

NC							
FTIR		XRD		Raman		Cyclic voltammetry	
516.8373	85.93246	5.29013	40.80726	56.8234	28.88744	<I> (mA)	Ewe/V vs. Ag/AgCl / KCl
518.7657	85.53664	5.30326	39.99957	61.2744	53.02079	-0.00393	-9.94598
520.6943	85.11632	5.31639	40.43937	65.7253	57.16705	0.01044	-4.79203
522.6227	84.75356	5.32952	40.59079	70.1721	51.79188	0.02647	-1.67609
524.5513	84.46629	5.34265	39.93425	74.6188	43.11971	0.04282	0.33151
526.4797	84.29913	5.35578	39.69095	79.0613	34.52561	0.0588	1.46145
528.4083	84.35188	5.36891	40.61567	83.5038	27.55065	0.0774	2.23292
530.3367	84.47754	5.38204	38.7945	87.9421	22.62503	0.09343	2.73454
532.2653	84.60378	5.39517	36.35266	92.3804	19.56802	0.1092	3.10228
534.1937	84.70653	5.4083	34.9752	96.8145	17.9201	0.12507	3.39133
536.1223	84.73599	5.42143	34.27077	101.249	17.15164	0.14044	3.63199
538.0507	84.54523	5.43456	33.61663	105.678	16.78326	0.15654	3.84748
539.9792	84.42181	5.44769	33.71214	110.108	16.44456	0.17338	4.04193
541.9077	84.34058	5.46083	33.64017	114.534	15.89236	0.18935	4.22903
543.8362	84.23601	5.47396	33.3726	118.96	15.00384	0.20441	4.3518
545.7647	84.02966	5.48709	34.4784	123.381	13.7556	0.22033	4.55472
547.6932	83.80499	5.50022	33.81457	127.801	12.19715	0.23644	4.72843
549.6217	83.58204	5.51335	34.87344	132.22	10.42344	0.25268	4.90137
551.5502	83.45881	5.52648	36.20293	136.635	8.55049	0.26904	5.06433
553.4787	83.4409	5.53961	38.50625	141.05	6.69539	0.28501	5.22237
555.4072	83.37114	5.55274	39.24809	145.461	4.9616	0.29994	5.36816
557.3357	83.28815	5.56587	38.84591	149.87	3.4298	0.31607	5.5174
559.2642	83.18016	5.579	38.19014	154.279	2.15305	0.33307	5.64885
561.1927	83.12006	5.59213	36.63284	158.684	1.15638	0.34905	5.78337
563.1212	83.02969	5.60526	35.59773	163.087	0.43911	0.36398	5.9157
565.0497	82.89454	5.61839	35.5396	167.487	-0.02065	0.37997	6.05468
566.9782	82.87723	5.63152	34.85874	171.888	-0.26033	0.39704	6.20992
568.9067	82.82249	5.64465	37.08464	176.284	-0.32693	0.41306	6.378
570.8352	82.72893	5.65778	39.19666	180.679	-0.27099	0.42827	6.5596
572.7637	82.52834	5.67091	40.14399	185.071	-0.14169	0.44395	6.75564
574.6922	82.3008	5.68404	40.02804	189.461	0.01752	0.46102	6.95374
576.6207	82.04295	5.69717	39.49361	193.849	0.17164	0.47708	7.16578
578.5492	81.8018	5.7103	38.64742	198.238	0.29592	0.4921	7.37932
580.4777	81.51092	5.72343	37.29516	202.622	0.37643	0.50791	7.59073
582.4062	81.3009	5.73656	35.00235	207.004	0.40943	0.52501	7.8126
584.3347	81.22015	5.74969	34.46275	211.383	0.40013	0.54101	8.03679
586.2632	81.1184	5.76282	34.04291	215.761	0.3606	0.55594	8.25767
588.1917	81.0567	5.77595	34.35426	220.137	0.30761	0.57228	8.47576
590.1202	81.07851	5.78908	34.77888	224.511	0.25995	0.58902	8.68576
592.0486	81.12064	5.80221	35.37635	228.882	0.23629	0.60446	8.90172
593.9772	81.15637	5.81534	34.92796	233.252	0.25292	0.62047	9.12496
595.9056	81.12842	5.82847	34.75148	237.619	0.32202	0.63701	9.34038
597.8342	81.09144	5.8416	34.8554	241.985	0.45058	0.65262	9.55964
599.7626	81.00383	5.85473	34.31162	246.348	0.63971	0.6688	9.77973
601.6912	80.89151	5.86786	32.2765	250.71	0.88452	0.68262	9.96375

603.6196	80.80943	5.88099	31.98555	255.069	1.17467	0.6992	10.14227
605.5482	80.71634	5.89412	30.97965	259.426	1.49513	0.71451	10.24881
607.4766	80.57488	5.90725	31.49439	263.781	1.82756	0.73117	10.22102
609.4052	80.54893	5.92038	31.30524	268.132	2.1518	0.74719	10.0438
611.3336	80.54145	5.93352	32.13559	272.483	2.44742	0.76211	9.7827
613.2621	80.5142	5.94665	30.35497	276.832	2.69534	0.77884	9.48729
615.1906	80.45382	5.95978	29.94447	281.179	2.6682	0.79504	9.19008
617.1191	80.34994	5.97291	30.71075	285.524	2.60809	0.81016	8.91825
619.0476	80.16458	5.98604	29.00359	289.865	2.52129	0.82723	8.69475
620.9761	79.91991	5.99917	27.23634	294.206	2.41461	0.84321	8.49484
622.9046	79.66444	6.0123	25.67419	298.545	2.29424	0.85866	8.2814
624.8331	79.45596	6.02543	25.59918	302.882	2.16599	0.87521	8.00229
626.7616	79.37315	6.03856	25.85694	307.215	2.03277	0.8901	7.65466
628.6901	79.39474	6.05169	25.51818	311.547	1.89519	0.9069	7.28121
630.6186	79.40733	6.06482	25.89652	315.878	1.75167	0.92269	6.89979
632.5471	79.35432	6.07795	23.93601	320.205	1.59779	0.93821	6.56414
634.4756	79.26461	6.09108	24.78853	324.531	1.42837	0.95513	6.28027
636.4041	79.23509	6.10421	26.0123	328.856	1.23824	0.97011	6.03784
638.3326	79.22057	6.11734	24.99392	333.177	1.0259	0.9872	5.83046
640.2611	79.1816	6.13047	24.56028	337.497	0.79391	1.00252	5.65701
642.1896	79.001	6.1436	24.20393	341.814	0.54818	1.01912	5.49942
644.1181	78.71778	6.15673	25.61179	346.13	0.29617	1.03491	5.38813
646.0466	78.42686	6.16986	26.04279	350.443	0.04725	1.05109	5.28665
647.975	78.16651	6.18299	26.34395	354.755	-0.1868	1.06709	5.20776
649.9036	77.89506	6.19612	26.62258	359.064	-0.393	1.08298	5.14085
651.832	77.7006	6.20925	25.5641	363.372	-0.55806	1.09915	5.0819
653.7606	77.7794	6.22238	25.85119	367.676	-0.66941	1.11482	5.03904
655.689	77.86128	6.23551	24.07965	371.979	-0.71438	1.13109	5.01068
657.6176	77.54223	6.24864	22.32646	376.281	-0.68143	1.14666	4.99563
659.546	77.16867	6.26177	22.81044	380.58	-0.56231	1.16312	4.99634
661.4745	76.81239	6.2749	22.37384	384.876	-0.35036	1.17869	5.00592
663.403	76.45465	6.28803	22.67791	389.172	-0.04314	1.19513	5.04093
665.3315	76.13716	6.30116	22.59844	393.465	0.35672	1.21068	5.08664
667.26	75.86602	6.31429	23.64814	397.755	0.84258	1.22693	5.15543
669.1885	75.53624	6.32742	23.98424	402.044	1.4035	1.24287	5.23961
671.117	75.24039	6.34055	23.77011	406.332	2.02533	1.25804	5.35475
673.0455	75.04314	6.35368	24.25879	410.616	2.69035	1.275	5.50234
674.974	74.90329	6.36681	23.37313	414.899	3.37802	1.29003	5.6793
676.9025	74.75052	6.37994	24.27742	419.179	4.06695	1.30708	5.8972
678.831	74.62757	6.39308	26.13195	423.457	4.73491	1.32213	6.16674
680.7595	74.60107	6.40621	26.72817	427.734	5.36279	1.33906	6.49125
682.688	74.4474	6.41934	27.65572	432.008	5.93473	1.3544	6.89323
684.6165	74.14696	6.43247	27.38593	436.283	6.43952	1.3711	7.38252
686.545	74.08414	6.4456	27.85392	440.553	6.87022	1.38667	7.98105
688.4735	74.17375	6.45873	27.70819	444.821	7.22186	1.39185	6.63596
690.402	74.35184	6.47186	27.01228	449.088	7.49172	1.37612	3.67813
692.3305	74.68806	6.48499	27.16977	453.352	7.67982	1.36012	1.97098

694.259	75.14079	6.49812	26.57033	457.613	7.78933	1.34385	0.85423
696.1875	75.62663	6.51125	27.65908	461.873	7.82934	1.32644	0.05483
698.116	76.18021	6.52438	27.91355	466.132	7.81246	1.31	-0.43553
700.0445	76.65747	6.53751	29.08321	470.388	7.75266	1.29384	-0.77187
701.973	76.98328	6.55064	29.48944	474.643	7.66486	1.27857	-1.00842
703.9015	77.12588	6.56377	28.89273	478.895	7.5635	1.26159	-1.18202
705.83	77.19308	6.5769	29.32367	483.146	7.46021	1.24664	-1.31125
707.7585	77.16842	6.59003	30.67337	487.393	7.36294	1.22993	-1.41522
709.687	77.09269	6.60316	31.29438	491.639	7.272	1.21465	-1.49699
711.6155	76.95269	6.61629	32.21286	495.884	7.1747	1.19719	-1.58187
713.5439	76.7747	6.62942	33.29723	500.127	7.07348	1.18014	-1.64836
715.4725	76.62905	6.64255	33.67482	504.365	6.96916	1.16517	-1.70604
717.4009	76.50945	6.65568	32.92047	508.604	6.85773	1.14856	-1.76106
719.3295	76.45704	6.66881	33.60243	512.841	6.73659	1.13234	-1.81536
721.2579	76.4044	6.68194	32.47808	517.074	6.60567	1.11716	-1.86729
723.1865	76.32301	6.69507	32.296	521.307	6.46651	1.10038	-1.92765
725.1149	76.22539	6.7082	32.44518	525.535	6.3216	1.08524	-1.98398
727.0435	76.05032	6.72133	32.6553	529.764	6.17491	1.06915	-2.0454
728.9719	75.8233	6.73446	34.33253	533.989	6.03009	1.05259	-2.11023
730.9005	75.56687	6.74759	35.29811	538.214	5.88921	1.0372	-2.17446
732.8289	75.33973	6.76072	37.36066	542.436	5.75365	1.02027	-2.24732
734.7574	75.02253	6.77385	38.30158	546.657	5.62643	1.00455	-2.31981
736.6859	74.66681	6.78698	39.11367	550.874	5.51417	0.98918	-2.40409
738.6144	74.30245	6.80011	38.62618	555.091	5.41923	0.97235	-2.49636
740.5429	74.00327	6.81324	38.00691	559.304	5.34422	0.95725	-2.59675
742.4714	73.79237	6.82637	37.10888	563.516	5.29209	0.94122	-2.71087
744.3999	73.64468	6.8395	36.59977	567.725	5.2623	0.92456	-2.84371
746.3284	73.58057	6.85263	36.59656	571.935	5.25153	0.90924	-2.99121
748.2569	73.57699	6.86577	36.77137	576.14	5.25103	0.89247	-3.1735
750.1854	73.67076	6.8789	36.83731	580.344	5.2528	0.87625	-3.38838
752.1139	73.87952	6.89203	38.72891	584.545	5.25336	0.86126	-3.64958
754.0424	74.12521	6.90516	39.56937	588.747	5.25358	0.84479	-3.95615
755.9709	74.38583	6.91829	39.59386	592.945	5.25361	0.82918	-4.31328
757.8994	74.69819	6.93142	38.05561	597.14	5.25206	0.81327	-4.7056
759.8279	75.08582	6.94455	37.14998	601.334	5.24567	0.79615	-5.10949
761.7564	75.47185	6.95768	36.1663	605.526	5.22957	0.78085	-5.48309
763.6849	75.82187	6.97081	36.59182	609.716	5.19931	0.76517	-5.83453
765.6134	76.16235	6.98394	36.6096	613.904	5.15478	0.74842	-6.15441
767.5419	76.48185	6.99707	36.85122	618.09	5.09682	0.73329	-6.46372
769.4704	76.69858	7.0102	37.57454	622.275	5.02872	0.7173	-6.79045
771.3989	76.79325	7.02333	38.63536	626.457	4.95327	0.70032	-7.14236
773.3274	76.76747	7.03646	39.0083	630.637	4.87629	0.68507	-7.54712
775.2559	76.69643	7.04959	39.40069	634.816	4.8085	0.66901	-8.00326
777.1844	76.5627	7.06272	37.17781	638.99	4.76017	0.65235	-8.49869
779.1129	76.41151	7.07585	35.31532	643.165	4.73977	0.63726	-8.97054
781.0414	76.22085	7.08898	35.04596	647.337	4.75273	0.62132	-9.37629
782.9698	76.04507	7.10211	34.22923	651.508	4.79929	0.6049	-9.73172

784.8984	75.92675	7.11524	32.93419	655.677	4.87374	0.58898	-10.0183
786.8268	75.86561	7.12837	32.22646	659.842	4.9706	0.57325	-10.23994
788.7554	75.80068	7.1415	31.42437	664.007	5.08261	0.55665	-10.42052
790.6838	75.7422	7.15463	30.94286	668.17	5.20256	0.54019	-10.54556
792.6124	75.70649	7.16776	31.88305	672.329	5.3194	0.52526	-10.62645
794.5408	75.63105	7.18089	32.86128	676.488	5.4202	0.50933	-10.67877
796.4694	75.49953	7.19402	32.06124	680.644	5.48727	0.49224	-10.70263
798.3978	75.34399	7.20715	33.04456	684.799	5.50462	0.47653	-10.69878
800.3264	75.16791	7.22028	34.72276	688.951	5.45784	0.46136	-10.66272
802.2548	75.00681	7.23341	34.59921	693.102	5.33664	0.44518	-10.59812
804.1833	74.8028	7.24654	34.82685	697.25	5.13602	0.42852	-10.50598
806.1118	74.69418	7.25967	36.30892	701.398	4.85775	0.41311	-10.39153
808.0403	74.61774	7.2728	35.84543	705.542	4.51264	0.39728	-10.26782
809.9688	74.58708	7.28593	34.89403	709.684	4.1185	0.38085	-10.12805
811.8973	74.61262	7.29906	34.2895	713.826	3.70046	0.36484	-9.98356
813.8258	74.60905	7.31219	33.94168	717.964	3.28741	0.34923	-9.84489
815.7543	74.5827	7.32533	33.4913	722.101	2.90738	0.3331	-9.7088
817.6828	74.60445	7.33846	32.90658	726.235	2.58589	0.31666	-9.58116
819.6113	74.65842	7.35159	31.95236	730.37	2.34171	0.30111	-9.47417
821.5398	74.67915	7.36472	31.77179	734.5	2.18545	0.28532	-9.37973
823.4683	74.66492	7.37785	32.50062	738.629	2.12071	0.2689	-9.31076
825.3968	74.66264	7.39098	34.2089	742.756	2.14444	0.25245	-9.25618
827.3253	74.63824	7.40411	33.74833	746.881	2.24974	0.23722	-9.2201
829.2538	74.61696	7.41724	33.45099	751.004	2.42324	0.22134	-9.19053
831.1823	74.62415	7.43037	33.89142	755.125	2.64707	0.2048	-9.18266
833.1108	74.73186	7.4435	34.09338	759.245	2.90099	0.18874	-9.12096
835.0393	74.85459	7.45663	33.90675	763.362	3.1648	0.17356	-9.15369
836.9678	75.00968	7.46976	33.0338	767.478	3.41694	0.15761	-9.1671
838.8963	75.19979	7.48289	32.52989	771.591	3.63569	0.1412	-9.19139
840.8248	75.32759	7.49602	31.85738	775.703	3.80159	0.12485	-9.21013
842.7533	75.45488	7.50915	30.26458	779.811	3.89889	0.10946	-9.24149
844.6818	75.58125	7.52228	29.9699	783.919	3.91779	0.0936	-9.26864
846.6103	75.64324	7.53541	29.73196	788.026	3.85355	0.07737	-9.31368
848.5388	75.61127	7.54854	29.57185	792.13	3.71053	0.06102	-9.36171
850.4673	75.51503	7.56167	30.84484	796.23	3.50269	0.0454	-9.44544
852.3958	75.36739	7.5748	31.27901	800.331	3.24658	0.02965	-9.55711
854.3243	75.13641	7.58793	31.21116	804.43	2.96534	0.01349	-9.71558
856.2527	74.86191	7.60106	30.96308	808.525	2.68735	-0.00293	-9.93133
858.1813	74.55765	7.61419	30.06146	812.62	2.44034		
860.1097	74.24734	7.62732	29.72421	816.711	2.25079		
862.0383	73.93761	7.64045	28.5446	820.802	2.1405		
863.9667	73.67727	7.65358	27.66242	824.889	2.12604		
865.8953	73.4493	7.66671	26.84526	828.977	2.21523		
867.8237	73.24821	7.67984	26.95175	833.061	2.40522		
869.7523	73.08738	7.69297	27.32293	837.143	2.68507		
871.6807	72.94768	7.7061	28.55028	841.225	3.03313		
873.6093	72.87353	7.71923	28.17074	845.303	3.42038		

875.5377	72.90967	7.73236	27.81024	849.379	3.80972
877.4662	73.03393	7.74549	27.63412	853.453	4.16072
879.3947	73.17098	7.75862	28.90015	857.528	4.43477
881.3232	73.30344	7.77175	28.20652	861.599	4.59903
883.2517	73.43142	7.78489	27.81386	865.668	4.63139
885.1802	73.57531	7.79802	27.38757	869.735	4.52008
887.1087	73.71227	7.81115	26.99788	873.8	4.26321
889.0372	73.81136	7.82428	27.93256	877.863	3.8711
890.9657	73.9166	7.83741	29.69441	881.925	3.36498
892.8942	73.98917	7.85054	30.55076	885.984	2.77454
894.8227	74.03829	7.86367	30.19126	890.042	2.13481
896.7512	74.05104	7.8768	29.6379	894.098	1.48409
898.6797	74.05437	7.88993	28.95384	898.152	0.86051
900.6082	74.11819	7.90306	27.50732	902.203	0.30234
902.5367	74.26577	7.91619	26.59754	906.253	-0.15623
904.4651	74.3842	7.92932	25.16621	910.302	-0.49144
906.3937	74.46608	7.94245	25.20326	914.349	-0.68593
908.3221	74.5325	7.95558	26.35161	918.392	-0.73126
910.2507	74.56794	7.96871	27.7812	922.435	-0.63299
912.1791	74.58796	7.98184	29.68677	926.474	-0.40588
914.1077	74.55433	7.99497	29.45293	930.514	-0.07104
916.0361	74.48389	8.0081	29.3129	934.55	0.34259
917.9647	74.41845	8.02123	29.39413	938.585	0.80127
919.8931	74.30912	8.03436	29.03786	942.617	1.26922
921.8217	74.1549	8.04749	30.27092	946.65	1.71611
923.7501	74.02594	8.06062	29.81322	950.678	2.11868
925.6786	73.95689	8.07375	29.97474	954.705	2.46163
927.6071	73.91989	8.08688	29.61667	958.732	2.73665
929.5356	73.86833	8.10001	29.59904	962.755	2.9461
931.4641	73.77552	8.11314	29.24037	966.776	3.09814
933.3926	73.75214	8.12627	28.21571	970.795	3.20555
935.3211	73.71279	8.1394	26.68231	974.815	3.28172
937.2496	73.59193	8.15253	25.74741	978.83	3.33927
939.1781	73.46124	8.16566	25.81271	982.844	3.39448
941.1066	73.34951	8.17879	26.74108	986.856	3.46097
943.0351	73.24702	8.19192	25.54741	990.867	3.54969
944.9636	73.17168	8.20505	25.47191	994.875	3.66939
946.8921	73.09697	8.21818	26.67481	998.882	3.82627
948.8206	72.99952	8.23131	27.18074	1002.88	4.02334
950.7491	72.93747	8.24444	27.35767	1006.89	4.26077
952.6776	72.87909	8.25758	27.57691	1010.89	4.53745
954.6061	72.75597	8.27071	25.97833	1014.89	4.84945
956.5346	72.62338	8.28384	25.03526	1018.89	5.18873
958.4631	72.5247	8.29697	24.63782	1022.88	5.54742
960.3916	72.44547	8.3101	24.19804	1026.87	5.92002
962.3201	72.32373	8.32323	23.113	1030.87	6.30683
964.2486	72.20331	8.33636	23.12837	1034.86	6.71016

966.1771	72.13932	8.34949	23.20322	1038.84	7.13211
968.1056	72.10114	8.36262	23.64593	1042.83	7.5768
970.0341	72.04803	8.37575	24.1051	1046.81	8.04606
971.9626	72.02225	8.38888	25.14796	1050.8	8.53428
973.8911	72.00731	8.40201	23.92454	1054.78	9.03879
975.8196	71.95313	8.41514	24.6377	1058.75	9.55949
977.748	71.87633	8.42827	25.78165	1062.73	10.09651
979.6766	71.80109	8.4414	26.62776	1066.71	10.6456
981.605	71.71738	8.45453	26.82919	1070.68	11.19603
983.5336	71.63519	8.46766	26.48892	1074.65	11.73658
985.462	71.52649	8.48079	25.38559	1078.62	12.25605
987.3906	71.37837	8.49392	24.48082	1082.59	12.74558
989.319	71.2616	8.50705	24.9302	1086.55	13.19435
991.2476	71.20193	8.52018	25.32028	1090.52	13.59357
993.176	71.14218	8.53331	23.83689	1094.48	13.93563
995.1046	71.06068	8.54644	26.6186	1098.44	14.21648
997.033	70.97858	8.55957	29.06597	1102.4	14.4372
998.9615	70.91013	8.5727	28.988	1106.35	14.60184
1000.89	70.84664	8.58583	28.7069	1110.3	14.72271
1002.819	70.77345	8.59896	27.22117	1114.26	14.81868
1004.747	70.69891	8.61209	24.95955	1118.21	14.9127
1006.676	70.65324	8.62522	23.8384	1122.16	15.02965
1008.604	70.59492	8.63835	23.88909	1126.1	15.19055
1010.533	70.48868	8.65148	23.34559	1130.05	15.41247
1012.461	70.36217	8.66461	23.30628	1133.99	15.70706
1014.39	70.23016	8.67774	25.75519	1137.93	16.08007
1016.318	70.10982	8.69087	25.63022	1141.87	16.52904
1018.247	70.00834	8.704	25.6462	1145.81	17.04329
1020.175	69.90942	8.71714	25.71987	1149.75	17.61024
1022.104	69.82928	8.73027	26.20204	1153.68	18.21794
1024.032	69.77643	8.7434	26.03596	1157.61	18.85412
1025.96	69.72709	8.75653	28.25135	1161.54	19.50545
1027.889	69.66442	8.76966	29.41345	1165.47	20.16137
1029.818	69.59514	8.78279	30.7753	1169.4	20.81495
1031.746	69.54408	8.79592	31.71323	1173.32	21.46302
1033.674	69.51138	8.80905	31.32657	1177.25	22.10738
1035.603	69.44366	8.82218	28.99483	1181.17	22.75403
1037.531	69.35089	8.83531	28.54026	1185.09	23.41247
1039.46	69.28565	8.84844	28.78618	1189.01	24.09179
1041.388	69.21786	8.86157	29.16438	1192.92	24.80148
1043.317	69.16096	8.8747	28.60212	1196.84	25.55461
1045.245	69.15182	8.88783	28.77193	1200.75	26.35777
1047.174	69.13412	8.90096	29.92948	1204.66	27.21303
1049.102	69.09457	8.91409	30.27563	1208.57	28.1211
1051.031	69.05616	8.92722	30.72721	1212.47	29.07666
1052.959	69.01284	8.94035	31.55117	1216.38	30.06961
1054.888	68.95397	8.95348	32.10688	1220.28	31.08297

1056.816	68.89079	8.96661	32.15008	1224.18	32.0999
1058.745	68.82478	8.97974	33.81476	1228.08	33.10649
1060.673	68.75652	8.99287	33.60735	1231.98	34.09117
1062.602	68.67464	9.006	33.16543	1235.87	35.04942
1064.53	68.59264	9.01913	32.07466	1239.77	35.98416
1066.459	68.51116	9.03226	32.17428	1243.66	36.90877
1068.387	68.44286	9.04539	30.39272	1247.55	37.84548
1070.316	68.4316	9.05852	30.52326	1251.44	38.82572
1072.244	68.46871	9.07165	31.99748	1255.33	39.89204
1074.173	68.4884	9.08478	32.34026	1259.21	41.09428
1076.101	68.49391	9.09791	31.00233	1263.1	42.48509
1078.03	68.51147	9.11104	31.53448	1266.98	44.11728
1079.958	68.50768	9.12417	30.39596	1270.86	46.04094
1081.887	68.49807	9.1373	30.48235	1274.73	48.29879
1083.815	68.47465	9.15043	31.0745	1278.61	50.91918
1085.744	68.40534	9.16356	31.27231	1282.48	53.91966
1087.672	68.33413	9.1767	31.70419	1286.35	57.29078
1089.601	68.27934	9.18983	32.85155	1290.23	61.00442
1091.529	68.24569	9.20296	34.07869	1294.09	65.01157
1093.458	68.23743	9.21609	33.44675	1297.96	69.24083
1095.386	68.26865	9.22922	32.75194	1301.83	73.60167
1097.315	68.31318	9.24235	32.41669	1305.69	77.98328
1099.243	68.37681	9.25548	31.22917	1309.55	82.26617
1101.172	68.43577	9.26861	30.77725	1313.41	86.32934
1103.1	68.45559	9.28174	30.23761	1317.27	90.04898
1105.029	68.43967	9.29487	28.69911	1321.13	93.30719
1106.957	68.38984	9.308	28.92591	1324.98	96.00151
1108.886	68.33939	9.32113	29.58191	1328.83	98.04988
1110.814	68.27419	9.33426	30.14683	1332.68	99.39408
1112.743	68.19228	9.34739	30.39692	1336.53	100
1114.671	68.1363	9.36052	31.73952	1340.38	99.86239
1116.6	68.12484	9.37365	32.49661	1344.22	99.00388
1118.528	68.16145	9.38678	32.90337	1348.07	97.47321
1120.457	68.20061	9.39991	31.9654	1351.91	95.34262
1122.385	68.22066	9.41304	31.71351	1355.75	92.70208
1124.314	68.18296	9.42617	30.22837	1359.59	89.65007
1126.242	68.16124	9.4393	30.15852	1363.42	86.29237
1128.171	68.16019	9.45243	30.41054	1367.26	82.73726
1130.099	68.12627	9.46556	30.41067	1371.09	79.08924
1132.028	68.08573	9.47869	30.43158	1374.92	75.45339
1133.956	68.06424	9.49182	30.52457	1378.75	71.92624
1135.885	68.04269	9.50495	31.3496	1382.58	68.59024
1137.813	68.0148	9.51808	31.44627	1386.41	65.51203
1139.742	67.99552	9.53121	31.63633	1390.23	62.73923
1141.67	67.97697	9.54434	31.74398	1394.05	60.29795
1143.599	67.96719	9.55747	30.82831	1397.87	58.1919
1145.527	67.95559	9.5706	30.16584	1401.69	56.40806

