069	1.97368	5.6	44.033477	2	2.029264	-22.6443
7.04	2	49.58	46.74	2.479	2.337	1.95326	5.6	44.13106	2	2.009348	-22.3224
7.05	2.04	49.64	47.21	2.433333	2.314216	1.99279	5.6	44.228643	2.1	2.049442	-21.9505
7.06	2.14	51.24	47.44	2.394393	2.216822	2.09256	5.7	44.327963	2.1	2.149488	-21.8186
7.07	2.28	54.4	47.56	2.385965	2.085965	2.23244	5.7	44.427282	2.1	2.289512	-21.7967
7.08	2.43	53.28	47.98	2.192593	1.974486	2.38202	5.7	44.526602	2	2.439596	-21.4748
7.09	2.69	55.8	42.19	2.074349	1.568401	2.64781	5.7	44.625922	2	2.698438	-27.3629
7.1	2.8	36.24	33.91	1.294286	1.211071	2.76609	5.7	44.725242	2	2.806782	-35.741
7.11	2.86	33.15	28.42	1.159091	0.993706	2.83158	5.7	44.824561	2	2.865684	-41.3291
7.12	2.97	33.05	16.72	1.112795	0.562963	2.95328	5.7	44.923881	2	2.973344	-53.1272
7.13	3.14	29.19	5.32	0.929618	0.169427	3.13468	5.7	45.023201	2	3.141064	-64.6253
7.14	3.41	32.77	-1.95	0.960997	-0.057185	3.41195	5.8	45.124257	2	3.40961	-71.9934
7.15	3.88	36.82	-8.33	0.948969	-0.214691	3.88833	5.8	45.225314	2	3.878334	-78.4715
7.16	5.26	43.87	-17.49	0.83403	-0.33251	5.27749	5.7	45.324633	2	5.256502	-87.7296
7.17	5.78	42.78	-20.03	0.740138	-0.34654	5.80003	5.9	45.427426	2	5.775994	-90.3677
7.18	6.02	42.11	-21.74	0.699502	-0.36113	6.04174	5.8	45.528482	2	6.015652	-92.1758
7.19	6.1	41	-20.86	0.672131	-0.341967	6.12086	5.8	45.629538	2	6.095828	-91.3939
7.2	6.07	40.58	-20.32	0.668534	-0.334761	6.09032	5.8	45.730595	2.1	6.065936	-90.952
7.21	5.95	38.8	-20.03	0.652101	-0.336639	5.97003	5.9	45.833387	2.1	5.945994	-90.7601
7.22	5.68	33.63	-19.73	0.592077	-0.347359	5.69973	5.8	45.934444	2	5.676054	-90.5582
7.23	5.58	32.13	-19.62	0.575806	-0.351613	5.59962	5.8	46.0355	2	5.576076	-90.5463
7.24	5.49	31.43	-19.44	0.572495	-0.354098	5.50944	5.9	46.138292	2	5.486112	-90.4644
7.25	5.45	31.27	-19.32	0.573761	-0.354495	5.46932	5.8	46.239349	2	5.446136	-90.4425
7.26	5.45	31.43	-19.2	0.576697	-0.352294	5.4692	5.8	46.340405	2.1	5.44616	-90.4206
7.27	5.5	31.62	-19.08	0.574909	-0.346909	5.51908	5.9	46.443198	2.1	5.496184	-90.3987
7.28	5.57	31.43	-18.97	0.564273	-0.340575	5.58897	5.8	46.544254	2	5.566206	-90.3868
7.29	5.84	28.94	-18.73	0.495548	-0.320719	5.85873	5.9	46.647046	2	5.836254	-90.2449
7.3	6.05	28.46	-18.61	0.470413	-0.307603	6.06861	5.8	46.748103	2	6.046278	-90.223
7.31	6.3	29.77	-18.49	0.47254	-0.293492	6.31849	5.9	46.850895	2	6.296302	-90.2011
7.32	6.51	30.79	-18.49	0.472965	-0.284025	6.52849	5.9	46.953688	2	6.506302	-90.2992
7.33	6.6	30.95	-18.43	0.468939	-0.279242	6.61843	5.9	47.05648	2	6.596314	-90.3373
7.34	6.6	30.69	-18.38	0.465	-0.278485	6.61838	5.9	47.159273	2	6.596324	-90.3854
7.35	6.4	28.94	-18.14	0.452188	-0.283438	6.41814	5.9	47.262065	2	6.396372	-90.2435
7.36	6.23	27.98	-18.08	0.449117	-0.290209	6.24808	5.9	47.364858	2	6.226384	-90.2816
7.37	6.06	27.12	-17.96	0.447525	-0.29637	6.07796	5.9	47.46765	2	6.056408	-90.2597
7.38	5.91	26.55	-17.84	0.449239	-0.301861	5.92784	5.9	47.570443	2.1	5.906432	-90.2378
7.39	5.78	26.19	-17.73	0.453114	-0.306747	5.79773	5.9	47.673235	2.1	5.776454	-90.2259
7.4	5.7	25.94	-17.67	0.455088	-0.31	5.71767	5.9	47.776028	2	5.696466	-90.264
7.41	5.53	25.87	-17.43	0.467812	-0.31519	5.54743	6	47.880556	2	5.526514	-90.1221
7.42	5.53	25.87	-17.43	0.467812	-0.31519	5.54743	6	47.985085	2	5.526514	-90.2202
7.43	5.31	25.52	-17.25	0.480603	-0.324859	5.32725	6	48.089613	2	5.30655	-90.1383
7.44	5.2	25.62	-17.19	0.492692	-0.330577	5.21719	6	48.194142	2	5.196562	-90.1764
7.45	5.11	25.87	-17.13	0.506262	-0.335225	5.12713	5.9	48.296934	2	5.106574	-90.2145
7.46	5.04	26.67	-17.02	0.529167	-0.337698	5.05702	6	48.401463	2	5.036596	-90.2026
7.47	5.01	27.63	-16.96	0.551497	-0.338523	5.02696	6	48.505991	2	5.006608	-90.2407
7.48	5.01	28.97	-16.78	0.578244	-0.33493	5.02678	6	48.61052	2	5.006644	-90.1588
7.49	5.05	29.42	-16.66	0.582574	-0.329901	5.06666	6	48.715048	2	5.046668	-90.1369
7.5	5.13	29.54	-16.54	0.575828	-0.322417	5.14654	6	48.819577	2	5.126692	-90.115
7.51	5.21	29.54	-16.48	0.566987	-0.316315	5.22648	6	48.924105	2.1	5.206704	-90.1531
7.52	5.29	29.45	-16.37	0.556711	-0.309452	5.30637	6	49.028634	2.1	5.286726	-90.1412
7.53	5.37	29.42	-16.25	0.547858	-0.302607	5.38625	6	49.133162	2	5.36675	-90.1193
7.54	5.43	29.42	-16.19	0.541805	-0.298158	5.44619	6	49.237691	2	5.426762	-90.1574
7.55	5.58	29.54	-16.01	0.529391	-0.286918	5.59601	6	49.342219	2	5.576798	-90.0755
7.56	5.64	29.42	-15.95	0.521631	-0.282801	5.65595	6	49.446748	2	5.63681	-90.1136
7.57	5.71	29.16	-15.89	0.510683	-0.278284	5.72589	6.1	49.553012	2	5.706822	-90.1517
7.58	5.78	28.91	-15.78	0.500173	-0.27301	5.79578	6.1	49.659276	2	5.776844	-90.1398
7.59	5.87	28.78	-15.72	0.49029	-0.267802	5.88572	6	49.763804	2	5.866856	-90.1779

7.6	5.98	28.59	-15.6	0.478094	-0.26087	5.9956	6.1	49.870068	2	5.97688	-90.156
7.61	6.28	28.75	-15.42	0.457803	-0.245541	6.29542	6.1	49.976332	2	6.276916	-90.0741
7.62	6.47	28.81	-15.3	0.445286	-0.236476	6.4853	6.1	50.082596	2	6.46694	-90.0522
7.63	6.7	29.13	-15.24	0.434776	-0.227463	6.71524	6.1	50.18886	2	6.696952	-90.0903
7.64	6.94	29.45	-15.13	0.424352	-0.218012	6.95513	6.1	50.295124	2	6.936974	-90.0784
7.65	7.18	29.9	-15.07	0.416435	-0.209889	7.19507	6.1	50.401389	2	7.176986	-90.1165
7.66	7.4	30.47	-14.95	0.411757	-0.202027	7.41495	6.1	50.507653	2	7.39701	-90.0946
7.67	7.58	30.95	-14.89	0.408311	-0.196438	7.59489	6.1	50.613917	2	7.577022	-90.1327
7.68	7.85	31.75	-14.65	0.404459	-0.186624	7.86465	6.1	50.720181	2	7.84707	-89.9908
7.69	7.91	32.13	-14.59	0.406195	-0.18445	7.92459	6.2	50.82818	2	7.907082	-90.0289
7.7	7.92	33.02	-14.53	0.416919	-0.18346	7.93453	6.1	50.934444	2	7.917094	-90.067
7.71	7.9	34.04	-14.42	0.430886	-0.182532	7.91442	6.2	51.042444	2	7.897116	-90.0551
7.72	7.88	35.29	-14.36	0.447843	-0.182234	7.89436	6.1	51.148708	2	7.877128	-90.0932
7.73	7.81	36.66	-14.3	0.469398	-0.183099	7.8243	6.2	51.256707	2	7.80714	-90.1313
7.74	7.78	37.62	-14.18	0.483548	-0.182262	7.79418	6.1	51.362971	2	7.777164	-90.1094
7.75	7.89	39.63	-14	0.502281	-0.17744	7.904	6.2	51.47097	2	7.8872	-90.0275
7.76	8.02	40.77	-13.94	0.508354	-0.173815	8.03394	6.2	51.57897	2	8.017212	-90.0656
7.77	8.19	41.76	-13.83	0.50989	-0.168864	8.20383	6.2	51.686969	2	8.187234	-90.0537
7.78	8.41	42.72	-13.77	0.507967	-0.163734	8.42377	6.2	51.794968	2	8.407246	-90.0918
7.79	8.63	43.45	-13.65	0.503476	-0.158169	8.64365	6.2	51.902968	2	8.62727	-90.0699
7.8	8.88	44.22	-13.53	0.497973	-0.152365	8.89353	6.2	52.010967	2	8.877294	-90.048
7.81	9.54	45.02	-13.41	0.471908	-0.140566	9.55341	6.3	52.120701	2	9.537318	-90.0261
7.82	9.88	44.6	-13.35	0.451417	-0.135121	9.89335	6.3	52.230436	2	9.87733	-90.0642
7.83	10.09	44.06	-13.41	0.43667	-0.132904	10.10341	6.3	52.34017	2	10.087318	-90.2223
7.84	10.23	44.09	-13.53	0.430987	-0.132258	10.24353	6.2	52.448169	2	10.227294	-90.4404
7.85	10.28	44.16	-13.59	0.429572	-0.132198	10.29359	6.3	52.557904	2	10.277282	-90.5985
7.86	10.28	43.74	-13.65	0.425486	-0.132782	10.29365	6.3	52.667638	2	10.27727	-90.7566
7.87	10.09	42.56	-13.65	0.421804	-0.135282	10.10365	6.3	52.777372	2	10.08727	-90.8547
7.88	9.94	42.72	-13.59	0.429779	-0.13672	9.95359	6.3	52.887107	2	9.937282	-90.8928
7.89	9.94	42.72	-13.59	0.429779	-0.13672	9.95359	6.3	52.996841	2	9.937282	-90.9909
7.9	9.94	42.72	-13.59	0.429779	-0.13672	9.95359	6.3	53.106575	2	9.937282	-91.089
7.91	9.32	36.91	-10.46	0.39603	-0.112232	9.33046	6.3	53.21631	2	9.317908	-88.0571
7.92	9.42	36.31	-10.16	0.385456	-0.107856	9.43016	6.3	53.326044	2	9.417968	-87.8552
7.93	9.28	36.56	-10.1	0.393966	-0.108836	9.2901	6.3	53.435778	2	9.27798	-87.8933
7.94	8.77	37.33	-9.93	0.425656	-0.113227	8.77993	6.3	53.545513	2	8.768014	-87.8214
7.95	8.46	38.29	-9.87	0.4526	-0.116667	8.46987	6.3	53.655247	2	8.458026	-87.8595
7.96	8.16	39.56	-9.81	0.484804	-0.120221	8.16981	6.3	53.764981	2	8.158038	-87.8976
7.97	7.91	41.19	-9.69	0.520733	-0.122503	7.91969	6.3	53.874716	2	7.908062	-87.8757
7.98	7.64	43.26	-9.63	0.56623	-0.126047	7.64963	6.3	53.98445	2	7.638074	-87.9138
7.99	7.44	44.57	-9.51	0.599059	-0.127823	7.44951	6.3	54.094184	2	7.438098	-87.8919
8	7.24	46.9	-9.34	0.64779	-0.129006	7.24934	6.4	54.205653	2	7.238132	-87.82
8.01	7.28	46.39	-9.16	0.637225	-0.125824	7.28916	6.4	54.317122	2	7.278168	-87.7381
8.02	7.39	45.27	-9.1	0.612585	-0.123139	7.3991	6.4	54.428591	2.1	7.38818	-87.7762
8.03	7.51	46.13	-8.98	0.614248	-0.119574	7.51898	6.4	54.54006	2.1	7.508204	-87.7543
8.04	7.68	47.86	-8.92	0.623177	-0.116146	7.68892	6.4	54.651529	2	7.678216	-87.7924
8.05	7.79	48.4	-8.86	0.621309	-0.113736	7.79886	6.4	54.762998	2	7.788228	-87.8305
8.06	7.82	48.66	-9.1	0.622251	-0.116368	7.8291	6.4	54.874467	2	7.81818	-88.1686
8.07	7.81	49.04	-9.39	0.627913	-0.12023	7.81939	6.4	54.985936	2	7.808122	-88.5567
8.08	7.78	48.56	-9.87	0.624165	-0.126864	7.78987	6.4	55.097405	2.1	7.778026	-89.1348
8.09	7.7	46.96	-9.87	0.60987	-0.128182	7.70987	6.4	55.208873	2.1	7.698026	-89.2329
8.1	7.64	44.09	-9.69	0.577094	-0.126832	7.64969	6.4	55.320342	2	7.638062	-89.151
8.11	7.51	41.76	-9.57	0.556059	-0.12743	7.51957	6.4	55.431811	2	7.508086	-89.1291
8.12	7.24	40.52	-9.16	0.559669	-0.126519	7.24916	6.4	55.54328	2	7.238168	-88.8172
8.13	7.17	40.17	-8.98	0.560251	-0.125244	7.17898	6.4	55.654749	2	7.168204	-88.7353
8.14	7.11	39.59	-8.98	0.556821	-0.126301	7.11898	6.4	55.766218	2.1	7.108204	-88.8334
8.15	7.09	39.02	-8.86	0.550353	-0.124965	7.09886	6.5	55.879421	2.1	7.088228	-88.8115
8.16	7.11	38.32	-8.74	0.538959	-0.122925	7.11874	6.5	55.992625	2	7.108252	-88.7896
8.17	7.19	37.46	-8.69	0.521001	-0.120862	7.19869	6.4	56.104093	2	7.188262	-88.8377
8.18	7.32	37.39	-8.57	0.510792	-0.117077	7.32857	6.5	56.217297	2	7.318286	-88.8158
8.19	7.78	37.58	-8.33	0.483033	-0.107069	7.78833	6.5	56.3305	2	7.778334	-88.6739
8.2	8.09	37.65	-8.21	0.465389	-0.101483	8.09821	6.5	56.443703	2.1	8.088358	-88.652
8.21	8.46	37.81	-8.15	0.446927	-0.096336	8.46815	6.5	56.556906	2.1	8.45837	-88.6901
8.22	8.84	37.52	-8.09	0.424434	-0.091516	8.84809	6.4	56.668375	2	8.838382	-88.7282
8.23	9.19	37.3	-7.98	0.405876	-0.086834	9.19798	6.5	56.781578	2	9.188404	-88.7163
8.24	9.49	37.55	-7.86	0.39568	-0.082824	9.49786	6.6	56.896516	2.1	9.488428	-88.6944
8.25	9.97	38	-7.68	0.381143	-0.077031	9.97768	6.6	57.011453	2.1	9.968464	-88.6125
8.26	10.18	38.06	-7.62	0.37387	-0.074853	10.18762	6.6	57.12639	2	10.178476	-88.6506
8.27	10.33	37.49	-7.5	0.362924	-0.072604	10.3375	6.6	57.241327	2	10.3285	-88.6287
8.28	10.53	37.46	-7.39	0.355745	-0.07018	10.53739	6.6	57.356264	2	10.528522	-88.6168
8.29	10.69	36.79	-7.33	0.344153	-0.068569	10.69733	6.6	57.471201	2	10.688534	-88.6549
8.3	10.83	37.36	-7.21	0.344968	-0.066574	10.83721	6.6	57.586139	2	10.828558	-88.633
8.31	11.1	39.08	-7.03	0.352072	-0.063333	11.10703	6.6	57.701076	2	11.098594	-88.5511

8.32	11.2	40.3	-6.91	0.359821	-0.061696	11.20691	6.6	57.816013	2	11.198618	-88.5292
8.33	11.3	41.7	-6.85	0.369027	-0.060619	11.30685	6.6	57.93095	2	11.29863	-88.5673
8.34	11.4	42.59	-6.74	0.373596	-0.059123	11.40674	6.6	58.045887	2	11.398652	-88.5554
8.35	11.48	43.68	-6.62	0.380488	-0.057666	11.48662	6.6	58.160824	2	11.478676	-88.5335
8.36	11.51	45.18	-6.56	0.392528	-0.056994	11.51656	6.6	58.275761	2	11.508688	-88.5716
8.37	11.55	46.42	-6.44	0.401905	-0.055758	11.55644	6.6	58.390699	2	11.548712	-88.5497
8.38	11.53	48.14	-6.2	0.41752	-0.053773	11.5362	6.6	58.505636	2.1	11.52876	-88.4078
8.39	11.55	48.46	-6.09	0.419567	-0.052727	11.55609	6.6	58.620573	2.1	11.548782	-88.3959
8.4	11.52	49.1	-5.97	0.426215	-0.051823	11.52597	6.6	58.73551	2	11.518806	-88.374
8.41	11.51	49.74	-5.91	0.432146	-0.051347	11.51591	6.6	58.850447	2	11.508818	-88.4121
8.42	11.5	50.12	-5.79	0.435826	-0.050348	11.50579	6.6	58.965384	2	11.498842	-88.3902
8.43	11.55	50.22	-5.73	0.434805	-0.04961	11.55573	6.6	59.080321	2	11.548854	-88.4283
8.44	11.6	50.38	-5.55	0.43431	-0.047845	11.60555	6.7	59.196992	2	11.59889	-88.3464
8.45	11.58	50.47	-5.44	0.435838	-0.046978	11.58544	6.7	59.313663	2	11.578912	-88.3345
8.46	11.57	50.41	-5.38	0.435696	-0.0465	11.57538	6.7	59.430334	2	11.568924	-88.3726
8.47	11.49	50.67	-5.26	0.440992	-0.045779	11.49526	6.6	59.545271	2	11.488948	-88.3507
8.48	11.44	50.38	-5.2	0.440385	-0.045455	11.4452	6.7	59.661942	2	11.43896	-88.3888
8.49	11.36	50.15	-5.08	0.441461	-0.044718	11.36508	6.8	59.780346	2	11.358984	-88.3669
8.5	11.18	50.22	-4.96	0.449195	-0.044365	11.18496	6.7	59.897016	2	11.179008	-88.345
8.51	11.13	49.39	-4.84	0.443756	-0.043486	11.13484	6.7	60.013687	2	11.129032	-88.3231
8.52	11.11	48.94	-4.73	0.440504	-0.042574	11.11473	6.8	60.132091	2	11.109054	-88.3112
8.53	11.14	50.06	-4.67	0.449372	-0.041921	11.14467	6.8	60.250495	2	11.139066	-88.3493
8.54	11.18	50.54	-4.55	0.452057	-0.040698	11.18455	6.8	60.368899	2	11.17909	-88.3274
8.55	11.26	51.08	-4.49	0.453641	-0.039876	11.26449	6.8	60.487303	2	11.259102	-88.3655
8.56	11.35	51.46	-4.37	0.453392	-0.038502	11.35437	6.8	60.605707	2	11.349126	-88.3436
8.57	11.65	52.68	-4.19	0.452189	-0.035966	11.65419	6.8	60.724111	2	11.649162	-88.2617
8.58	11.79	52.58	-4.14	0.445971	-0.035115	11.79414	6.8	60.842515	2	11.789172	-88.3098
8.59	11.85	52.29	-4.02	0.441266	-0.033924	11.85402	6.8	60.960919	2	11.849196	-88.2879
8.6	11.84	51.78	-3.96	0.437331	-0.033446	11.84396	6.8	61.079323	2	11.839208	-88.326
8.61	11.75	51.75	-3.84	0.440426	-0.032681	11.75384	6.8	61.197727	2	11.749232	-88.3041
8.62	11.65	52.13	-3.78	0.447468	-0.032446	11.65378	6.8	61.316131	2	11.649244	-88.3422
8.63	11.36	52.48	-3.6	0.461972	-0.03169	11.3636	6.8	61.434535	2	11.35928	-88.2603
8.64	11.25	52.26	-3.49	0.464533	-0.031022	11.25349	6.9	61.554671	2	11.249302	-88.2484
8.65	11.18	52.71	-3.43	0.471467	-0.03068	11.18343	6.8	61.673075	2	11.179314	-88.2865
8.66	11.19	53.03	-3.31	0.473905	-0.02958	11.19331	6.8	61.791479	2	11.189338	-88.2646
8.67	11.19	52.45	-3.25	0.468722	-0.029044	11.19325	6.8	61.909883	2	11.18935	-88.3027
8.68	11.22	50.86	-3.01	0.453298	-0.026827	11.22301	6.9	62.03002	2	11.219398	-88.1608
8.69	11.22	50.79	-2.95	0.452674	-0.026292	11.22295	6.9	62.150157	2	11.21941	-88.1989
8.7	11.23	51.27	-2.84	0.456545	-0.025289	11.23284	6.9	62.270294	2	11.229432	-88.187
8.71	11.25	51.81	-2.78	0.460533	-0.024711	11.25278	6.9	62.390431	2	11.249444	-88.2251
8.72	11.23	51.91	-2.66	0.462244	-0.023687	11.23266	6.9	62.510568	2	11.229468	-88.2032
8.73	11.22	52.23	-2.6	0.465508	-0.023173	11.2226	6.9	62.630704	2	11.21948	-88.2413
8.74	11.13	52.36	-2.42	0.47044	-0.021743	11.13242	6.9	62.750841	2	11.129516	-88.1594
8.75	11.09	52.32	-2.3	0.471776	-0.020739	11.0923	6.9	62.870978	2	11.08954	-88.1375
8.76	11.07	52.42	-2.25	0.473532	-0.020325	11.07225	7	62.992847	2	11.06955	-88.1856
8.77	10.99	52.16	-2.19	0.474613	-0.019927	10.99219	6.9	63.112984	2	10.989562	-88.2237
8.78	10.93	52.32	-2.07	0.478683	-0.018939	10.93207	6.9	63.233121	2	10.929586	-88.2018
8.79	10.89	52.42	-2.01	0.481359	-0.018457	10.89201	7	63.35499	2	10.889598	-88.2399
8.8	10.8	52.9	-1.83	0.489815	-0.016944	10.80183	7	63.47686	2	10.799634	-88.158
8.81	10.74	54.17	-1.71	0.504376	-0.015922	10.74171	7	63.598729	2	10.739658	-88.1361
8.82	10.67	55.67	-1.65	0.521743	-0.015464	10.67165	7	63.720599	2	10.66967	-88.1742
8.83	10.68	56.47	-1.42	0.528745	-0.013296	10.68142	7	63.842468	2	10.679716	-88.0423
8.84	10.68	56.6	-1.3	0.529963	-0.012172	10.6813	7	63.964337	2	10.67974	-88.0204
8.85	10.97	56.25	-1.18	0.512762	-0.010757	10.97118	7.1	64.087939	2	10.969764	-87.9985
8.86	11.28	55.58	-1.06	0.49273	-0.009397	11.28106	7.1	64.21154	2	11.279788	-87.9766
8.87	11.66	55.42	-0.77	0.4753	-0.006604	11.66077	7.1	64.335142	2	11.659846	-87.7847
8.88	12.08	56.38	-0.65	0.466722	-0.005381	12.08065	7.1	64.458743	2	12.07987	-87.7628
8.89	12.08	56.38	-0.65	0.466722	-0.005381	12.08065	7.1	64.582345	2.7	12.07987	-87.8609
8.9	12.08	56.38	-0.65	0.466722	-0.005381	12.08065	7.1	64.705946	1.9	12.07987	-87.959
8.91	11.42	55.55	2.78	0.486427	0.024343	11.41722	7.1	64.829548	1.9	11.420556	-84.6271
8.92	12.74	53.31	3.25	0.418446	0.02551	12.73675	7.1	64.953149	2	12.74065	-84.2552
8.93	13.34	53.35	2.72	0.399925	0.02039	13.33728	7.1	65.07675	2	13.340544	-84.8833
8.94	13.62	55	2.3	0.403818	0.016887	13.6177	7.1	65.200352	2	13.62046	-85.4014
8.95	13.99	57.91	1.65	0.413939	0.011794	13.98835	7.1	65.323953	2	13.99033	-86.1495
8.96	14.7	59.15	1.06	0.402381	0.007211	14.69894	7.2	65.449287	2	14.700212	-86.8376
8.97	17.34	102.96	-1.65	0.593772	-0.009516	17.34165	7.2	65.57462	2	17.33967	-89.6457
8.98	19.67	166.51	-4.73	0.846518	-0.024047	19.67473	7.4	65.703415	1.9	19.669054	-92.8238
8.99	23.51	230.8	-13.47	0.98171	-0.057295	23.52347	7.5	65.833942	1.9	23.507306	-101.6619
9	27.29	270.55	-16.37	0.991389	-0.059985	27.30637	7.6	65.966198	1.9	27.286726	-104.66
9.01	37.02	261.97	-13.77	0.707645	-0.037196	37.03377	7.9	66.103643	1.9	37.017246	-102.1581
9.02	37.92	264.46	-6.68	0.697416	-0.017616	37.92668	7.8	66.239358	1.9	37.918664	-95.1662
9.03	37.49	345.63	-0.35	0.921926	-0.000934	37.49035	7.8	66.375074	1.8	37.48993	-88.9343

9.04	38.64	491.02	247.21	1.270756	0.639777	38.39279	7.7	66.50906	1.8	38.689442	158.5276
9.05	37.84	498.29	166.32	1.316834	0.439535	37.67368	7.7	66.643046	1.9	37.873264	77.5395
9.06	37.83	543.15	97.73	1.435765	0.25834	37.73227	7.8	66.778762	1.9	37.849546	8.8514
9.07	38.27	600.13	133.59	1.568147	0.349072	38.13641	7.7	66.912748	1.9	38.296718	44.6133
9.08	37.13	704.46	217.31	1.89728	0.585268	36.91269	7.7	67.046734	1.9	37.173462	128.2352
9.09	35.56	842.23	271.08	2.368476	0.762317	35.28892	7.7	67.18072	0.6	35.614216	181.9071
9.1	33.79	907.09	265.29	2.684492	0.785114	33.52471	7.6	67.312977	0.6	33.843058	176.019
9.11	33.72	978.62	209.39	2.902195	0.620967	33.51061	7.6	67.445233	1.9	33.761878	120.0209
9.12	33.2	1062.88	167.8	3.201446	0.505422	33.0322	7.6	67.577489	1.9	33.23356	78.3328
9.13	34.93	1194.78	66.06	3.420498	0.189121	34.86394	7.6	67.709746	1.8	34.943212	-23.5053
9.14	36.04	1257.82	64.34	3.490067	0.178524	35.97566	7.6	67.842002	1.8	36.052868	-25.3234
9.15	37.7	1319.69	86.38	3.500504	0.229125	37.61362	7.5	67.972528	1.8	37.717276	-3.3815
9.16	37.59	1333.47	61.27	3.547406	0.162995	37.52873	7.6	68.104785	1.9	37.602254	-28.5896
9.17	16.64	862.71	66.59	5.184555	0.40018	16.57341	7.5	68.235311	0.2	16.653318	-23.3677
9.18	29.77	1272.76	58.91	4.275311	0.197884	29.71109	7.5	68.365837	0.2	29.781782	-31.1458
9.19	33.86	1210.76	54.95	3.575783	0.162286	33.80505	7.7	68.499823	1.7	33.87099	-35.2039
9.2	27.49	1237.12	60.38	4.500255	0.219644	27.42962	7.5	68.63035	1.7	27.502076	-29.872