1147.456	67.93468	9.58373	29.55512	1405.51	54.91848
1149.384	67.90014	9.59686	29.30651	1409.32	53.68354
1151.313	67.83889	9.60999	28.2224	1413.14	52.65491
1153.241	67.7882	9.62312	28.60527	1416.95	51.77825
1155.17	67.76214	9.63625	29.19636	1420.76	50.99905
1157.098	67.73787	9.64939	28.38629	1424.57	50.26546
1159.027	67.74378	9.66252	27.90695	1428.37	49.52973
1160.955	67.76558	9.67565	26.82532	1432.18	48.75839
1162.884	67.77084	9.68878	27.39969	1435.98	47.93916
1164.812	67.77058	9.70191	26.1051	1439.78	47.06951
1166.741	67.79671	9.71504	25.62799	1443.58	46.15509
1168.669	67.82883	9.72817	25.93105	1447.38	45.20836
1170.598	67.85397	9.7413	26.71322	1451.17	44.25275
1172.526	67.88741	9.75443	28.16093	1454.97	43.31748
1174.455	67.93726	9.76756	27.24467	1458.76	42.43157
1176.383	67.95835	9.78069	26.75444	1462.55	41.62314
1178.312	67.95727	9.79382	26.53122	1466.34	40.91586
1180.24	67.93996	9.80695	26.30667	1470.13	40.32965
1182.169	67.94203	9.82008	26.87611	1473.91	39.87666
1184.097	67.96218	9.83321	25.88695	1477.7	39.56133
1186.026	67.99892	9.84634	25.99838	1481.48	39.3802
1187.954	68.04106	9.85947	25.52074	1485.26	39.32504
1189.883	68.06566	9.8726	26.46291	1489.04	39.39025
1191.811	68.08913	9.88573	26.60253	1492.81	39.56772
1193.74	68.12798	9.89886	26.23791	1496.59	39.85379
1195.668	68.1552	9.91199	26.7829	1500.36	40.25115
1197.597	68.15944	9.92512	26.04392	1504.13	40.76923
1199.525	68.16352	9.93825	25.10948	1507.9	41.42651
1201.454	68.16441	9.95138	25.26773	1511.67	42.24569
1203.382	68.14417	9.96451	24.92096	1515.43	43.25307
1205.311	68.11966	9.97764	24.1609	1519.2	44.47677
1207.239	68.09655	9.99077	23.06549	1522.96	45.94947
1209.168	68.09341	10.0039	23.25967	1526.72	47.70494
1211.096	68.11685	10.01703	23.58768	1530.48	49.7691
1213.025	68.11541	10.03016	24.50804	1534.24	52.15689
1214.953	68.10072	10.04329	25.34657	1537.99	54.87164
1216.882	68.08376	10.05642	25.57057	1541.75	57.90158
1218.81	68.08961	10.06955	24.83359	1545.5	61.21365
1220.739	68.10008	10.08268	24.38826	1549.25	64.75143
1222.667	68.09511	10.09581	23.28361	1553	68.43837
1224.596	68.07372	10.10895	22.28161	1556.75	72.17927
1226.524	68.07052	10.12208	21.77982	1560.49	75.8631
1228.453	68.07431	10.13521	21.57107	1564.24	79.36596
1230.381	68.06585	10.14834	21.91185	1567.98	82.55679
1232.31	68.06107	10.16147	22.86135	1571.72	85.30258
1234.238	68.079	10.1746	24.21852	1575.46	87.4762
1236.167	68.10818	10.18773	25.54279	1579.19	88.97014

1238.095	68.13649	10.20086	24.45888	1582.93	89.69454
1240.024	68.15218	10.21399	23.37581	1586.66	89.58275
1241.952	68.17669	10.22712	21.96489	1590.39	88.5969
1243.881	68.23578	10.24025	20.77282	1594.12	86.73225
1245.809	68.32797	10.25338	20.79142	1597.85	84.01962
1247.738	68.4107	10.26651	21.28754	1601.58	80.52028
1249.666	68.47534	10.27964	21.93089	1605.3	76.32558
1251.595	68.51781	10.29277	23.65174	1609.02	71.55253
1253.523	68.56154	10.3059	25.25051	1612.74	66.33689
1255.452	68.61829	10.31903	26.52931	1616.46	60.82711
1257.38	68.67417	10.33216	26.54683	1620.18	55.17648
1259.309	68.72099	10.34529	26.45746	1623.9	49.5415
1261.237	68.7723	10.35842	25.96822	1627.61	44.06839
1263.166	68.82912	10.37155	24.87548	1631.32	38.88623
1265.094	68.89973	10.38468	24.45539	1635.04	34.10277
1267.023	68.99115	10.39781	22.29694	1638.74	29.80422
1268.951	69.0711	10.41094	20.74997	1642.45	26.04641
1270.88	69.1607	10.42407	21.16774	1646.16	22.85566
1272.808	69.25491	10.4372	21.06588	1649.86	20.23071
1274.737	69.3251	10.45033	21.03489	1653.56	18.14476
1276.665	69.36763	10.46346	21.33364	1657.26	16.54325
1278.594	69.3885	10.47659	22.11483	1660.96	15.37002
1280.522	69.43266	10.48972	22.60801	1664.66	14.54691
1282.451	69.50991	10.50285	22.86408	1668.36	13.98882
1284.379	69.57747	10.51598	22.52178	1672.05	13.61278
1286.308	69.63031	10.52911	21.7658	1675.74	13.34025
1288.236	69.69489	10.54224	21.28114	1679.43	13.10463
1290.165	69.75937	10.55537	22.4276	1683.12	12.84801
1292.093	69.82195	10.5685	22.34375	1686.81	12.52524
1294.022	69.87911	10.58164	22.39233	1690.5	12.10923
1295.95	69.90123	10.59477	22.01794	1694.18	11.58789
1297.879	69.89957	10.6079	21.88352	1697.86	10.96154
1299.807	69.92339	10.62103	21.76334	1701.54	10.24203
1301.736	69.94942	10.63416	22.3369	1705.22	9.44942
1303.664	69.94463	10.64729	22.12447	1708.9	8.60995
1305.593	69.93999	10.66042	22.91594	1712.57	7.75486
1307.521	69.92658	10.67355	22.13438	1716.24	6.91925
1309.45	69.91514	10.68668	22.78289	1719.92	6.1383
1311.378	69.91186	10.69981	22.98081	1723.59	5.44027
1313.307	69.91763	10.71294	22.63778	1727.26	4.84617
1315.235	69.93788	10.72607	22.02626	1730.92	4.36706
1317.164	69.9621	10.7392	22.46343	1734.59	4.00574
1319.092	70.01735	10.75233	22.55478	1738.25	3.76389
1321.021	70.08986	10.76546	23.14769	1741.91	3.63711
1322.949	70.17909	10.77859	23.09686	1745.57	3.61229
1324.878	70.2901	10.79172	22.66608	1749.23	3.67209
1326.806	70.39445	10.80485	23.19854	1752.89	3.79604

1328.734	70.42459	10.81798	24.39259	1756.54	3.96082
1330.663	70.4157	10.83111	24.82115	1760.2	4.14284
1332.592	70.39753	10.84424	24.54165	1763.85	4.32276
1334.52	70.37933	10.85737	24.48987	1767.5	4.48529
1336.448	70.3621	10.8705	24.34322	1771.15	4.61787
1338.377	70.33835	10.88363	23.82313	1774.79	4.71454
1340.306	70.32652	10.89676	23.74226	1778.44	4.77136
1342.234	70.31659	10.90989	23.61743	1782.08	4.78593
1344.162	70.31563	10.92302	24.24099	1785.72	4.75679
1346.091	70.35212	10.93615	25.82938	1789.36	4.68353
1348.02	70.41332	10.94928	25.94221	1793	4.57027
1349.948	70.48022	10.96241	27.40085	1796.64	4.42661
1351.876	70.46703	10.97554	28.474	1800.27	4.26407
1353.805	70.39496	10.98867	29.16384	1803.9	4.0936
1355.734	70.30648	11.0018	28.37653	1807.54	3.92651
1357.662	70.23345	11.01493	28.90662	1811.17	3.77555
1359.59	70.19171	11.02806	29.13351	1814.8	3.64785
1361.519	70.16557	11.0412	28.66139	1818.42	3.54203
1363.448	70.07826	11.05433	28.84335	1822.05	3.45178
1365.376	69.98035	11.06746	28.66844	1825.67	3.36772
1367.304	69.90879	11.08059	28.66757	1829.29	3.27836
1369.233	69.85157	11.09372	30.58903	1832.91	3.17318
1371.161	69.82889	11.10685	31.34447	1836.53	3.0426
1373.09	69.82751	11.11998	32.01532	1840.15	2.87948
1375.018	69.80631	11.13311	31.71094	1843.76	2.67997
1376.947	69.75089	11.14624	33.23496	1847.37	2.44453
1378.875	69.6775	11.15937	33.81179	1850.99	2.17756
1380.804	69.69449	11.1725	33.6105	1854.6	1.88536
1382.732	69.74792	11.18563	34.16608	1858.21	1.58163
1384.661	69.77459	11.19876	35.10978	1861.81	1.28263
1386.589	69.78398	11.21189	35.52632	1865.42	1.00847
1388.518	69.74181	11.22502	36.38386	1869.02	0.78089
1390.446	69.69929	11.23815	36.26757	1872.62	0.61916
1392.375	69.72311	11.25128	36.09171	1876.22	0.53927
1394.303	69.77877	11.26441	35.49308	1879.82	0.55259
1396.232	69.84132	11.27754	35.62567	1883.42	0.66486
1398.16	69.88669	11.29067	35.69357	1887.01	0.87242
1400.089	69.92162	11.3038	35.48548	1890.61	1.16323
1402.017	69.96191	11.31693	34.71235	1894.2	1.52442
1403.946	70.01681	11.33006	33.37695	1897.79	1.93363
1405.874	70.08028	11.34319	33.01288	1901.38	2.36897
1407.803	70.09375	11.35632	34.63071	1904.97	2.79489
1409.731	70.0686	11.36945	35.00933	1908.55	3.18073
1411.66	70.01366	11.38258	36.95966	1912.13	3.50422
1413.588	69.94612	11.39571	36.86561	1915.72	3.74468
1415.517	69.93151	11.40884	37.63003	1919.3	3.8832
1417.445	69.9576	11.42197	37.83296	1922.88	3.9061

1419.374	69.97955	11.4351	37.42726	1926.45	3.80736
1421.302	70.00762	11.44823	36.16333	1930.03	3.59067
1423.231	70.09011	11.46136	33.53411	1933.6	3.26895
1425.159	70.13596	11.47449	33.16933	1937.18	2.86127
1427.088	70.203	11.48762	33.52076	1940.75	2.38879
1429.016	70.31072	11.50076	33.66387	1944.31	1.87689
1430.945	70.43431	11.51389	35.76342	1947.88	1.35175
1432.873	70.55975	11.52702	35.97879	1951.45	0.83963
1434.802	70.63303	11.54015	36.7772	1955.01	0.36252
1436.73	70.72674	11.55328	37.37065	1958.57	-0.06013
1438.659	70.85152	11.56641	38.12235	1962.14	-0.41232
1440.587	70.98428	11.57954	37.81359	1965.7	-0.68282
1442.516	71.17953	11.59267	35.27735	1969.25	-0.86348
1444.444	71.33179	11.6058	34.16623	1972.81	-0.95045
1446.373	71.27592	11.61893	33.07703	1976.36	-0.94301
1448.301	71.19565	11.63206	32.85399	1979.92	-0.84574
1450.23	71.17283	11.64519	32.55462	1983.47	-0.66971
1452.158	71.1077	11.65832	33.03401	1987.02	-0.42293
1454.087	71.07407	11.67145	33.04109	1990.56	-0.11948
1456.015	71.14146	11.68458	33.50986	1994.11	0.22486
1457.944	71.36049	11.69771	33.89383	1997.66	0.59087
1459.872	71.63133	11.71084	33.23844	2001.2	0.96231
1461.801	71.78151	11.72397	32.91868	2004.74	1.32449
1463.729	71.89422	11.7371	33.18077	2008.28	1.6658
1465.658	72.03196	11.75023	32.8934	2011.82	1.97874
1467.586	72.20361	11.76336	32.66406	2015.36	2.25832
1469.515	72.373	11.77649	32.64526	2018.89	2.49419
1471.443	72.47865	11.78962	34.42742	2022.42	2.68496
1473.372	72.46663	11.80275	34.87744	2025.96	2.82981
1475.3	72.5033	11.81588	35.16766	2029.49	2.92806
1477.229	72.48517	11.82901	35.83455	2033.02	2.97991
1479.157	72.35044	11.84214	35.33207	2036.54	2.98583
1481.086	72.23128	11.85527	35.48522	2040.07	2.9488
1483.014	72.25742	11.8684	34.70715	2043.59	2.87304
1484.943	72.32491	11.88153	33.61617	2047.11	2.76685
1486.871	72.2589	11.89466	33.03858	2050.63	2.63541
1488.8	72.08004	11.90779	32.53165	2054.15	2.48326
1490.728	71.98073	11.92092	32.75217	2057.67	2.31375
1492.657	72.11509	11.93405	32.68287	2061.19	2.13234
1494.585	72.32362	11.94718	32.52224	2064.7	1.94685
1496.514	72.28041	11.96031	32.627	2068.21	1.76641
1498.442	72.25026	11.97345	33.01647	2071.73	1.59762
1500.371	72.29608	11.98658	34.36483	2075.23	1.44461
1502.299	72.39762	11.99971	35.18445	2078.74	1.30723
1504.228	72.42819	12.01284	35.69076	2082.25	1.18505
1506.156	72.40614	12.02597	36.65779	2085.75	1.08251
1508.085	72.49942	12.0391	35.86986	2089.26	1.00292

1510.013	72.56458	12.05223	37.02198	2092.76	0.94565
1511.942	72.53477	12.06536	37.10179	2096.26	0.90967
1513.87	72.46584	12.07849	37.88597	2099.76	0.89174
1515.799	72.43559	12.09162	37.46112	2103.25	0.88644
1517.727	72.54622	12.10475	39.10043	2106.75	0.88605
1519.656	72.83262	12.11788	39.2531	2110.24	0.8825
1521.584	72.92001	12.13101	39.61748	2113.73	0.86906
1523.513	72.76352	12.14414	38.90818	2117.22	0.83941
1525.441	72.83875	12.15727	37.96035	2120.71	0.79341
1527.37	73.08128	12.1704	36.70317	2124.2	0.73623
1529.298	73.20097	12.18353	37.15204	2127.68	0.67349
1531.227	73.14188	12.19666	37.41685	2131.17	0.61436
1533.155	72.96957	12.20979	38.84415	2134.65	0.56559
1535.084	72.85859	12.22292	39.73421	2138.13	0.53297
1537.012	72.70245	12.23605	41.91009	2141.61	0.52128
1538.941	72.54819	12.24918	43.11191	2145.09	0.53444
1540.869	72.51054	12.26231	45.3679	2148.56	0.5763
1542.798	72.52985	12.27544	45.8786	2152.04	0.65025
1544.726	72.686	12.28857	45.7112	2155.51	0.75855
1546.655	72.74792	12.3017	45.28711	2158.98	0.90151
1548.583	72.62914	12.31483	43.95526	2162.45	1.07243
1550.512	72.58858	12.32796	42.80968	2165.92	1.26445
1552.44	72.70552	12.34109	41.11916	2169.39	1.46463
1554.369	72.80086	12.35422	40.04323	2172.85	1.65648
1556.297	72.75547	12.36735	40.2024	2176.32	1.82501
1558.226	72.6591	12.38048	40.40617	2179.78	1.95645
1560.154	72.61003	12.39361	40.48663	2183.24	2.03798
1562.083	72.74243	12.40674	41.20063	2186.7	2.0595
1564.011	72.8866	12.41987	41.89274	2190.16	2.01503
1565.94	72.9595	12.43301	41.22526	2193.61	1.90185
1567.868	73.12466	12.44614	41.76368	2197.06	1.71946
1569.797	73.27689	12.45927	42.25258	2200.52	1.47121
1571.725	73.38153	12.4724	42.4927	2203.97	1.1667
1573.654	73.30094	12.48553	42.50198	2207.42	0.8199
1575.582	73.22247	12.49866	43.36892	2210.86	0.4491
1577.511	73.27083	12.51179	43.17618	2214.31	0.07429
1579.439	73.38546	12.52492	44.13428	2217.76	-0.2851
1581.368	73.54156	12.53805	44.92548	2221.2	-0.60889
1583.296	73.69888	12.55118	44.53426	2224.64	-0.87819
1585.225	73.79523	12.56431	43.52945	2228.08	-1.07812
1587.153	73.95605	12.57744	43.27517	2231.52	-1.19888
1589.082	74.14067	12.59057	42.94099	2234.96	-1.23386
1591.01	74.20474	12.6037	42.89723	2238.39	-1.18231
1592.939	74.20894	12.61683	42.35826	2241.83	-1.05641
1594.867	74.29121	12.62996	42.63058	2245.26	-0.86917
1596.796	74.42936	12.64309	43.1075	2248.69	-0.64598
1598.724	74.60711	12.65622	44.17474	2252.12	-0.3912

1600.653	74.8246	12.66935	42.92431	2255.55	-0.12098
1602.581	75.0854	12.68248	42.67537	2258.97	0.14616
1604.51	75.30779	12.69561	41.78324	2262.4	0.39478
1606.438	75.4856	12.70874	40.55649	2265.82	0.60897
1608.367	75.65807	12.72187	39.68409	2269.24	0.77698
1610.295	75.78352	12.735	40.33188	2272.66	0.89118
1612.224	75.86084	12.74813	40.68964	2276.08	0.94695
1614.152	75.9621	12.76126	41.36248	2279.5	0.94362
1616.081	76.0169	12.77439	41.64803	2282.91	0.88422
1618.009	76.03969	12.78752	41.28466	2286.32	0.77645
1619.938	76.08779	12.80065	39.76728	2289.74	0.63199
1621.866	76.23914	12.81378	40.71496	2293.15	0.46371
1623.795	76.3307	12.82691	40.33304	2296.56	0.28565
1625.723	76.31107	12.84004	40.06279	2299.96	0.11276
1627.652	76.30238	12.85317	38.70917	2303.37	-0.04131
1629.58	76.342	12.8663	39.06336	2306.78	-0.16501
1631.509	76.40295	12.87943	39.21631	2310.18	-0.24918
1633.437	76.49734	12.89257	38.51771	2313.58	-0.28923
1635.366	76.46816	12.9057	38.92398	2316.98	-0.28393
1637.294	76.36564	12.91883	39.29	2320.38	-0.23391
1639.223	76.35889	12.93196	39.1243	2323.77	-0.13997
1641.151	76.43169	12.94509	40.34994	2327.17	-0.00847
1643.08	76.43671	12.95822	41.13817	2330.56	0.14713
1645.008	76.48731	12.97135	40.96791	2333.95	0.31247
1646.937	76.63561	12.98448	40.37306	2337.35	0.47156
1648.865	76.87002	12.99761	40.95036	2340.73	0.6092
1650.794	76.98428	13.01074	40.38944	2344.12	0.7103
1652.722	77.07462	13.02387	40.25704	2347.51	0.76265
1654.651	77.3446	13.037	40.71575	2350.89	0.75774
1656.579	77.72157	13.05013	41.0687	2354.27	0.693
1658.508	78.0258	13.06326	40.33472	2357.66	0.57214
1660.436	78.2104	13.07639	41.02681	2361.04	0.40491
1662.365	78.22483	13.08952	40.64322	2364.42	0.20506
1664.293	78.24695	13.10265	39.56868	2367.79	-0.01138
1666.222	78.37113	13.11578	39.83084	2371.17	-0.22711
1668.15	78.41447	13.12891	41.48453	2374.54	-0.42459
1670.078	78.43091	13.14204	41.71865	2377.91	-0.58799
1672.007	78.40596	13.15517	43.01759	2381.28	-0.70322
1673.936	78.31066	13.1683	43.67569	2384.65	-0.76091
1675.864	78.24974	13.18143	44.0915	2388.02	-0.76293
1677.792	78.17509	13.19456	44.39326	2391.39	-0.70688
1679.721	78.13719	13.20769	45.44455	2394.75	-0.59582
1681.65	78.2197	13.22082	45.33473	2398.11	-0.43139
1683.578	78.34418	13.23395	44.32285	2401.48	-0.21575
1685.506	78.35814	13.24708	45.03949	2404.84	0.04555
1687.435	78.33418	13.26021	44.98724	2408.2	0.34278
1689.364	78.23653	13.27334	44.27641	2411.55	0.66458

1691.292	78.16169	13.28647	43.29822	2414.91	0.9969
1693.22	78.121	13.2996	42.25353	2418.26	1.32968
1695.149	78.04971	13.31273	41.74627	2421.62	1.65234
1697.078	78.03891	13.32586	43.60008	2424.97	1.95506
1699.006	77.98472	13.33899	44.22371	2428.32	2.23078
1700.934	77.99049	13.35212	44.56224	2431.67	2.4746
1702.863	78.13734	13.36526	44.39665	2435.01	2.68357
1704.792	78.27206	13.37839	44.66945	2438.36	2.8553
1706.72	78.32323	13.39152	43.13913	2441.7	2.98944
1708.648	78.45259	13.40465	42.41317	2445.04	3.08526
1710.577	78.63376	13.41778	42.00426	2448.38	3.14378
1712.505	78.73244	13.43091	41.97258	2451.72	3.16466
1714.434	78.79178	13.44404	42.93349	2455.06	3.15011
1716.362	78.85786	13.45717	44.11891	2458.39	3.10322
1718.291	78.97639	13.4703	44.26396	2461.73	3.02908
1720.219	79.06274	13.48343	44.40643	2465.06	2.93333
1722.148	79.05682	13.49656	45.05456	2468.39	2.81849
1724.076	79.06808	13.50969	44.8324	2471.72	2.68679
1726.005	79.13465	13.52282	44.28112	2475.05	2.54075
1727.933	79.21645	13.53595	42.93747	2478.38	2.3841
1729.862	79.28805	13.54908	41.98761	2481.71	2.22303
1731.79	79.23579	13.56221	41.56236	2485.03	2.06572
1733.719	79.10325	13.57534	40.81253	2488.35	1.92134
1735.647	79.06261	13.58847	40.16371	2491.67	1.7995
1737.576	78.99935	13.6016	39.83192	2494.99	1.70878
1739.504	78.88786	13.61473	39.88308	2498.31	1.65531
1741.433	78.84927	13.62786	40.78832	2501.63	1.63896
1743.361	78.91879	13.64099	41.01267	2504.94	1.66342
1745.29	78.98307	13.65412	40.70961	2508.26	1.73024
1747.218	79.04273	13.66725	39.75151	2511.57	1.83761
1749.147	79.05404	13.68038	39.61534	2514.88	1.98488
1751.075	79.07043	13.69351	39.81573	2518.19	2.17195
1753.004	79.15357	13.70664	39.50254	2521.5	2.39576
1754.932	79.25758	13.71977	38.82769	2524.8	2.65001
1756.861	79.38585	13.7329	37.5911	2528.11	2.92784
1758.789	79.52944	13.74603	37.58504	2531.41	3.22232
1760.718	79.57808	13.75916	37.78159	2534.71	3.52454
1762.646	79.52043	13.77229	36.4457	2538.01	3.82374
1764.575	79.37282	13.78542	36.38592	2541.31	4.10792
1766.503	79.2277	13.79855	35.28654	2544.61	4.36626
1768.432	79.12646	13.81168	34.89309	2547.9	4.59039
1770.36	79.06938	13.82482	34.16242	2551.2	4.77494
1772.289	79.01443	13.83795	34.09091	2554.49	4.91621
1774.217	78.9782	13.85108	35.05599	2557.78	5.01468
1776.146	79.01154	13.86421	35.25789	2561.07	5.07411
1778.074	79.10733	13.87734	35.88968	2564.36	5.09951
1780.003	79.21145	13.89047	36.0063	2567.65	5.09565

1781.931	79.26289	13.9036	34.91089	2570.93	5.06917
1783.86	79.2761	13.91673	34.43655	2574.22	5.03045
1785.788	79.26154	13.92986	33.01615	2577.5	4.9913
1787.717	79.174	13.94299	32.50053	2580.78	4.96993
1789.645	79.06895	13.95612	33.26653	2584.06	4.97293
1791.574	79.00668	13.96925	34.59502	2587.34	5.00946
1793.502	78.98394	13.98238	36.60179	2590.62	5.08208
1795.431	78.97379	13.99551	37.41981	2593.89	5.18965
1797.359	78.99515	14.00864	37.35509	2597.17	5.332
1799.288	79.00727	14.02177	37.45253	2600.44	5.50195
1801.216	79.02761	14.0349	36.16134	2603.71	5.69083
1803.145	79.13304	14.04803	35.30005	2606.98	5.88932
1805.073	79.24653	14.06116	34.22012	2610.25	6.08794
1807.002	79.28706	14.07429	32.5755	2613.51	6.27752
1808.93	79.29545	14.08742	32.59546	2616.78	6.44974
1810.859	79.32721	14.10055	32.22277	2620.04	6.59889
1812.787	79.3161	14.11368	31.44973	2623.3	6.72487
1814.716	79.31924	14.12681	31.49447	2626.56	6.83089
1816.644	79.29913	14.13994	30.96208	2629.82	6.92363
1818.573	79.21065	14.15307	30.61275	2633.08	7.01163
1820.501	79.11304	14.1662	29.78258	2636.34	7.10557
1822.43	79.03859	14.17933	29.32113	2639.59	7.21523
1824.358	78.98196	14.19246	28.15648	2642.84	7.35097
1826.287	78.90733	14.20559	27.48406	2646.1	7.52073
1828.215	78.88062	14.21872	28.19526	2649.35	7.72676
1830.144	78.93469	14.23185	28.06437	2652.59	7.96683
1832.072	78.96048	14.24498	27.26006	2655.84	8.23644
1834.001	78.94895	14.25811	27.87667	2659.09	8.52878
1835.929	78.93703	14.27124	27.52787	2662.33	8.8347
1837.858	78.94209	14.28437	26.6844	2665.58	9.14048
1839.786	78.92031	14.29751	25.35851	2668.82	9.42949
1841.715	78.9111	14.31064	23.87218	2672.06	9.68358
1843.643	78.89313	14.32377	22.71472	2675.3	9.8842
1845.572	78.81995	14.3369	22.61495	2678.53	10.016
1847.5	78.77524	14.35003	23.41088	2681.77	10.06739
1849.429	78.75976	14.36316	23.06501	2685	10.03138
1851.357	78.78659	14.37629	22.78263	2688.24	9.90552
1853.286	78.86468	14.38942	22.96072	2691.47	9.69332
1855.214	78.96278	14.40255	23.44912	2694.7	9.40187
1857.143	78.94839	14.41568	23.76644	2697.93	9.04109
1859.071	78.79359	14.42881	23.08519	2701.15	8.62233
1861	78.62376	14.44194	22.543	2704.38	8.15696
1862.928	78.52774	14.45507	21.92798	2707.6	7.655
1864.857	78.49664	14.4682	22.14926	2710.83	7.12884
1866.785	78.47913	14.48133	22.11581	2714.05	6.5954
1868.714	78.45552	14.49446	21.58906	2717.27	6.06901
1870.642	78.47366	14.50759	22.062	2720.49	5.56766

1872.571	78.51839	14.52072	21.61233	2723.7	5.10593
1874.499	78.56435	14.53385	22.11499	2726.92	4.69469
1876.428	78.64108	14.54698	21.60073	2730.13	4.34202
1878.356	78.73592	14.56011	22.01926	2733.35	4.05284
1880.285	78.83587	14.57324	22.03231	2736.56	3.82937
1882.213	78.8821	14.58637	22.77967	2739.77	3.67061
1884.142	78.79745	14.5995	22.55312	2742.98	3.5727
1886.07	78.69508	14.61263	21.22284	2746.18	3.52929
1887.999	78.63358	14.62576	20.47338	2749.39	3.53123
1889.927	78.59944	14.63889	19.80378	2752.59	3.57023
1891.856	78.58273	14.65202	18.2976	2755.8	3.63869
1893.784	78.5738	14.66515	19.10688	2759	3.72888
1895.713	78.57806	14.67828	18.73646	2762.2	3.83379
1897.641	78.57861	14.69141	20.164	2765.4	3.94327
1899.57	78.5645	14.70454	20.61447	2768.59	4.04785
1901.498	78.56075	14.71767	21.13237	2771.79	4.1354
1903.427	78.61142	14.7308	20.31098	2774.98	4.20006
1905.355	78.65582	14.74393	18.90159	2778.18	4.23864
1907.284	78.69759	14.75707	17.87314	2781.37	4.25125
1909.212	78.72628	14.7702	16.23618	2784.56	4.24092
1911.141	78.65709	14.78333	16.35041	2787.74	4.20117
1913.069	78.56992	14.79646	16.99849	2790.93	4.1326
1914.998	78.50822	14.80959	16.2751	2794.12	4.04096
1916.926	78.46375	14.82272	17.16103	2797.3	3.93336
1918.855	78.42609	14.83585	17.86778	2800.48	3.81319
1920.783	78.40405	14.84898	17.81725	2803.67	3.68266
1922.712	78.38384	14.86211	17.78009	2806.85	3.5465
1924.64	78.35242	14.87524	17.44221	2810.02	3.41034
1926.569	78.3579	14.88837	17.61568	2813.2	3.27992
1928.497	78.40909	14.9015	16.70831	2816.38	3.16069
1930.426	78.4628	14.91463	15.96721	2819.55	3.05639
1932.354	78.47557	14.92776	15.01832	2822.72	2.97014
1934.283	78.46314	14.94089	14.62793	2825.9	2.90202
1936.211	78.44444	14.95402	16.19628	2829.07	2.85283
1938.14	78.40582	14.96715	17.02176	2832.24	2.82351
1940.068	78.39071	14.98028	17.30837	2835.4	2.81452
1941.997	78.40887	14.99341	16.40384	2838.57	2.82301
1943.925	78.42779	15.00654	15.54938	2841.73	2.84603
1945.854	78.44135	15.01967	15.24672	2844.9	2.88034
1947.782	78.46317	15.0328	13.52445	2848.06	2.92162
1949.711	78.49464	15.04593	12.7476	2851.22	2.9652
1951.639	78.55161	15.05906	12.71393	2854.38	3.00695
1953.568	78.61256	15.07219	13.44495	2857.53	3.04387
1955.496	78.60519	15.08532	14.28958	2860.69	3.07521
1957.425	78.52647	15.09845	14.27631	2863.84	3.09873
1959.353	78.45761	15.11158	13.93983	2867	3.11322
1961.282	78.42144	15.12471	13.49855	2870.15	3.11955