9.21	24.53	1192.67	62.51	4.862087	0.254831	24.46749	7.7	68.764336	1.9	24.542502	-27.8401
9.22	21.48	1214.75	60.56	5.655261	0.281937	21.41944	7.7	68.898322	1.9	21.492112	-29.8882
9.23	18.13	1234.47	60.32	6.808991	0.332708	18.06968	7.7	69.032308	2	18.142064	-30.2263
9.24	15.64	1189.52	60.86	7.605627	0.38913	15.57914	7.7	69.166294	2	15.652172	-29.7844
9.25	9.56	1050.47	63.4	10.98818	0.66318	9.4966	7.7	69.30028	2	9.57268	-27.3425
9.26	8.25	981.14	64.7	11.892606	0.784242	8.1853	7.7	69.434267	1.9	8.26294	-26.1406
9.27	7.54	913.98	64.87	12.121751	0.860345	7.47513	7.7	69.568253	1.9	7.552974	-26.0687
9.28	7.06	864.5	64.93	12.245042	0.919688	6.99507	7.7	69.702239	1.9	7.072986	-26.1068
9.29	6.01	749.39	66.88	12.469052	1.112812	5.94312	7.7	69.836225	1.9	6.023376	-24.2549
9.3	5.59	697.92	69.72	12.485152	1.247227	5.52028	7.7	69.970211	2	5.603944	-21.513
9.31	3.2	584.44	57.25	18.26375	1.789062	3.14275	7.9	70.107656	0	3.21145	-34.0811
9.32	4.74	573.24	18.85	12.093671	0.397679	4.72115	7.9	70.245101	1	4.74377	-72.5792
9.33	4.59	530.71	27.59	11.562309	0.601089	4.56241	7.9	70.382545	1	4.595518	-63.9373
9.34	4.25	395.81	43.66	9.313176	1.027294	4.20634	7.9	70.51999	1.9	4.258732	-47.9654
9.35	4.1	347.32	47.09	8.47122	1.148537	4.05291	7.9	70.657434	1.9	4.109418	-44.6335
9.36	4.07	295.95	40.47	7.271499	0.994349	4.02953	8	70.796607	2	4.078094	-51.3516
9.37	4.24	260.44	33.32	6.142453	0.785849	4.20668	8	70.93578	1.9	4.246664	-58.5997
9.38	4.52	176.85	29.36	3.912611	0.649558	4.49064	8	71.074953	1.9	4.525872	-62.6578
9.39	4.62	143.57	25.94	3.107576	0.561472	4.59406	8	71.214127	1.9	4.625188	-66.1759
9.4	4.72	120.82	24.82	2.559746	0.525847	4.69518	8.1	71.355028	1.9	4.724964	-67.394
9.41	4.82	106.59	25.23	2.211411	0.523444	4.79477	8.1	71.495929	1.9	4.825046	-67.0821
9.42	4.8	99.86	28.83	2.080417	0.600625	4.77117	8.1	71.63683	1.9	4.805766	-63.5802
9.43	4.44	81.26	37.22	1.83018	0.838288	4.40278	8.1	71.777731	1.9	4.447444	-55.2883
9.44	4.3	74.59	38.35	1.734651	0.89186	4.26165	8.2	71.92036	1.9	4.30767	-54.2564
9.45	4.17	58.8	40.18	1.410072	0.963549	4.12982	8.2	72.062989	2	4.178036	-52.5245
9.46	3.99	48.14	43.19	1.206516	1.082456	3.94681	8.2	72.205618	2	3.998638	-49.6126
9.47	3.69	39.98	44.02	1.083469	1.192954	3.64598	8.2	72.348247	1.9	3.698804	-48.8807
9.48	3.65	38.25	44.31	1.047945	1.213973	3.60569	8.2	72.490876	1.9	3.658862	-48.6888
9.49	2.14	39.21	46.26	1.832243	2.161682	2.09374	8.2	72.633505	0	2.149252	-46.8369
9.5	3.74	37.94	46.56	1.014439	1.24492	3.69344	8.2	72.776134	0	3.749312	-46.635
9.51	3.76	36.82	46.74	0.979255	1.243085	3.71326	8.2	72.918763	1.8	3.769348	-46.5531
9.52	3.81	38.29	46.79	1.004987	1.228084	3.76321	8.3	73.063119	1.8	3.819358	-46.6012
9.53	3.75	40.2	38.82	1.072	1.0352	3.71118	8.3	73.207475	2	3.757764	-54.6693
9.54	3.83	40.36	31.85	1.053786	0.831593	3.79815	8.3	73.351832	1.9	3.83637	-61.7374
9.55	3.7	40.9	28.95	1.105405	0.782432	3.67105	8.3	73.496188	1.9	3.70579	-64.7355
9.56	3.64	40.84	29.19	1.121978	0.801923	3.61081	8.3	73.640544	1.9	3.645838	-64.5936
9.57	3.77	38.83	25.47	1.029973	0.675597	3.74453	8.3	73.7849	1.9	3.775094	-68.4117
9.58	3.59	38.16	22.98	1.062953	0.640111	3.56702	8.3	73.929256	1.9	3.594596	-70.9998
9.59	3.42	39.98	22.33	1.169006	0.652924	3.39767	8.3	74.073613	1.9	3.424466	-71.7479
9.6	3.4	38.57	18.97	1.134412	0.557941	3.38103	8.3	74.217969	2	3.403794	-75.206
9.61	3.53	37.78	15.07	1.070255	0.426912	3.51493	8.3	74.362325	2	3.533014	-79.2041
9.62	3.6	37.14	9.22	1.031667	0.256111	3.59078	8.4	74.508408	1.9	3.601844	-85.1522
9.63	3.6	36.75	8.74	1.020833	0.242778	3.59126	8.4	74.654491	1.9	3.601748	-85.7303
9.64	3.5	35.99	6.32	1.028286	0.180571	3.49368	8.4	74.800574	2	3.501264	-88.2484
9.65	3.37	34.65	7.09	1.02819	0.210386	3.36291	8.4	74.946657	2	3.371418	-87.5765
9.66	3.49	30.79	2.95	0.882235	0.084527	3.48705	8.5	75.094466	1.9	3.49059	-91.8146
9.67	3.31	28.46	2.6	0.859819	0.07855	3.3074	8.4	75.24055	1.9	3.31052	-92.2627
9.68	3.23	28.56	0.77	0.884211	0.023839	3.22923	8.5	75.388359	1.9	3.230154	-94.1908
9.69	3.32	28.33	-0.95	0.853313	-0.028614	3.32095	8.5	75.536168	1.9	3.31981	-96.0089
9.7	3.06	24.53	-1.6	0.801634	-0.052288	3.0616	8.5	75.683978	2	3.05968	-96.757
9.71	3.06	24.15	-0.77	0.789216	-0.025163	3.06077	8.5	75.831787	2	3.059846	-96.0251
9.72	3	23.42	0.53	0.780667	0.017667	2.99947	8.5	75.979597	2	3.000106	-94.8232
9.73	2.76	21.09	1.48	0.76413	0.053623	2.75852	8.5	76.127406	2	2.760296	-93.9713
9.74	2.78	20.8	2.78	0.748201	0.1	2.77722	8.5	76.275215	2	2.780556	-92.7694
9.75	2.71	19.49	4.08	0.719188	0.150554	2.70592	8.5	76.423025	2	2.710816	-91.5675

9.76	2.59	19.05	8.45	0.735521	0.326255	2.58155	8.5	76.570834	2	2.59169	-87.2956
9.77	2.42	17.99	10.22	0.743388	0.422314	2.40978	8.5	76.718644	2	2.422044	-85.6237
9.78	2.42	18.06	11.58	0.746281	0.478512	2.40842	8.6	76.868179	2	2.422316	-84.3618
9.79	2.26	17.61	12.29	0.779204	0.543805	2.24771	8.5	77.015988	2	2.262458	-83.7499
9.8	2.28	19.84	16.66	0.870175	0.730702	2.26334	8.6	77.165524	2	2.283332	-79.478
9.81	2.27	20.48	16.84	0.902203	0.74185	2.25316	8.6	77.315059	2	2.273368	-79.3961
9.82	2.37	21.5	22.1	0.907173	0.932489	2.3479	8.6	77.464594	2	2.37442	-74.2342
9.83	2.4	25.59	22.92	1.06625	0.955	2.37708	8.6	77.61413	2	2.404584	-73.5123
9.84	2.34	30.88	23.52	1.319658	1.005128	2.31648	8.6	77.763665	1.9	2.344704	-73.0104
9.85	2.52	40.42	22.16	1.603968	0.879365	2.49784	8.6	77.9132	1.9	2.524432	-74.4685
9.86	2.7	43.01	16.9	1.592963	0.625926	2.6831	8.6	78.062736	1.9	2.70338	-79.8266
9.87	2.89	43.52	15.3	1.505882	0.529412	2.8747	8.6	78.212271	1.9	2.89306	-81.5247
9.88	3.1	43.77	16.07	1.411935	0.518387	3.08393	8.6	78.361806	1.9	3.103214	-80.8528
9.89	3.1	43.77	16.07	1.411935	0.518387	3.08393	8.6	78.511342	2.3	3.103214	-80.9509
9.9	3.1	43.77	16.07	1.411935	0.518387	3.08393	8.6	78.660877	2.3	3.103214	-81.049
9.91	3.47	42.94	44.79	1.237464	1.290778	3.42521	8.8	78.813863	2	3.478958	-52.4271
9.92	3.4	45.66	41.36	1.342941	1.216471	3.35864	8.8	78.966849	2	3.408272	-55.9552
9.93	3.19	50.06	37.34	1.569279	1.170533	3.15266	8.8	79.119835	2.2	3.197468	-60.0733
9.94	2.8	53.63	35.45	1.915357	1.266071	2.76455	8.8	79.272821	2.2	2.80709	-62.0614
9.95	2.5	59.47	36.69	2.3788	1.4676	2.46331	8.7	79.424081	2.2	2.507338	-60.9195
9.96	2.13	63.3	39.17	2.971831	1.838967	2.09083	8.8	79.577067	2.2	2.137834	-58.5376
9.97	1.99	63.01	41.3	3.166332	2.075377	1.9487	8.8	79.730053	2.2	1.99826	-56.5057
9.98	1.92	56.82	70.19	2.959375	3.655729	1.84981	8.8	79.883039	0.6	1.934038	-27.7138
9.99	1.9	60.08	71.37	3.162105	3.756316	1.82863	8.8	80.036025	0.6	1.914274	-26.6319
10	1.76	56.09	72.97	3.186932	4.146023	1.68703	8.8	80.189011	2	1.774594	-25.13
10.01	1.69	47.51	77.58	2.811243	4.590533	1.61242	8.9	80.343721	2	1.705516	-20.6181
10.02	1.67	46.26	78.35	2.77006	4.691617	1.59165	8.9	80.498431	2	1.68567	-19.9462
10.03	1.52	40.49	78.64	2.663816	5.173684	1.44136	8.8	80.651417	2	1.535728	-19.7543
10.04	1.56	38.06	80.41	2.439744	5.154487	1.47959	8.9	80.806128	2	1.576082	-18.0824
10.05	1.61	37.17	82.54	2.308696	5.126708	1.52746	8.9	80.960838	2.1	1.626508	-16.0505
10.06	1.6	33.66	84.55	2.10375	5.284375	1.51545	8.9	81.115548	2.1	1.61691	-14.1386
10.07	1.81	29.48	88.15	1.628729	4.870166	1.72185	8.9	81.270259	2	1.82763	-10.6367
10.08	1.93	28.3	89.69	1.466321	4.64715	1.84031	8.9	81.424969	2	1.947938	-9.1948
10.09	1.99	29.42	91.11	1.478392	4.578392	1.89889	8.9	81.579679	2	2.008222	-7.8729
10.1	2.02	31.33	92.29	1.55099	4.568812	1.92771	8.9	81.73439	2	2.038458	-6.791
10.11	2.02	32.83	93.23	1.625248	4.615347	1.92677	8.9	81.8891	2	2.038646	-5.9491
10.12	2.05	35.77	94.06	1.744878	4.588293	1.95594	8.9	82.043811	2	2.068812	-5.2172
10.13	1.83	36.47	96.19	1.992896	5.256284	1.73381	8.9	82.198521	2	1.849238	-3.1853
10.14	1.78	37.17	97.49	2.088202	5.476966	1.68251	8.9	82.353231	2	1.799498	-1.9834
10.15	1.81	39.5	98.85	2.18232	5.461326	1.71115	8.9	82.507942	2	1.82977	-0.7215
10.16	1.88	39.02	100.27	2.075532	5.333511	1.77973	8.9	82.662652	2	1.900054	0.6004
10.17	1.75	36.5	101.62	2.085714	5.806857	1.64838	8.9	82.817363	2	1.770324	1.8523
10.18	1.75	37.71	102.92	2.154857	5.881143	1.64708	8.9	82.972073	2	1.770584	3.0542
10.19	1.87	39.24	105.7	2.098396	5.652406	1.7643	8.9	83.126783	2	1.89114	5.7361
10.2	1.8	34.49	107.06	1.916111	5.947778	1.69294	8.9	83.281494	2	1.821412	6.998
10.21	1.85	35.7	108.48	1.92973	5.863784	1.74152	8.9	83.436204	2	1.871696	8.3199
10.22	1.91	36.98	109.78	1.936126	5.747644	1.80022	8.9	83.590914	2	1.931956	9.5218
10.23	1.97	37.74	111.2	1.915736	5.64467	1.8588	8.9	83.745625	2	1.99224	10.8437
10.24	2.02	37.81	112.38	1.871782	5.563366	1.90762	9.1	83.903783	2	2.042476	11.9256
10.25	2.06	41.19	114.56	1.999515	5.561165	1.94544	9.1	84.061941	2	2.082912	14.0075
10.26	1.92	38.41	115.86	2.000521	6.034375	1.80414	9	84.218375	2	1.943172	15.2094
10.27	1.89	37.65	117.22	1.992063	6.202116	1.77278	9.1	84.376534	2	1.913444	16.4713
10.28	1.96	41	118.58	2.091837	6.05	1.84142	9.1	84.534692	2	1.983716	17.7332
10.29	1.89	39.18	120.12	2.073016	6.355556	1.76988	9.1	84.69285	2	1.914024	19.1751
10.3	1.83	37.3	121.6	2.038251	6.644809	1.7084	9.1	84.851008	2	1.85432	20.557
10.31	1.96	40.46	123.13	2.064286	6.282143	1.83687	9.1	85.009166	2	1.984626	21.9889