1963.21	78.40549	15.13784	12.49276	2873.3	3.12005
1965.139	78.39329	15.15097	11.25788	2876.45	3.11552
1967.067	78.35001	15.1641	10.20842	2879.6	3.10689
1968.996	78.3103	15.17723	9.87966	2882.74	3.09623
1970.924	78.27494	15.19036	9.36206	2885.89	3.08485
1972.853	78.24414	15.20349	9.79757	2889.03	3.07619
1974.781	78.23331	15.21663	9.79624	2892.17	3.07721
1976.71	78.25361	15.22976	11.01892	2895.31	3.09412
1978.638	78.28107	15.24289	11.65382	2898.45	3.12788
1980.567	78.23593	15.25602	13.51708	2901.59	3.17893
1982.495	78.1376	15.26915	12.6489	2904.73	3.24688
1984.424	78.0667	15.28228	11.19729	2907.86	3.32889
1986.352	78.04984	15.29541	9.83503	2911	3.41988
1988.281	78.06077	15.30854	8.20087	2914.13	3.51396
1990.209	78.0817	15.32167	6.65607	2917.26	3.60704
1992.138	78.11015	15.3348	5.8231	2920.39	3.69343
1994.066	78.14566	15.34793	6.16048	2923.52	3.76686
1995.995	78.17855	15.36106	7.30066	2926.64	3.82171
1997.923	78.20611	15.37419	8.48225	2929.77	3.8553
1999.852	78.27187	15.38732	10.12452	2932.89	3.86724
2001.78	78.36416	15.40045	10.64315	2936.02	3.85858
2003.708	78.42512	15.41358	11.60392	2939.14	3.83196
2005.637	78.41005	15.42671	12.54257	2942.26	3.79218
2007.566	78.32833	15.43984	13.24603	2945.37	3.74593
2009.494	78.27312	15.45297	13.75672	2948.49	3.70015
2011.422	78.24831	15.4661	14.71289	2951.61	3.66134
2013.351	78.22477	15.47923	14.88578	2954.72	3.63528
2015.28	78.2249	15.49236	14.67078	2957.83	3.62348
2017.208	78.21947	15.50549	15.36412	2960.94	3.62567
2019.136	78.21146	15.51862	16.11843	2964.06	3.64038
2021.065	78.21336	15.53175	15.68755	2967.16	3.66601
2022.994	78.18311	15.54488	15.79174	2970.27	3.70168
2024.922	78.14245	15.55801	16.72833	2973.38	3.74551
2026.85	78.13835	15.57114	16.85442	2976.48	3.79345
2028.779	78.13899	15.58427	17.4775	2979.59	3.83942
2030.708	78.11648	15.5974	18.63111	2982.69	3.87568
2032.636	78.07238	15.61053	18.17575	2985.79	3.89381
2034.564	78.03713	15.62366	18.64868	2988.89	3.88589
2036.493	78.0427	15.63679	19.66418	2991.98	3.84403
2038.422	78.06173	15.64992	19.48998	2995.08	3.76245
2040.35	78.08616	15.66305	17.84057	2998.18	3.63875
2042.278	78.1172	15.67618	16.90677	3001.27	3.47235
2044.207	78.12778	15.68932	17.28995	3004.36	3.26387
2046.135	78.15441	15.70245	16.91491	3007.45	3.01695
2048.064	78.18008	15.71558	17.72051	3010.54	2.73535
2049.992	78.18776	15.72871	18.1185	3013.63	2.42349
2051.921	78.19319	15.74184	17.42169	3016.72	2.08754

2053.849	78.19742	15.75497	18.69473	3019.8	1.73576
2055.778	78.21657	15.7681	21.03969	3022.89	1.37799
2057.707	78.24657	15.78123	21.11495	3025.97	1.02477
2059.635	78.23651	15.79436	21.24526	3029.05	0.68751
2061.563	78.1848	15.80749	21.26154	3032.13	0.37665
2063.492	78.13264	15.82062	21.26009	3035.21	0.10152
2065.42	78.11746	15.83375	21.76531	3038.28	-0.12895
2067.349	78.14026	15.84688	22.04819	3041.36	-0.30789
2069.277	78.17152	15.86001	20.89811	3044.44	-0.43256
2071.206	78.19847	15.87314	19.77981	3047.51	-0.50343
2073.135	78.24027	15.88627	20.19297	3050.58	-0.52417
2075.063	78.2564	15.8994	21.13372	3053.65	-0.50257
2076.991	78.2625	15.91253	19.17835	3056.72	-0.44452
2078.92	78.28539	15.92566	19.53277	3059.79	-0.35686
2080.848	78.31913	15.93879	18.88888	3062.85	-0.24998
2082.777	78.35943	15.95192	17.7721	3065.92	-0.13541
2084.705	78.40039	15.96505	17.79927	3068.98	-0.02462
2086.634	78.40325	15.97818	18.03443	3072.04	0.06823
2088.563	78.39895	15.99131	17.82786	3075.1	0.13436
2090.491	78.41649	16.00444	17.1405	3078.16	0.16592
2092.419	78.46729	16.01757	16.41548	3081.22	0.16151
2094.348	78.52039	16.0307	16.67995	3084.28	0.1235
2096.276	78.55877	16.04383	16.27936	3087.33	0.05707
2098.205	78.56937	16.05696	17.23897	3090.39	-0.03537
2100.133	78.59761	16.07009	16.9584	3093.44	-0.14854
2102.062	78.61565	16.08322	17.20189	3096.49	-0.25656
2103.99	78.61465	16.09635	17.78733	3099.54	-0.34639
2105.919	78.61334	16.10948	18.17905	3102.59	-0.40882
2107.847	78.61045	16.12261	17.29942	3105.64	-0.43814
2109.776	78.58877	16.13574	15.65668	3108.68	-0.42562
2111.704	78.61045	16.14888	14.87242	3111.73	-0.36718
2113.633	78.6613	16.16201	13.9124	3114.77	-0.26417
2115.561	78.70443	16.17514	13.54472	3117.81	-0.12278
2117.49	78.69318	16.18827	12.70652	3120.85	0.04497
2119.418	78.65411	16.2014	12.85802	3123.89	0.22355
2121.347	78.64014	16.21453	14.34586	3126.93	0.39925
2123.275	78.63546	16.22766	15.24954	3129.97	0.55928
2125.204	78.60894	16.24079	16.20122	3133	0.69453
2127.132	78.58842	16.25392	16.67843	3136.04	0.80127
2129.061	78.5695	16.26705	17.05981	3139.07	0.87791
2130.989	78.55385	16.28018	18.01932	3142.1	0.92322
2132.918	78.53432	16.29331	17.63468	3145.13	0.94076
2134.846	78.55497	16.30644	17.58411	3148.16	0.9376
2136.775	78.6199	16.31957	16.64576	3151.19	0.9172
2138.703	78.71614	16.3327	15.53284	3154.21	0.88194
2140.632	78.79109	16.34583	14.12936	3157.24	0.83422
2142.56	78.81943	16.35896	13.43186	3160.26	0.77653

2144.489	78.79989	16.37209	12.9258	3163.28	0.70961
2146.417	78.78506	16.38522	11.55345	3166.3	0.63229
2148.346	78.77454	16.39835	11.27321	3169.32	0.54593
2150.274	78.74547	16.41148	12.28711	3172.34	0.45033
2152.203	78.70344	16.42461	12.6492	3175.36	0.34692
2154.131	78.6748	16.43774	13.46118	3178.37	0.23768
2156.06	78.67162	16.45087	13.84963	3181.39	0.12536
2157.988	78.70026	16.464	14.48456	3184.4	0.01244
2159.917	78.73838	16.47713	14.29504	3187.41	-0.09841
2161.845	78.79189	16.49026	15.01454	3190.42	-0.20237
2163.774	78.84357	16.50339	13.47266	3193.43	-0.29431
2165.702	78.8618	16.51652	12.17531	3196.44	-0.37063
2167.631	78.8589	16.52965	11.22625	3199.44	-0.42662
2169.559	78.85381	16.54278	10.08943	3202.45	-0.45602
2171.488	78.82784	16.55591	8.18794	3205.45	-0.45488
2173.416	78.78209	16.56904	7.75838	3208.45	-0.41915
2175.345	78.72891	16.58217	7.98865	3211.45	-0.34389
2177.273	78.69421	16.5953	9.60877	3214.45	-0.224
2179.202	78.64327	16.60844	11.27749	3217.45	-0.05785
2181.13	78.59856	16.62157	11.71376	3220.44	0.15313
2183.059	78.58406	16.6347	11.59589	3223.44	0.40419
2184.987	78.59681	16.64783	12.902	3226.43	0.68767
2186.916	78.60374	16.66096	13.13548	3229.43	0.99123
2188.844	78.59779	16.67409	13.19461	3232.42	1.29879
2190.773	78.6141	16.68722	12.06431	3235.41	1.59318
2192.701	78.65441	16.70035	13.11562	3238.4	1.85826
2194.63	78.71074	16.71348	13.32317	3241.39	2.07863
2196.558	78.77412	16.72661	13.75985	3244.37	2.24197
2198.487	78.82564	16.73974	14.19406	3247.36	2.33796
2200.415	78.87063	16.75287	13.51498	3250.34	2.36186
2202.344	78.89666	16.766	14.47555	3253.32	2.31078
2204.272	78.88024	16.77913	15.3991	3256.3	2.184
2206.201	78.80757	16.79226	15.78116	3259.28	1.98616
2208.129	78.76056	16.80539	16.97815	3262.26	1.72824
2210.058	78.72798	16.81852	16.92888	3265.24	1.42718
2211.986	78.68292	16.83165	17.13521	3268.21	1.10199
2213.915	78.63764	16.84478	16.12093	3271.19	0.77159
2215.843	78.60689	16.85791	15.54298	3274.16	0.45541
2217.772	78.62025	16.87104	14.58728	3277.13	0.17231
2219.7	78.66983	16.88417	14.86815	3280.1	-0.06163
2221.629	78.73399	16.8973	14.96583	3283.07	-0.23496
2223.557	78.81451	16.91043	14.1278	3286.04	-0.34106
2225.486	78.88561	16.92356	13.49329	3289.01	-0.37857
2227.414	78.95326	16.93669	13.39178	3291.97	-0.35075
2229.343	78.98853	16.94982	12.76416	3294.93	-0.26608
2231.271	78.98013	16.96295	12.28876	3297.9	-0.13725
2233.2	78.94196	16.97608	12.26725	3300.86	0.02143

2235.128	78.91041	16.98921	12.72666	3303.82	0.19515
2237.057	78.85674	17.00234	13.15005	3306.78	0.36935
2238.985	78.79304	17.01547	14.37104	3309.73	0.53116
2240.914	78.74841	17.0286	14.73505	3312.69	0.6701
2242.842	78.71122	17.04173	14.6805	3315.65	0.77837
2244.771	78.68855	17.05486	13.63503	3318.6	0.8514
2246.699	78.67413	17.06799	12.58867	3321.55	0.88788
2248.628	78.6425	17.08113	12.06723	3324.5	0.89299
2250.556	78.61395	17.09426	12.4957	3327.45	0.87772
2252.485	78.59589	17.10739	12.25425	3330.4	0.83472
2254.413	78.61832	17.12052	12.12714	3333.35	0.78284
2256.342	78.6512	17.13365	11.7472	3336.29	0.74106
2258.27	78.67992	17.14678	11.88548	3339.24	0.68795
2260.199	78.6889	17.15991	12.28727	3342.18	0.65983
2262.127	78.68117	17.17304	12.85628	3345.12	0.67388
2264.056	78.66437	17.18617	13.3459	3348.06	0.70197
2265.984	78.65456	17.1993	14.46975	3351	0.74775
2267.913	78.65698	17.21243	16.07689	3353.94	0.79572
2269.841	78.64828	17.22556	16.56567	3356.87	0.84607
2271.77	78.62366	17.23869	15.44303	3359.81	0.90987
2273.698	78.59235	17.25182	14.12813	3362.74	0.99287
2275.627	78.54721	17.26495	13.20974	3365.68	1.07804
2277.555	78.51759	17.27808	12.70835	3368.61	1.15274
2279.484	78.51815	17.29121	12.82463	3371.54	1.25401
2281.412	78.54328	17.30434	14.15383	3374.47	1.32746
2283.341	78.57438	17.31747	14.7346	3377.4	1.40883
2285.269	78.59886	17.3306	15.41316	3380.32	1.50979
2287.198	78.60376	17.34373	16.77133	3383.25	1.59832
2289.126	78.60471	17.35686	17.30986	3386.17	1.68954
2291.055	78.61224	17.36999	17.74178	3389.09	1.79506
2292.983	78.61971	17.38312	18.20144	3392.01	1.91817
2294.912	78.62715	17.39625	18.51701	3394.93	2.03182
2296.84	78.63454	17.40938	18.80055	3397.85	2.13428
2298.769	78.64183	17.42251	19.33755	3400.77	2.22875
2300.697	78.6491	17.43564	19.42701	3403.69	2.29457
2302.625	78.65631	17.44877	19.01507	3406.6	2.36777
2304.554	78.66346	17.4619	18.66818	3409.51	2.38268
2306.483	78.67055	17.47503	18.1107	3412.43	2.39787
2308.411	78.6776	17.48816	18.01741	3415.34	2.38016
2310.34	78.68458	17.50129	17.43357	3418.25	2.33149
2312.268	78.69151	17.51442	17.89871	3421.16	2.23691
2314.197	78.6984	17.52755	17.79064	3424.06	2.12018
2316.125	78.70519	17.54069	18.3111	3426.97	2.01208
2318.053	78.71198	17.55382	18.53082	3429.87	1.86729
2319.982	78.71867	17.56695	19.03243	3432.78	1.72552
2321.911	78.72533	17.58008	19.56101	3435.68	1.5692
2323.839	78.73194	17.59321	19.16499	3438.58	1.43817

2325.768	78.73849	17.60634	18.17565	3441.48	1.30004
2327.696	78.74495	17.61947	18.31124	3444.38	1.20457
2329.625	78.75137	17.6326	18.27179	3447.27	1.09661
2331.553	78.75774	17.64573	19.05758	3450.17	1.02202
2333.481	78.76406	17.65886	18.75897	3453.06	0.99273
2335.41	78.77035	17.67199	19.16763	3455.96	0.99745
2337.339	78.77654	17.68512	19.91539	3458.85	1.01755
2339.267	78.78268	17.69825	20.37604	3461.74	1.09927
2341.196	78.7888	17.71138	19.82668	3464.63	1.20082
2343.124	78.79481	17.72451	19.82733	3467.52	1.32921
2345.052	78.8008	17.73764	20.24503	3470.4	1.47548
2346.981	78.80672	17.75077	20.97581	3473.29	1.37818
2348.909	78.81261	17.7639	19.89139	3476.17	1.50527
2350.838	78.81843	17.77703	18.90656	3479.06	1.74856
2352.767	78.82419	17.79016	18.39798	3481.94	1.68385
2354.695	78.82992	17.80329	18.48421	3484.82	1.85529
2356.624	78.83555	17.81642	19.03997	3487.7	1.78551
2358.552	78.84113	17.82955	20.27638	3490.58	1.94105
2360.48	78.84669	17.84268	20.23959	3493.45	2.03221
2362.409	78.85214	17.85581	21.46093	3496.33	1.94849
2364.337	78.8576	17.86894	22.53584	3499.2	1.89055
2366.266	78.86295	17.88207	23.99822	3502.08	2.03321
2368.195	78.86829	17.8952	22.38033	3504.95	2.16199
2370.123	78.87354	17.90833	22.35185	3507.82	2.27653
2372.052	78.87875	17.92146	22.48947	3510.69	1.9695
2373.98	78.8839	17.93459	21.42057	3513.56	2.28702
2375.908	78.88897	17.94772	21.15939	3516.42	2.18334
2377.837	78.89401	17.96085	21.52835	3519.29	1.8631
2379.765	78.89899	17.97398	19.59126	3522.15	2.0105
2381.694	78.90394	17.98711	20.381	3525.01	2.11352
2383.622	78.90878	18.00024	20.78856	3527.88	1.98646
2385.551	78.91362	18.01338	20.55664	3530.74	1.82617
2387.479	78.91836	18.02651	19.89578	3533.6	1.84785
2389.408	78.92304	18.03964	20.2865	3536.45	1.59066
2391.336	78.9277	18.05277	20.51718	3539.31	1.4053
2393.265	78.93229	18.0659	20.25736	3542.16	1.67977
2395.193	78.93684	18.07903	22.125	3545.02	1.66011
2397.122	78.94131	18.09216	22.50873	3547.87	1.30667
2399.05	78.9457	18.10529	22.45089	3550.72	1.27755
2400.979	78.9501	18.11842	23.33474	3553.57	1.19113
2402.907	78.95439	18.13155	22.49971	3556.42	1.15757
2404.836	78.95866	18.14468	21.5745	3559.27	1.2318
2406.764	78.96284	18.15781	21.48641	3562.12	1.29346
2408.693	78.96699	18.17094	21.31308	3564.96	0.95359
2410.621	78.97108	18.18407	20.99532	3567.81	0.88275
2412.55	78.97509	18.1972	20.26696	3570.65	0.90309
2414.478	78.97908	18.21033	20.66833	3573.49	0.75533

2416.407	78.98299	18.22346	20.80235	3576.33	0.63029
2418.335	78.98686	18.23659	20.23733	3579.17	0.59337
2420.264	78.99064	18.24972	20.39482	3582.01	0.37715
2422.192	78.99438	18.26285	18.704	3584.85	0.47137
2424.121	78.99809	18.27598	18.34811	3587.68	0.19551
2426.049	79.00172	18.28911	18.92227	3590.52	-0.02473
2427.978	79.00529	18.30224	20.15995	3593.35	-0.23044
2429.906	79.00881	18.31537	19.75334	3596.18	-0.24365
2431.835	79.0123	18.3285	18.22548	3599.01	-0.28668
2433.763	79.01571	18.34163	18.66192	3601.84	-0.32668
2435.692	79.01907	18.35476	19.53223	3604.67	-0.46695
2437.62	79.02236	18.36789	19.20967	3607.5	-0.01355
2439.549	79.0256	18.38102	20.75119	3610.32	0.4473
2441.477	79.02879	18.39415	18.31852	3613.15	1.04237
2443.406	79.03191	18.40728	18.51014		
2445.334	79.03501	18.42041	18.64098		
2447.263	79.0272	18.43354	18.51969		
2449.191	79.03632	18.44667	17.84262		
2451.12	79.06224	18.4598	17.15134		
2453.048	79.0676	18.47294	18.28766		
2454.977	79.05447	18.48607	18.03343		
2456.905	79.05254	18.4992	19.08512		
2458.834	79.06864	18.51233	19.18447		
2460.762	79.0709	18.52546	18.23736		
2462.691	79.07496	18.53859	19.02767		
2464.619	79.06522	18.55172	17.63095		
2466.548	79.04549	18.56485	17.45078		
2468.476	79.02714	18.57798	17.22111		
2470.405	79.02794	18.59111	16.9226		
2472.333	79.03802	18.60424	17.74812		
2474.262	79.07388	18.61737	18.38998		
2476.19	79.16152	18.6305	20.13732		
2478.119	79.24723	18.64363	19.99259		
2480.047	79.28435	18.65676	20.6864		
2481.976	79.29488	18.66989	20.72777		
2483.904	79.32507	18.68302	19.43009		
2485.833	79.37173	18.69615	19.26474		
2487.761	79.38493	18.70928	19.21326		
2489.69	79.39637	18.72241	18.67881		
2491.618	79.36068	18.73554	19.12004		
2493.547	79.29517	18.74867	19.55084		
2495.475	79.24113	18.7618	20.22593		
2497.404	79.23246	18.77493	20.41471		
2499.332	79.23724	18.78806	20.14223		
2501.261	79.27207	18.80119	19.45645		
2503.189	79.3101	18.81432	17.98861		
2505.118	79.31013	18.82745	16.79879		

2507.046	79.271	18.84058	17.02641
2508.975	79.22404	18.85371	16.92182
2510.903	79.21128	18.86684	17.11084
2512.832	79.23766	18.87997	17.0661
2514.76	79.24207	18.8931	18.2344
2516.689	79.26481	18.90623	18.50858
2518.617	79.25108	18.91936	17.88193
2520.546	79.21254	18.9325	17.3599
2522.474	79.18928	18.94563	17.66045
2524.403	79.22137	18.95876	17.19157
2526.331	79.26006	18.97189	17.56817
2528.26	79.30189	18.98502	18.5087
2530.188	79.34576	18.99815	18.85836
2532.117	79.41302	19.01128	18.45064
2534.045	79.47995	19.02441	18.61455
2535.974	79.54536	19.03754	16.95941
2537.902	79.59649	19.05067	16.27957
2539.831	79.63216	19.0638	16.53182
2541.759	79.61436	19.07693	16.61386
2543.688	79.57292	19.09006	15.81659
2545.616	79.4853	19.10319	16.15739
2547.545	79.38955	19.11632	16.95421
2549.473	79.31637	19.12945	16.5813
2551.402	79.27416	19.14258	15.2847
2553.33	79.23133	19.15571	14.5696
2555.259	79.20184	19.16884	13.68251
2557.187	79.21376	19.18197	14.01834
2559.116	79.28515	19.1951	14.15693
2561.044	79.34923	19.20823	13.11652
2562.973	79.40718	19.22136	12.9735
2564.901	79.44765	19.23449	12.95661
2566.83	79.46697	19.24762	13.7647
2568.758	79.47945	19.26075	12.95874
2570.687	79.49477	19.27388	12.03447
2572.615	79.51849	19.28701	13.07023
2574.544	79.54099	19.30014	13.64417
2576.472	79.52366	19.31327	14.27757
2578.401	79.46424	19.3264	14.82402
2580.329	79.38918	19.33953	14.46651
2582.258	79.31462	19.35266	14.56167
2584.186	79.27392	19.36579	14.13542
2586.115	79.26333	19.37892	15.12881
2588.043	79.25813	19.39205	14.14355
2589.972	79.27712	19.40519	13.76643
2591.9	79.30931	19.41832	13.74037
2593.829	79.37741	19.43145	13.17751
2595.757	79.45938	19.44458	12.87437

2597.686	79.53023	19.45771	12.83113
2599.614	79.60842	19.47084	12.90693
2601.543	79.66119	19.48397	13.95488
2603.471	79.67378	19.4971	14.28551
2605.4	79.68264	19.51023	15.15464
2607.328	79.70815	19.52336	15.21254
2609.257	79.7317	19.53649	14.4594
2611.185	79.757	19.54962	14.40674
2613.114	79.77856	19.56275	13.81294
2615.042	79.77587	19.57588	13.09807
2616.971	79.76286	19.58901	12.77589
2618.899	79.7447	19.60214	12.86336
2620.828	79.72633	19.61527	13.33425
2622.756	79.67737	19.6284	13.43605
2624.685	79.61823	19.64153	13.41263
2626.613	79.55292	19.65466	13.01144
2628.542	79.47561	19.66779	12.77013
2630.47	79.4239	19.68092	13.51281
2632.398	79.41527	19.69405	12.58621
2634.327	79.41618	19.70718	12.88963
2636.256	79.40501	19.72031	12.90032
2638.184	79.43941	19.73344	13.06418
2640.113	79.51783	19.74657	13.84229
2642.041	79.5625	19.7597	15.09734
2643.969	79.60523	19.77283	15.42731
2645.898	79.65913	19.78596	16.37864
2647.826	79.68756	19.79909	18.03656
2649.755	79.67918	19.81222	18.36869
2651.684	79.66364	19.82535	17.67059
2653.612	79.63364	19.83848	17.95884
2655.541	79.59201	19.85161	17.19793
2657.469	79.55794	19.86475	17.10158
2659.397	79.51028	19.87788	16.80424
2661.326	79.4096	19.89101	17.45656
2663.254	79.32647	19.90414	17.62261
2665.183	79.32383	19.91727	17.9647
2667.112	79.35178	19.9304	17.22113
2669.04	79.33542	19.94353	15.82791
2670.969	79.33172	19.95666	14.97673
2672.897	79.34949	19.96979	15.49032
2674.825	79.35641	19.98292	16.17228
2676.754	79.35191	19.99605	17.01687
2678.682	79.37833	20.00918	17.53953
2680.611	79.40487	20.02231	18.93905
2682.54	79.40771	20.03544	19.81125
2684.468	79.3972	20.04857	20.71212
2686.396	79.39346	20.0617	21.18294

2688.325	79.37761	20.07483	21.57609
2690.253	79.39925	20.08796	21.64513
2692.182	79.44501	20.10109	22.70389
2694.11	79.47127	20.11422	23.3395
2696.039	79.48979	20.12735	23.03761
2697.968	79.54534	20.14048	22.94492
2699.896	79.56715	20.15361	23.23821
2701.824	79.54005	20.16674	23.21232
2703.753	79.51965	20.17987	23.7417
2705.681	79.51955	20.193	23.12779
2707.61	79.50258	20.20613	22.17577
2709.538	79.49119	20.21926	20.96003
2711.467	79.47432	20.23239	21.40323
2713.396	79.46809	20.24552	21.94396
2715.324	79.45087	20.25865	21.91396
2717.252	79.4621	20.27178	22.56826
2719.181	79.47382	20.28491	23.91909
2721.109	79.47177	20.29804	25.79854
2723.038	79.48741	20.31117	26.66748
2724.966	79.49249	20.32431	25.32556
2726.895	79.45334	20.33744	25.34209
2728.823	79.43781	20.35057	24.62553
2730.752	79.45387	20.3637	24.40286
2732.68	79.49699	20.37683	24.68752
2734.609	79.54486	20.38996	24.33436
2736.537	79.60066	20.40309	24.41611
2738.466	79.62569	20.41622	25.59629
2740.394	79.63681	20.42935	27.43234
2742.323	79.65063	20.44248	28.19456
2744.251	79.68407	20.45561	28.30378
2746.18	79.71975	20.46874	27.96125
2748.108	79.75347	20.48187	27.00774
2750.037	79.75279	20.495	25.93355
2751.965	79.73357	20.50813	25.5614
2753.894	79.70139	20.52126	24.66214
2755.822	79.66068	20.53439	23.86612
2757.751	79.6049	20.54752	24.57831
2759.679	79.56032	20.56065	25.79348
2761.608	79.51124	20.57378	27.41376
2763.536	79.44276	20.58691	28.38203
2765.465	79.35883	20.60004	28.47514
2767.393	79.29497	20.61317	28.4162
2769.322	79.25445	20.6263	27.73345
2771.25	79.24316	20.63943	26.73174
2773.179	79.26122	20.65256	25.458
2775.107	79.31872	20.66569	25.15702
2777.036	79.37155	20.67882	26.32182