10.32	1.79	35.26	126.2	1.969832	7.050279	1.6638	9.1	85.167324	2	1.81524	24.9608
10.33	1.85	35.51	127.68	1.919459	6.901622	1.72232	9.1	85.325482	2	1.875536	26.3427
10.34	1.89	37.07	129.28	1.961376	6.840212	1.76072	9.1	85.48364	2	1.915856	27.8446
10.35	1.82	35.06	130.99	1.926374	7.197253	1.68901	9.1	85.641798	2	1.846198	29.4565
10.36	1.8	33.5	132.82	1.861111	7.378889	1.66718	9.1	85.799956	2	1.826564	31.1884
10.37	1.92	33.56	134.71	1.747917	7.016146	1.78529	9.2	85.959837	2	1.946942	32.9803
10.38	2.07	34.94	138.26	1.687923	6.679227	1.93174	9.1	86.117995	2	2.097652	36.4322
10.39	2.15	36.98	139.73	1.72	6.49907	2.01027	9.2	86.277877	2	2.177946	37.8041
10.4	2.14	36.82	140.62	1.720561	6.571028	1.99938	9.2	86.437758	2	2.168124	38.596
10.41	2.07	39.37	141.51	1.901932	6.836232	1.92849	9.2	86.597639	2	2.098302	39.3879
10.42	1.9	37.42	142.75	1.969474	7.513158	1.75725	9.2	86.75752	2	1.92855	40.5298
10.43	1.86	35	144.46	1.88172	7.766667	1.71554	9.2	86.917401	2	1.888892	42.1417
10.44	1.92	35	146.41	1.822917	7.625521	1.77359	9.2	87.077282	2	1.949282	43.9936
10.45	2.01	32.54	150.13	1.618905	7.469154	1.85987	9.2	87.237164	2	2.040026	47.6155
10.46	2.04	32.35	151.49	1.585784	7.42598	1.88851	9.3	87.398768	2.1	2.070298	48.8774
10.47	2.1	34.52	153.56	1.64381	7.312381	1.94644	9.2	87.558649	2.1	2.130712	50.8493

10.48	2.31	34.17	155.45	1.479221	6.729437	2.15455	9.2	87.71853	2	2.34109	52.6412
10.49	2.35	37.46	157.05	1.594043	6.682979	2.19295	9.3	87.880134	2	2.38141	54.1431
10.5	2.45	38.76	158.46	1.582041	6.467755	2.29154	9.3	88.041738	2	2.481692	55.455
10.51	2.45	41.86	160.89	1.708571	6.566939	2.28911	9.2	88.201619	2	2.482178	57.7869
10.52	2.49	42.08	162.72	1.68996	6.53494	2.32728	9.2	88.3615	2	2.522544	59.5188
10.53	2.65	41.57	164.67	1.568679	6.213962	2.48533	9.3	88.523104	2	2.682934	61.3707
10.54	2.9	43.17	166.68	1.488621	5.747586	2.73332	9.2	88.682985	2	2.933336	63.2826
10.55	3.29	47.41	168.27	1.441033	5.11459	3.12173	9.3	88.844589	2	3.323654	64.7745
10.56	3.97	57.33	162.95	1.444081	4.104534	3.80705	9.3	89.006193	2	4.00259	59.3564
10.57	4.02	61.96	157.75	1.541294	3.924129	3.86225	9.4	89.169519	2	4.05155	54.0583
10.58	4	65.05	153.74	1.62625	3.8435	3.84626	9.4	89.332844	2	4.030748	49.9502
10.59	4	67.32	149.36	1.683	3.734	3.85064	9.4	89.49617	2	4.029872	45.4721
10.6	3.99	69.65	145.88	1.745614	3.65614	3.84412	9.4	89.659496	2	4.019176	41.894
10.61	3.9	70.45	143.52	1.80641	3.68	3.75648	9.4	89.822822	2	3.928704	39.4359
10.62	3.79	71.21	144.64	1.878892	3.816359	3.64536	9.4	89.986148	2.1	3.818928	40.4578
10.63	3.73	70.19	145.58	1.881769	3.902949	3.58442	9.4	90.149474	2.1	3.759116	41.2997
10.64	3.72	65.76	146.06	1.767742	3.926344	3.57394	9.4	90.3128	2	3.749212	41.6816
10.65	3.81	61.42	146.59	1.612073	3.847507	3.66341	9.4	90.476126	2	3.839318	42.1135
10.66	3.97	58.32	148.83	1.469018	3.748866	3.82117	9.4	90.639452	2	3.999766	44.2554
10.67	4.18	61.77	150.37	1.477751	3.597368	4.02963	9.4	90.802778	2	4.210074	45.6973
10.68	4.43	66.39	151.26	1.498646	3.414447	4.27874	9.4	90.966104	2	4.460252	46.4892
10.69	4.63	67.61	147.77	1.460259	3.191577	4.48223	9.4	91.12943	2	4.659554	42.9011
10.7	4.94	70.45	141.45	1.426113	2.86336	4.79855	9.4	91.292756	2	4.96829	36.483
10.71	5.03	70.38	140.15	1.399205	2.786282	4.88985	9.4	91.456082	2	5.05803	35.0849
10.72	5.05	66.23	138.91	1.311485	2.750693	4.91109	9.4	91.619408	2	5.077782	33.7468
10.73	5.05	67.48	134.36	1.336238	2.660594	4.91564	9.4	91.782734	2	5.076872	29.0987
10.74	5.01	67.35	128.27	1.344311	2.560279	4.88173	9.4	91.94606	2.1	5.035654	22.9106
10.75	4.93	65.56	125.61	1.329817	2.54787	4.80439	9.4	92.109386	2.1	4.955122	20.1525
10.76	4.9	62.79	125.02	1.281429	2.551429	4.77498	9.5	92.274433	2.1	4.925004	19.4644
10.77	5	60.08	126.14	1.2016	2.5228	4.87386	9.5	92.439481	2.1	5.025228	20.4863
10.78	5.32	59.02	125.32	1.109398	2.355639	5.19468	9.5	92.604529	2.1	5.345064	19.5682
10.79	5.34	62.09	123.49	1.162734	2.312547	5.21651	9.5	92.769576	2	5.364698	17.6401
10.8	5.22	63.46	117.75	1.215709	2.255747	5.10225	9.5	92.934624	2	5.24355	11.802
10.81	5.05	63.46	111.91	1.256634	2.21604	4.93809	9.5	93.099671	2.1	5.072382	5.8639
10.82	4.91	64.86	109.13	1.320978	2.222607	4.80087	9.5	93.264719	2.1	4.931826	2.9858
10.83	4.82	63.49	108.71	1.31722	2.255394	4.71129	9.5	93.429767	2.1	4.841742	2.4677
10.84	4.96	62.06	107.42	1.25121	2.165726	4.85258	9.6	93.596535	2.1	4.981484	1.0796
10.85	5.19	63.68	107.18	1.226975	2.065125	5.08282	9.6	93.763304	2	5.211436	0.7415
10.86	5.43	65.41	106.35	1.204604	1.958564	5.32365	9.7	93.931794	2	5.45127	-0.1866
10.87	5.43	65.41	106.35	1.204604	1.958564	5.32365	9.7	94.100283	2.5	5.45127	-0.2847
10.88	5.43	65.41	106.35	1.204604	1.958564	5.32365	9.7	94.268772	1.9	5.45127	-0.3828
10.89	2.87	42.78	142.92	1.490592	4.979791	2.72708	9.6	94.435541	1.9	2.898584	36.0891
10.9	6.54	50.57	107.06	0.773242	1.637003	6.43294	9.6	94.60231	2	6.561412	0.131
10.91	6.58	53.7	101.39	0.816109	1.540881	6.47861	9.6	94.769079	2	6.600278	-5.6371
10.92	6.55	55.48	97.37	0.847023	1.486565	6.45263	9.6	94.935847	2	6.569474	-9.7552
10.93	6.44	55.55	91.7	0.862578	1.423913	6.3483	9.6	95.102616	2	6.45834	-15.5233
10.94	6.28	54.11	88.86	0.861624	1.414968	6.19114	9.6	95.269385	2	6.297772	-18.4614
10.95	5.95	53.38	81.89	0.897143	1.376303	5.86811	9.6	95.436154	2	5.966378	-25.5295
10.96	5.95	53.38	81.89	0.897143	1.376303	5.86811	9.6	95.602922	2	5.966378	-25.6276
10.97	5.69	51.94	80	0.91283	1.405975	5.61	9.6	95.769691	2	5.706	-27.6157
10.98	5.55	49.39	79.41	0.88991	1.430811	5.47059	9.7	95.93818	2	5.565882	-28.3038
10.99	5.35	48.43	79.47	0.905234	1.485421	5.27053	9.7	96.10667	2	5.365894	-28.3419
11	5.13	47.28	79.17	0.921637	1.543275	5.05083	9.7	96.275159	2	5.145834	-28.74
11.01	4.79	48.56	78.17	1.013779	1.631942	4.71183	9.7	96.443649	2.1	4.805634	-29.8381
11.02	4.73	47.25	78.58	0.998943	1.661311	4.65142	9.7	96.612138	2.1	4.745716	-29.5262
11.03	4.82	45.46	79.23	0.943154	1.643776	4.74077	9.7	96.780627	2.1	4.835846	-28.9743
11.04	4.98	44.86	79.76	0.900803	1.601606	4.90024	9.7	96.949117	2	4.995952	-28.5424
11.05	5.21	46.9	80.12	0.900192	1.537812	5.12988	9.7	97.117606	2	5.226024	-28.2805
11.06	5.49	50.79	80.06	0.925137	1.458288	5.40994	9.7	97.286095	2.1	5.506012	-28.4386
11.07	5.74	52.8	79.88	0.919861	1.391638	5.66012	9.7	97.454585	2.1	5.755976	-28.7167
11.08	5.92	53.89	79.29	0.910304	1.339358	5.84071	9.7	97.623074	2.1	5.935858	-29.4048
11.09	6.11	51.18	78.29	0.837643	1.281342	6.03171	9.7	97.791564	2.1	6.125658	-30.5029
11.1	6.18	48.72	77.58	0.78835	1.25534	6.10242	9.7	97.960053	2	6.195516	-31.311
11.11	6.2	48.18	76.99	0.777097	1.241774	6.12301	9.7	98.128542	2	6.215398	-31.9991
11.12	6.22	47.47	76.51	0.763183	1.230064	6.14349	9.8	98.298752	2	6.235302	-32.5772
11.13	6.22	47.09	76.34	0.757074	1.227331	6.14366	9.8	98.468961	2	6.235268	-32.8453
11.14	6.23	46.17	75.92	0.741091	1.21862	6.15408	9.7	98.637451	2	6.245184	-33.3634
11.15	6.21	46.42	74.56	0.747504	1.200644	6.13544	9.7	98.80594	2	6.224912	-34.8215
11.16	6.09	45.66	74.62	0.749754	1.225287	6.01538	9.9	98.977869	2	6.104924	-34.8596
11.17	5.99	45.24	74.27	0.755259	1.2399	5.91573	9.8	99.148079	2	6.004854	-35.3077
11.18	5.82	43.81	73.15	0.752749	1.256873	5.74685	9.9	99.320008	2	5.83463	-36.5258
11.19	5.53	42.11	73.26	0.761483	1.324774	5.45674	9.9	99.491937	2	5.544652	-36.5139

11.2	5.21	40.58	74.45	0.778887	1.428983	5.13555	9.9	99.663866	2.1	5.22489	-35.422
11.21	4.93	39.31	74.98	0.797363	1.520892	4.85502	9.9	99.835795	2.1	4.944996	-34.9901
11.22	4.59	38.16	75.63	0.831373	1.647712	4.51437	9.9	100.007724	2.1	4.605126	-34.4382
11.23	3.94	36.72	77.4	0.93198	1.964467	3.8626	9.9	100.179653	2.1	3.95548	-32.7663
11.24	3.75	36.05	78.35	0.961333	2.089333	3.67165	9.9	100.351582	2.1	3.76567	-31.9144
11.25	3.64	35.03	79.35	0.962363	2.179945	3.56065	9.9	100.523512	2.1	3.65587	-31.0125
11.26	3.64	35.41	80.65	0.972802	2.215659	3.55935	9.9	100.695441	2	3.65613	-29.8106
11.27	3.88	36.6	82.01	0.943299	2.11366	3.79799	10	100.869089	2	3.896402	-28.5487
11.28	4.8	46.87	84.43	0.976458	1.758958	4.71557	10	101.042737	2	4.816886	-26.2268
11.29	4.8	46.87	84.43	0.976458	1.758958	4.71557	10	101.216385	2	4.816886	-26.3249
11.3	6.26	61.9	82.13	0.988818	1.311981	6.17787	10	101.390033	2	6.276426	-28.723
11.31	6.91	64.13	78.52	0.928075	1.136324	6.83148	10	101.563681	2	6.925704	-32.4311
11.32	7.4	65.92	74.8	0.890811	1.010811	7.3252	10	101.73733	2	7.41496	-36.2492
11.33	7.83	67.77	65.64	0.865517	0.838314	7.76436	10	101.910978	2	7.843128	-45.5073
11.34	8.16	69.14	55.13	0.847304	0.675613	8.10487	10	102.084626	2	8.171026	-56.1154
11.35	8.7	70	48.15	0.804598	0.553448	8.65185	10	102.258274	2	8.70963	-63.1935
11.36	8.84	68.76	44.84	0.777828	0.50724	8.79516	10	102.431922	2	8.848968	-66.6016
11.37	8.77	68.6	40.71	0.782212	0.464196	8.72929	10	102.605571	2	8.778142	-70.8297
11.38	8.49	69.49	36.75	0.818492	0.432862	8.45325	10	102.779219	2	8.49735	-74.8878
11.39	8.21	69.14	34.86	0.842144	0.424604	8.17514	10	102.952867	2	8.216972	-76.8759
11.4	7.87	68.6	32.2	0.871665	0.409149	7.8378	10	103.126515	2	7.87644	-79.634
11.41	7.45	67.8	29.19	0.910067	0.391812	7.42081	10	103.300163	2	7.455838	-82.7421
11.42	6.93	66.01	27.12	0.952525	0.391342	6.90288	10	103.473811	2	6.935424	-84.9102
11.43	5.83	58.8	24.87	1.008576	0.426587	5.80513	10	103.64746	2	5.834974	-87.2583
11.44	5.24	55.71	25.05	1.063168	0.478053	5.21495	10	103.821108	2	5.24501	-87.1764
11.45	4.71	51.78	25.52	1.099363	0.541826	4.68448	10.1	103.996475	2.1	4.715104	-86.8045
11.46	4.17	51.37	26.35	1.231894	0.631894	4.14365	10.1	104.171841	2.1	4.17527	-86.0726
11.47	3.7	50.44	27.12	1.363243	0.732973	3.67288	10.1	104.347208	2	3.705424	-85.4007
11.48	3.31	51.91	27.95	1.568278	0.844411	3.28205	10.1	104.522575	2	3.31559	-84.6688
11.49	3.01	53.41	28.6	1.774419	0.950166	2.9814	10.1	104.697941	2.1	3.01572	-84.1169
11.5	2.47	64.51	29.72	2.611741	1.203239	2.44028	10.1	104.873308	2.1	2.475944	-83.095
11.51	2.24	65.82	30.66	2.938393	1.36875	2.20934	10.1	105.048675	2.1	2.246132	-82.2531
11.52	2.01	68.21	31.55	3.393532	1.569652	1.97845	10.1	105.224042	2.1	2.01631	-81.4612
11.53	1.83	70.25	32.61	3.838798	1.781967	1.79739	10.1	105.399408	2.1	1.836522	-80.4993
11.54	1.74	73.09	33.68	4.200575	1.935632	1.70632	10.1	105.574775	2.1	1.746736	-79.5274
11.55	1.71	71.24	34.92	4.166082	2.042105	1.67508	10.1	105.750142	2	1.716984	-78.3855
11.56	1.71	68.09	36.04	3.981871	2.107602	1.67396	10.1	105.925509	2	1.717208	-77.3636
11.57	1.68	62.47	38.05	3.718452	2.264881	1.64195	10.1	106.100875	2	1.68761	-75.4517
11.58	1.6	58.45	39	3.653125	2.4375	1.561	10.1	106.276242	2	1.6078	-74.5998
11.59	1.53	53.95	40	3.526144	2.614379	1.49	10.1	106.451609	2.1	1.538	-73.6979
11.6	1.48	48.3	41.12	3.263514	2.778378	1.43888	10.1	106.626975	2.1	1.488224	-72.676
11.61	1.5	43.61	42.25	2.907333	2.816667	1.45775	10.2	106.80406	2	1.50845	-71.6441
11.62	1.61	38.89	43.43	2.415528	2.697516	1.56657	10.2	106.981145	2	1.618686	-70.5622
11.63	1.76	36.98	44.43	2.101136	2.524432	1.71557	10.2	107.15823	2	1.768886	-69.6603
11.64	1.99	35.86	46.09	1.80201	2.31608	1.94391	10.2	107.335314	2	1.999218	-68.0984
11.65	2.02	36.28	46.68	1.79604	2.310891	1.97332	10.3	107.514117	2.1	2.029336	-67.6065
11.66	1.98	35.1	47.27	1.772727	2.387374	1.93273	10.3	107.692919	2.1	1.989454	-67.1146
11.67	1.89	33.95	47.8	1.796296	2.529101	1.8422	10.3	107.871721	2	1.89956	-66.6827
11.68	1.77	32.8	48.51	1.853107	2.740678	1.72149	10.3	108.050523	2	1.779702	-66.0708
11.69	1.68	32	49.39	1.904762	2.939881	1.63061	10.3	108.229325	2.1	1.689878	-65.2889
11.7	1.67	30.47	50.4	1.824551	3.017964	1.6196	10.2	108.40641	2.1	1.68008	-64.377
11.71	1.77	29.19	51.52	1.649153	2.910734	1.71848	10.2	108.583495	2.1	1.780304	-63.3551
11.72	1.96	29.45	53.53	1.502551	2.731122	1.90647	10.3	108.762297	2	1.970706	-61.4432
11.73	1.96	31.81	54.36	1.622959	2.773469	1.90564	10.3	108.941099	2	1.970872	-60.7113
11.74	1.93	32.58	55.18	1.688083	2.859067	1.87482	10.3	109.119902	2	1.941036	-59.9894
11.75	1.89	33.02	55.95	1.74709	2.960317	1.83405	10.3	109.298704	2	1.90119	-59.3175
11.76	1.85	33.72	56.78	1.822703	3.069189	1.79322	10.3	109.477506	2.1	1.861356	-58.5856
11.77	1.8	33.4	57.73	1.855556	3.207222	1.74227	10.3	109.656308	2.1	1.811546	-57.7337
11.78	1.82	35.26	58.61	1.937363	3.22033	1.76139	10.3	109.83511	2	1.831722	-56.9518
11.79	1.96	36.05	60.32	1.839286	3.077551	1.89968	10.4	110.01563	2	1.972064	-55.3399
11.8	2.04	38.09	61.15	1.867157	2.997549	1.97885	10.4	110.196149	2	2.05223	-54.608
11.81	2.18	40.55	62.16	1.860092	2.851376	2.11784	10.4	110.376668	2	2.192432	-53.6961
11.82	2.43	40.84	62.98	1.680658	2.59177	2.36702	10.4	110.557187	2	2.442596	-52.9742
11.83	2.65	42.47	63.69	1.602642	2.403396	2.58631	10.4	110.737706	2	2.662738	-52.3623
11.84	2.73	46.71	64.05	1.710989	2.346154	2.66595	10.4	110.918225	2	2.74281	-52.1004
11.85	2.58	51.65	65.05	2.001938	2.521318	2.51495	10.4	111.098744	2	2.59301	-51.1985
11.86	2.55	53.47	65.52	2.096863	2.569412	2.48448	10.4	111.279264	2.1	2.563104	-50.8266
11.87	2.55	53.47	65.52	2.096863	2.569412	2.48448	10.4	111.459783	6.8	2.563104	-50.9247
11.88	2.55	53.47	65.52	2.096863	2.569412	2.48448	10.4	111.640302	6.8	2.563104	-51.0228
11.89	0.97	1.34	105.29	0.138144	10.854639	0.86471	10.4	111.820821	6.8	0.991058	-11.3509
11.9	0.97	1.34	105.29	0.138144	10.854639	0.86471	10.4	112.00134	6.8	0.991058	-11.449
11.91	2.9	67.26	86.79	2.31931	2.992759	2.81321	10.4	112.181859	6.8	2.917358	-30.0471

11.92	2.44	61.64	87.92	2.52623	3.603279	2.35208	10.4	112.362378	4.8	2.457584	-29.0152
11.93	2.21	53.73	89.34	2.431222	4.042534	2.12066	10.4	112.542898	4.8	2.227868	-27.6933
11.94	1.96	50.92	90.46	2.597959	4.615306	1.86954	10.5	112.725133	2.1	1.978092	-26.6714
11.95	1.74	50.03	91.99	2.875287	5.286782	1.64801	10.4	112.905652	2.1	1.758398	-25.2395
11.96	1.7	48.24	93.71	2.837647	5.512353	1.60629	10.4	113.086171	2.1	1.718742	-23.6176
11.97	1.75	40.04	97.02	2.288	5.544	1.65298	10.5	113.268407	2.1	1.769404	-20.4057
11.98	1.78	40.62	98.79	2.282022	5.55	1.68121	10.6	113.452358	2	1.799758	-18.7338
11.99	1.86	41.83	100.68	2.248925	5.412903	1.75932	10.6	113.63631	2	1.880136	-16.9419
12	2	42.08	102.51	2.104	5.1255	1.89749	10.5	113.818545	2	2.020502	-15.21
12.01	2.23	43.33	105.7	1.943049	4.73991	2.1243	10.5	114.000781	2.1	2.25114	-12.1181
12.02	2.4	45.66	106.82	1.9025	4.450833	2.29318	10.5	114.183016	2.1	2.421364	-11.0962
12.03	2.58	48.27	107.36	1.87093	4.16124	2.47264	10.6	114.366968	2	2.601472	-10.6543
12.04	2.58	51.75	106.35	2.005814	4.122093	2.47365	10.6	114.550919	2	2.60127	-11.7624
12.05	2.46	55.96	106.71	2.274797	4.337805	2.35329	10.6	114.73487	2.1	2.481342	-11.5005
12.06	2.45	55.67	107.12	2.272245	4.372245	2.34288	10.6	114.918822	2.1	2.471424	-11.1886
12.07	2.38	51.4	107.42	2.159664	4.513445	2.27258	10.6	115.102773	2	2.401484	-10.9867
12.08	2.3	50.6	108.06	2.2	4.698261	2.19194	10.6	115.286724	2	2.321612	-10.4448
12.09	2.23	51.11	109.01	2.291928	4.888341	2.12099	10.6	115.470676	2.1	2.251802	-9.5929
12.1	2.33	46.9	112.5	2.012876	4.828326	2.2175	10.6	115.654627	2.1	2.3525	-6.201
12.11	2.5	50.03	114.15	2.0012	4.566	2.38585	10.6	115.838578	2.1	2.52283	-4.6491
12.12	2.72	55.71	115.51	2.048162	4.246691	2.60449	10.6	116.02253	2.1	2.743102	-3.3872
12.13	2.95	62.31	116.63	2.112203	3.953559	2.83337	10.6	116.206481	2	2.973326	-2.3653
12.14	3.17	66.04	116.16	2.083281	3.664353	3.05384	10.6	116.390432	2	3.193232	-2.9334
12.15	3.39	70.35	113.38	2.075221	3.344543	3.27662	10.6	116.574384	2	3.412676	-5.8115
12.16	3.56	76.67	111.61	2.153652	3.135112	3.44839	10.6	116.758335	2	3.582322	-7.6796
12.17	3.68	82.6	109.25	2.244565	2.96875	3.57075	10.6	116.942286	2	3.70185	-10.1377
12.18	3.47	78.14	104.99	2.251873	3.025648	3.36501	10.6	117.126238	2	3.490998	-14.4958
12.19	3.39	71.63	101.98	2.112979	3.00826	3.28802	10.6	117.310189	2.1	3.410396	-17.6039
12.2	3.7	71.91	101.45	1.943514	2.741892	3.59855	10.6	117.494141	2.1	3.72029	-18.232
12.21	4.37	85.89	104.76	1.965446	2.397254	4.26524	10.7	117.679807	2.1	4.390952	-15.0201
12.22	5.76	95.17	107.53	1.652257	1.86684	5.65247	10.7	117.865474	2	5.781506	-12.3482
12.23	9.04	91.12	102.16	1.007965	1.130088	8.93784	10.7	118.05114	2	9.060432	-17.8163
12.24	10.07	94.28	89.28	0.936246	0.886594	9.98072	10.7	118.236807	2	10.087856	-30.7944
12.25	10.89	94.25	77.1	0.865473	0.707989	10.8129	10.7	118.422474	2	10.90542	-43.0725
12.26	11.47	95.08	65.35	0.828945	0.569747	11.40465	10.7	118.60814	2	11.48307	-54.9206
12.27	11.95	96.7	60.56	0.809205	0.506778	11.88944	10.7	118.793807	2	11.962112	-59.8087
12.28	12.42	99.74	57.67	0.80306	0.464332	12.36233	10.7	118.979473	2	12.431534	-62.7968
12.29	13.32	103.53	53.47	0.777252	0.401426	13.26653	10.7	119.16514	2	13.330694	-67.0949
12.3	13.72	103.98	51.76	0.757872	0.377259	13.66824	10.8	119.352521	2	13.730352	-68.903
12.31	14.02	104.71	50.99	0.746862	0.363695	13.96901	10.8	119.539903	2	14.030198	-69.7711
12.32	14.26	104.94	49.34	0.735905	0.346003	14.21066	10.8	119.727284	2	14.269868	-71.5192
12.33	14.45	105.61	46.2	0.730865	0.319723	14.4038	10.8	119.914665	2	14.45924	-74.7573
12.34	14.76	104.9	40.06	0.710705	0.271409	14.71994	10.8	120.102047	2	14.768012	-80.9954
12.35	14.83	102.93	37.46	0.694066	0.252596	14.79254	10.8	120.289428	2	14.837492	-83.6935
12.36	14.91	102.1	35.33	0.684775	0.236955	14.87467	10.8	120.476809	2	14.917066	-85.9216
12.37	14.95	101.14	33.86	0.676522	0.226488	14.91614	10.8	120.664191	2	14.956772	-87.4897
12.38	15	99.93	33.15	0.6662	0.221	14.96685	10.8	120.851572	2	15.00663	-88.2978
12.39	15.05	98.55	32.91	0.654817	0.218671	15.01709	10.8	121.038953	2	15.056582	-88.6359
12.4	15.15	98.01	33.03	0.646931	0.21802	15.11697	10.9	121.228049	2	15.156606	-88.614
12.41	15.16	97.44	33.26	0.642744	0.219393	15.12674	10.8	121.41543	2	15.166652	-88.4821
12.42	15.17	97.34	33.56	0.641661	0.221226	15.13644	10.8	121.602811	2	15.176712	-88.2802
12.43	15.22	98.68	33.8	0.648357	0.222076	15.1862	10.8	121.790193	2	15.22676	-88.1383
12.44	15.22	99.77	33.97	0.655519	0.223193	15.18603	10.9	121.979288	2	15.226794	-88.0664
12.45	15.28	100.79	34.03	0.65962	0.222709	15.24597	10.9	122.168384	2	15.286806	-88.1045
12.46	15.33	100.41	34.09	0.65499	0.222374	15.29591	10.9	122.357479	2	15.336818	-88.1426
12.47	15.3	100.31	33.97	0.655621	0.222026	15.26603	10.9	122.546574	2	15.306794	-88.3607
12.48	15.36	101.33	34.09	0.659701	0.22194	15.32591	10.9	122.73567	2	15.366818	-88.3388