2778.964	79.39515	20.69195	26.60851
2780.893	79.39694	20.70508	26.34873
2782.821	79.43278	20.71821	25.96946
2784.75	79.45918	20.73134	27.27636
2786.678	79.44802	20.74447	26.46078
2788.607	79.42754	20.7576	25.69557
2790.535	79.37876	20.77073	24.3109
2792.464	79.30317	20.78386	23.76225
2794.392	79.24113	20.797	23.11362
2796.321	79.17222	20.81013	22.84486
2798.249	79.13708	20.82326	22.21746
2800.178	79.14736	20.83639	21.23775
2802.106	79.18915	20.84952	21.67372
2804.035	79.20319	20.86265	23.04395
2805.963	79.15985	20.87578	22.80488
2807.892	79.1589	20.88891	23.61037
2809.82	79.24642	20.90204	24.23914
2811.749	79.29675	20.91517	25.06921
2813.677	79.32586	20.9283	25.16046
2815.606	79.32612	20.94143	24.23015
2817.534	79.28835	20.95456	24.94044
2819.463	79.22433	20.96769	24.90126
2821.391	79.15609	20.98082	26.20593
2823.32	79.07233	20.99395	26.37994
2825.248	79.00208	21.00708	27.35742
2827.177	78.92833	21.02021	27.66808
2829.105	78.84388	21.03334	27.70554
2831.034	78.76553	21.04647	27.83224
2832.962	78.68205	21.0596	27.3162
2834.891	78.62722	21.07273	26.40483
2836.819	78.62556	21.08586	28.00474
2838.748	78.66029	21.09899	29.59977
2840.676	78.71476	21.11212	31.79722
2842.605	78.72932	21.12525	32.3751
2844.533	78.73337	21.13838	33.82826
2846.462	78.74489	21.15151	33.13565
2848.39	78.76248	21.16464	31.81115
2850.319	78.76028	21.17777	31.56949
2852.247	78.73431	21.1909	29.6836
2854.176	78.70081	21.20403	29.22542
2856.104	78.64049	21.21716	29.63956
2858.033	78.53484	21.23029	31.12074
2859.961	78.4133	21.24342	32.32992
2861.89	78.34252	21.25656	31.69637
2863.818	78.32704	21.26969	32.58801
2865.747	78.30254	21.28282	32.61337
2867.675	78.24519	21.29595	32.65358

2869.604	78.18061	21.30908	33.559
2871.532	78.18493	21.32221	32.07717
2873.461	78.24223	21.33534	32.08322
2875.389	78.31537	21.34847	32.26
2877.318	78.36629	21.3616	32.95948
2879.246	78.40284	21.37473	32.901
2881.175	78.39565	21.38786	32.41443
2883.103	78.34715	21.40099	32.35567
2885.032	78.30312	21.41412	31.79997
2886.96	78.30186	21.42725	31.60262
2888.889	78.32474	21.44038	32.56939
2890.817	78.29974	21.45351	33.52498
2892.746	78.24637	21.46664	35.23667
2894.674	78.21341	21.47977	36.20145
2896.603	78.17074	21.4929	36.83896
2898.531	78.16587	21.50603	38.15287
2900.46	78.17439	21.51916	39.69729
2902.388	78.2062	21.53229	40.59088
2904.317	78.22041	21.54542	40.52367
2906.245	78.22934	21.55855	41.23092
2908.174	78.18501	21.57168	42.07299
2910.102	78.14427	21.58481	42.56885
2912.031	78.12374	21.59794	41.98002
2913.959	78.13074	21.61107	41.57119
2915.888	78.16682	21.6242	40.74157
2917.816	78.21721	21.63733	41.91933
2919.745	78.24678	21.65046	43.01705
2921.673	78.26064	21.66359	44.27266
2923.602	78.27004	21.67672	45.01969
2925.53	78.31653	21.68985	46.0065
2927.458	78.38707	21.70298	44.58434
2929.387	78.51259	21.71611	44.10869
2931.316	78.60773	21.72925	42.60654
2933.244	78.62611	21.74238	42.13041
2935.173	78.57571	21.75551	42.12746
2937.101	78.55141	21.76864	43.49658
2939.03	78.56345	21.78177	44.82551
2940.958	78.61124	21.7949	46.45044
2942.886	78.65703	21.80803	47.64867
2944.815	78.67745	21.82116	48.00015
2946.744	78.67123	21.83429	47.46267
2948.672	78.73669	21.84742	48.8485
2950.601	78.82285	21.86055	48.85232
2952.529	78.91251	21.87368	49.25769
2954.458	78.99005	21.88681	50.72045
2956.386	79.03386	21.89994	52.40266
2958.314	79.0497	21.91307	53.17045

2960.243	79.05074	21.9262	54.06989
2962.172	79.06192	21.93933	54.28456
2964.1	79.09904	21.95246	53.72825
2966.029	79.13696	21.96559	53.43598
2967.957	79.16077	21.97872	53.53797
2969.885	79.15457	21.99185	54.25618
2971.814	79.1572	22.00498	54.7509
2973.742	79.22572	22.01811	57.04663
2975.671	79.37386	22.03124	58.71204
2977.6	79.47452	22.04437	58.38972
2979.528	79.54796	22.0575	59.74253
2981.457	79.57087	22.07063	61.78239
2983.385	79.5667	22.08376	61.47149
2985.313	79.61133	22.09689	63.43293
2987.242	79.64249	22.11002	64.40853
2989.17	79.65706	22.12315	65.2518
2991.099	79.66622	22.13628	66.32143
2993.028	79.63463	22.14941	67.70027
2994.956	79.56654	22.16254	67.85593
2996.885	79.4671	22.17567	66.34268
2998.813	79.40441	22.18881	67.95392
3000.741	79.36992	22.20194	68.83856
3002.67	79.34646	22.21507	68.95774
3004.598	79.29272	22.2282	71.09514
3006.527	79.26211	22.24133	72.22007
3008.456	79.23394	22.25446	73.14222
3010.384	79.19913	22.26759	75.16556
3012.313	79.16541	22.28072	76.8417
3014.241	79.1305	22.29385	77.99171
3016.169	79.11842	22.30698	78.3143
3018.098	79.12242	22.32011	77.84281
3020.026	79.11595	22.33324	78.62719
3021.955	79.07572	22.34637	79.99484
3023.884	79.01833	22.3595	81.31323
3025.812	78.98585	22.37263	81.88627
3027.74	78.95604	22.38576	82.25457
3029.669	78.98093	22.39889	81.9746
3031.597	79.04751	22.41202	81.979
3033.526	79.13984	22.42515	81.00149
3035.454	79.19936	22.43828	77.98121
3037.383	79.20436	22.45141	74.55178
3039.312	79.17469	22.46454	75.76012
3041.24	79.13265	22.47767	75.32541
3043.168	79.10286	22.4908	75.73776
3045.097	79.063	22.50393	75.32348
3047.025	78.96647	22.51706	76.14059
3048.954	78.85457	22.53019	76.283

3050.882	78.77788	22.54332	76.19917
3052.811	78.78229	22.55645	77.19106
3054.74	78.78612	22.56958	76.93844
3056.668	78.79729	22.58271	77.49343
3058.596	78.8534	22.59584	78.99787
3060.525	78.92037	22.60897	78.73674
3062.453	78.92876	22.6221	78.52223
3064.382	78.91453	22.63523	77.7719
3066.31	78.9288	22.64837	77.6674
3068.239	78.97429	22.6615	77.07029
3070.167	79.02225	22.67463	75.24682
3072.096	79.05003	22.68776	76.34364
3074.024	79.0793	22.70089	75.90808
3075.953	79.13924	22.71402	75.5807
3077.881	79.19271	22.72715	76.73411
3079.81	79.26237	22.74028	76.08859
3081.738	79.28197	22.75341	75.56861
3083.667	79.26289	22.76654	74.99956
3085.595	79.24314	22.77967	74.52073
3087.524	79.21195	22.7928	73.85393
3089.452	79.17396	22.80593	72.60358
3091.381	79.13337	22.81906	72.87563
3093.309	79.10066	22.83219	73.29986
3095.238	79.08951	22.84532	74.34918
3097.166	79.06832	22.85845	74.88638
3099.095	79.053	22.87158	74.91617
3101.023	79.04771	22.88471	74.97462
3102.952	79.04176	22.89784	74.55606
3104.88	79.04327	22.91097	72.77422
3106.809	79.04926	22.9241	71.4916
3108.737	79.07405	22.93723	70.80054
3110.666	79.07909	22.95036	69.06523
3112.594	79.04388	22.96349	68.20597
3114.523	79.01572	22.97662	70.39386
3116.451	78.9724	22.98975	71.41793
3118.38	78.89059	23.00288	73.31116
3120.308	78.81934	23.01601	73.79751
3122.237	78.76748	23.02914	74.75288
3124.165	78.70618	23.04227	74.49138
3126.094	78.6414	23.0554	73.96022
3128.022	78.62038	23.06853	74.0796
3129.951	78.60756	23.08166	71.17702
3131.879	78.57865	23.09479	69.89746
3133.808	78.54315	23.10792	72.38026
3135.736	78.54346	23.12106	72.7163
3137.665	78.57391	23.13419	72.7596
3139.593	78.58732	23.14732	72.28918

3141.522	78.61627	23.16045	72.19705
3143.45	78.62564	23.17358	71.26131
3145.379	78.61213	23.18671	69.57747
3147.307	78.58309	23.19984	69.77612
3149.236	78.5623	23.21297	68.66909
3151.164	78.5727	23.2261	69.54537
3153.093	78.58775	23.23923	72.18062
3155.021	78.59927	23.25236	72.86246
3156.95	78.55946	23.26549	72.49217
3158.878	78.51389	23.27862	73.2193
3160.807	78.49635	23.29175	72.7256
3162.735	78.50871	23.30488	72.69304
3164.664	78.55467	23.31801	71.73639
3166.592	78.61481	23.33114	71.75563
3168.521	78.65521	23.34427	72.64481
3170.449	78.61848	23.3574	73.70018
3172.378	78.53001	23.37053	76.37522
3174.306	78.41929	23.38366	75.23751
3176.235	78.33629	23.39679	74.7182
3178.163	78.26957	23.40992	73.95112
3180.092	78.15939	23.42305	72.34361
3182.02	78.03322	23.43618	73.0625
3183.949	77.92709	23.44931	71.56755
3185.877	77.8762	23.46244	70.77031
3187.806	77.89172	23.47557	70.1864
3189.734	77.94964	23.4887	70.12301
3191.663	77.99535	23.50183	71.30266
3193.591	78.00996	23.51496	71.12968
3195.52	78.00186	23.52809	72.04802
3197.448	77.94348	23.54122	72.40489
3199.377	77.85816	23.55435	74.03874
3201.305	77.77772	23.56748	75.70381
3203.234	77.75453	23.58062	74.48817
3205.162	77.76201	23.59375	74.4404
3207.091	77.76614	23.60688	73.69562
3209.019	77.77767	23.62001	73.70576
3210.948	77.81124	23.63314	73.52457
3212.876	77.88081	23.64627	72.86124
3214.805	77.9484	23.6594	72.87706
3216.733	77.96094	23.67253	72.61888
3218.662	77.92046	23.68566	74.74255
3220.59	77.84927	23.69879	75.91372
3222.519	77.73738	23.71192	75.67977
3224.447	77.58143	23.72505	77.03886
3226.376	77.47319	23.73818	78.38716
3228.304	77.37097	23.75131	79.84382
3230.233	77.31467	23.76444	79.25475

3232.161	77.32584	23.77757	76.91726
3234.09	77.34566	23.7907	76.07141
3236.018	77.33216	23.80383	74.42852
3237.947	77.30882	23.81696	74.6178
3239.875	77.3044	23.83009	71.99977
3241.804	77.29396	23.84322	70.01314
3243.732	77.26795	23.85635	70.77652
3245.661	77.25472	23.86948	71.74691
3247.589	77.21749	23.88261	71.46609
3249.518	77.13589	23.89574	70.51293
3251.446	77.06055	23.90887	70.33263
3253.375	76.98862	23.922	71.23635
3255.303	76.85611	23.93513	71.74966
3257.232	76.76739	23.94826	71.10982
3259.16	76.73735	23.96139	70.2236
3261.089	76.67368	23.97452	71.3412
3263.017	76.56453	23.98765	71.7906
3264.946	76.47224	24.00078	71.61303
3266.874	76.44109	24.01391	69.74565
3268.802	76.47707	24.02704	69.00115
3270.731	76.55507	24.04018	68.57396
3272.66	76.65891	24.05331	68.10716
3274.588	76.71831	24.06644	67.05838
3276.517	76.74995	24.07957	66.46324
3278.445	76.7751	24.0927	66.84597
3280.374	76.76503	24.10583	67.43295
3282.302	76.78969	24.11896	67.49182
3284.23	76.79424	24.13209	68.52085
3286.159	76.71301	24.14522	67.53532
3288.088	76.60397	24.15835	66.19687
3290.016	76.50373	24.17148	65.7106
3291.945	76.44315	24.18461	64.2594
3293.873	76.44059	24.19774	62.58767
3295.802	76.50978	24.21087	61.78075
3297.73	76.61393	24.224	61.88086
3299.658	76.65061	24.23713	62.15603
3301.587	76.60548	24.25026	62.69227
3303.516	76.54208	24.26339	62.96537
3305.444	76.46384	24.27652	63.72309
3307.373	76.36346	24.28965	62.78389
3309.301	76.2851	24.30278	63.37696
3311.229	76.17583	24.31591	63.56799
3313.158	76.05453	24.32904	62.17416
3315.086	75.98692	24.34217	60.65254
3317.015	75.90779	24.3553	60.16975
3318.944	75.84314	24.36843	58.42153
3320.872	75.8431	24.38156	58.72843

3322.801	75.86842	24.39469	59.86837
3324.729	75.89133	24.40782	62.34171
3326.657	75.88296	24.42095	61.77098
3328.586	75.83119	24.43408	64.83059
3330.514	75.76199	24.44721	66.69482
3332.443	75.70175	24.46034	65.23008
3334.372	75.68118	24.47347	65.09282
3336.3	75.66897	24.4866	64.5762
3338.229	75.64828	24.49973	64.9524
3340.157	75.60743	24.51287	66.45445
3342.085	75.49756	24.526	66.37283
3344.014	75.33105	24.53913	66.86243
3345.942	75.20815	24.55226	66.65858
3347.871	75.14196	24.56539	68.0896
3349.8	75.06445	24.57852	68.38344
3351.728	74.9547	24.59165	66.62858
3353.656	74.8245	24.60478	68.19589
3355.585	74.64459	24.61791	68.50428
3357.513	74.48013	24.63104	69.17121
3359.442	74.35058	24.64417	69.4357
3361.37	74.30219	24.6573	68.03307
3363.299	74.28522	24.67043	68.76605
3365.228	74.29485	24.68356	68.6215
3367.156	74.32565	24.69669	69.50176
3369.084	74.31206	24.70982	69.49166
3371.013	74.28441	24.72295	68.1096
3372.941	74.24682	24.73608	68.30322
3374.87	74.19503	24.74921	67.20477
3376.798	74.06683	24.76234	67.32194
3378.727	73.89102	24.77547	66.77228
3380.656	73.71121	24.7886	66.75932
3382.584	73.48729	24.80173	67.07452
3384.512	73.31398	24.81486	66.83832
3386.441	73.21597	24.82799	67.75696
3388.369	73.22115	24.84112	66.86327
3390.298	73.25568	24.85425	66.87581
3392.226	73.22819	24.86738	65.97373
3394.155	73.17603	24.88051	65.61782
3396.083	73.10339	24.89364	67.26375
3398.012	72.99571	24.90677	67.57007
3399.94	72.85007	24.9199	68.72246
3401.869	72.72508	24.93303	68.00095
3403.797	72.57177	24.94616	67.43083
3405.726	72.4669	24.95929	66.8126
3407.654	72.43799	24.97243	66.82026
3409.583	72.45752	24.98556	67.69352
3411.511	72.52079	24.99869	67.24118

3413.44	72.57516	25.01182	66.69872
3415.368	72.61194	25.02495	68.3921
3417.297	72.63044	25.03808	68.57461
3419.225	72.62366	25.05121	66.91677
3421.154	72.64675	25.06434	66.07421
3423.082	72.71674	25.07747	64.81501
3425.011	72.77261	25.0906	62.70471
3426.939	72.76003	25.10373	62.06809
3428.868	72.74976	25.11686	62.59202
3430.796	72.72009	25.12999	62.69319
3432.725	72.67854	25.14312	62.3355
3434.653	72.65337	25.15625	64.06251
3436.582	72.60652	25.16938	63.38252
3438.51	72.4882	25.18251	62.3147
3440.439	72.31149	25.19564	62.58401
3442.367	72.19709	25.20877	62.56926
3444.296	72.21286	25.2219	60.96157
3446.224	72.31236	25.23503	60.40041
3448.153	72.36267	25.24816	59.41174
3450.081	72.40508	25.26129	57.37803
3452.01	72.46146	25.27442	56.52915
3453.938	72.50423	25.28755	56.40499
3455.867	72.53796	25.30068	54.45784
3457.795	72.53919	25.31381	53.56412
3459.724	72.51422	25.32694	54.31414
3461.652	72.53369	25.34007	56.28569
3463.581	72.54951	25.3532	56.54769
3465.509	72.52895	25.36633	56.56983
3467.438	72.53525	25.37946	55.64773
3469.366	72.62964	25.39259	54.52583
3471.295	72.75694	25.40572	54.98788
3473.223	72.87367	25.41885	52.56528
3475.152	72.81705	25.43198	50.4734
3477.08	72.7179	25.44512	48.37979
3479.009	72.74988	25.45825	47.73835
3480.937	72.79214	25.47138	48.92749
3482.866	72.76453	25.48451	48.83365
3484.794	72.78487	25.49764	50.01006
3486.723	72.87207	25.51077	51.23151
3488.651	72.9923	25.5239	52.46129
3490.58	73.10166	25.53703	54.89839
3492.508	73.14365	25.55016	55.5121
3494.437	73.20029	25.56329	57.22837
3496.365	73.23462	25.57642	57.61666
3498.294	73.24258	25.58955	56.92637
3500.222	73.24921	25.60268	57.48305
3502.151	73.18401	25.61581	56.67231

3504.079	73.19993	25.62894	55.81899
3506.008	73.30227	25.64207	55.39741
3507.936	73.39251	25.6552	54.97548
3509.865	73.54178	25.66833	55.32642
3511.793	73.68382	25.68146	55.23566
3513.722	73.79668	25.69459	55.67883
3515.65	73.88339	25.70772	55.29675
3517.579	73.89698	25.72085	54.25949
3519.507	73.86275	25.73398	54.09315
3521.436	73.87634	25.74711	54.38992
3523.364	73.90072	25.76024	54.39769
3525.293	73.89451	25.77337	54.72553
3527.221	73.90672	25.7865	54.66789
3529.15	73.95132	25.79963	54.47397
3531.078	74.02651	25.81276	54.22879
3533.007	74.04915	25.82589	54.73794
3534.935	74.06834	25.83902	53.98718
3536.864	74.08961	25.85215	53.70683
3538.792	74.02175	25.86528	53.37562
3540.721	73.95944	25.87841	54.36991
3542.649	73.91954	25.89154	54.62458
3544.578	73.86908	25.90468	54.70133
3546.506	73.89561	25.91781	55.70957
3548.435	73.96931	25.93094	55.29968
3550.363	74.10608	25.94407	55.08378
3552.292	74.25909	25.9572	55.62732
3554.22	74.29301	25.97033	55.29195
3556.149	74.1866	25.98346	55.1261
3558.077	74.07005	25.99659	54.01504
3560.006	73.97967	26.00972	54.07302
3561.934	73.88558	26.02285	54.01544
3563.863	73.8334	26.03598	54.91775
3565.791	73.89913	26.04911	55.3322
3567.72	74.01789	26.06224	55.16564
3569.648	74.12948	26.07537	54.64498
3571.577	74.25488	26.0885	55.35275
3573.505	74.49848	26.10163	54.86927
3575.434	74.72073	26.11476	53.9139
3577.362	74.84204	26.12789	52.73365
3579.291	74.86292	26.14102	53.13757
3581.219	74.73324	26.15415	53.41092
3583.148	74.68825	26.16728	53.08926
3585.076	74.73299	26.18041	52.76587
3587.005	74.80084	26.19354	51.52153
3588.933	74.8466	26.20667	49.35191
3590.862	74.95001	26.2198	49.0985
3592.79	75.13878	26.23293	47.65464

3594.719	75.25098	26.24606	47.84288
3596.647	75.21129	26.25919	48.68481
3598.576	75.2319	26.27232	51.19279
3600.504	75.3878	26.28545	52.6492
3602.433	75.38744	26.29858	53.47214
3604.361	75.29111	26.31171	53.92834
3606.29	75.32459	26.32484	53.13864
3608.218	75.36579	26.33797	51.80188
3610.146	75.37841	26.3511	50.28641
3612.075	75.3365	26.36424	47.62804
3614.004	75.38039	26.37737	46.25925
3615.932	75.55204	26.3905	45.54436
3617.861	75.53558	26.40363	45.71756
3619.789	75.47286	26.41676	45.57552
3621.718	75.39108	26.42989	45.69791
3623.646	75.36273	26.44302	46.03796
3625.574	75.45583	26.45615	47.93494
3627.503	75.58186	26.46928	48.27705
3629.432	75.6188	26.48241	48.11176
3631.36	75.65257	26.49554	47.86128
3633.289	75.86421	26.50867	48.96155
3635.217	75.9956	26.5218	50.8412
3637.146	75.85251	26.53493	50.7183
3639.074	75.57224	26.54806	51.10252
3641.002	75.35429	26.56119	50.4697
3642.931	75.22929	26.57432	49.59661
3644.86	74.94207	26.58745	50.87591
3646.788	74.81477	26.60058	50.78717
3648.717	74.8443	26.61371	50.77997
3650.645	74.98594	26.62684	51.03029
3652.573	75.19168	26.63997	53.13743
3654.502	75.53396	26.6531	54.09535
3656.43	75.96423	26.66623	53.29677
3658.359	76.3055	26.67936	52.64541
3660.288	76.72168	26.69249	51.72261
3662.216	76.91706	26.70562	50.83202
3664.145	76.60253	26.71875	51.58912
3666.073	76.2591	26.73188	53.10507
3668.001	76.10214	26.74501	54.03706
3669.93	76.06768	26.75814	54.95824
3671.858	76.03461	26.77127	56.12294
3673.787	76.03249	26.7844	55.4893
3675.716	76.08752	26.79753	56.02332
3677.644	76.09287	26.81066	55.89229
3679.573	76.12746	26.82379	55.51547
3681.501	76.22102	26.83693	55.0578
3683.429	76.24956	26.85006	54.67988

3685.358	76.14619	26.86319	54.49576
3687.286	76.13934	26.87632	52.69245
3689.215	76.11819	26.88945	52.24305
3691.144	75.93301	26.90258	50.38339
3693.072	75.89175	26.91571	49.26524
3695	75.97675	26.92884	50.03961
3696.929	76.16538	26.94197	50.47724
3698.857	76.18073	26.9551	50.1271
3700.786	75.94643	26.96823	49.55268
3702.714	75.65488	26.98136	48.94535
3704.643	75.35664	26.99449	47.96576
3706.572	75.22157	27.00762	48.01119
3708.5	75.2319	27.02075	48.45678
3710.428	75.25069	27.03388	46.75678
3712.357	75.26879	27.04701	46.45647
3714.285	75.38007	27.06014	45.41397
3716.214	75.50117	27.07327	44.24346
3718.142	75.63944	27.0864	42.06716
3720.071	75.75904	27.09953	40.86912
3722	75.76898	27.11266	39.95188
3723.928	75.67661	27.12579	39.33062
3725.856	75.2709	27.13892	39.59785
3727.785	74.89967	27.15205	39.53268
3729.713	74.82655	27.16518	40.91118
3731.642	74.98849	27.17831	42.85183
3733.57	75.16573	27.19144	43.23544
3735.499	75.29598	27.20457	42.63852
3737.427	75.43351	27.2177	42.29201
3739.356	75.54632	27.23083	42.64103
3741.284	75.68854	27.24396	41.77512
3743.213	75.82965	27.25709	40.4456
3745.141	75.87171	27.27022	40.42955
3747.07	75.64526	27.28335	39.13425
3748.998	75.25119	27.29649	39.61252
3750.927	75.02534	27.30962	39.40797
3752.855	74.95676	27.32275	37.95832
3754.784	75.01945	27.33588	36.75454
3756.712	75.28516	27.34901	36.74605
3758.641	75.49971	27.36214	36.79619
3760.569	75.54428	27.37527	36.24659
3762.498	75.5912	27.3884	36.12695
3764.426	75.73418	27.40153	38.15691
3766.355	75.88833	27.41466	37.06211
3768.283	76.02151	27.42779	37.51101
3770.212	76.05165	27.44092	37.79541
3772.14	75.93188	27.45405	37.18608
3774.069	75.83373	27.46718	38.55314

3775.997	75.84851	27.48031	38.67056
3777.926	76.0198	27.49344	37.72635
3779.854	76.20126	27.50657	36.84827
3781.783	76.30261	27.5197	37.32687
3783.711	76.44688	27.53283	38.25456
3785.64	76.3562	27.54596	37.33144
3787.568	76.22816	27.55909	36.62439
3789.497	76.0276	27.57222	36.63635
3791.425	75.8046	27.58535	36.89478
3793.354	75.63699	27.59848	37.64156
3795.282	75.31694	27.61161	37.44826
3797.211	75.05048	27.62474	36.99969
3799.139	74.97483	27.63787	37.05112
3801.068	75.11066	27.651	37.10556
3802.996	75.3679	27.66413	37.04461
3804.925	75.53416	27.67726	35.9913
3806.853	75.72678	27.69039	34.43452
3808.782	75.77468	27.70352	33.88084
3810.71	75.58212	27.71665	33.59081
3812.639	75.29326	27.72978	33.52968
3814.567	75.10418	27.74291	33.99518
3816.496	74.92076	27.75605	34.09316
3818.424	74.76607	27.76918	33.89405
3820.353	74.6105	27.78231	33.60599
3822.281	74.43475	27.79544	32.89912
3824.21	74.51497	27.80857	32.99509
3826.138	74.75043	27.8217	32.14585
3828.067	74.8773	27.83483	32.7537
3829.995	74.97059	27.84796	33.30793
3831.924	74.94228	27.86109	33.66075
3833.852	74.87524	27.87422	33.88834
3835.781	74.60756	27.88735	33.71663
3837.709	74.30048	27.90048	33.25197
3839.638	74.24397	27.91361	32.69147
3841.566	74.21478	27.92674	31.86091
3843.495	74.13066	27.93987	31.54179
3845.423	74.01611	27.953	31.05737
3847.352	73.96878	27.96613	32.13284
3849.28	74.04005	27.97926	31.25076
3851.209	74.15549	27.99239	30.51826
3853.137	74.18998	28.00552	29.5311
3855.066	74.139	28.01865	28.04382
3856.994	74.12207	28.03178	27.83153
3858.923	74.08054	28.04491	28.16481
3860.851	74.17348	28.05804	28.3397
3862.78	74.28375	28.07117	28.93271
3864.708	74.40178	28.0843	30.05294

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3870.494	74.36826	28.12369	30.5276
3872.422	74.32332	28.13682	29.87862
3874.351	74.34087	28.14995	29.22653
3876.279	74.37969	28.16308	28.01059
3878.208	74.47444	28.17621	28.01262
3880.136	74.52434	28.18934	27.46206
3882.065	74.45866	28.20247	27.79011
3883.993	74.32601	28.2156	28.06237
3885.922	74.34434	28.22874	28.80404
3887.85	74.62169	28.24187	28.75498
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3922.563	74.19181	28.47821	26.23646
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67.18628	9.42104
67.19941	10.97626
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67.22567	12.39187
67.23881	12.61924
67.25194	12.49857
67.26507	11.7925
67.2782	10.46946
67.29133	9.87781
67.30446	9.41478
67.31759	9.84906
67.33072	10.21428
67.34385	9.50717
67.35698	9.62377
67.37011	9.59534
67.38324	9.37908
67.39637	9.24883
67.4095	9.00612
67.42263	8.50966
67.43576	8.94859
67.44889	9.46525
67.46202	9.48036
67.47515	9.06003
67.48828	8.45304
67.50141	8.39592
67.51454	8.02883
67.52767	7.38215
67.5408	7.5006
67.55393	7.899
67.56706	7.30241
67.58019	7.79017

67.59332	8.60859
67.60645	9.27055
67.61958	9.31455
67.63271	9.87823
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67.65897	8.85422
67.6721	8.5983
67.68523	8.80128
67.69836	7.81158
67.7115	9.07147
67.72463	9.29258
67.73776	9.94872
67.75089	10.13923
67.76402	9.11081
67.77715	8.41503
67.79028	7.84512
67.80341	6.9467
67.81654	7.19931
67.82967	7.03403
67.8428	7.332
67.85593	7.21662
67.86906	7.81032
67.88219	7.76319
67.89532	7.40609
67.90845	7.60773
67.92158	7.36662
67.93471	6.98977
67.94784	7.09786
67.96097	7.13433
67.9741	7.97478
67.98723	8.40918
68.00036	8.55768
68.01349	9.08558
68.02662	10.08778
68.03975	9.78109
68.05288	9.02021
68.06601	8.16797
68.07914	7.81232
68.09227	7.42924
68.1054	8.23842
68.11853	7.49486
68.13166	6.98863
68.14479	7.14809
68.15792	7.53541
68.17106	7.42691
68.18419	7.15287
68.19732	6.97945