12.49	15.39	101.43	33.91	0.659064	0.220338	15.35609	10.9	122.924765	2	15.396782	-88.6169
12.5	15.46	101.55	33.44	0.656856	0.2163	15.42656	10.9	123.113861	2	15.466688	-89.185
12.51	15.55	101.11	33.15	0.650225	0.213183	15.51685	10.9	123.302956	2	15.55663	-89.5731
12.52	15.57	101.78	33.15	0.653693	0.212909	15.53685	10.9	123.492052	2	15.57663	-89.6712
12.53	15.56	102.06	32.91	0.655913	0.211504	15.52709	10.9	123.681147	2	15.566582	-90.0093
12.54	15.51	102.54	32.61	0.661122	0.210251	15.47739	10.9	123.870242	2	15.516522	-90.4074
12.55	15.47	102.64	32.26	0.663478	0.208533	15.43774	10.9	124.059338	2	15.476452	-90.8555
12.56	15.5	103.02	31.91	0.664645	0.205871	15.46809	10.9	124.248433	2	15.506382	-91.3036
12.57	15.5	103.09	30.84	0.665097	0.198968	15.46916	10.9	124.437529	2	15.506168	-92.4717
12.58	15.54	102.54	30.07	0.659846	0.193501	15.50993	10.9	124.626624	2	15.546014	-93.3398
12.59	15.54	103.09	29.78	0.663385	0.191634	15.51022	10.9	124.81572	2	15.545956	-93.7279
12.6	15.62	103.37	29.19	0.66178	0.186876	15.59081	10.9	125.004815	2	15.625838	-94.416
12.61	15.62	104.49	28.6	0.66895	0.183099	15.5914	10.9	125.193911	2	15.62572	-95.1041
12.62	15.69	106.02	28.42	0.675717	0.181134	15.66158	10.9	125.383006	2	15.695684	-95.3822
12.63	15.74	105.48	27	0.67014	0.171537	15.713	11	125.573815	2	15.7454	-96.9003

12.64	15.78	105.86	25.82	0.670849	0.163625	15.75418	10.9	125.76291	2	15.785164	-98.1784
12.65	15.75	106.31	24.93	0.674984	0.158286	15.72507	10.9	125.952006	2	15.754986	-99.1665
12.66	15.8	106.66	23.93	0.675063	0.151456	15.77607	10.9	126.141101	2	15.804786	-100.2646
12.67	15.86	106.59	22.98	0.672068	0.144893	15.83702	10.9	126.330197	2	15.864596	-101.3127
12.68	15.85	107.04	22.57	0.675331	0.142397	15.82743	11	126.521006	2	15.854514	-101.8208
12.69	15.96	106.34	20.68	0.666291	0.129574	15.93932	11	126.711815	2	15.964136	-103.8089
12.7	16	106.34	19.5	0.664625	0.121875	15.9805	11	126.902624	2	16.0039	-105.087
12.71	16.13	107.23	18.67	0.664786	0.115747	16.11133	11	127.093433	2	16.133734	-106.0151
12.72	16.33	107.71	17.49	0.659584	0.107103	16.31251	11	127.284242	2	16.333498	-107.2932
12.73	16.53	108.19	16.25	0.654507	0.098306	16.51375	11	127.475051	2	16.53325	-108.6313
12.74	17.03	108.45	14.53	0.636817	0.08532	17.01547	11	127.66586	2	17.032906	-110.4494
12.75	17.32	108	13.41	0.623557	0.077425	17.30659	11	127.856669	2	17.322682	-111.6675
12.76	17.66	106.69	12.64	0.604134	0.071574	17.64736	11	128.047478	2	17.662528	-112.5356
12.77	18.04	105.89	11.4	0.586973	0.063193	18.0286	11	128.238287	2	18.04228	-113.8737
12.78	18.32	105.61	10.1	0.576474	0.055131	18.3099	11	128.429096	2	18.32202	-115.2718
12.79	18.56	105.32	8.69	0.567457	0.046821	18.55131	11	128.619905	2	18.561738	-116.7799
12.8	18.91	104.74	6.2	0.553887	0.032787	18.9038	11	128.810714	2	18.91124	-119.368
12.81	19.01	104.23	4.43	0.54829	0.023304	19.00557	11	129.001523	2	19.010886	-121.2361
12.82	19.11	102.77	0.41	0.537781	0.002145	19.10959	11	129.192332	2	19.110082	-125.3542
12.83	19.25	102.06	-2.48	0.530182	-0.012883	19.25248	11	129.383141	2	19.249504	-128.3423
12.84	19.37	101.39	-4.02	0.523438	-0.020754	19.37402	11	129.57395	2	19.369196	-129.9804
12.85	19.43	99.19	-5.38	0.510499	-0.027689	19.43538	11	129.764759	2	19.428924	-131.4385
12.86	19.48	98.59	-5.26	0.506109	-0.027002	19.48526	11	129.955568	2	19.478948	-131.4166
12.87	19.51	97.53	-5.14	0.499897	-0.026345	19.51514	11	130.146377	1.9	19.508972	-131.3947
12.88	19.49	96.13	-4.9	0.493227	-0.025141	19.4949	11	130.337186	1.9	19.48902	-131.2528
12.89	19.49	96.13	-4.9	0.493227	-0.025141	19.4949	11	130.527995	2.1	19.48902	-131.3509
12.9	19.49	96.13	-4.9	0.493227	-0.025141	19.4949	11	130.718804	2	19.48902	-131.449
12.91	19.21	88.28	4.79	0.459552	0.024935	19.20521	11.1	130.911326	1.8	19.210958	-121.8571
12.92	19.47	86.69	4.79	0.445249	0.024602	19.46521	11.1	131.103848	1.8	19.470958	-121.9552
12.93	19.57	85.41	4.55	0.436433	0.02325	19.56545	11.1	131.29637	2	19.57091	-122.2933
12.94	19.57	85.41	4.55	0.436433	0.02325	19.56545	11.1	131.488892	2	19.57091	-122.3914
12.95	19.55	84.71	4.31	0.433299	0.022046	19.54569	11.1	131.681414	2	19.550862	-122.7295
12.96	19.39	84.52	4.31	0.435895	0.022228	19.38569	11.1	131.873935	2	19.390862	-122.8276
12.97	19.29	84.33	4.25	0.43717	0.022032	19.28575	11.1	132.066457	2	19.29085	-122.9857
12.98	19.05	85.06	4.25	0.446509	0.02231	19.04575	11.1	132.258979	2	19.05085	-123.0838
12.99	18.61	85.76	4.08	0.460828	0.021924	18.60592	11.1	132.451501	2	18.610816	-123.3519
13	18.26	85.7	3.96	0.469332	0.021687	18.25604	11.2	132.645736	2	18.260792	-123.57
13.01	17.33	85.63	4.25	0.494114	0.024524	17.32575	11.1	132.838258	2	17.33085	-123.3781
13.02	16.83	84.29	4.37	0.500832	0.025966	16.82563	11.1	133.03078	2	16.830874	-123.3562
13.03	16.25	83.75	4.49	0.515385	0.027631	16.24551	11.1	133.223302	2	16.250898	-123.3343
13.04	15.14	83.66	4.84	0.552576	0.031968	15.13516	11.2	133.417536	2	15.140968	-123.0824
13.05	14.69	84.48	5.02	0.575085	0.034173	14.68498	11.2	133.61177	2	14.691004	-123.0005
13.06	14.49	82.06	5.2	0.566322	0.035887	14.4848	11.2	133.806005	2	14.49104	-122.9186
13.07	14.41	81.49	5.26	0.56551	0.036502	14.40474	11.1	133.998527	2	14.411052	-122.9567
13.08	14.36	80.15	5.38	0.558148	0.037465	14.35462	11.2	134.192761	2	14.361076	-122.9348
13.09	13.65	98.2	7.68	0.719414	0.056264	13.64232	11.2	134.386995	2	13.651536	-120.7329
13.1	13.5	89.37	8.45	0.662	0.062593	13.49155	11.2	134.58123	2	13.50169	-120.061
13.11	13.35	87.39	8.57	0.654607	0.064195	13.34143	11.2	134.775464	2	13.351714	-120.0391
13.12	13.21	89.46	8.51	0.677214	0.064421	13.20149	11.3	134.97141	2	13.211702	-120.1972
13.13	13.14	92.33	7.15	0.702664	0.054414	13.13285	11.3	135.167356	2	13.14143	-121.6553
13.14	13.14	96.61	5.08	0.735236	0.038661	13.13492	11.3	135.363303	2	13.141016	-123.8234
13.15	13.37	99.61	1.48	0.745026	0.011107	13.36852	11.3	135.559249	2	13.370296	-127.5215
13.16	13.51	99.61	0.47	0.737306	0.003479	13.50953	11.3	135.755195	2	13.510094	-128.6296
13.17	13.61	98.71	0.24	0.725276	0.001763	13.60976	11.3	135.951141	2	13.610048	-128.9577
13.18	13.67	96.9	-0.12	0.708851	-0.000878	13.67012	11.3	136.147087	2	13.669976	-129.4158
13.19	13.6	92.14	-0.53	0.6775	-0.003897	13.60053	11.3	136.343033	2	13.599894	-129.9239
13.2	13.45	89.65	-1	0.666543	-0.007435	13.451	11.3	136.538979	2	13.4498	-130.492
13.21	13.14	89.65	-0.65	0.682268	-0.004947	13.14065	11.3	136.734926	2	13.13987	-130.2401
13.22	13.08	90.48	-0.35	0.691743	-0.002676	13.08035	11.3	136.930872	2	13.07993	-130.0382
13.23	13.16	82.73	-0.18	0.628647	-0.001368	13.16018	11.3	137.126818	2	13.159964	-129.9663
13.24	13.35	80.59	-0.06	0.60367	-0.000449	13.35006	11.3	137.322764	2	13.349988	-129.9444
13.25	13.7	80.15	0.18	0.585036	0.001314	13.69982	11.3	137.51871	2	13.700036	-129.8025
13.26	14.71	80.62	0.41	0.548063	0.002787	14.70959	11.4	137.716367	2	14.710082	-129.6706
13.27	15.24	84.17	0.59	0.552297	0.003871	15.23941	11.4	137.914025	2	15.240118	-129.5887
13.28	15.91	87.99	0.83	0.553048	0.005217	15.90917	11.3	138.109971	1.9	15.910166	-129.4468
13.29	16.55	93.39	0.89	0.56429	0.005378	16.54911	11.4	138.307628	1.9	16.550178	-129.4849
13.3	17.08	98.71	-0.18	0.577927	-0.001054	17.08018	11.4	138.505286	2	17.079964	-130.653
13.31	17.63	104.58	-11.99	0.593193	-0.068009	17.64199	11.4	138.702943	2	17.627602	-142.5611
13.32	17.86	107.01	-20.38	0.59916	-0.11411	17.88038	11.4	138.9006	2	17.855924	-151.0492
13.33	18.03	108.89	-25.29	0.603938	-0.140266	18.05529	11.4	139.098258	2	18.024942	-156.0573
13.34	18.3	108.67	-29.96	0.593825	-0.163716	18.32996	11.4	139.295915	2	18.294008	-160.8254
13.35	18.5	109.05	-32.79	0.589459	-0.177243	18.53279	11.5	139.495283	2	18.493442	-163.7535

13.36	18.64	109.98	-33.38	0.590021	-0.179077	18.67338	11.5	139.694651	2	18.633324	-164.4416
13.37	18.51	105.61	-33.15	0.570556	-0.179092	18.54315	11.4	139.892308	2	18.50337	-164.3097
13.38	18.53	98.49	-32.91	0.531516	-0.177604	18.56291	11.5	140.091676	2	18.523418	-164.1678
13.39	18.56	91.82	-32.73	0.49472	-0.176347	18.59273	11.5	140.291044	2	18.553454	-164.0859
13.4	18.58	91.85	-32.5	0.494349	-0.174919	18.6125	11.5	140.490412	2	18.5735	-163.954
13.41	18.49	91.15	-32.14	0.492969	-0.173824	18.52214	11.5	140.68978	2	18.483572	-163.6921
13.42	18.47	92.14	-31.96	0.498863	-0.173037	18.50196	11.5	140.889148	2	18.463608	-163.6102
13.43	18.6	90.61	-31.85	0.487151	-0.171237	18.63185	11.5	141.088516	2	18.59363	-163.5983
13.44	18.76	90.64	-31.61	0.483156	-0.168497	18.79161	11.5	141.287884	2	18.753678	-163.4564
13.45	18.89	91.38	-31.49	0.483748	-0.166702	18.92149	11.5	141.487252	2	18.883702	-163.4345
13.46	19.15	94.69	-31.26	0.494465	-0.163238	19.18126	11.5	141.68662	2	19.143748	-163.3026
13.47	19.25	97.15	-31.2	0.504675	-0.162078	19.2812	11.5	141.885988	2	19.24376	-163.3407
13.48	19.35	100.85	-31.14	0.521189	-0.16093	19.38114	11.5	142.085355	1.9	19.343772	-163.3788
13.49	19.43	104.52	-31.08	0.537931	-0.159959	19.46108	11.5	142.284723	1.9	19.423784	-163.4169
13.5	19.79	105.51	-31.14	0.533148	-0.157352	19.82114	11.5	142.484091	2	19.783772	-163.575
13.51	19.96	104.58	-31.14	0.523948	-0.156012	19.99114	11.6	142.685169	2	19.953772	-163.6731
13.52	20.19	103.66	-31.61	0.513422	-0.156563	20.22161	11.6	142.886247	1.9	20.183678	-164.2412