68.21045	6.62805
68.22358	6.96009
68.23671	7.44857
68.24984	6.3772
68.26297	5.63314
68.2761	5.60033
68.28923	5.63973
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68.31549	6.11073
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68.34175	5.93968
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68.4074	8.24744
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68.47305	10.12507
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68.7094	10.44904
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68.74879	10.13995
68.76192	10.55685
68.77505	11.28805
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68.80131	11.07533
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68.85383	12.1913
68.86696	12.24234
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68.93261	13.74986
68.94574	13.83814
68.95887	14.17639
68.972	13.92983
68.98513	15.02865
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69.01139	14.94193
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69.05078	15.82807
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69.09017	15.40821
69.10331	15.22155
69.11644	15.406
69.12957	14.9352
69.1427	14.93043
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69.16896	15.81066
69.18209	15.80881
69.19522	15.44354
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69.24774	13.79964
69.26087	13.21749
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69.28713	12.1595
69.30026	13.04917
69.31339	13.1165
69.32652	13.72776
69.33965	14.96032
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69.36591	15.30345
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86.50093	9.19725
86.51406	9.76585
86.52719	10.72462
86.54032	13.17352
86.55345	13.10836
86.56658	13.58057
86.57971	13.50953
86.59284	11.97999
86.60597	10.62378
86.6191	9.74852
86.63223	9.07856
86.64536	8.73742
86.65849	8.93009
86.67162	10.36289
86.68475	10.33994
86.69788	11.10117
86.71101	11.80471

86.72414	12.08772
86.73727	11.92771
86.75041	11.4028
86.76354	11.25485
86.77667	10.24224
86.7898	9.85183
86.80293	10.22981
86.81606	10.09867
86.82919	9.88576
86.84232	11.28508
86.85545	11.59247
86.86858	12.29889
86.88171	12.07022
86.89484	10.5168
86.90797	9.96635
86.9211	9.9061
86.93423	10.32972
86.94736	10.18562
86.96049	9.88378
86.97362	10.1262
86.98675	9.95991
86.99988	10.42645
87.01301	9.35555
87.02614	8.19695
87.03927	8.9846
87.0524	9.4539
87.06553	9.53522
87.07866	10.49698
87.09179	10.55383
87.10492	10.66996
87.11805	10.50089
87.13118	9.4709
87.14431	9.08005
87.15744	8.85069
87.17057	8.84989
87.1837	8.74145
87.19683	8.41845
87.20996	9.09505
87.2231	8.672
87.23623	8.96266
87.24936	8.77772
87.26249	8.49107
87.27562	8.95167
87.28875	9.54277
87.30188	9.83249
87.31501	9.25082
87.32814	9.19425

87.34127	7.67459
87.3544	6.95822
87.36753	7.12958
87.38066	6.7253
87.39379	7.51989
87.40692	8.14331
87.42005	8.52945
87.43318	8.16475
87.44631	6.89473
87.45944	7.0339
87.47257	6.50824
87.4857	7.02834
87.49883	7.10815
87.51196	6.7966
87.52509	8.39734
87.53822	7.87817
87.55135	7.07793
87.56448	6.50742
87.57761	5.40191
87.59074	5.76713
87.60387	5.66246
87.617	6.84247
87.63013	7.46814
87.64326	7.50889
87.65639	8.59953
87.66952	7.68174
87.68266	7.41155
87.69579	6.91296
87.70892	5.82944
87.72205	5.20194
87.73518	4.5903
87.74831	6.30881
87.76144	6.25466
87.77457	6.63049
87.7877	7.49686
87.80083	7.92213
87.81396	8.23383
87.82709	8.09258
87.84022	7.08328
87.85335	6.77563
87.86648	6.49507
87.87961	7.21783
87.89274	6.34589
87.90587	7.33334
87.919	7.94303
87.93213	8.30656
87.94526	7.69745

87.95839	7.17069
87.97152	6.71363
87.98465	7.80347
87.99778	7.75278
88.01091	8.71016
88.02404	8.68762
88.03717	9.15524
88.0503	8.2
88.06343	6.66755
88.07656	5.0588
88.08969	3.96469
88.10282	4.02957
88.11595	5.20572
88.12908	5.31535
88.14222	5.56533
88.15535	5.73035
88.16848	4.95926
88.18161	4.48499
88.19474	4.10333
88.20787	4.89252
88.221	5.01038
88.23413	6.66903
88.24726	7.9306
88.26039	8.87638
88.27352	9.82066
88.28665	10.85756
88.29978	10.94139
88.31291	10.95685
88.32604	10.65257
88.33917	10.8876
88.3523	9.55873
88.36543	9.34173
88.37856	8.33049
88.39169	8.73793
88.40482	9.03043
88.41795	9.81845
88.43108	11.10828
88.44421	11.35313
88.45734	11.74051
88.47047	12.44091
88.4836	12.73123
88.49673	13.89331
88.50986	13.42264
88.52299	13.51596
88.53612	12.97091
88.54925	11.41265
88.56238	11.50449

88.57551	10.54227
88.58864	9.98541
88.60177	9.96807
88.61491	9.83937
88.62804	11.07154
88.64117	10.93989
88.6543	11.30081
88.66743	11.47105
88.68056	10.34969
88.69369	12.03008
88.70682	12.66688
88.71995	13.93396
88.73308	12.67435
88.74621	12.03477
88.75934	12.00181
88.77247	10.8919
88.7856	9.94725
88.79873	9.32886
88.81186	8.08239
88.82499	8.70643
88.83812	8.97447
88.85125	9.30853
88.86438	8.11779
88.87751	8.57581
88.89064	9.42776
88.90377	9.99158
88.9169	10.1337
88.93003	8.97951
88.94316	8.64068
88.95629	8.49513
88.96942	7.63668
88.98255	6.95849
88.99568	6.96309
89.00881	7.04083
89.02194	7.99016
89.03507	7.90776
89.0482	7.46622
89.06133	6.40588
89.07447	5.94686
89.0876	4.48944
89.10073	4.31717
89.11386	5.31226
89.12699	6.48506
89.14012	6.49453
89.15325	7.07276
89.16638	7.32717
89.17951	8.0511

89.19264	7.96152
89.20577	7.49445
89.2189	7.3288
89.23203	7.95763
89.24516	8.52643
89.25829	9.06224
89.27142	7.57687
89.28455	6.97792
89.29768	6.54781
89.31081	6.53672
89.32394	6.41767
89.33707	7.13117
89.3502	7.07636
89.36333	7.79373
89.37646	9.18879
89.38959	9.3055
89.40272	8.40689
89.41585	7.97662
89.42898	7.06471
89.44211	6.77189
89.45524	6.46483
89.46837	6.99843
89.4815	5.86067
89.49463	6.60986
89.50776	6.86951
89.52089	5.63085
89.53403	6.2517
89.54716	6.08235
89.56029	5.55605
89.57342	7.13096
89.58655	7.64102
89.59968	8.45648
89.61281	6.88717
89.62594	6.40633
89.63907	5.48292
89.6522	3.98694
89.66533	3.16511
89.67846	1.81509
89.69159	1.51579
89.70472	1.61935
89.71785	2.12579
89.73098	3.03509
89.74411	4.34725
89.75724	
89.77037	
89.7835	
89.79663	

89.80976
 89.82289
 89.83602
 89.84915
 89.86228
 89.87541
 89.88854
 89.90167
 89.9148
 89.92793
 89.94106
 89.95419
 89.96732
 89.98045
 89.99358
 90.00672
 90.01985

PANI-g-NC-H3							
FTIR		XRD		Raman		Cyclic voltammetry	
516.8373	89.16616	5.29013	34.74884	56.8234	78.54944	<I> (mA)	Ewe/V vs. Ag/AgCl / KCl
518.7657	89.13302	5.30326	34.13414	61.2744	99.88608	0.00348	-4.45509
520.6943	89.15909	5.31639	31.79903	65.7253	98.9522	0.01979	-2.36139
522.6227	89.147	5.32952	29.42849	70.1721	88.6191	0.03536	-1.29663
524.5513	89.00941	5.34265	27.66413	74.6188	75.94609	0.0533	-0.53505
526.4797	88.80531	5.35578	27.3951	79.0613	64.2652	0.06892	-0.03884
528.4083	88.66571	5.36891	26.38923	83.5038	54.74337	0.08522	0.33934
530.3367	88.47706	5.38204	26.86477	87.9421	47.43991	0.10108	0.66169
532.2653	88.37752	5.39517	25.66407	92.3804	41.95462	0.11715	0.92614
534.1937	88.40462	5.4083	26.64159	96.8145	37.78063	0.13327	1.15616
536.1223	88.39137	5.42143	27.65683	101.249	34.46666	0.14895	1.3753
538.0507	88.30631	5.43456	28.14856	105.678	31.66919	0.16663	1.57407
539.9792	88.25783	5.44769	27.54629	110.108	29.15119	0.18245	1.74203
541.9077	88.19238	5.46083	27.34193	114.534	26.76114	0.19873	1.91946
543.8362	88.14434	5.47396	27.62014	118.96	24.41104	0.21437	2.07112
545.7647	88.1162	5.48709	27.82131	123.381	22.0593	0.2308	2.2225
547.6932	88.06061	5.50022	25.81366	127.801	19.69936	0.24634	2.36043
549.6217	87.93343	5.51335	25.71932	132.22	17.35224	0.26273	2.48643
551.5502	87.80958	5.52648	24.55972	136.635	15.05961	0.27845	2.62262
553.4787	87.56567	5.53961	24.99928	141.05	12.87656	0.29466	2.73516
555.4072	87.31409	5.55274	24.60406	145.461	10.86252	0.31049	2.83666
557.3357	87.13511	5.56587	24.94359	149.87	9.07177	0.32667	2.95368
559.2642	87.03102	5.579	25.26845	154.279	7.54438	0.34259	3.04239
561.1927	86.92758	5.59213	25.30164	158.684	6.29891	0.35865	3.13811
563.1212	86.86235	5.60526	23.86722	163.087	5.3287	0.37461	3.23308
565.0497	86.7775	5.61839	21.29342	167.487	4.60179	0.39056	3.31883
566.9782	86.69047	5.63152	19.05658	171.888	4.06505	0.40671	3.43007
568.9067	86.62086	5.64465	17.1697	176.284	3.65147	0.42254	3.52642

570.8352	86.54523	5.65778	15.94373	180.679	3.28991	0.43866	3.62524
572.7637	86.46413	5.67091	16.69416	185.071	2.91512	0.45453	3.75284
574.6922	86.4381	5.68404	19.5028	189.461	2.47719	0.47068	3.86809
576.6207	86.38039	5.69717	21.84111	193.849	1.94876	0.48652	4.00051
578.5492	86.3027	5.7103	23.27205	198.238	1.3287	0.50274	4.13479
580.4777	86.2704	5.72343	24.19323	202.622	0.64246	0.51852	4.25291
582.4062	86.27952	5.73656	24.5981	207.004	-0.06175	0.53475	4.40176
584.3347	86.25455	5.74969	24.55008	211.383	-0.71962	0.55055	4.5349
586.2632	86.23376	5.76282	25.11118	215.761	-1.25968	0.56666	4.67062
588.1917	86.15529	5.77595	21.65991	220.137	-1.61349	0.58259	4.84081
590.1202	86.04349	5.78908	19.95224	224.511	-1.72515	0.59863	4.99204
592.0486	85.96703	5.80221	20.06435	228.882	-1.5597	0.61461	5.1664
593.9772	85.9159	5.81534	22.23891	233.252	-1.10859	0.63066	5.34085
595.9056	85.82112	5.82847	20.93228	237.619	-0.39231	0.64657	5.50665
597.8342	85.73116	5.8416	20.11763	241.985	0.54082	0.66268	5.69007
599.7626	85.60188	5.85473	19.14269	246.348	1.61875	0.67859	5.85854
601.6912	85.4447	5.86786	17.64661	250.71	2.75308	0.6946	5.99948
603.6196	85.31464	5.88099	17.86732	255.069	3.84795	0.71068	6.11707
605.5482	85.23679	5.89412	17.55865	259.426	4.80991	0.7266	6.15314
607.4766	85.17867	5.90725	17.1216	263.781	5.55767	0.74285	6.14734
609.4052	85.15683	5.92038	19.03254	268.132	6.0304	0.7585	6.10033
611.3336	85.15166	5.93352	20.66092	272.483	6.19382	0.77472	6.0426
613.2621	85.12151	5.94665	22.77127	276.832	6.04334	0.7905	5.99771
615.1906	85.08099	5.95978	23.39	281.179	5.60431	0.80674	5.94545
617.1191	85.09309	5.97291	23.43787	285.524	4.92884	0.82253	5.8949
619.0476	85.08035	5.98604	24.07495	289.865	4.09007	0.83878	5.86891
620.9761	85.0516	5.99917	23.68549	294.206	3.17437	0.85458	5.79895
622.9046	84.99905	6.0123	24.05711	298.545	2.27225	0.87067	5.70498
624.8331	84.8863	6.02543	22.93743	302.882	1.46937	0.88667	5.56849
626.7616	84.7557	6.03856	22.52617	307.215	0.83794	0.90259	5.39186
628.6901	84.68298	6.05169	22.28408	311.547	0.43011	0.91879	5.22706
630.6186	84.60135	6.06482	22.1517	315.878	0.27364	0.93449	5.0491
632.5471	84.53442	6.07795	22.50428	320.205	0.37025	0.95085	4.87983
634.4756	84.50097	6.09108	23.48513	324.531	0.69686	0.96644	4.74414
636.4041	84.46715	6.10421	24.16362	328.856	1.20963	0.98283	4.60339
638.3326	84.44618	6.11734	25.49418	333.177	1.84986	0.99847	4.48015
640.2611	84.46062	6.13047	25.31419	337.497	2.55168	1.01481	4.36308
642.1896	84.44855	6.1436	25.03576	341.814	3.25002	1.03054	4.24493
644.1181	84.4383	6.15673	23.43712	346.13	3.88843	1.04674	4.15165
646.0466	84.41972	6.16986	22.95219	350.443	4.42563	1.06273	4.04816
647.975	84.3497	6.18299	21.21473	354.755	4.84031	1.07849	3.94469
649.9036	84.22311	6.19612	21.92662	359.064	5.13285	1.09486	3.8675
651.832	84.11002	6.20925	23.17193	363.372	5.32607	1.11045	3.77908
653.7606	83.97124	6.22238	25.44401	367.676	5.46092	1.12691	3.70769
655.689	83.879	6.23551	28.40756	371.979	5.59276	1.14259	3.63954
657.6176	83.8339	6.24864	28.92598	376.281	5.78363	1.15868	3.57266
659.546	83.78507	6.26177	29.27404	380.58	6.09591	1.17477	3.53209

661.4745	83.67693	6.2749	31.09892	384.876	6.58425	1.19048	3.49305
663.403	83.59008	6.28803	30.15383	389.172	9.03144	1.20684	3.46197
665.3315	83.52728	6.30116	30.30153	393.465	9.91596	1.22258	3.46964
667.26	83.45595	6.31429	29.01915	397.755	10.79946	1.23878	3.47436
669.1885	83.40124	6.32742	28.93038	402.044	11.57565	1.25482	3.50382
671.117	83.3447	6.34055	28.95108	406.332	12.93185	1.27052	3.5499
673.0455	83.20861	6.35368	30.71257	410.616	14.19646	1.28686	3.61214
674.974	83.01347	6.36681	29.64208	414.899	15.90363	1.30258	3.71354
676.9025	82.74737	6.37994	29.01612	419.179	17.72533	1.31872	3.83382
678.831	82.38773	6.39308	30.933	423.457	19.62707	1.33484	3.98581
680.7595	81.97619	6.40621	31.6835	427.734	21.53315	1.35054	4.19955
682.688	81.63097	6.41934	31.2189	432.008	23.2506	1.36687	4.45174
684.6165	81.30727	6.43247	32.90235	436.283	24.82833	1.38279	4.77968
686.545	81.08833	6.4456	33.97339	440.553	26.47303	1.3983	5.16037
688.4735	80.99502	6.45873	35.56996	444.821	28.14858	1.38273	2.83514
690.402	81.02133	6.47186	36.56941	449.088	30.2191	1.3664	1.78608
692.3305	81.1824	6.48499	36.80211	453.352	32.68431	1.35081	1.10044
694.259	81.47993	6.49812	34.36089	457.613	35.50305	1.33461	0.61962
696.1875	81.81941	6.51125	35.37477	461.873	38.66679	1.31694	0.22352
698.116	82.19564	6.52438	35.4228	466.132	41.82122	1.30102	-0.03619
700.0445	82.56503	6.53751	33.67715	470.388	44.47045	1.28524	-0.24085
701.973	82.85023	6.55064	34.9649	474.643	46.34223	1.26896	-0.40194
703.9015	83.02638	6.56377	35.14378	478.895	47.33836	1.25299	-0.52846
705.83	83.10851	6.5769	37.54438	483.146	47.44376	1.23724	-0.64007
707.7585	83.07251	6.59003	38.27989	487.393	46.89078	1.22101	-0.72631
709.687	82.9708	6.60316	38.92413	491.639	45.83691	1.20494	-0.79396
711.6155	82.8576	6.61629	37.96417	495.884	44.39035	1.18918	-0.86534
713.5439	82.74859	6.62942	37.49636	500.127	42.72973	1.17308	-0.92196
715.4725	82.63651	6.64255	38.33862	504.365	41.03238	1.15682	-0.97363
717.4009	82.57708	6.65568	37.92305	508.604	39.3477	1.14109	-1.0216
719.3295	82.51684	6.66881	37.97642	512.841	37.76942	1.12525	-1.05891
721.2579	82.43483	6.68194	39.38037	517.074	36.28173	1.10889	-1.10334
723.1865	82.34112	6.69507	40.36198	521.307	35.04917	1.09292	-1.14214
725.1149	82.23811	6.7082	42.86042	525.535	34.04564	1.07722	-1.17426
727.0435	82.07194	6.72133	41.96166	529.764	33.21103	1.06113	-1.22323
728.9719	81.87822	6.73446	40.62812	533.989	32.60565	1.04486	-1.26383
730.9005	81.64923	6.74759	38.97392	538.214	32.2907	1.02894	-1.30867
732.8289	81.37647	6.76072	38.63463	542.436	32.38169	1.01311	-1.35807
734.7574	81.08683	6.77385	39.35847	546.657	32.83575	0.99721	-1.40093
736.6859	80.79948	6.78698	39.59089	550.874	33.52717	0.98113	-1.46045
738.6144	80.50277	6.80011	38.90707	555.091	34.38155	0.96496	-1.51881
740.5429	80.27191	6.81324	38.26796	559.304	35.03223	0.9477	-1.58606
742.4714	80.10331	6.82637	37.03916	563.516	35.33737	0.93145	-1.67466
744.3999	80.00839	6.8395	37.76223	567.725	35.24166	0.91535	-1.7684
746.3284	79.99934	6.85263	37.74466	571.935	35.12007	0.89932	-1.88743
748.2569	80.09355	6.86577	36.77434	576.14	34.71827	0.88351	-2.03161
750.1854	80.26176	6.8789	37.0841	580.344	34.02951	0.86767	-2.1961

752.1139	80.50863	6.89203	38.6496	584.545	32.97248	0.85171	-2.40562
754.0424	80.79272	6.90516	39.5906	588.747	31.63715	0.83563	-2.63675
755.9709	81.095	6.91829	41.01161	592.945	30.32909	0.81955	-2.88374
757.8994	81.40951	6.93142	38.99356	597.14	28.64383	0.80331	-3.15149
759.8279	81.72189	6.94455	35.71378	601.334	26.68946	0.78731	-3.39459
761.7564	81.99684	6.95768	33.36122	605.526	24.61708	0.77133	-3.62759
763.6849	82.2495	6.97081	33.55247	609.716	22.3197	0.7555	-3.84746
765.6134	82.46014	6.98394	33.24185	613.904	20.58075	0.73961	-4.05614
767.5419	82.60506	6.99707	33.09662	618.09	18.63109	0.7234	-4.2824
769.4704	82.67771	7.0102	33.39801	622.275	17.25401	0.70761	-4.50767
771.3989	82.71514	7.02333	34.26555	626.457	16.73925	0.6917	-4.74911
773.3274	82.6853	7.03646	34.35595	630.637	16.90062	0.67558	-5.02689
775.2559	82.62421	7.04959	33.57094	634.816	17.43545	0.65938	-5.29185
777.1844	82.53212	7.06272	31.06853	638.99	18.15032	0.64332	-5.54385
779.1129	82.39034	7.07585	30.63529	643.165	18.82216	0.62747	-5.75831
781.0414	82.23165	7.08898	29.95509	647.337	19.2735	0.61168	-5.92637
782.9698	82.09368	7.10211	30.14606	651.508	19.471	0.59569	-6.07259
784.8984	81.93902	7.11524	32.20456	655.677	19.56853	0.57955	-6.16654
786.8268	81.77599	7.12837	34.02291	659.842	19.66577	0.56338	-6.22293
788.7554	81.61512	7.1415	37.2463	664.007	19.80112	0.5473	-6.2682
790.6838	81.46188	7.15463	36.15836	668.17	19.95015	0.53142	-6.28357
792.6124	81.32239	7.16776	33.74275	672.329	20.02864	0.51556	-6.28797
794.5408	81.21908	7.18089	31.48803	676.488	19.971	0.49968	-6.28405
796.4694	81.13324	7.19402	29.96063	680.644	19.76803	0.48367	-6.25504
798.3978	81.09503	7.20715	29.43215	684.799	19.41313	0.46749	-6.23389
800.3264	81.10303	7.22028	30.26199	688.951	18.95088	0.45129	-6.1924
802.2548	81.11886	7.23341	31.35611	693.102	18.49083	0.43534	-6.13738
804.1833	81.1231	7.24654	34.78083	697.25	18.00652	0.41939	-6.09784
806.1118	81.16092	7.25967	38.94137	701.398	17.49592	0.4036	-6.04036
808.0403	81.21148	7.2728	42.18945	705.542	16.88287	0.38758	-5.99053
809.9688	81.26998	7.28593	41.27746	709.684	16.0227	0.37161	-5.9388
811.8973	81.34256	7.29906	40.62325	713.826	14.97667	0.35555	-5.88167
813.8258	81.40335	7.31219	40.05094	717.964	13.85505	0.33931	-5.84305
815.7543	81.43868	7.32533	37.48259	722.101	12.97401	0.32332	-5.80208
817.6828	81.49519	7.33846	35.77414	726.235	12.37439	0.30749	-5.76404
819.6113	81.5453	7.35159	33.89922	730.37	11.88467	0.29159	-5.75081
821.5398	81.57878	7.36472	29.76744	734.5	11.43009	0.27568	-5.7311
823.4683	81.6237	7.37785	29.54831	738.629	11.09597	0.25949	-5.72821
825.3968	81.6959	7.39098	29.60282	742.756	10.72448	0.24337	-5.72271
827.3253	81.7508	7.40411	29.21616	746.881	10.34969	0.22726	-5.71955
829.2538	81.79664	7.41724	29.91032	751.004	10.21102	0.21133	-5.73154
831.1823	81.83775	7.43037	29.72063	755.125	10.14148	0.19564	-5.73619
833.1108	81.86643	7.4435	30.47413	759.245	10.48816	0.17957	-5.73416
835.0393	81.88997	7.45663	32.54832	763.362	11.0656	0.16329	-5.75164
836.9678	81.92345	7.46976	34.27537	767.478	11.76244	0.14737	-5.76001
838.8963	81.93574	7.48289	35.7564	771.591	12.19779	0.13159	-5.77644
840.8248	81.93434	7.49602	36.07577	775.703	12.13257	0.1157	-5.7973

842.7533	81.92354	7.50915	38.34091	779.811	11.56951	0.09963	-5.81195
844.6818	81.8878	7.52228	38.91988	783.919	10.7926	0.08345	-5.84412
846.6103	81.82768	7.53541	39.6635	788.026	10.04395	0.06731	-5.87569
848.5388	81.75816	7.54854	39.02571	792.13	9.62136	0.05125	-5.91597
850.4673	81.66349	7.56167	37.41064	796.23	9.49966	0.03525	-5.9838
852.3958	81.57516	7.5748	37.12026	800.331	9.66415	0.01933	-6.07083
854.3243	81.49161	7.58793	38.1322	804.43	10.03364	0.00335	-6.19934
856.2527	81.39424	7.60106	35.3203	808.525	10.57041	0.00776	-3.72223
858.1813	81.27287	7.61419	35.04213	812.62	11.35774		
860.1097	81.14471	7.62732	34.11014	816.711	12.27063		
862.0383	80.99174	7.64045	34.00694	820.802	13.19548		
863.9667	80.81214	7.65358	32.83954	824.889	13.90262		
865.8953	80.63387	7.66671	32.0917	828.977	14.53709		
867.8237	80.4594	7.67984	32.68924	833.061	15.16922		
869.7523	80.31002	7.69297	34.15268	837.143	15.72761		
871.6807	80.23302	7.7061	35.48456	841.225	16.20633		
873.6093	80.20202	7.71923	35.22264	845.303	16.60593		
875.5377	80.21044	7.73236	33.39639	849.379	16.89358		
877.4662	80.2888	7.74549	35.53468	853.453	16.90146		
879.3947	80.41822	7.75862	36.28366	857.528	16.37818		
881.3232	80.54041	7.77175	35.32954	861.599	15.19212		
883.2517	80.65769	7.78489	35.7347	865.668	13.6354		
885.1802	80.74456	7.79802	35.60473	869.735	11.97082		
887.1087	80.79643	7.81115	35.94277	873.8	10.37505		
889.0372	80.83376	7.82428	35.66639	877.863	8.80245		
890.9657	80.84675	7.83741	34.146	881.925	7.25323		
892.8942	80.81393	7.85054	31.77613	885.984	5.87123		
894.8227	80.78479	7.86367	31.23031	890.042	4.67333		
896.7512	80.75883	7.8768	31.46461	894.098	3.79356		
898.6797	80.72047	7.88993	31.55463	898.152	3.34535		
900.6082	80.69774	7.90306	32.82354	902.203	2.82801		
902.5367	80.71404	7.91619	35.95446	906.253	2.22538		
904.4651	80.73516	7.92932	35.80566	910.302	1.68939		
906.3937	80.75475	7.94245	36.0405	914.349	1.13329		
908.3221	80.76107	7.95558	35.74025	918.392	0.47351		
910.2507	80.74972	7.96871	33.74174	922.435	-0.19032		
912.1791	80.74358	7.98184	33.68058	926.474	-0.72468		
914.1077	80.74249	7.99497	34.1308	930.514	-0.97835		
916.0361	80.71992	8.0081	36.334	934.55	-0.83032		
917.9647	80.69321	8.02123	39.38391	938.585	-0.39314		
919.8931	80.67375	8.03436	41.23517	942.617	0.18867		
921.8217	80.6605	8.04749	42.87393	946.65	0.77422		
923.7501	80.62926	8.06062	42.10727	950.678	1.13007		
925.6786	80.59047	8.07375	41.95113	954.705	1.15228		
927.6071	80.52876	8.08688	40.60003	958.732	0.83591		
929.5356	80.45108	8.10001	38.72546	962.755	0.36037		
931.4641	80.37446	8.11314	37.78712	966.776	-0.13245		