13.53	20.44	103.28	-31.91	0.505284	-0.156115	20.47191	11.6	143.087325	1.9	20.433618	-164.6393
13.54	20.55	103.69	-32.02	0.504574	-0.155815	20.58202	11.7	143.290112	2	20.543596	-164.8474
13.55	20.64	104.04	-34.39	0.50407	-0.166618	20.67439	11.6	143.49119	2	20.633122	-167.3155
13.56	20.93	104.14	-37.87	0.497563	-0.180936	20.96787	11.6	143.692268	2	20.922426	-170.8936
13.57	21.08	104.14	-40.35	0.494023	-0.191414	21.12035	11.6	143.893346	1.9	21.07193	-173.4717
13.58	21.33	107.58	-42.36	0.50436	-0.198594	21.37236	11.7	144.096133	1.9	21.321528	-175.5798
13.59	21.64	107.39	-44.61	0.496257	-0.206146	21.68461	11.7	144.298921	2	21.631078	-177.9279
13.6	21.93	106.59	-45.14	0.486047	-0.205837	21.97514	11.7	144.501708	2	21.920972	-178.556
13.61	22.03	105.73	-47.03	0.479936	-0.213482	22.07703	11.7	144.704495	2	22.020594	-180.5441
13.62	22.18	100.56	-48.21	0.453381	-0.217358	22.22821	11.7	144.907283	2	22.170358	-181.8222
13.63	22.3	96.19	-48.86	0.431345	-0.219103	22.34886	11.7	145.11007	2	22.290228	-182.5703
13.64	22.38	94.76	-50.16	0.423414	-0.224129	22.43016	11.7	145.312857	2	22.369968	-183.9684
13.65	21.96	101.65	-49.93	0.462887	-0.227368	22.00993	11.6	145.513935	2	21.950014	-183.8365
13.66	21.48	107.2	-50.22	0.499069	-0.233799	21.53022	11.6	145.715013	2	21.469956	-184.2246
13.67	21.14	116.17	-50.99	0.549527	-0.241202	21.19099	11.5	145.914381	2	21.129802	-185.0927
13.68	21.06	110.39	-52.05	0.524169	-0.247151	21.11205	11.5	146.113749	2	21.04959	-186.2508
13.69	21.12	108.29	-52.94	0.512737	-0.250663	21.17294	11.5	146.313117	2	21.109412	-187.2389
13.7	19.11	98.04	-53.41	0.51303	-0.279487	19.16341	11.5	146.512485	2	19.099318	-187.807
13.71	16.96	112.05	-53.53	0.660672	-0.315625	17.01353	11.5	146.711853	2	16.949294	-188.0251
13.72	15.22	138.44	-53.18	0.909593	-0.349409	15.27318	11.5	146.911221	2	15.209364	-187.7732
13.73	14.47	131.23	-53	0.906911	-0.366275	14.523	11.5	147.110589	2	14.4594	-187.6913
13.74	13.72	121.62	-52.82	0.886443	-0.384985	13.77282	11.5	147.309957	2	13.709436	-187.6094
13.75	12.79	114.67	-52.64	0.89656	-0.411572	12.84264	11.6	147.511034	2	12.779472	-187.5275
13.76	11.77	114.32	-52.53	0.971283	-0.446304	11.82253	11.5	147.710402	2	11.759494	-187.5156
13.77	9.66	118.97	-52.23	1.231573	-0.540683	9.71223	11.5	147.90977	2	9.649554	-187.3137
13.78	8.68	123.15	-52.17	1.418779	-0.601037	8.73217	11.5	148.109138	2	8.669566	-187.3518
13.79	7.83	129.5	-51.99	1.653895	-0.663985	7.88199	11.6	148.310216	2	7.819602	-187.2699
13.8	7.12	146	-51.82	2.050562	-0.727809	7.17182	11.5	148.509584	2	7.109636	-187.198
13.81	6.62	157.07	-51.58	2.372659	-0.779154	6.67158	11.5	148.708952	2	6.609684	-187.0561
13.82	6.17	176.91	-51.29	2.867261	-0.83128	6.22129	11.5	148.90832	2	6.159742	-186.8642
13.83	5.32	222.86	-50.87	4.189098	-0.956203	5.37087	11.5	149.107688	2	5.309826	-186.5423
13.84	4.97	230.16	-50.64	4.630986	-1.018913	5.02064	11.5	149.307056	2	4.959872	-186.4104
13.85	4.48	168.01	-50.16	3.750223	-1.119643	4.53016	11.6	149.508134	2	4.469968	-186.0285
13.86	4.2	171.01	-48.21	4.071667	-1.147857	4.24821	11.5	149.707502	2	4.190358	-184.1766
13.87	3.9	173.56	-46.62	4.450256	-1.195385	3.94662	11.6	149.90858	2	3.890676	-182.6847
13.88	3.9	173.56	-46.62	4.450256	-1.195385	3.94662	11.6	150.109658	3	3.890676	-182.7828
13.89	3.9	173.56	-46.62	4.450256	-1.195385	3.94662	11.6	150.310735	3	3.890676	-182.8809
13.9	4.47	149.76	-20.21	3.350336	-0.452125	4.49021	11.6	150.511813	1.8	4.465958	-156.569
13.91	4.46	154.07	-19.91	3.454484	-0.446413	4.47991	11.6	150.712891	1.8	4.456018	-156.3671
13.92	4.23	156.14	-19.79	3.691253	-0.467849	4.24979	11.6	150.913969	2	4.226042	-156.3452
13.93	4.1	154.93	-19.62	3.77878	-0.478537	4.11962	11.6	151.115047	2	4.096076	-156.2733
13.94	3.67	141.24	-19.26	3.848501	-0.524796	3.68926	11.6	151.316125	2	3.666148	-156.0114
13.95	3.5	134.29	-18.97	3.836857	-0.542	3.51897	11.6	151.517203	2	3.496206	-155.8195
13.96	3.37	125.16	-18.61	3.713947	-0.552226	3.38861	11.6	151.718281	2	3.366278	-155.5576
13.97	3.3	111.57	-18.08	3.380909	-0.547879	3.31808	11.6	151.919359	2	3.296384	-155.1257
13.98	3.29	102.8	-17.61	3.12462	-0.535258	3.30761	11.6	152.120437	2	3.286478	-154.7538
13.99	3.16	86.88	-16.84	2.749367	-0.532911	3.17684	11.6	152.321515	2	3.156632	-154.0819
14	3.25	81.8	-16.43	2.516923	-0.505538	3.26643	11.6	152.522593	2	3.246714	-153.77
14.01	3.66	71.69	-15.42	1.958743	-0.421311	3.67542	11.6	152.723671	2	3.656916	-152.8581
14.02	3.97	69.9	-14.89	1.760705	-0.375063	3.98489	11.6	152.924748	2	3.967022	-152.4262
14.03	4.38	71.82	-14.36	1.639726	-0.327854	4.39436	11.6	153.125826	2	4.377128	-151.9943
14.04	5.19	83.18	-13.65	1.602697	-0.263006	5.20365	11.7	153.328614	2	5.18727	-151.3824
14.05	5.49	87.96	-13.35	1.602186	-0.243169	5.50335	11.7	153.531401	2	5.48733	-151.1805
14.06	5.74	94.02	-13.18	1.637979	-0.229617	5.75318	11.7	153.734188	2	5.737364	-151.1086
14.07	5.85	99.32	-13.12	1.697778	-0.224274	5.86312	11.7	153.936976	2	5.847376	-151.1467

14.08	5.82	103.69	-13.18	1.781615	-0.22646	5.83318	11.7	154.139763	2	5.817364	-151.3048
14.09	5.51	108.54	-13.71	1.969873	-0.24882	5.52371	11.7	154.34255	2	5.507258	-151.9329
14.1	5.19	104.11	-13.83	2.005973	-0.266474	5.20383	11.7	154.545337	2	5.187234	-152.151
14.11	4.76	98.2	-13.53	2.063025	-0.284244	4.77353	11.7	154.748125	2	4.757294	-151.9491
14.12	4.45	91.25	-13.12	2.050562	-0.294831	4.46312	11.7	154.950912	2	4.447376	-151.6372
14.13	4.28	79.12	-12.58	1.848598	-0.293925	4.29258	11.7	155.153699	2	4.277484	-151.1953
14.14	4.37	84.17	-11.7	1.926087	-0.267735	4.3817	11.7	155.356487	2	4.36766	-150.4134
14.15	4.49	92.43	-11.29	2.058575	-0.251448	4.50129	11.7	155.559274	2	4.487742	-150.1015
14.16	4.55	93.39	-10.93	2.052527	-0.24022	4.56093	11.7	155.762061	2	4.547814	-149.8396
14.17	4.73	97.18	-10.52	2.054545	-0.22241	4.74052	11.7	155.964848	2	4.727896	-149.5277
14.18	5.03	103.4	-10.22	2.055666	-0.203181	5.04022	11.7	156.167636	2	5.027956	-149.3258
14.19	5.29	105.83	-10.04	2.000567	-0.189792	5.30004	11.7	156.370423	2	5.287992	-149.2439
14.2	5.49	109.82	-9.99	2.000364	-0.181967	5.49999	11.7	156.57321	2	5.488002	-149.292
14.21	5.53	116.8	-10.04	2.112116	-0.181555	5.54004	11.7	156.775998	2	5.527992	-149.4401
14.22	5.49	119.2	-10.16	2.17122	-0.185064	5.50016	11.7	156.978785	2	5.487968	-149.6582
14.23	5.27	119.77	-10.34	2.272676	-0.196205	5.28034	11.7	157.181572	2	5.267932	-149.9363
14.24	4.95	112.02	-10.22	2.26303	-0.206465	4.96022	11.7	157.38436	2	4.947956	-149.9144
14.25	4.6	96	-9.93	2.086957	-0.21587	4.60993	11.7	157.587147	2	4.598014	-149.7225
14.26	5.54	91.38	-9.1	1.649458	-0.16426	5.5491	11.7	157.789934	1.9	5.53818	-148.9906
14.27	6.46	97.44	-8.74	1.508359	-0.135294	6.46874	11.7	157.992721	1.9	6.458252	-148.7287
14.28	7.34	104.78	-8.39	1.42752	-0.114305	7.34839	11.7	158.195509	2	7.338322	-148.4768
14.29	8.12	110.17	-8.63	1.356773	-0.106281	8.12863	11.7	158.398296	2	8.118274	-148.8149
14.3	8.36	107.71	-9.93	1.288397	-0.11878	8.36993	11.7	158.601083	2	8.358014	-150.213
14.31	8.18	87.52	-11.82	1.069927	-0.144499	8.19182	11.7	158.803871	2	8.177636	-152.2011
14.32	8.03	79.83	-12.82	0.994147	-0.159651	8.04282	11.7	159.006658	2	8.027436	-153.2992
14.33	7.97	72.58	-13.83	0.910665	-0.173526	7.98383	11.7	159.209445	2	7.967234	-154.4073
14.34	7.7	65.6	-13	0.851948	-0.168831	7.713	11.7	159.412233	2	7.6974	-153.6754
14.35	7.66	64.29	-12.82	0.839295	-0.167363	7.67282	11.7	159.61502	2	7.657436	-153.5935
14.36	7.93	67.06	-12.41	0.845649	-0.156494	7.94241	11.7	159.817807	2	7.927518	-153.2816
14.37	8.27	75.04	-12.35	0.907376	-0.149335	8.28235	11.7	160.020594	2	8.26753	-153.3197
14.38	8.56	80.56	-12.29	0.941121	-0.143575	8.57229	11.7	160.223382	2	8.557542	-153.3578
14.39	8.97	91.73	-12.47	1.022631	-0.139019	8.98247	11.7	160.426169	2	8.967506	-153.6359
14.4	9.5	99.07	-13.06	1.042842	-0.137474	9.51306	11.8	160.630665	1.9	9.497388	-154.324
14.41	10.6	110.17	-16.07	1.03934	-0.151604	10.61607	11.8	160.835161	1.9	10.596786	-157.4321
14.42	11.04	112.08	-18.14	1.015217	-0.164312	11.05814	11.8	161.039657	2	11.036372	-159.6002
14.43	11.48	115.3	-20.15	1.004355	-0.175523	11.50015	11.8	161.244153	2	11.47597	-161.7083
14.44	11.92	121.97	-22.39	1.023238	-0.187836	11.94239	11.8	161.448649	1.9	11.915522	-164.0464
14.45	12.62	138.76	-26.17	1.099525	-0.207369	12.64617	11.8	161.653145	1.9	12.614766	-167.9245
14.46	12.79	144.43	-28.36	1.129242	-0.221736	12.81836	11.8	161.857641	2	12.784328	-170.2126
14.47	13.03	148.26	-30.25	1.137836	-0.232157	13.06025	11.9	162.063846	2	13.02395	-172.2007
14.48	13.22	150.24	-31.85	1.13646	-0.240923	13.25185	11.8	162.268342	1.9	13.21363	-173.8988
14.49	13.43	151.04	-33.38	1.124646	-0.248548	13.46338	11.8	162.472838	1.9	13.423324	-175.5269
14.5	13.63	155.06	-34.86	1.137638	-0.255759	13.66486	11.8	162.677334	2	13.623028	-177.105
14.51	13.95	160.55	-37.87	1.150896	-0.27147	13.98787	11.8	162.88183	2	13.942426	-180.2131
14.52	14.07	159.08	-38.82	1.130633	-0.275906	14.10882	11.9	163.088034	1.9	14.062236	-181.2612
14.53	14.26	155.38	-39.82	1.089621	-0.279243	14.29982	11.8	163.29253	1.9	14.252036	-182.3593
14.54	14.43	152.28	-40.65	1.055301	-0.281705	14.47065	11.8	163.497026	2	14.42187	-183.2874