933.3926	80.30681	8.12627	37.78641	970.795	-0.55984
935.3211	80.2467	8.1394	39.4243	974.815	-0.79153
937.2496	80.20518	8.15253	38.24415	978.83	-0.89231
939.1781	80.14704	8.16566	36.7555	982.844	-0.81906
941.1066	80.05943	8.17879	36.23991	986.856	-0.50776
943.0351	79.97195	8.19192	34.65908	990.867	-0.1008
944.9636	79.88326	8.20505	35.95026	994.875	0.26489
946.8921	79.79582	8.21818	37.25128	998.882	0.54337
948.8206	79.74132	8.23131	39.51233	1002.88	0.74388
950.7491	79.68953	8.24444	39.76733	1006.89	1.03665
952.6776	79.61655	8.25758	40.38479	1010.89	1.43808
954.6061	79.5388	8.27071	40.69378	1014.89	1.85149
956.5346	79.46367	8.28384	37.97093	1018.89	2.55834
958.4631	79.37137	8.29697	38.54179	1022.88	3.24863
960.3916	79.30168	8.3101	37.70788	1026.87	3.87083
962.3201	79.2514	8.32323	36.36499	1030.87	4.31599
964.2486	79.18855	8.33636	37.47015	1034.86	4.7607
966.1771	79.12949	8.34949	38.64012	1038.84	5.36498
968.1056	79.08087	8.36262	40.1723	1042.83	5.90568
970.0341	79.01453	8.37575	40.53902	1046.81	6.42873
971.9626	78.94153	8.38888	39.54968	1050.8	7.01714
973.8911	78.86923	8.40201	39.4363	1054.78	7.54021
975.8196	78.79092	8.41514	39.16033	1058.75	8.08952
977.748	78.70598	8.42827	40.33127	1062.73	8.55107
979.6766	78.62502	8.4414	39.26226	1066.71	8.77031
981.605	78.54077	8.45453	38.14169	1070.68	8.61751
983.5336	78.45321	8.46766	38.63825	1074.65	8.10252
985.462	78.35436	8.48079	40.83577	1078.62	7.4155
987.3906	78.2516	8.49392	43.40938	1082.59	6.68161
989.319	78.14687	8.50705	45.04187	1086.55	6.00709
991.2476	78.03822	8.52018	43.31008	1090.52	5.50715
993.176	77.92306	8.53331	42.56046	1094.48	5.25138
995.1046	77.82993	8.54644	42.11671	1098.44	5.15784
997.033	77.75109	8.55957	41.49313	1102.4	5.13948
998.9615	77.65698	8.5727	39.76162	1106.35	5.21264
1000.89	77.57353	8.58583	38.58776	1110.3	5.28044
1002.819	77.50726	8.59896	39.43011	1114.26	5.41361
1004.747	77.42218	8.61209	40.9332	1118.21	5.63948
1006.676	77.34795	8.62522	42.51136	1122.16	5.99832
1008.604	77.30134	8.63835	43.45258	1126.1	6.4591
1010.533	77.26065	8.65148	43.75179	1130.05	7.02574
1012.461	77.21532	8.66461	44.47612	1133.99	7.71357
1014.39	77.17809	8.67774	46.01329	1137.93	8.4985
1016.318	77.14412	8.69087	48.98128	1141.87	9.37369
1018.247	77.11224	8.704	48.83141	1145.81	10.29417
1020.175	77.08561	8.71714	48.14659	1149.75	10.9613
1022.104	77.0708	8.73027	47.09248	1153.68	11.27306

1024.032	77.05576	8.7434	45.73963	1157.61	11.61285
1025.96	77.06035	8.75653	44.41485	1161.54	12.26913
1027.889	77.09695	8.76966	45.24848	1165.47	13.03871
1029.818	77.14005	8.78279	45.90939	1169.4	13.75685
1031.746	77.17941	8.79592	47.01528	1173.32	14.42725
1033.674	77.22049	8.80905	47.61823	1177.25	15.05443
1035.603	77.24512	8.82218	49.41129	1181.17	15.62521
1037.531	77.26125	8.83531	49.39241	1185.09	16.03144
1039.46	77.25902	8.84844	48.65196	1189.01	16.28456
1041.388	77.23461	8.86157	48.58476	1192.92	16.41188
1043.317	77.20803	8.8747	49.20753	1196.84	16.46367
1045.245	77.18324	8.88783	49.67347	1200.75	16.55846
1047.174	77.13694	8.90096	50.70136	1204.66	16.65738
1049.102	77.08624	8.91409	50.51548	1208.57	16.76493
1051.031	77.03522	8.92722	50.65734	1212.47	17.26229
1052.959	76.98058	8.94035	48.29539	1216.38	17.87578
1054.888	76.93466	8.95348	46.96979	1220.28	18.86058
1056.816	76.89696	8.96661	46.91137	1224.18	20.24524
1058.745	76.84439	8.97974	45.17556	1228.08	22.07878
1060.673	76.79836	8.99287	46.06719	1231.98	24.12223
1062.602	76.75469	9.006	46.95211	1235.87	26.14285
1064.53	76.69946	9.01913	47.38936	1239.77	28.07832
1066.459	76.64966	9.03226	47.44069	1243.66	29.92352
1068.387	76.61118	9.04539	45.81435	1247.55	31.4979
1070.316	76.57433	9.05852	44.60387	1251.44	32.9127
1072.244	76.56964	9.07165	44.1828	1255.33	34.2044
1074.173	76.58333	9.08478	43.25006	1259.21	35.31774
1076.101	76.59232	9.09791	43.2407	1263.1	36.45207
1078.03	76.60178	9.11104	40.96178	1266.98	37.67736
1079.958	76.62244	9.12417	40.52016	1270.86	39.05261
1081.887	76.6213	9.1373	39.46947	1274.73	40.57062
1083.815	76.60269	9.15043	39.31271	1278.61	42.30324
1085.744	76.59361	9.16356	39.20308	1282.48	44.40225
1087.672	76.58783	9.1767	38.71207	1286.35	47.07621
1089.601	76.57114	9.18983	38.83123	1290.23	50.49585
1091.529	76.56847	9.20296	39.93382	1294.09	54.76219
1093.458	76.57767	9.21609	40.45879	1297.96	59.87466
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1097.315	76.58722	9.24235	39.37368	1305.69	71.56727
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1101.172	76.63552	9.26861	41.48374	1313.41	83.20606
1103.1	76.67381	9.28174	42.77177	1317.27	88.27549
1105.029	76.71063	9.29487	41.60903	1321.13	92.55935
1106.957	76.72824	9.308	41.0321	1324.98	95.9337
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1110.814	76.73647	9.33426	39.59803	1332.68	99.68108
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1114.671	76.71099	9.36052	37.62079	1340.38	99.33658
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1128.171	76.77899	9.45243	39.25181	1367.26	76.20253
1130.099	76.79402	9.46556	39.18572	1371.09	71.68218
1132.028	76.7878	9.47869	38.6661	1374.92	67.41024
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1139.742	76.68716	9.53121	35.25575	1390.23	54.4435
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1143.599	76.57721	9.55747	34.55582	1397.87	50.07138
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1147.456	76.45911	9.58373	34.26985	1405.51	46.44507
1149.384	76.4252	9.59686	33.644	1409.32	44.84142
1151.313	76.40408	9.60999	31.50572	1413.14	43.37972
1153.241	76.40037	9.62312	31.7857	1416.95	42.08793
1155.17	76.40658	9.63625	30.98995	1420.76	40.89397
1157.098	76.42352	9.64939	29.81689	1424.57	39.74076
1159.027	76.44092	9.66252	28.47467	1428.37	38.59517
1160.955	76.45541	9.67565	30.26951	1432.18	37.5093
1162.884	76.46729	9.68878	31.31092	1435.98	36.43377
1164.812	76.46333	9.70191	32.63291	1439.78	35.39012
1166.741	76.44173	9.71504	34.45186	1443.58	34.33673
1168.669	76.43754	9.72817	33.74334	1447.38	33.3378
1170.598	76.43916	9.7413	33.27915	1451.17	32.423
1172.526	76.43919	9.75443	34.94548	1454.97	31.62777
1174.455	76.46213	9.76756	34.43893	1458.76	30.97456
1176.383	76.49511	9.78069	32.70314	1462.55	30.56092
1178.312	76.51433	9.79382	31.61754	1466.34	30.33748
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1182.169	76.59155	9.82008	34.55041	1473.91	30.21065
1184.097	76.61842	9.83321	35.48244	1477.7	30.48189
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1189.883	76.63274	9.8726	36.39326	1489.04	32.26111
1191.811	76.59971	9.88573	37.71551	1492.81	33.021
1193.74	76.56432	9.89886	36.86855	1496.59	33.76931
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1201.454	76.48984	9.95138	34.77926	1511.67	36.45143
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1205.311	76.48914	9.97764	35.17623	1519.2	38.11506
1207.239	76.50084	9.99077	35.40744	1522.96	39.22024
1209.168	76.50374	10.0039	33.16159	1526.72	40.66986
1211.096	76.50742	10.01703	33.52121	1530.48	42.54176
1213.025	76.51746	10.03016	33.05604	1534.24	44.76158
1214.953	76.53468	10.04329	30.70486	1537.99	47.20113
1216.882	76.55159	10.05642	31.02911	1541.75	49.84114
1218.81	76.55983	10.06955	31.7206	1545.5	52.63258
1220.739	76.56561	10.08268	32.35424	1549.25	55.68727
1222.667	76.57759	10.09581	32.82012	1553	58.91004
1224.596	76.58955	10.10895	32.77529	1556.75	62.39296
1226.524	76.59994	10.12208	34.06856	1560.49	65.75669
1228.453	76.61049	10.13521	33.48744	1564.24	69.11825
1230.381	76.6199	10.14834	33.66779	1567.98	72.45237
1232.31	76.62896	10.16147	34.3349	1571.72	75.49736
1234.238	76.62932	10.1746	35.2503	1575.46	77.96907
1236.167	76.61156	10.18773	36.55192	1579.19	79.65737
1238.095	76.59195	10.20086	36.83955	1582.93	80.45509
1240.024	76.58456	10.21399	35.03982	1586.66	80.28136
1241.952	76.58482	10.22712	32.37423	1590.39	79.15855
1243.881	76.57406	10.24025	32.11415	1594.12	77.00998
1245.809	76.56389	10.25338	33.30829	1597.85	74.02689
1247.738	76.54855	10.26651	32.77616	1601.58	70.45813
1249.666	76.51363	10.27964	31.30934	1605.3	66.2084
1251.595	76.48961	10.29277	30.69888	1609.02	61.28964
1253.523	76.49677	10.3059	31.57066	1612.74	55.7262
1255.452	76.52804	10.31903	29.73428	1616.46	49.93867
1257.38	76.60036	10.33216	29.26488	1620.18	44.18943
1259.309	76.70403	10.34529	29.38475	1623.9	38.83885
1261.237	76.82085	10.35842	30.39497	1627.61	33.86059
1263.166	76.95631	10.37155	30.80581	1631.32	29.24797
1265.094	77.10284	10.38468	32.43071	1635.04	25.23086
1267.023	77.24279	10.39781	34.09658	1638.74	21.89321
1268.951	77.36848	10.41094	33.66348	1642.45	19.21444
1270.88	77.45943	10.42407	33.14051	1646.16	17.1057
1272.808	77.50177	10.4372	33.51638	1649.86	15.59415
1274.737	77.51196	10.45033	32.25292	1653.56	14.49332
1276.665	77.50749	10.46346	32.1378	1657.26	13.7475
1278.594	77.49177	10.47659	34.403	1660.96	12.99343
1280.522	77.48743	10.48972	34.60944	1664.66	12.29451
1282.451	77.50109	10.50285	33.17118	1668.36	11.65127
1284.379	77.51294	10.51598	31.76426	1672.05	11.14221
1286.308	77.52249	10.52911	30.93048	1675.74	10.66499
1288.236	77.54107	10.54224	28.68282	1679.43	10.10608
1290.165	77.56042	10.55537	28.21988	1683.12	9.36509
1292.093	77.58329	10.5685	27.78063	1686.81	8.52817
1294.022	77.60966	10.58164	28.29998	1690.5	8.06361

1295.95	77.62672	10.59477	27.98263	1694.18	7.05999
1297.879	77.63693	10.6079	31.20506	1697.86	6.41176
1299.807	77.64831	10.62103	30.59044	1701.54	6.22952
1301.736	77.65579	10.63416	30.12159	1705.22	6.22784
1303.664	77.66517	10.64729	29.09614	1708.9	6.0216
1305.593	77.6818	10.66042	29.68831	1712.57	5.6378
1307.521	77.70502	10.67355	30.34638	1716.24	5.18054
1309.45	77.73261	10.68668	31.77838	1719.92	4.80381
1311.378	77.76582	10.69981	31.80783	1723.59	4.61543
1313.307	77.80194	10.71294	31.50101	1727.26	4.60952
1315.235	77.82755	10.72607	30.49769	1730.92	4.81492
1317.164	77.84937	10.7392	31.72288	1734.59	5.08616
1319.092	77.87238	10.75233	30.84031	1738.25	5.21114
1321.021	77.88733	10.76546	30.75858	1741.91	5.13471
1322.949	77.91025	10.77859	31.68698	1745.57	4.81796
1324.878	77.9375	10.79172	32.94778	1749.23	4.30609
1326.806	77.95684	10.80485	33.44382	1752.89	3.73467
1328.734	77.97148	10.81798	34.40509	1756.54	3.23968
1330.663	77.98768	10.83111	34.67948	1760.2	2.84069
1332.592	77.99513	10.84424	34.5604	1763.85	2.54322
1334.52	77.99922	10.85737	34.10902	1767.5	2.40745
1336.448	78.00652	10.8705	33.4896	1771.15	2.51297
1338.377	78.00579	10.88363	33.29067	1774.79	2.86651
1340.306	77.99577	10.89676	32.26609	1778.44	3.48729
1342.234	77.97912	10.90989	32.18111	1782.08	4.11774
1344.162	77.94176	10.92302	32.99524	1785.72	4.65431
1346.091	77.89847	10.93615	33.15025	1789.36	5.14362
1348.02	77.86251	10.94928	35.95349	1793	5.42713
1349.948	77.82862	10.96241	37.33067	1796.64	5.32853
1351.876	77.79797	10.97554	39.39993	1800.27	5.00848
1353.805	77.7719	10.98867	39.48887	1803.9	4.54595
1355.734	77.74541	11.0018	38.97703	1807.54	3.9771
1357.662	77.71437	11.01493	36.87119	1811.17	3.32332
1359.59	77.68513	11.02806	33.64372	1814.8	2.59455
1361.519	77.65534	11.0412	32.38592	1818.42	1.85681
1363.448	77.60981	11.05433	32.24133	1822.05	1.13879
1365.376	77.54778	11.06746	32.26459	1825.67	0.45414
1367.304	77.47321	11.08059	32.30929	1829.29	-0.20653
1369.233	77.40905	11.09372	32.46889	1832.91	-0.81428
1371.161	77.35661	11.10685	34.18039	1836.53	-1.32905
1373.09	77.30477	11.11998	34.46329	1840.15	-1.69533
1375.018	77.27274	11.13311	34.1083	1843.76	-1.91845
1376.947	77.26862	11.14624	32.59402	1847.37	-1.91662
1378.875	77.27942	11.15937	32.14794	1850.99	-1.70196
1380.804	77.30551	11.1725	32.24865	1854.6	-1.33516
1382.732	77.37393	11.18563	33.45379	1858.21	-0.84619
1384.661	77.44318	11.19876	34.55349	1861.81	-0.27482

1386.589	77.51966	11.21189	33.41685	1865.42	0.55321
1388.518	77.59724	11.22502	34.85453	1869.02	1.58361
1390.446	77.63789	11.23815	35.23176	1872.62	2.36935
1392.375	77.65018	11.25128	34.77088	1876.22	3.07021
1394.303	77.64076	11.26441	33.75141	1879.82	3.64805
1396.232	77.61307	11.27754	34.22891	1883.42	3.9837
1398.16	77.55855	11.29067	34.77485	1887.01	3.84402
1400.089	77.48116	11.3038	33.74548	1890.61	3.65095
1402.017	77.40189	11.31693	34.77412	1894.2	3.09504
1403.946	77.31783	11.33006	33.79752	1897.79	2.50953
1405.874	77.26512	11.34319	32.39403	1901.38	2.05984
1407.803	77.23467	11.35632	32.64979	1904.97	2.05173
1409.731	77.21439	11.36945	31.27189	1908.55	2.01181
1411.66	77.20678	11.38258	31.07121	1912.13	1.79416
1413.588	77.22242	11.39571	29.55095	1915.72	1.53306
1415.517	77.23811	11.40884	29.10936	1919.3	1.46323
1417.445	77.26684	11.42197	29.69092	1922.88	1.71316
1419.374	77.31059	11.4351	28.68583	1926.45	2.21548
1421.302	77.32893	11.44823	29.09785	1930.03	2.75934
1423.231	77.35336	11.46136	28.04358	1933.6	3.29414
1425.159	77.38445	11.47449	26.4868	1937.18	3.71389
1427.088	77.39847	11.48762	26.52016	1940.75	3.99253
1429.016	77.40215	11.50076	25.44777	1944.31	4.00938
1430.945	77.41782	11.51389	26.51241	1947.88	3.91642
1432.873	77.4536	11.52702	26.03713	1951.45	3.7457
1434.802	77.48985	11.54015	27.40858	1955.01	3.50339
1436.73	77.53096	11.55328	29.10762	1958.57	3.22879
1438.659	77.57428	11.56641	28.60827	1962.14	2.98474
1440.587	77.59511	11.57954	28.90353	1965.7	2.77839
1442.516	77.61202	11.59267	28.64387	1969.25	2.60576
1444.444	77.65888	11.6058	27.53392	1972.81	2.43113
1446.373	77.7337	11.61893	27.33327	1976.36	2.2332
1448.301	77.81401	11.63206	26.93626	1979.92	2.01847
1450.23	77.91333	11.64519	28.08974	1983.47	1.81243
1452.158	78.02145	11.65832	29.17997	1987.02	1.65847
1454.087	78.12787	11.67145	30.36103	1990.56	1.61878
1456.015	78.22306	11.68458	29.63341	1994.11	1.74999
1457.944	78.31701	11.69771	28.5466	1997.66	2.0405
1459.872	78.47218	11.71084	28.51295	2001.2	2.48564
1461.801	78.65613	11.72397	27.07533	2004.74	3.01152
1463.729	78.83499	11.7371	25.99049	2008.28	3.63222
1465.658	78.98869	11.75023	24.69881	2011.82	4.20905
1467.586	79.10973	11.76336	26.06896	2015.36	4.55999
1469.515	79.2012	11.77649	26.86975	2018.89	4.62182
1471.443	79.2757	11.78962	27.92308	2022.42	4.38507
1473.372	79.31441	11.80275	26.84004	2025.96	3.93886
1475.3	79.30379	11.81588	25.39694	2029.49	3.40033

1477.229	79.30484	11.82901	24.83142	2033.02	2.84274
1479.157	79.29467	11.84214	23.39436	2036.54	2.2671
1481.086	79.2331	11.85527	23.26367	2040.07	1.70917
1483.014	79.15234	11.8684	26.12304	2043.59	1.20291
1484.943	79.10094	11.88153	26.08618	2047.11	0.65972
1486.871	79.11329	11.89466	27.73038	2050.63	0.15726
1488.8	79.15157	11.90779	29.3201	2054.15	-0.13566
1490.728	79.2207	11.92092	28.7273	2057.67	-0.28803
1492.657	79.31215	11.93405	26.36318	2061.19	-0.22465
1494.585	79.52756	11.94718	25.09614	2064.7	-0.04875
1496.514	79.7543	11.96031	23.39569	2068.21	0.18059
1498.442	79.96473	11.97345	20.62346	2071.73	0.6431
1500.371	80.16648	11.98658	21.86398	2075.23	0.89723
1502.299	80.37981	11.99971	23.40234	2078.74	1.36084
1504.228	80.60171	12.01284	21.49476	2082.25	1.87482
1506.156	80.7551	12.02597	23.1448	2085.75	2.18965
1508.085	80.85499	12.0391	25.60332	2089.26	2.18201
1510.013	80.93417	12.05223	24.34995	2092.76	1.9562
1511.942	80.99502	12.06536	25.2322	2096.26	1.56606
1513.87	81.04441	12.07849	26.00361	2099.76	1.20986
1515.799	81.06586	12.09162	24.87457	2103.25	0.89045
1517.727	81.06463	12.10475	23.08045	2106.75	0.84477
1519.656	81.09238	12.11788	23.27722	2110.24	0.96283
1521.584	81.18987	12.13101	22.71715	2113.73	0.98208
1523.513	81.19578	12.14414	22.42547	2117.22	0.79248
1525.441	81.18925	12.15727	23.41664	2120.71	0.44256
1527.37	81.18221	12.1704	24.75663	2124.2	0.12275
1529.298	81.20788	12.18353	25.00985	2127.68	-0.06661
1531.227	81.25796	12.19666	27.61448	2131.17	-0.10448
1533.155	81.27683	12.20979	29.27081	2134.65	0.06467
1535.084	81.2758	12.22292	30.86899	2138.13	0.38391
1537.012	81.2952	12.23605	31.9049	2141.61	0.83299
1538.941	81.29459	12.24918	32.95713	2145.09	1.26177
1540.869	81.27005	12.26231	33.52526	2148.56	1.53428
1542.798	81.22487	12.27544	32.48521	2152.04	1.52762
1544.726	81.15473	12.28857	30.1117	2155.51	1.23047
1546.655	81.171	12.3017	28.92333	2158.98	0.71151
1548.583	81.16193	12.31483	27.89942	2162.45	0.05532
1550.512	81.10961	12.32796	28.25975	2165.92	-0.57866
1552.44	81.06657	12.34109	27.83746	2169.39	-1.07652
1554.369	81.02986	12.35422	29.58364	2172.85	-1.31191
1556.297	81.03349	12.36735	29.6361	2176.32	-1.27566
1558.226	81.03513	12.38048	30.98615	2179.78	-0.91926
1560.154	80.99266	12.39361	32.40039	2183.24	-0.40855
1562.083	80.93981	12.40674	31.88812	2186.7	0.30334
1564.011	80.90411	12.41987	31.99911	2190.16	1.13204
1565.94	80.83865	12.43301	31.95876	2193.61	1.9018

1567.868	80.77302	12.44614	31.34395	2197.06	2.48799
1569.797	80.7097	12.45927	30.13515	2200.52	2.88365
1571.725	80.66219	12.4724	28.70705	2203.97	3.12828
1573.654	80.68028	12.48553	29.44231	2207.42	3.17831
1575.582	80.62704	12.49866	29.33406	2210.86	2.90617
1577.511	80.56413	12.51179	30.0054	2214.31	2.37091
1579.439	80.50816	12.52492	30.99497	2217.76	1.96538
1581.368	80.4558	12.53805	31.71992	2221.2	1.39986
1583.296	80.44085	12.55118	34.31907	2224.64	0.84798
1585.225	80.45513	12.56431	33.74105	2228.08	0.31492
1587.153	80.47543	12.57744	33.93043	2231.52	-0.16429
1589.082	80.53669	12.59057	34.58729	2234.96	-0.67793
1591.01	80.65967	12.6037	36.06085	2238.39	-1.2607
1592.939	80.80912	12.61683	37.1327	2241.83	-1.88319
1594.867	80.99602	12.62996	38.12856	2245.26	-2.46274
1596.796	81.21987	12.64309	38.68251	2248.69	-2.9551
1598.724	81.45074	12.65622	38.86393	2252.12	-3.31842
1600.653	81.65434	12.66935	39.90679	2255.55	-3.5139
1602.581	81.84171	12.68248	40.19251	2258.97	-3.46245
1604.51	82.02795	12.69561	39.15582	2262.4	-3.21794
1606.438	82.17425	12.70874	40.11511	2265.82	-2.71687
1608.367	82.2836	12.72187	40.33116	2269.24	-2.04542
1610.295	82.3721	12.735	39.29587	2272.66	-1.17182
1612.224	82.42579	12.74813	37.29019	2276.08	-0.12425
1614.152	82.44476	12.76126	36.34731	2279.5	0.89248
1616.081	82.45981	12.77439	35.71104	2282.91	1.71195
1618.009	82.47372	12.78752	35.54368	2286.32	2.26721
1619.938	82.49202	12.80065	36.88716	2289.74	2.66907
1621.866	82.53184	12.81378	37.10391	2293.15	2.8435
1623.795	82.61668	12.82691	38.47919	2296.56	2.76831
1625.723	82.70221	12.84004	39.98975	2299.96	2.59817
1627.652	82.77728	12.85317	41.84345	2303.37	2.4278
1629.58	82.85047	12.8663	41.08329	2306.78	2.1966
1631.509	82.9344	12.87943	40.43065	2310.18	1.88678
1633.437	83.01761	12.89257	41.72924	2313.58	1.55231
1635.366	83.11385	12.9057	41.64678	2316.98	1.17996
1637.294	83.20888	12.91883	42.04399	2320.38	0.96219
1639.223	83.31311	12.93196	41.28672	2323.77	0.96567
1641.151	83.45935	12.94509	40.44976	2327.17	1.12874
1643.08	83.59097	12.95822	39.53284	2330.56	1.3305
1645.008	83.6965	12.97135	39.91888	2333.95	1.48031
1646.937	83.7759	12.98448	40.53875	2337.35	1.52771
1648.865	83.85295	12.99761	39.81156	2340.73	1.41408
1650.794	83.96523	13.01074	38.66597	2344.12	1.17929
1652.722	84.0332	13.02387	40.30963	2347.51	0.8054
1654.651	84.06456	13.037	39.52011	2350.89	0.40574
1656.579	84.09165	13.05013	38.87549	2354.27	0.18693

1658.508	84.12019	13.06326	38.55845	2357.66	0.1929
1660.436	84.15633	13.07639	38.71768	2361.04	0.28855
1662.365	84.21831	13.08952	39.015	2364.42	0.59287
1664.293	84.25084	13.10265	38.62714	2367.79	0.95052
1666.222	84.3003	13.11578	38.8713	2371.17	1.12585
1668.15	84.38112	13.12891	38.39033	2374.54	1.07964
1670.078	84.42032	13.14204	36.72459	2377.91	1.08358
1672.007	84.48821	13.15517	37.56177	2381.28	1.24298
1673.936	84.53294	13.1683	36.82589	2384.65	1.4718
1675.864	84.57075	13.18143	36.94351	2388.02	1.48619
1677.792	84.61115	13.19456	39.13726	2391.39	1.38773
1679.721	84.61707	13.20769	40.72398	2394.75	1.28918
1681.65	84.61463	13.22082	41.85095	2398.11	1.15567
1683.578	84.63789	13.23395	40.90639	2401.48	0.84448
1685.506	84.66493	13.24708	40.98413	2404.84	0.65364
1687.435	84.71358	13.26021	40.42596	2408.2	0.59171
1689.364	84.73493	13.27334	39.69407	2411.55	0.69408
1691.292	84.71458	13.28647	39.35461	2414.91	0.85945
1693.22	84.71275	13.2996	38.32288	2418.26	1.19764
1695.149	84.7174	13.31273	37.1466	2421.62	1.6187
1697.078	84.73808	13.32586	37.91702	2424.97	2.06381
1699.006	84.77749	13.33899	38.36165	2428.32	2.3406
1700.934	84.76222	13.35212	38.21341	2431.67	2.58564
1702.863	84.75231	13.36526	36.90842	2435.01	2.73128
1704.792	84.7756	13.37839	36.58722	2438.36	2.71293
1706.72	84.78717	13.39152	38.32797	2441.7	2.56068
1708.648	84.7944	13.40465	39.19945	2445.04	2.3547
1710.577	84.82131	13.41778	41.02383	2448.38	2.16169
1712.505	84.83846	13.43091	41.94551	2451.72	2.13196
1714.434	84.84768	13.44404	41.52749	2455.06	2.25543
1716.362	84.82095	13.45717	41.72705	2458.39	2.53399
1718.291	84.79573	13.4703	40.50053	2461.73	2.82135
1720.219	84.81361	13.48343	39.0986	2465.06	3.1799
1722.148	84.85017	13.49656	38.03671	2468.39	3.51783
1724.076	84.83445	13.50969	36.51109	2471.72	3.79385
1726.005	84.80463	13.52282	36.25925	2475.05	3.88026
1727.933	84.79471	13.53595	33.44254	2478.38	3.80708
1729.862	84.81221	13.54908	32.36408	2481.71	3.70862
1731.79	84.85855	13.56221	32.44726	2485.03	3.70248
1733.719	84.89052	13.57534	33.19134	2488.35	3.71878
1735.647	84.909	13.58847	34.53234	2491.67	3.76122
1737.576	84.93594	13.6016	34.38013	2494.99	3.79026
1739.504	84.95229	13.61473	35.05338	2498.31	3.61459
1741.433	84.93382	13.62786	35.71124	2501.63	3.2237
1743.361	84.91121	13.64099	35.68984	2504.94	2.8065
1745.29	84.89965	13.65412	33.25537	2508.26	2.61134
1747.218	84.90466	13.66725	29.27332	2511.57	2.62712