14.55	14.79	144.91	-43.07	0.979784	-0.29121	14.83307	11.9	163.70323	2	14.781386	-185.8055
14.56	15.04	139.78	-44.61	0.929388	-0.296609	15.08461	11.8	163.907726	2	15.031078	-187.4436
14.57	15.21	138.05	-45.91	0.907627	-0.301841	15.25591	11.8	164.112222	2	15.200818	-188.8417
14.58	15.26	135.6	-47.15	0.888598	-0.308978	15.30715	11.9	164.318427	2	15.25057	-190.1798
14.59	15.23	134.48	-48.15	0.882994	-0.316152	15.27815	11.9	164.524631	2	15.22037	-191.2779
14.6	15.17	134.22	-48.8	0.884773	-0.321688	15.2188	11.8	164.729127	2	15.16024	-192.026
14.61	14.93	137.86	-54.36	0.923376	-0.364099	14.98436	11.9	164.935331	2	14.919128	-197.6841
14.62	14.81	137.16	-57.9	0.926131	-0.390952	14.8679	11.9	165.141535	1.9	14.79842	-201.3222
14.63	14.66	136.23	-59.03	0.929263	-0.40266	14.71903	11.8	165.346031	1.9	14.648194	-202.5503
14.64	14.52	133.87	-60.27	0.92197	-0.415083	14.58027	11.8	165.550527	2	14.507946	-203.8884
14.65	14.01	132.57	-61.27	0.946253	-0.43733	14.07127	11.9	165.756731	2	13.997746	-204.9865
14.66	13.73	131.35	-61.51	0.956664	-0.447997	13.79151	12	165.964643	2	13.717698	-205.3246
14.67	13.6	131.19	-61.62	0.964632	-0.453088	13.66162	11.8	166.169139	2	13.587676	-205.5327
14.68	13.51	132.12	-62.45	0.977942	-0.46225	13.57245	12	166.377051	2	13.49751	-206.4608
14.69	13.49	131.74	-63.4	0.976575	-0.469978	13.5534	12	166.584963	2	13.47732	-207.5089
14.7	13.35	132.98	-65.17	0.996105	-0.488165	13.41517	12	166.792874	2	13.336966	-209.377
14.71	13.09	143.83	-66.88	1.098778	-0.510924	13.15688	12	167.000786	2	13.076624	-211.1851
14.72	12.97	149.79	-67.42	1.154896	-0.519815	13.03742	12	167.208698	2	12.956516	-211.8232
14.73	12.82	154.32	-68.06	1.203744	-0.530889	12.88806	12	167.416609	2	12.806388	-212.5613
14.74	12.57	159.08	-68.42	1.265553	-0.544312	12.63842	12	167.624521	2	12.556316	-213.0194
14.75	11.87	168.62	-69.07	1.420556	-0.581887	11.93907	12	167.832433	2	11.856186	-213.7675
14.76	11.5	175.51	-69.36	1.526174	-0.60313	11.56936	12	168.040344	2	11.486128	-214.1556
14.77	11.11	181.19	-69.72	1.630873	-0.627543	11.17972	12	168.248256	2	11.096056	-214.6137
14.78	10.77	183.96	-69.9	1.708078	-0.649025	10.8399	12	168.456168	2	10.75602	-214.8918
14.79	10.4	183.84	-70.31	1.767692	-0.676058	10.47031	12	168.664079	2	10.385938	-215.3999

14.8	10.02	182.24	-70.19	1.818762	-0.700499	10.09019	12	168.871991	2	10.005962	-215.378
14.81	9.19	172.93	-70.01	1.881719	-0.761806	9.26001	12	169.079903	2	9.175998	-215.2961
14.82	8.71	170.69	-69.9	1.959701	-0.802526	8.7799	12	169.287815	2	8.69602	-215.2842
14.83	8.29	166.93	-69.72	2.013631	-0.841013	8.35972	12	169.495726	2	8.276056	-215.2023
14.84	7.92	161.82	-69.54	2.043182	-0.87803	7.98954	12	169.703638	2	7.906092	-215.1204
14.85	7.7	148.26	-69.42	1.925455	-0.901558	7.76942	12	169.91155	2	7.686116	-215.0985
14.86	7.73	130.62	-69.19	1.68978	-0.895084	7.79919	12	170.119461	2	7.716162	-214.9666
14.87	7.91	137.13	-69.07	1.733628	-0.873198	7.97907	12	170.327373	1.9	7.896186	-214.9447
14.88	8.12	146.16	-69.01	1.8	-0.849877	8.18901	12	170.535285	1.9	8.106198	-214.9828
14.89	8.12	146.16	-69.01	1.8	-0.849877	8.18901	12	170.743196	3.3	8.106198	-215.0809
14.9	8.12	146.16	-69.01	1.8	-0.849877	8.18901	12	170.951108	1.8	8.106198	-215.179
14.91	8.59	139.43	-64.46	1.623166	-0.750407	8.65446	12	171.15902	1.8	8.577108	-210.7271
14.92	8.22	131.93	-64.58	1.604988	-0.785645	8.28458	12	171.366931	2	8.207084	-210.9452
14.93	8	137.77	-64.7	1.722125	-0.80875	8.0647	12	171.574843	2	7.98706	-211.1633
14.94	7.77	141.37	-64.7	1.819434	-0.83269	7.8347	12	171.782755	2	7.75706	-211.2614
14.95	7.46	147.47	-64.76	1.97681	-0.868097	7.52476	12	171.990666	2	7.447048	-211.4195
14.96	7.07	152.79	-64.76	2.161103	-0.915983	7.13476	12	172.198578	2	7.057048	-211.5176
14.97	6.31	161.6	-64.76	2.561014	-1.026307	6.37476	12	172.40649	2	6.297048	-211.6157
14.98	5.93	160.96	-64.7	2.714334	-1.091062	5.9947	12.1	172.616108	2	5.91706	-211.6538
14.99	5.58	156.05	-64.64	2.796595	-1.158423	5.64464	12	172.82402	2	5.567072	-211.6919
15	5.22	141.82	-64.52	2.716858	-1.236015	5.28452	12.1	173.033639	2	5.207096	-211.67
15.01	4.87	126.89	-64.34	2.605544	-1.32115	4.93434	12.2	173.244963	2	4.857132	-211.5881
15.02	4.87	120.31	-64.11	2.470431	-1.316427	4.93411	12.2	173.456288	2	4.857178	-211.4562
15.03	4.94	118.88	-64.05	2.406478	-1.296559	5.00405	12.2	173.667613	2	4.92719	-211.4943
15.04	5.17	122.1	-63.93	2.361702	-1.236557	5.23393	12.2	173.878938	2	5.157214	-211.4724
15.05	5.57	128.86	-63.87	2.313465	-1.146679	5.63387	12.2	174.090263	2	5.557226	-211.5105
15.06	6.55	145.1	-63.75	2.215267	-0.973282	6.61375	12.2	174.301587	2	6.53725	-211.4886
15.07	6.81	145.93	-63.75	2.142878	-0.936123	6.87375	12.2	174.512912	2	6.79725	-211.5867
15.08	6.83	143.09	-63.81	2.095022	-0.934261	6.89381	12.2	174.724237	2	6.817238	-211.7448
15.09	6.65	142.26	-63.87	2.139248	-0.960451	6.71387	12.2	174.935562	2	6.637226	-211.9029
15.1	6.39	140.86	-63.93	2.204382	-1.000469	6.45393	12.2	175.146887	2	6.377214	-212.061
15.11	6.03	141.24	-63.87	2.342289	-1.059204	6.09387	12.2	175.358211	2	6.017226	-212.0991
15.12	4.75	130.81	-63.93	2.753895	-1.345895	4.81393	12.2	175.569536	2	4.737214	-212.2572
15.13	4.17	113.39	-63.93	2.719185	-1.533094	4.23393	12.2	175.780861	2	4.157214	-212.3553
15.14	3.73	97.92	-63.87	2.625201	-1.712332	3.79387	12.2	175.992186	2	3.717226	-212.3934
15.15	3.51	89.24	-63.81	2.54245	-1.817949	3.57381	12.2	176.203511	2	3.497238	-212.4315
15.16	3.34	88.86	-63.75	2.660479	-1.908683	3.40375	12.2	176.414835	2	3.32725	-212.4696
15.17	3.38	88.82	-63.57	2.627811	-1.880769	3.44357	12.2	176.62616	2	3.367286	-212.3877
15.18	3.55	84.29	-63.46	2.374366	-1.787606	3.61346	12.2	176.837485	2	3.537308	-212.3758
15.19	3.75	78.68	-63.34	2.098133	-1.689067	3.81334	12.2	177.04881	2	3.737332	-212.3539
15.2	3.82	77.08	-63.28	2.017801	-1.656545	3.88328	12.2	177.260135	2	3.807344	-212.392
15.21	3.84	74.56	-63.16	1.941667	-1.644792	3.90316	12.2	177.471459	2	3.827368	-212.3701
15.22	3.82	77.18	-62.98	2.020419	-1.648691	3.88298	12.3	177.68449	2	3.807404	-212.2882
15.23	3.84	77.91	-62.87	2.028906	-1.63724	3.90287	12.4	177.899225	2	3.827426	-212.2763
15.24	3.88	80.11	-62.75	2.064691	-1.617268	3.94275	12.4	178.11396	2	3.86745	-212.2544
15.25	3.97	80.85	-62.63	2.036524	-1.577582	4.03263	12.4	178.328696	2	3.957474	-212.2325
15.26	4.04	80.43	-62.51	1.990842	-1.547277	4.10251	12.4	178.543431	2	4.027498	-212.2106
15.27	4.09	79.19	-62.45	1.936186	-1.526895	4.15245	12.4	178.758166	2	4.07751	-212.2487
15.28	4.04	75.49	-62.39	1.868564	-1.544307	4.10239	12.4	178.972902	2	4.027522	-212.2868
15.29	3.88	74.02	-62.16	1.907732	-1.602062	3.94216	12.4	179.187637	2	3.867568	-212.1549
15.3	3.91	73.99	-62.04	1.892327	-1.586701	3.97204	12.4	179.402372	2	3.897592	-212.133
15.31	3.94	73	-61.92	1.852792	-1.571574	4.00192	12.4	179.617108	2	3.927616	-212.1111
15.32	3.93	69.78	-61.8	1.775573	-1.572519	3.9918	12.4	179.831843	2	3.91764	-212.0892
15.33	3.88	69.27	-61.74	1.785309	-1.591237	3.94174	12.4	180.046578	2	3.867652	-212.1273
15.34	3.69	66.43	-61.51	1.800271	-1.666938	3.75151	12.4	180.261314	2	3.677698	-211.9954
15.35	3.59	65.6	-61.39	1.827298	-1.710028	3.65139	12.3	180.474344	2	3.577722	-211.9735
15.36	3.53	65.92	-61.27	1.867422	-1.735694	3.59127	12.4	180.689079	2	3.517746	-211.9516
15.37	3.67	64.19	-61.09	1.749046	-1.664578	3.73109	12.4	180.903815	2	3.657782	-211.8697
15.38	3.94	61.96	-60.97	1.572589	-1.547462	4.00097	12.3	181.116845	2	3.927806	-211.8478
15.39	4.33	60.87	-60.8	1.405774	-1.404157	4.3908	12.3	181.329876	2	4.31784	-211.7759
15.4	5.33	63.94	-60.5	1.199625	-1.135084	5.3905	12.3	181.542906	2	5.3179	-211.574
15.41	6.05	69.49	-60.38	1.148595	-0.998017	6.11038	12.3	181.755936	2	6.037924	-211.5521
15.42	7.04	74.37	-60.27	1.056392	-0.856108	7.10027	12.3	181.968967	2	7.027946	-211.5402
15.43	8.76	82.86	-60.09	0.94589	-0.685959	8.82009	12.3	182.181997	1.9	8.747982	-211.4583
15.44	11.07	93.23	-59.97	0.842186	-0.541734	11.12997	12.4	182.396732	1.9	11.058006	-211.4364
15.45	22.43	121.43	-59.62	0.541373	-0.265805	22.48962	12.4	182.611468	1.8	22.418076	-211.1845
15.46	29.9	130.2	-59.5	0.435452	-0.198997	29.9595	12.4	182.826203	1.7	29.8881	-211.1626
15.47	34.24	129.89	-59.79	0.379352	-0.17462	34.29979	12.4	183.040938	0	34.228042	-211.5507

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:	Blind Creek
Date:	14/02/2017
Commissioner:	Marlborough DC
Locality:	Blenheim
Test information:	
Name:	BC3A
Location:	BC3A
Date:	14/02/2017
Prehole mode:	
Prehole depth [cm]:	0
Hydrostatic line [cm]:	0
Ground level [m]:	0
Latitude:	-41.439922
Longitude:	173.974492
Operator:	Gray Lewis
Comments:	
Probe code:	MKJ330



	Qc	Fs	Speed	U2	Tilt	a Factor
Factors:	192460	31343	10	16925	150151	0.8
Zeros:	2249	3790	0	15901	1015	

0.5	0.01	0	1.6	0	16	0.0084	28.9	13.55561	9.6	0.01032	-3.305
0.51	0.01	0	1.6	0	16	0.0084	28.9	14.038893	9.6	0.01032	-3.4031
0.52	0.01	0	1.65	0	16.5	0.00835	26.8	14.48977	9.6	0.01033	-3.4512
0.53	0.01	0	1.65	0	16.5	0.00835	26.8	14.940648	9.6	0.01033	-3.5493
0.54	0.01	0	1.65	0	16.5	0.00835	26.8	15.391525	9.6	0.01033	-3.6474
0.55	0.01	0	1.65	0	16.5	0.00835	26.8	15.842403	9.6	0.01033	-3.7455
0.56	0.01	0	1.65	0	16.5	0.00835	26.8	16.29328	9.6	0.01033	-3.8436