1749.147	84.91004	13.68038	27.15612	2514.88	2.8294
1751.075	84.87493	13.69351	29.11481	2518.19	3.17469
1753.004	84.85103	13.70664	30.08895	2521.5	3.60993
1754.932	84.83308	13.71977	31.37281	2524.8	4.17252
1756.861	84.80122	13.7329	31.63304	2528.11	4.74703
1758.789	84.78426	13.74603	31.11574	2531.41	5.25569
1760.718	84.79354	13.75916	31.36188	2534.71	5.59823
1762.646	84.81617	13.77229	31.0701	2538.01	5.70882
1764.575	84.84129	13.78542	29.27944	2541.31	5.5885
1766.503	84.84027	13.79855	28.00894	2544.61	5.23985
1768.432	84.82465	13.81168	28.31951	2547.9	4.68363
1770.36	84.81116	13.82482	29.93502	2551.2	3.97618
1772.289	84.7917	13.83795	29.77128	2554.49	3.31802
1774.217	84.76152	13.85108	29.88697	2557.78	2.92991
1776.146	84.73786	13.86421	28.29052	2561.07	2.87696
1778.074	84.70122	13.87734	27.75602	2564.36	3.10306
1780.003	84.67488	13.89047	26.17296	2567.65	3.40817
1781.931	84.65285	13.9036	24.82203	2570.93	3.71021
1783.86	84.62578	13.91673	25.04905	2574.22	4.0535
1785.788	84.61942	13.92986	25.9721	2577.5	4.23291
1787.717	84.63313	13.94299	28.02279	2580.78	4.33672
1789.645	84.61884	13.95612	28.46643	2584.06	4.36666
1791.574	84.58995	13.96925	29.11473	2587.34	4.25748
1793.502	84.57028	13.98238	28.39018	2590.62	4.23406
1795.431	84.55173	13.99551	27.02575	2593.89	4.39361
1797.359	84.52394	14.00864	27.05547	2597.17	4.65196
1799.288	84.50944	14.02177	25.00206	2600.44	4.86231
1801.216	84.4836	14.0349	24.22837	2603.71	5.01028
1803.145	84.45443	14.04803	25.7537	2606.98	5.30566
1805.073	84.43726	14.06116	25.80564	2610.25	5.75795
1807.002	84.43652	14.07429	26.51312	2613.51	6.38009
1808.93	84.42676	14.08742	26.35499	2616.78	7.03894
1810.859	84.42961	14.10055	26.81047	2620.04	7.47994
1812.787	84.43705	14.11368	25.46688	2623.3	7.59719
1814.716	84.42812	14.12681	23.79919	2626.56	7.47343
1816.644	84.4239	14.13994	22.70348	2629.82	7.26365
1818.573	84.42247	14.15307	24.17441	2633.08	7.12133
1820.501	84.41663	14.1662	24.37163	2636.34	7.11621
1822.43	84.41615	14.17933	25.98565	2639.59	7.22269
1824.358	84.41724	14.19246	24.91075	2642.84	7.40499
1826.287	84.41142	14.20559	24.69217	2646.1	7.48611
1828.215	84.38586	14.21872	23.9637	2649.35	7.53332
1830.144	84.36699	14.23185	22.62168	2652.59	7.49722
1832.072	84.35444	14.24498	20.16398	2655.84	7.52539
1834.001	84.33927	14.25811	17.76621	2659.09	7.70607
1835.929	84.32925	14.27124	17.41766	2662.33	8.03332
1837.858	84.32096	14.28437	19.46639	2665.58	8.43339

1839.786	84.31712	14.29751	17.95617	2668.82	8.83021
1841.715	84.30916	14.31064	18.58976	2672.06	9.16392
1843.643	84.30846	14.32377	17.79301	2675.3	9.43683
1845.572	84.29826	14.3369	16.77128	2678.53	9.58966
1847.5	84.28242	14.35003	16.05928	2681.77	9.56925
1849.429	84.26358	14.36316	15.77482	2685	9.43808
1851.357	84.23338	14.37629	15.48204	2688.24	9.17906
1853.286	84.20217	14.38942	14.01693	2691.47	8.86674
1855.214	84.18323	14.40255	14.24815	2694.7	8.57588
1857.143	84.19684	14.41568	14.35777	2697.93	8.2475
1859.071	84.21597	14.42881	14.42819	2701.15	7.81961
1861	84.22134	14.44194	15.42149	2704.38	7.28551
1862.928	84.21997	14.45507	15.97231	2707.6	6.80682
1864.857	84.2193	14.4682	16.30805	2710.83	6.49068
1866.785	84.21628	14.48133	16.81447	2714.05	6.45562
1868.714	84.20317	14.49446	17.54479	2717.27	6.52965
1870.642	84.18521	14.50759	17.63834	2720.49	6.67032
1872.571	84.16978	14.52072	15.17976	2723.7	6.74249
1874.499	84.14753	14.53385	13.80406	2726.92	6.66044
1876.428	84.13284	14.54698	12.55854	2730.13	6.27905
1878.356	84.11827	14.56011	12.55026	2733.35	5.66146
1880.285	84.09881	14.57324	12.56849	2736.56	4.92186
1882.213	84.09837	14.58637	13.74268	2739.77	4.24342
1884.142	84.10795	14.5995	15.45034	2742.98	3.53153
1886.07	84.10551	14.61263	15.98878	2746.18	2.95872
1887.999	84.1079	14.62576	17.18813	2749.39	2.54933
1889.927	84.10853	14.63889	18.46044	2752.59	2.21235
1891.856	84.1106	14.65202	17.22479	2755.8	1.96433
1893.784	84.11213	14.66515	16.57329	2759	1.70954
1895.713	84.10742	14.67828	16.49944	2762.2	1.44106
1897.641	84.09913	14.69141	16.19211	2765.4	1.21391
1899.57	84.09846	14.70454	17.05632	2768.59	1.00188
1901.498	84.09394	14.71767	17.91589	2771.79	0.7349
1903.427	84.08775	14.7308	18.26357	2774.98	0.34787
1905.355	84.08447	14.74393	18.48371	2778.18	-0.04603
1907.284	84.06783	14.75707	17.90648	2781.37	-0.39534
1909.212	84.05639	14.7702	17.45857	2784.56	-0.67254
1911.141	84.05701	14.78333	16.06576	2787.74	-0.83371
1913.069	84.05512	14.79646	15.171	2790.93	-0.80433
1914.998	84.05215	14.80959	14.05182	2794.12	-0.62559
1916.926	84.05238	14.82272	11.78751	2797.3	-0.31087
1918.855	84.0611	14.83585	10.74373	2800.48	0.1526
1920.783	84.06057	14.84898	9.32628	2803.67	0.68621
1922.712	84.05212	14.86211	8.59664	2806.85	1.27775
1924.64	84.04017	14.87524	9.59505	2810.02	1.88394
1926.569	84.01978	14.88837	8.3149	2813.2	2.48393
1928.497	84.00147	14.9015	8.16919	2816.38	3.02229

1930.426	84.00413	14.91463	8.64927	2819.55	3.50825
1932.354	84.0125	14.92776	8.37702	2822.72	3.88209
1934.283	84.01192	14.94089	9.31143	2825.9	4.06158
1936.211	84.01916	14.95402	8.90726	2829.07	4.04351
1938.14	84.02871	14.96715	9.37839	2832.24	3.92571
1940.068	84.02829	14.98028	10.27337	2835.4	3.73983
1941.997	84.03078	14.99341	10.38403	2838.57	3.6944
1943.925	84.02583	15.00654	10.08222	2841.73	3.92783
1945.854	84.01958	15.01967	9.69476	2844.9	4.20514
1947.782	84.01316	15.0328	8.62691	2848.06	4.48836
1949.711	83.99915	15.04593	8.35166	2851.22	4.81368
1951.639	83.9748	15.05906	8.41644	2854.38	5.2153
1953.568	83.96229	15.07219	9.38596	2857.53	5.55674
1955.496	83.96067	15.08532	10.6924	2860.69	5.86573
1957.425	83.96452	15.09845	11.78829	2863.84	6.08193
1959.353	83.96667	15.11158	12.83451	2867	6.36669
1961.282	83.96703	15.12471	11.88057	2870.15	6.59062
1963.21	83.96191	15.13784	11.47991	2873.3	6.66305
1965.139	83.96438	15.15097	10.69114	2876.45	6.59186
1967.067	83.9707	15.1641	9.23953	2879.6	6.43744
1968.996	83.9686	15.17723	9.81221	2882.74	6.19249
1970.924	83.96067	15.19036	10.46578	2885.89	5.91804
1972.853	83.95918	15.20349	10.93968	2889.03	5.68621
1974.781	83.9559	15.21663	13.86466	2892.17	5.55498
1976.71	83.95332	15.22976	15.21459	2895.31	5.38536
1978.638	83.96182	15.24289	16.24409	2898.45	5.09742
1980.567	83.97342	15.25602	15.88233	2901.59	4.5782
1982.495	83.97453	15.26915	16.1373	2904.73	3.98781
1984.424	83.9786	15.28228	15.26751	2907.86	3.31851
1986.352	83.97745	15.29541	15.2127	2911	2.65488
1988.281	83.97302	15.30854	15.39793	2914.13	1.99786
1990.209	83.96761	15.32167	15.12793	2917.26	1.44036
1992.138	83.96473	15.3348	15.06088	2920.39	1.10043
1994.066	83.96931	15.34793	14.98634	2923.52	1.03054
1995.995	83.97692	15.36106	13.84313	2926.64	1.27202
1997.923	83.97757	15.37419	12.79723	2929.77	1.74391
1999.852	83.98158	15.38732	12.08144	2932.89	2.35603
2001.78	83.99091	15.40045	14.5681	2936.02	3.16997
2003.708	83.99863	15.41358	15.73431	2939.14	4.08161
2005.637	84.00371	15.42671	17.29804	2942.26	4.87172
2007.566	83.99845	15.43984	17.97972	2945.37	5.44476
2009.494	83.98245	15.45297	19.49507	2948.49	5.7376
2011.422	83.96902	15.4661	20.25412	2951.61	5.82552
2013.351	83.96185	15.47923	19.05663	2954.72	5.73363
2015.28	83.95809	15.49236	17.49707	2957.83	5.47609
2017.208	83.95067	15.50549	16.17105	2960.94	5.10286
2019.136	83.95219	15.51862	16.45072	2964.06	4.56271

2021.065	83.95795	15.53175	17.18597	2967.16	3.88151
2022.994	83.96406	15.54488	16.66449	2970.27	3.18853
2024.922	83.97132	15.55801	17.73002	2973.38	2.59088
2026.85	83.98067	15.57114	17.29496	2976.48	2.13077
2028.779	83.98681	15.58427	16.5055	2979.59	1.79387
2030.708	83.9988	15.5974	15.54938	2982.69	1.58966
2032.636	84.00611	15.61053	13.84009	2985.79	1.49806
2034.564	83.99963	15.62366	13.28279	2988.89	1.50492
2036.493	83.98812	15.63679	13.01227	2991.98	1.55373
2038.422	83.98236	15.64992	13.50744	2995.08	1.54736
2040.35	83.98141	15.66305	13.02852	2998.18	1.50431
2042.278	83.98787	15.67618	13.89701	3001.27	1.37407
2044.207	83.99218	15.68932	15.96819	3004.36	1.23377
2046.135	83.99193	15.70245	15.88995	3007.45	1.1449
2048.064	83.98785	15.71558	16.31401	3010.54	1.08317
2049.992	83.9845	15.72871	16.97585	3013.63	1.04638
2051.921	83.98211	15.74184	18.04767	3016.72	0.99213
2053.849	83.98518	15.75497	18.93698	3019.8	0.89891
2055.778	83.99368	15.7681	18.96775	3022.89	0.77859
2057.707	84.00298	15.78123	18.94488	3025.97	0.6616
2059.635	84.00821	15.79436	17.84625	3029.05	0.54157
2061.563	84.01148	15.80749	16.60052	3032.13	0.49134
2063.492	84.00382	15.82062	15.94431	3035.21	0.53515
2065.42	84.00055	15.83375	15.6539	3038.28	0.63971
2067.349	84.00696	15.84688	16.82815	3041.36	0.7129
2069.277	84.01397	15.86001	16.49814	3044.44	0.62978
2071.206	84.01519	15.87314	16.34728	3047.51	0.5691
2073.135	84.0199	15.88627	16.57467	3050.58	0.19365
2075.063	84.02216	15.8994	16.14943	3053.65	-0.12237
2076.991	84.02621	15.91253	16.63402	3056.72	-0.24619
2078.92	84.03482	15.92566	15.61946	3059.79	-0.20534
2080.848	84.0351	15.93879	14.46969	3062.85	-0.14
2082.777	84.03146	15.95192	14.48041	3065.92	-0.1427
2084.705	84.03381	15.96505	14.91384	3068.98	-0.27564
2086.634	84.03784	15.97818	14.87788	3072.04	-0.50541
2088.563	84.03934	15.99131	13.89105	3075.1	-0.70581
2090.491	84.03448	16.00444	13.25728	3078.16	-0.82201
2092.419	84.0306	16.01757	12.53163	3081.22	-0.82416
2094.348	84.02592	16.0307	12.28279	3084.28	-0.54221
2096.276	84.02834	16.04383	13.90842	3087.33	-0.12359
2098.205	84.03081	16.05696	13.64463	3090.39	0.2961
2100.133	84.03468	16.07009	13.75683	3093.44	0.56905
2102.062	84.04509	16.08322	14.57893	3096.49	0.4637
2103.99	84.05868	16.09635	15.20153	3099.54	0.30453
2105.919	84.06592	16.10948	15.43064	3102.59	0.24958
2107.847	84.07478	16.12261	15.39086	3105.64	0.34225
2109.776	84.08916	16.13574	14.75651	3108.68	0.5634

2111.704	84.10103	16.14888	14.0858	3111.73	0.76015
2113.633	84.1113	16.16201	15.20346	3114.77	1.19101
2115.561	84.11732	16.17514	16.5371	3117.81	1.4095
2117.49	84.11114	16.18827	18.25269	3120.85	1.40316
2119.418	84.10641	16.2014	18.63847	3123.89	1.30592
2121.347	84.102	16.21453	19.9749	3126.93	1.29952
2123.275	84.09618	16.22766	20.77112	3129.97	1.41784
2125.204	84.08854	16.24079	20.50037	3133	1.63028
2127.132	84.08643	16.25392	19.72143	3136.04	1.78707
2129.061	84.08302	16.26705	18.25871	3139.07	1.74834
2130.989	84.0854	16.28018	17.84291	3142.1	1.53497
2132.918	84.09198	16.29331	18.04214	3145.13	1.23754
2134.846	84.09879	16.30644	17.42363	3148.16	0.99459
2136.775	84.10788	16.31957	19.45531	3151.19	0.8507
2138.703	84.12054	16.3327	19.17162	3154.21	0.76715
2140.632	84.1285	16.34583	19.1158	3157.24	0.74023
2142.56	84.1355	16.35896	18.44305	3160.26	0.78557
2144.489	84.14083	16.37209	17.10038	3163.28	0.90542
2146.417	84.14303	16.38522	15.9553	3166.3	1.02255
2148.346	84.14011	16.39835	14.93613	3169.32	1.11925
2150.274	84.14513	16.41148	14.03496	3172.34	1.18858
2152.203	84.15495	16.42461	14.67323	3175.36	1.20688
2154.131	84.1683	16.43774	13.84605	3178.37	1.17946
2156.06	84.1787	16.45087	15.48781	3181.39	1.0231
2157.988	84.1811	16.464	15.83036	3184.4	0.80545
2159.917	84.17842	16.47713	14.21667	3187.41	0.63245
2161.845	84.1807	16.49026	14.20812	3190.42	0.24773
2163.774	84.1817	16.50339	11.86041	3193.43	-0.15005
2165.702	84.18301	16.51652	11.66586	3196.44	-0.6596
2167.631	84.18692	16.52965	12.13449	3199.44	-1.16044
2169.559	84.18872	16.54278	11.67323	3202.45	-1.67602
2171.488	84.18022	16.55591	13.29235	3205.45	-2.05715
2173.416	84.17791	16.56904	13.1393	3208.45	-2.23305
2175.345	84.17564	16.58217	14.97006	3211.45	-2.21093
2177.273	84.17692	16.5953	15.65257	3214.45	-1.95805
2179.202	84.18117	16.60844	14.9022	3217.45	-1.46946
2181.13	84.18214	16.62157	15.15827	3220.44	-0.77491
2183.059	84.17126	16.6347	13.36236	3223.44	0.08569
2184.987	84.16525	16.64783	13.59388	3226.43	0.90244
2186.916	84.17204	16.66096	13.65139	3229.43	1.63343
2188.844	84.17775	16.67409	12.09393	3232.42	2.22277
2190.773	84.18258	16.68722	12.08611	3235.41	2.59979
2192.701	84.19388	16.70035	11.30785	3238.4	2.76235
2194.63	84.19656	16.71348	11.38564	3241.39	2.73322
2196.558	84.20046	16.72661	10.75247	3244.37	2.5744
2198.487	84.2102	16.73974	9.30609	3247.36	2.42786
2200.415	84.21861	16.75287	8.07628	3250.34	2.33634

2202.344	84.21722	16.766	7.29469	3253.32	2.32601
2204.272	84.21711	16.77913	6.23574	3256.3	2.35927
2206.201	84.20807	16.79226	4.66577	3259.28	2.34645
2208.129	84.19446	16.80539	4.20165	3262.26	2.23091
2210.058	84.18803	16.81852	5.16823	3265.24	2.03127
2211.986	84.18824	16.83165	6.25082	3268.21	1.68065
2213.915	84.19203	16.84478	8.47976	3271.19	1.29387
2215.843	84.20174	16.85791	10.31608	3274.16	0.97638
2217.772	84.20869	16.87104	11.79998	3277.13	0.74715
2219.7	84.21274	16.88417	12.91844	3280.1	0.53434
2221.629	84.21519	16.8973	14.19909	3283.07	0.31666
2223.557	84.21932	16.91043	15.46434	3286.04	0.21632
2225.486	84.21868	16.92356	14.93422	3289.01	0.19064
2227.414	84.22272	16.93669	15.21031	3291.97	0.24139
2229.343	84.22536	16.94982	13.37467	3294.93	0.37056
2231.271	84.22425	16.96295	12.31324	3297.9	0.55625
2233.2	84.22217	16.97608	11.47942	3300.86	0.69776
2235.128	84.22621	16.98921	11.44389	3303.82	0.71774
2237.057	84.23671	17.00234	11.07491	3306.78	0.62266
2238.985	84.25021	17.01547	10.8333	3309.73	0.46381
2240.914	84.26447	17.0286	11.37438	3312.69	0.29665
2242.842	84.28209	17.04173	12.81883	3315.65	0.11525
2244.771	84.29694	17.05486	12.71118	3318.6	-0.00211
2246.699	84.30942	17.06799	12.95518	3321.55	-0.06175
2248.628	84.31252	17.08113	13.76637	3324.5	-0.17506
2250.556	84.31444	17.09426	14.93092	3327.45	-0.30896
2252.485	84.31453	17.10739	14.50683	3330.4	-0.38799
2254.413	84.31421	17.12052	15.78052	3333.35	-0.32419
2256.342	84.31164	17.13365	15.12119	3336.29	-0.1724
2258.27	84.30824	17.14678	16.29812	3339.24	-0.05474
2260.199	84.30375	17.15991	16.82612	3342.18	0.07492
2262.127	84.31233	17.17304	16.76806	3345.12	0.20595
2264.056	84.32534	17.18617	17.83427	3348.06	0.40959
2265.984	84.33235	17.1993	19.00122	3351	0.58401
2267.913	84.34198	17.21243	21.1259	3353.94	0.81831
2269.841	84.35231	17.22556	21.48381	3356.87	1.08271
2271.77	84.35189	17.23869	21.44401	3359.81	1.31593
2273.698	84.35347	17.25182	21.80061	3362.74	1.49027
2275.627	84.35265	17.26495	21.11321	3365.68	1.50842
2277.555	84.35431	17.27808	21.23995	3368.61	1.41509
2279.484	84.35596	17.29121	21.00126	3371.54	1.42247
2281.412	84.35761	17.30434	21.1672	3374.47	1.67451
2283.341	84.35927	17.31747	23.12806	3377.4	2.15115
2285.269	84.36092	17.3306	23.73733	3380.32	2.69038
2287.198	84.36257	17.34373	23.69004	3383.25	3.17029
2289.126	84.36422	17.35686	24.52458	3386.17	3.53156
2291.055	84.36588	17.36999	25.70598	3389.09	3.75039

2292.983	84.36753	17.38312	26.41092	3392.01	3.87181
2294.912	84.36918	17.39625	25.25649	3394.93	3.72871
2296.84	84.37083	17.40938	25.16629	3397.85	3.72541
2298.769	84.37248	17.42251	25.77781	3400.77	3.04768
2300.697	84.37414	17.43564	27.16015	3403.69	2.79608
2302.625	84.37579	17.44877	28.37559	3406.6	2.23629
2304.554	84.37744	17.4619	28.57451	3409.51	2.66887
2306.483	84.3791	17.47503	28.34342	3412.43	2.46248
2308.411	84.38075	17.48816	28.94036	3415.34	2.01013
2310.34	84.3824	17.50129	29.24268	3418.25	2.25042
2312.268	84.38406	17.51442	29.00908	3421.16	2.64058
2314.197	84.38571	17.52755	27.65784	3424.06	2.1854
2316.125	84.38736	17.54069	27.95086	3426.97	2.03558
2318.053	84.38902	17.55382	26.89513	3429.87	2.54163
2319.982	84.39067	17.56695	27.81247	3432.78	2.6519
2321.911	84.39232	17.58008	27.29893	3435.68	2.29567
2323.839	84.39397	17.59321	26.81222	3438.58	2.64058
2325.768	84.39563	17.60634	26.43872	3441.48	2.14299
2327.696	84.39728	17.61947	26.67631	3444.38	2.46529
2329.625	84.39893	17.6326	27.99994	3447.27	1.86593
2331.553	84.40059	17.64573	29.92702	3450.17	2.1317
2333.481	84.40224	17.65886	31.59035	3453.06	2.70277
2335.41	84.40389	17.67199	33.6215	3455.96	3.39827
2337.339	84.40555	17.68512	35.10143	3458.85	2.96853
2339.267	84.4072	17.69825	36.18026	3461.74	3.44916
2341.196	84.40885	17.71138	35.93868	3464.63	4.24643
2343.124	84.41051	17.72451	33.99009	3467.52	3.059
2345.052	84.41216	17.73764	31.19208	3470.4	3.45481
2346.981	84.41381	17.75077	29.83922	3473.29	3.79972
2348.909	84.41547	17.7639	28.01615	3476.17	3.07597
2350.838	84.41712	17.77703	27.25053	3479.06	3.31345
2352.767	84.41878	17.79016	26.58423	3481.94	3.40392
2354.695	84.42043	17.80329	26.89183	3484.82	3.26823
2356.624	84.42208	17.81642	28.06769	3487.7	4.31993
2358.552	84.42374	17.82955	28.12223	3490.58	3.58485
2360.48	84.42538	17.84268	28.20756	3493.45	4.25207
2362.409	84.42704	17.85581	27.41855	3496.33	3.9128
2364.337	84.4287	17.86894	26.94553	3499.2	3.00811
2366.266	84.43035	17.88207	25.96491	3502.08	2.80456
2368.195	84.43201	17.8952	25.53848	3504.95	3.26823
2370.123	84.43365	17.90833	24.48493	3507.82	3.05336
2372.052	84.43531	17.92146	24.09177	3510.69	2.5784
2373.98	84.43697	17.93459	26.50828	3513.56	3.5057
2375.908	84.43862	17.94772	27.30702	3516.42	2.28435
2377.837	84.44027	17.96085	28.77151	3519.29	2.00165
2379.765	84.44193	17.97398	28.55507	3522.15	2.47661
2381.694	84.44358	17.98711	29.15024	3525.01	1.60584

2383.622	84.44524	18.00024	28.87163	3527.88	0.93863
2385.551	84.44689	18.01338	29.22877	3530.74	1.78678
2387.479	84.44854	18.02651	29.70053	3533.6	1.832
2389.408	84.4502	18.03964	27.68619	3536.45	1.13088
2391.336	84.45185	18.05277	27.78199	3539.31	0.26009
2393.265	84.45351	18.0659	30.03156	3542.16	0.33927
2395.193	84.45516	18.07903	29.62933	3545.02	-0.04525
2397.122	84.45682	18.09216	30.76829	3547.87	-0.09047
2399.05	84.45847	18.10529	30.40501	3550.72	0.22619
2400.979	84.46012	18.11842	30.72166	3553.57	-1.13088
2402.907	84.46178	18.13155	30.62815	3556.42	0.76901
2404.836	84.46343	18.14468	31.58869	3559.27	0.52021
2406.764	84.46509	18.15781	29.10246	3562.12	0.11308
2408.693	84.46674	18.17094	28.18545	3564.96	0.40713
2410.621	84.4684	18.18407	28.64281	3567.81	0.13572
2412.55	84.47005	18.1972	28.85908	3570.65	2.0808
2414.478	84.4717	18.21033	28.06026	3573.49	0.52021
2416.407	84.4845	18.22346	27.83572	3576.33	2.30699
2418.335	84.49422	18.23659	27.61254	3579.17	1.4249
2420.264	84.49527	18.24972	28.14122	3582.01	1.15349
2422.192	84.49369	18.26285	27.82586	3584.85	2.53315
2424.121	84.49494	18.27598	28.39406	3587.68	2.53315
2426.049	84.49582	18.28911	26.37391	3590.52	1.87725
2427.978	84.49186	18.30224	27.50529	3593.35	1.40229
2429.906	84.48386	18.31537	27.71136	3596.18	2.0808
2431.835	84.46976	18.3285	27.60951	3599.01	0.94995
2433.763	84.45406	18.34163	26.73301	3601.84	1.1761
2435.692	84.45121	18.35476	27.23285	3604.67	-1.49276
2437.62	84.45063	18.36789	27.42875	3607.5	-0.67854
2439.549	84.44966	18.38102	27.84323	3610.32	1.40229
2441.477	84.44753	18.39415	28.16504	3613.15	3.16644
2443.406	84.45026	18.40728	28.63774		
2445.334	84.45358	18.42041	28.12876		
2447.263	84.46621	18.43354	28.55035		
2449.191	84.47778	18.44667	28.02058		
2451.12	84.48564	18.4598	29.7471		
2453.048	84.49102	18.47294	30.70407		
2454.977	84.49457	18.48607	31.75643		
2456.905	84.49378	18.4992	31.43769		
2458.834	84.48979	18.51233	31.35396		
2460.762	84.48075	18.52546	31.48541		
2462.691	84.47871	18.53859	31.28488		
2464.619	84.48836	18.55172	30.34511		
2466.548	84.50348	18.56485	27.73857		
2468.476	84.50649	18.57798	26.06346		
2470.405	84.51115	18.59111	28.57503		
2472.333	84.51897	18.60424	29.36829		

2474.262	84.52134	18.61737	29.05753
2476.19	84.51777	18.6305	28.15536
2478.119	84.51537	18.64363	29.65082
2480.047	84.51269	18.65676	29.77802
2481.976	84.51886	18.66989	29.84286
2483.904	84.51846	18.68302	28.65216
2485.833	84.50619	18.69615	25.70351
2487.761	84.49566	18.70928	23.83951
2489.69	84.50199	18.72241	24.16638
2491.618	84.50877	18.73554	24.38417
2493.547	84.51171	18.74867	24.97404
2495.475	84.50531	18.7618	25.9275
2497.404	84.49967	18.77493	28.23892
2499.332	84.49566	18.78806	30.32683
2501.261	84.49118	18.80119	32.33793
2503.189	84.48504	18.81432	33.10115
2505.118	84.47713	18.82745	31.42812
2507.046	84.4689	18.84058	29.65337
2508.975	84.45895	18.85371	28.41157
2510.903	84.44833	18.86684	28.10404
2512.832	84.44639	18.87997	27.94004
2514.76	84.44609	18.8931	28.78594
2516.689	84.45284	18.90623	28.54679
2518.617	84.46482	18.91936	28.9553
2520.546	84.4798	18.9325	29.24
2522.474	84.48316	18.94563	28.73194
2524.403	84.49283	18.95876	29.25727
2526.331	84.51408	18.97189	28.48459
2528.26	84.53208	18.98502	27.26949
2530.188	84.54877	18.99815	26.39079
2532.117	84.55859	19.01128	26.09575
2534.045	84.55578	19.02441	26.84401
2535.974	84.54988	19.03754	25.83829
2537.902	84.54765	19.05067	26.81246
2539.831	84.54552	19.0638	26.06919
2541.759	84.54106	19.07693	26.46693
2543.688	84.54333	19.09006	28.54408
2545.616	84.54055	19.10319	28.9743
2547.545	84.53923	19.11632	28.3801
2549.473	84.53516	19.12945	28.31432
2551.402	84.53241	19.14258	27.83388
2553.33	84.53496	19.15571	27.45507
2555.259	84.54097	19.16884	27.60299
2557.187	84.54287	19.18197	28.43114
2559.116	84.54668	19.1951	26.43788
2561.044	84.5512	19.20823	27.20024
2562.973	84.55016	19.22136	29.20218

2564.901	84.54923	19.23449	30.89679
2566.83	84.5558	19.24762	32.14586
2568.758	84.55589	19.26075	33.60787
2570.687	84.55928	19.27388	33.59769
2572.615	84.56687	19.28701	33.29067
2574.544	84.57495	19.30014	32.52424
2576.472	84.57664	19.31327	31.60936
2578.401	84.57903	19.3264	29.18293
2580.329	84.57607	19.33953	29.20286
2582.258	84.57066	19.35266	29.53853
2584.186	84.5687	19.36579	28.38559
2586.115	84.57047	19.37892	29.48897
2588.043	84.56278	19.39205	30.0273
2589.972	84.5622	19.40519	29.26395
2591.9	84.56731	19.41832	28.95398
2593.829	84.56627	19.43145	27.137
2595.757	84.56562	19.44458	26.59557
2597.686	84.57444	19.45771	27.83551
2599.614	84.57818	19.47084	30.75373
2601.543	84.57504	19.48397	31.97858
2603.471	84.56792	19.4971	33.80183
2605.4	84.56543	19.51023	34.56894
2607.328	84.56761	19.52336	36.33066
2609.257	84.57119	19.53649	37.07419
2611.185	84.56977	19.54962	37.93069
2613.114	84.572	19.56275	36.81486
2615.042	84.57188	19.57588	35.55031
2616.971	84.57727	19.58901	35.79214
2618.899	84.58507	19.60214	34.82433
2620.828	84.58983	19.61527	35.04059
2622.756	84.59062	19.6284	35.20896
2624.685	84.59919	19.64153	33.37102
2626.613	84.6	19.65466	33.65346
2628.542	84.58558	19.66779	34.40996
2630.47	84.57374	19.68092	36.93141
2632.398	84.57641	19.69405	37.76601
2634.327	84.5727	19.70718	39.17664
2636.256	84.56232	19.72031	39.49432
2638.184	84.55347	19.73344	40.56956
2640.113	84.5532	19.74657	42.86428
2642.041	84.55534	19.7597	42.5115
2643.969	84.56852	19.77283	41.11789
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2651.684	84.60996	19.82535	42.28812
2653.612	84.60381	19.83848	44.16886

2655.541	84.59592	19.85161	43.0022
2657.469	84.59062	19.86475	43.93412
2659.397	84.58275	19.87788	44.50917
2661.326	84.57228	19.89101	40.97505
2663.254	84.56434	19.90414	38.93033
2665.183	84.5516	19.91727	38.30305
2667.112	84.55048	19.9304	39.69647
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2672.897	84.57618	19.96979	38.89232
2674.825	84.5762	19.98292	37.06721
2676.754	84.56984	19.99605	39.1235
2678.682	84.57035	20.00918	40.63147
2680.611	84.56471	20.02231	39.75844
2682.54	84.56075	20.03544	41.01826
2684.468	84.56262	20.04857	42.2319
2686.396	84.56516	20.0617	41.0028
2688.325	84.56385	20.07483	37.99256
2690.253	84.56253	20.08796	36.64022
2692.182	84.56035	20.10109	34.63448
2694.11	84.56033	20.11422	33.24924
2696.039	84.561	20.12735	35.63014
2697.968	84.55972	20.14048	36.66661
2699.896	84.54619	20.15361	36.23346
2701.824	84.53264	20.16674	37.47408
2703.753	84.53141	20.17987	37.2989
2705.681	84.53081	20.193	36.99824
2707.61	84.51932	20.20613	37.70919
2709.538	84.51913	20.21926	38.53652
2711.467	84.52116	20.23239	38.27629
2713.396	84.51793	20.24552	38.31511
2715.324	84.51419	20.25865	38.58814
2717.252	84.51828	20.27178	36.91689
2719.181	84.52424	20.28491	33.83409
2721.109	84.529	20.29804	32.57657
2723.038	84.52691	20.31117	31.89198
2724.966	84.5215	20.32431	34.23293
2726.895	84.51958	20.33744	34.64235
2728.823	84.52733	20.35057	34.85124
2730.752	84.5303	20.3637	34.27194
2732.68	84.52547	20.37683	35.11802
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2736.537	84.51881	20.40309	34.82992
2738.466	84.51396	20.41622	34.42727
2740.394	84.51037	20.42935	34.06652
2742.323	84.50118	20.44248	35.5659
2744.251	84.49867	20.45561	37.2502

2746.18	84.50099	20.46874	36.21819
2748.108	84.50404	20.48187	36.04204
2750.037	84.50478	20.495	36.95681
2751.965	84.50584	20.50813	38.10776
2753.894	84.5038	20.52126	37.98368
2755.822	84.50814	20.53439	36.06713
2757.751	84.50394	20.54752	36.3483
2759.679	84.4881	20.56065	36.76596
2761.608	84.47643	20.57378	37.78856
2763.536	84.47062	20.58691	37.61768
2765.465	84.46092	20.60004	37.71868
2767.393	84.45158	20.61317	38.65684
2769.322	84.44252	20.6263	38.31912
2771.25	84.43654	20.63943	37.38381
2773.179	84.43654	20.65256	36.74925
2775.107	84.44391	20.66569	34.77991
2777.036	84.43941	20.67882	36.33203
2778.964	84.43225	20.69195	37.18488
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2782.821	84.42162	20.71821	36.45125
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2786.678	84.38651	20.74447	37.47378
2788.607	84.36627	20.7576	36.28406
2790.535	84.34383	20.77073	35.2147
2792.464	84.32169	20.78386	35.43423
2794.392	84.30499	20.797	36.20602
2796.321	84.29014	20.81013	38.36554
2798.249	84.28065	20.82326	39.1005
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2802.106	84.25364	20.84952	40.27161
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2811.749	84.15418	20.91517	38.16644
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2817.534	84.05688	20.95456	37.3122
2819.463	84.01665	20.96769	37.50163
2821.391	83.97826	20.98082	37.86723
2823.32	83.93246	20.99395	37.93884
2825.248	83.878	21.00708	38.97422
2827.177	83.81503	21.02021	38.29815
2829.105	83.75222	21.03334	38.65835
2831.034	83.68742	21.04647	41.0152
2832.962	83.62108	21.0596	42.85858
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2836.819	83.49179	21.08586	46.22022
2838.748	83.43214	21.09899	46.93556
2840.676	83.37946	21.11212	45.63019
2842.605	83.33205	21.12525	44.82213
2844.533	83.29569	21.13838	44.37602
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2848.39	83.30504	21.16464	41.2991
2850.319	83.34315	21.17777	42.0238
2852.247	83.39635	21.1909	41.76263
2854.176	83.44893	21.20403	41.94243
2856.104	83.50722	21.21716	42.62607
2858.033	83.56241	21.23029	43.96138
2859.961	83.60166	21.24342	44.17715
2861.89	83.63416	21.25656	43.609
2863.818	83.66507	21.26969	43.8497
2865.747	83.67026	21.28282	43.89471
2867.675	83.65945	21.29595	44.51096
2869.604	83.65474	21.30908	44.83069
2871.532	83.65049	21.32221	42.9677
2873.461	83.64585	21.33534	42.70205
2875.389	83.64851	21.34847	43.53299
2877.318	83.64213	21.3616	45.34669
2879.246	83.62	21.37473	44.39879
2881.175	83.58753	21.38786	44.74376
2883.103	83.54945	21.40099	45.91317
2885.032	83.49854	21.41412	46.26835
2886.96	83.44746	21.42725	46.74107
2888.889	83.39734	21.44038	46.97646
2890.817	83.34166	21.45351	45.28347
2892.746	83.27788	21.46664	44.85333
2894.674	83.2169	21.47977	45.98823
2896.603	83.14509	21.4929	45.8011
2898.531	83.06207	21.50603	43.83286
2900.46	82.97587	21.51916	45.04567
2902.388	82.88736	21.53229	45.83509
2904.317	82.79163	21.54542	46.3178
2906.245	82.69166	21.55855	46.91862
2908.174	82.58586	21.57168	48.91456
2910.102	82.49111	21.58481	49.02714
2912.031	82.42505	21.59794	50.69287
2913.959	82.38781	21.61107	54.23659
2915.888	82.39297	21.6242	54.67348
2917.816	82.45729	21.63733	54.35619
2919.745	82.56823	21.65046	55.28165
2921.673	82.72001	21.66359	54.5914
2923.602	82.90775	21.67672	53.84309
2925.53	83.12993	21.68985	53.39954

2927.458	83.36628	21.70298	55.17554
2929.387	83.59508	21.71611	54.71842
2931.316	83.78871	21.72925	56.01836
2933.244	83.9371	21.74238	58.20704
2935.173	84.0462	21.75551	57.23084
2937.101	84.11416	21.76864	58.30454
2939.03	84.1377	21.78177	57.33006
2940.958	84.11857	21.7949	56.14659
2942.886	84.08141	21.80803	55.53154
2944.815	84.04647	21.82116	56.06834
2946.744	84.01773	21.83429	58.14752
2948.672	84.01418	21.84742	58.72116
2950.601	84.03286	21.86055	59.95811
2952.529	84.08549	21.87368	60.59013
2954.458	84.15843	21.88681	60.3949
2956.386	84.24483	21.89994	63.08534
2958.314	84.35594	21.91307	63.45091
2960.243	84.49585	21.9262	65.04111
2962.172	84.64943	21.93933	66.89982
2964.1	84.79391	21.95246	67.40705
2966.029	84.9168	21.96559	69.75745
2967.957	85.01154	21.97872	71.98665
2969.885	85.09362	21.99185	72.8641
2971.814	85.1705	22.00498	72.51554
2973.742	85.2296	22.01811	74.07302
2975.671	85.28202	22.03124	76.14881
2977.6	85.31604	22.04437	76.45935
2979.528	85.32803	22.0575	77.60595
2981.457	85.31998	22.07063	76.52596
2983.385	85.30747	22.08376	76.42421
2985.313	85.29143	22.09689	77.27351
2987.242	85.27399	22.11002	78.48393
2989.17	85.25056	22.12315	79.22876
2991.099	85.21531	22.13628	80.36361
2993.028	85.16767	22.14941	84.32437
2994.956	85.1264	22.16254	86.66886
2996.885	85.08827	22.17567	86.85162
2998.813	85.05955	22.18881	86.76648
3000.741	85.04108	22.20194	86.62586
3002.67	85.02724	22.21507	87.40909
3004.598	85.00379	22.2282	86.56417
3006.527	84.97414	22.24133	85.3477
3008.456	84.93974	22.25446	86.73794
3010.384	84.90533	22.26759	88.18853
3012.313	84.86957	22.28072	89.9824
3014.241	84.82872	22.29385	89.25571
3016.169	84.78344	22.30698	87.81563

3018.098	84.74824	22.32011	86.73072
3020.026	84.71558	22.33324	87.82998
3021.955	84.68604	22.34637	87.43108
3023.884	84.65527	22.3595	87.47854
3025.812	84.63461	22.37263	87.83643
3027.74	84.62218	22.38576	90.73279
3029.669	84.61703	22.39889	92.43685
3031.597	84.60753	22.41202	94.75976
3033.526	84.59694	22.42515	96.00932
3035.454	84.59203	22.43828	95.49479
3037.383	84.59058	22.45141	95.37083
3039.312	84.57769	22.46454	95.39559
3041.24	84.56666	22.47767	93.97826
3043.168	84.56583	22.4908	92.11037
3045.097	84.56151	22.50393	91.92792
3047.025	84.55023	22.51706	91.84405
3048.954	84.53939	22.53019	92.18163
3050.882	84.52751	22.54332	92.3108
3052.811	84.52892	22.55645	93.18911
3054.74	84.53233	22.56958	91.56894
3056.668	84.52856	22.58271	90.17594
3058.596	84.52296	22.59584	89.8657
3060.525	84.51624	22.60897	88.71605
3062.453	84.50192	22.6221	87.535
3064.382	84.48847	22.63523	89.63641
3066.31	84.48093	22.64837	88.76838
3068.239	84.48299	22.6615	89.6175
3070.167	84.48875	22.67463	89.3542
3072.096	84.49503	22.68776	89.25406
3074.024	84.4993	22.70089	88.58498
3075.953	84.5096	22.71402	87.40305
3077.881	84.52637	22.72715	85.87478
3079.81	84.54565	22.74028	84.91297
3081.738	84.55735	22.75341	83.98915
3083.667	84.57191	22.76654	85.68565
3085.595	84.5853	22.77967	83.42117
3087.524	84.58203	22.7928	84.96453
3089.452	84.56963	22.80593	86.53681
3091.381	84.56516	22.81906	86.32716
3093.309	84.55376	22.83219	86.84371
3095.238	84.54501	22.84532	86.56814
3097.166	84.53239	22.85845	85.50982
3099.095	84.506	22.87158	86.02195
3101.023	84.47235	22.88471	86.35797
3102.952	84.45242	22.89784	86.79824
3104.88	84.43839	22.91097	85.79474
3106.809	84.4306	22.9241	85.41945

3108.737	84.42133	22.93723	84.55905
3110.666	84.40477	22.95036	81.74793
3112.594	84.39221	22.96349	79.96349
3114.523	84.38508	22.97662	79.58808
3116.451	84.37971	22.98975	79.15805
3118.38	84.38345	23.00288	79.76746
3120.308	84.38038	23.01601	81.6338
3122.237	84.37104	23.02914	83.06914
3124.165	84.3496	23.04227	86.10298
3126.094	84.32286	23.0554	86.24186
3128.022	84.29923	23.06853	85.59571
3129.951	84.28531	23.08166	83.90881
3131.879	84.26599	23.09479	83.0968
3133.808	84.23817	23.10792	82.54283
3135.736	84.20973	23.12106	83.19342
3137.665	84.19013	23.13419	82.33085
3139.593	84.17766	23.14732	82.20949
3141.522	84.16917	23.16045	84.37511
3143.45	84.16788	23.17358	86.43798
3145.379	84.16021	23.18671	83.42403
3147.307	84.14028	23.19984	81.50021
3149.236	84.12095	23.21297	81.01685
3151.164	84.10522	23.2261	80.92013
3153.093	84.09678	23.23923	81.48079
3155.021	84.09156	23.25236	83.86143
3156.95	84.07684	23.26549	83.21117
3158.878	84.05551	23.27862	84.36163
3160.807	84.0401	23.29175	86.73335
3162.735	84.02039	23.30488	87.78139
3164.664	83.99349	23.31801	85.74359
3166.592	83.9715	23.33114	86.13778
3168.521	83.94979	23.34427	87.3862
3170.449	83.92959	23.3574	85.90478
3172.378	83.91158	23.37053	84.76525
3174.306	83.88334	23.38366	84.6476
3176.235	83.84881	23.39679	82.24929
3178.163	83.82766	23.40992	80.06939
3180.092	83.81689	23.42305	79.39737
3182.02	83.79821	23.43618	81.17462
3183.949	83.78082	23.44931	81.21414
3185.877	83.77515	23.46244	82.91163
3187.806	83.7648	23.47557	84.50977
3189.734	83.74174	23.4887	83.72728
3191.663	83.72528	23.50183	80.94649
3193.591	83.71812	23.51496	78.20796
3195.52	83.70892	23.52809	75.01379
3197.448	83.69502	23.54122	73.21421

3199.377	83.65841	23.55435	73.04713
3201.305	83.60516	23.56748	74.02967
3203.234	83.56053	23.58062	73.96154
3205.162	83.53242	23.59375	76.51035
3207.091	83.50892	23.60688	78.42992
3209.019	83.48487	23.62001	78.1555
3210.948	83.46027	23.63314	75.47496
3212.876	83.44066	23.64627	74.80132
3214.805	83.422	23.6594	74.81057
3216.733	83.39291	23.67253	75.92157
3218.662	83.36765	23.68566	75.65367
3220.59	83.35259	23.69879	75.29803
3222.519	83.34294	23.71192	76.06453
3224.447	83.32674	23.72505	75.58723
3226.376	83.3046	23.73818	74.79902
3228.304	83.2868	23.75131	73.37477
3230.233	83.27143	23.76444	71.6382
3232.161	83.26172	23.77757	72.55341
3234.09	83.23891	23.7907	72.8357
3236.018	83.1996	23.80383	73.51908
3237.947	83.15627	23.81696	74.4189
3239.875	83.1232	23.83009	76.07495
3241.804	83.08734	23.84322	76.8061
3243.732	83.04853	23.85635	76.18015
3245.661	83.02193	23.86948	75.25802
3247.589	83.00018	23.88261	74.71773
3249.518	82.99651	23.89574	74.88779
3251.446	82.99466	23.90887	75.34057
3253.375	82.981	23.922	76.12647
3255.303	82.9653	23.93513	74.79853
3257.232	82.94663	23.94826	76.62508
3259.16	82.92134	23.96139	78.28856
3261.089	82.89988	23.97452	78.03845
3263.017	82.8756	23.98765	77.23528
3264.946	82.8419	24.00078	74.35226
3266.874	82.80482	24.01391	73.06578
3268.802	82.76543	24.02704	71.75841
3270.731	82.72092	24.04018	71.50663
3272.66	82.68412	24.05331	69.84311
3274.588	82.66093	24.06644	67.89588
3276.517	82.6461	24.07957	69.90094
3278.445	82.63359	24.0927	68.39424
3280.374	82.6254	24.10583	67.25578
3282.302	82.61901	24.11896	66.56061
3284.23	82.60502	24.13209	65.89186
3286.159	82.59244	24.14522	66.52226
3288.088	82.59109	24.15835	66.71829

3290.016	82.57571	24.17148	67.47741
3291.945	82.54922	24.18461	66.16149
3293.873	82.518	24.19774	66.97597
3295.802	82.4949	24.21087	67.05615
3297.73	82.48373	24.224	65.41361
3299.658	82.47533	24.23713	65.13
3301.587	82.46458	24.25026	66.23022
3303.516	82.44953	24.26339	66.04615
3305.444	82.42923	24.27652	65.35746
3307.373	82.40826	24.28965	66.26417
3309.301	82.38166	24.30278	64.73588
3311.229	82.34	24.31591	64.08336
3313.158	82.28864	24.32904	63.52521
3315.086	82.24944	24.34217	62.51824
3317.015	82.20326	24.3553	62.24939
3318.944	82.14008	24.36843	60.40707
3320.872	82.07538	24.38156	60.55184
3322.801	82.02677	24.39469	59.64992
3324.729	81.97354	24.40782	59.40059
3326.657	81.91888	24.42095	60.6297
3328.586	81.87172	24.43408	58.70615
3330.514	81.81156	24.44721	58.45419
3332.443	81.745	24.46034	56.38746
3334.372	81.69592	24.47347	54.43268
3336.3	81.64954	24.4866	52.88748
3338.229	81.60722	24.49973	52.04387
3340.157	81.57136	24.51287	52.64018
3342.085	81.53064	24.526	53.45208
3344.014	81.47775	24.53913	54.26744
3345.942	81.41462	24.55226	54.53004
3347.871	81.34571	24.56539	54.72586
3349.8	81.28732	24.57852	55.00162
3351.728	81.23548	24.59165	54.75152
3353.656	81.18666	24.60478	53.82828
3355.585	81.1256	24.61791	52.16905
3357.513	81.04801	24.63104	52.25928
3359.442	80.9695	24.64417	54.03724
3361.37	80.91064	24.6573	55.89882
3363.299	80.87536	24.67043	56.56275
3365.228	80.83253	24.68356	57.34514
3367.156	80.76903	24.69669	58.18168
3369.084	80.70718	24.70982	56.89448
3371.013	80.6413	24.72295	55.83929
3372.941	80.57476	24.73608	54.37237
3374.87	80.52073	24.74921	53.61214
3376.798	80.46856	24.76234	52.57018
3378.727	80.40731	24.77547	53.34962

3380.656	80.34644	24.7886	53.30186
3382.584	80.27469	24.80173	53.67304
3384.512	80.2026	24.81486	52.80665
3386.441	80.14235	24.82799	52.64013
3388.369	80.0968	24.84112	52.29017
3390.298	80.06042	24.85425	52.80802
3392.226	80.02229	24.86738	53.51655
3394.155	79.98864	24.88051	55.06912
3396.083	79.96857	24.89364	53.85447
3398.012	79.9497	24.90677	53.16299
3399.94	79.94171	24.9199	52.52312
3401.869	79.92626	24.93303	52.51459
3403.797	79.88683	24.94616	51.33363
3405.726	79.83334	24.95929	50.39062
3407.654	79.78865	24.97243	51.75785
3409.583	79.75568	24.98556	51.00247
3411.511	79.7282	24.99869	50.07892
3413.44	79.6874	25.01182	49.99317
3415.368	79.64371	25.02495	47.88592
3417.297	79.60184	25.03808	47.26929
3419.225	79.56631	25.05121	45.71924
3421.154	79.5464	25.06434	45.92207
3423.082	79.54856	25.07747	45.17619
3425.011	79.55044	25.0906	43.90162
3426.939	79.54446	25.10373	46.91892
3428.868	79.52969	25.11686	47.95408
3430.796	79.49502	25.12999	48.87177
3432.725	79.46809	25.14312	49.42191
3434.653	79.48777	25.15625	48.62346
3436.582	79.51189	25.16938	49.26124
3438.51	79.5185	25.18251	47.85345
3440.439	79.5269	25.19564	47.19028
3442.367	79.54797	25.20877	45.84265
3444.296	79.55745	25.2219	44.95417
3446.224	79.57363	25.23503	45.28555
3448.153	79.59624	25.24816	45.99536
3450.081	79.61302	25.26129	45.30362
3452.01	79.61324	25.27442	46.37806
3453.938	79.60872	25.28755	45.26927
3455.867	79.59637	25.30068	46.06657
3457.795	79.58143	25.31381	47.53316
3459.724	79.58626	25.32694	47.69251
3461.652	79.60419	25.34007	48.20112
3463.581	79.61571	25.3532	47.31327
3465.509	79.63888	25.36633	46.11395
3467.438	79.67992	25.37946	46.42818
3469.366	79.73556	25.39259	46.49325

3471.295	79.77547	25.40572	45.18933
3473.223	79.79056	25.41885	44.27206
3475.152	79.79051	25.43198	44.55624
3477.08	79.79511	25.44512	45.54851
3479.009	79.78666	25.45825	44.65096
3480.937	79.77836	25.47138	44.54648
3482.866	79.77676	25.48451	42.79234
3484.794	79.78057	25.49764	41.52341
3486.723	79.79077	25.51077	41.42648
3488.651	79.8184	25.5239	40.43635
3490.58	79.86681	25.53703	39.1897
3492.508	79.92721	25.55016	40.61777
3494.437	79.99797	25.56329	41.30077
3496.365	80.07341	25.57642	43.43501
3498.294	80.12823	25.58955	46.10629
3500.222	80.16093	25.60268	48.35224
3502.151	80.1925	25.61581	49.02246
3504.079	80.22829	25.62894	49.60636
3506.008	80.24043	25.64207	49.55875
3507.936	80.22988	25.6552	48.32285
3509.865	80.23455	25.66833	49.29749
3511.793	80.24988	25.68146	48.65306
3513.722	80.25111	25.69459	48.47798
3515.65	80.2531	25.70772	49.84958
3517.579	80.2696	25.72085	50.40559
3519.507	80.29269	25.73398	49.64926
3521.436	80.31687	25.74711	48.44721
3523.364	80.36076	25.76024	48.09967
3525.293	80.3989	25.77337	48.211
3527.221	80.42594	25.7865	47.32208
3529.15	80.45248	25.79963	46.78583
3531.078	80.49271	25.81276	46.16382
3533.007	80.53883	25.82589	45.13291
3534.935	80.57841	25.83902	43.82225
3536.864	80.61653	25.85215	43.16588
3538.792	80.64889	25.86528	42.03801
3540.721	80.67346	25.87841	42.8202
3542.649	80.70627	25.89154	44.44273
3544.578	80.73955	25.90468	46.32786
3546.506	80.77624	25.91781	46.75876
3548.435	80.81899	25.93094	47.45736
3550.363	80.84191	25.94407	49.11639
3552.292	80.85558	25.9572	48.99803
3554.22	80.92468	25.97033	49.73051
3556.149	80.9723	25.98346	50.4639
3558.077	81.01456	25.99659	50.5352
3560.006	81.05335	26.00972	51.38766

3561.934	81.0647	26.02285	51.96772
3563.863	81.06577	26.03598	53.01742
3565.791	81.10712	26.04911	52.599
3567.72	81.16338	26.06224	52.4007
3569.648	81.21194	26.07537	52.36219
3571.577	81.24467	26.0885	52.33308
3573.505	81.29437	26.10163	54.56776
3575.434	81.37161	26.11476	54.46656
3577.362	81.42079	26.12789	53.96693
3579.291	81.47941	26.14102	54.83897
3581.219	81.57819	26.15415	55.81104
3583.148	81.63419	26.16728	56.59624
3585.076	81.6609	26.18041	57.12719
3587.005	81.68962	26.19354	58.27588
3588.933	81.72849	26.20667	58.76304
3590.862	81.75692	26.2198	61.11862
3592.79	81.78825	26.23293	62.9387
3594.719	81.839	26.24606	63.40934
3596.647	81.88129	26.25919	62.32293
3598.576	81.90647	26.27232	62.9452
3600.504	81.98857	26.28545	61.201
3602.433	82.05713	26.29858	60.72623
3604.361	82.0631	26.31171	60.24358
3606.29	82.10291	26.32484	60.97852
3608.218	82.15311	26.33797	60.48353
3610.146	82.17271	26.3511	60.18091
3612.075	82.16866	26.36424	59.59824
3614.004	82.17111	26.37737	59.00742
3615.932	82.24955	26.3905	58.20481
3617.861	82.2722	26.40363	60.01405
3619.789	82.26768	26.41676	60.213
3621.718	82.28785	26.42989	62.37694
3623.646	82.30134	26.44302	63.73888
3625.574	82.33563	26.45615	67.50168
3627.503	82.38049	26.46928	66.52525
3629.432	82.38424	26.48241	65.86863
3631.36	82.3794	26.49554	64.39811
3633.289	82.38818	26.50867	61.54614
3635.217	82.38781	26.5218	58.89672
3637.146	82.49747	26.53493	57.72432
3639.074	82.58792	26.54806	55.44291
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3650.645	82.64816	26.62684	62.65113

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3679.573	82.53324	26.82379	54.49411
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72.93735	25.25491
72.95048	23.83525
72.96361	23.85345
72.97674	26.0609
72.98987	26.3391
73.003	25.87528
73.01613	25.75189
73.02926	25.47499
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73.05552	24.08403
73.06865	23.72302
73.08178	22.95674
73.09491	24.74872
73.10804	25.86099
73.12117	25.01314
73.1343	25.51453
73.14743	26.06915
73.16056	25.77244
73.17369	25.41399
73.18682	24.28521
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73.22621	24.01561
73.23934	23.11736
73.25247	23.25398
73.2656	24.82931
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73.305	25.04205
73.31813	24.71193
73.33126	25.12525
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73.37065	23.91118
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73.42317	25.04025
73.4363	24.78718
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73.46256	25.00211
73.47569	25.03027
73.48882	24.2881
73.50195	25.26559
73.51508	26.3476
73.52821	26.70911

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73.55447	25.99879
73.5676	25.45799
73.58073	25.55018
73.59386	24.99635
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73.6989	21.73349
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74.06655	17.90825
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82.60124	22.59047
82.61437	23.04672
82.6275	22.8136
82.64063	22.66824
82.65376	22.73639
82.66689	22.49695
82.68002	22.20139
82.69315	22.8169
82.70628	21.66428
82.71941	21.99226
82.73254	21.73679
82.74567	21.10886
82.7588	21.22689
82.77193	21.33921
82.78506	20.97175

82.79819 21.15991
82.81132 21.06992
82.82445 21.14728
82.83758 21.16712
82.85071 21.04588
82.86384 20.85069
82.87697 21.10775
82.8901 21.55369
82.90323 21.49972
82.91636 22.25768
82.92949 22.38603
82.94262 22.0901
82.95575 21.68623
82.96888 22.56329
82.98201 22.04295
82.99514 22.91286
83.00827 22.50063
83.0214 21.65393
83.03454 21.38295
83.04767 21.70613
83.0608 21.82818
83.07393 22.43365
83.08706 22.4061
83.10019 24.09988
83.11332 24.3583
83.12645 24.81551
83.13958 24.1469
83.15271 23.45646
83.16584 22.55895
83.17897 22.1338
83.1921 21.93943
83.20523 23.10162
83.21836 22.34925
83.23149 22.72658
83.24462 21.60285
83.25775 21.79375
83.27088 21.52185
83.28401 21.22782
83.29714 19.73887
83.31027 18.70785
83.3234 18.65359
83.33653 20.30026
83.34966 21.30316
83.36279 22.33632
83.37592 22.85202
83.38905 24.43991
83.40218 25.67971

83.41531	25.4292
83.42844	24.96851
83.44157	24.3336
83.4547	24.59276
83.46783	25.75504
83.48096	25.68163
83.49409	25.08707
83.50723	24.65362
83.52036	24.29376
83.53349	23.95879
83.54662	23.37115
83.55975	23.50226
83.57288	23.55687
83.58601	24.19373
83.59914	24.05058
83.61227	23.55394
83.6254	24.64579
83.63853	25.451
83.65166	25.39322
83.66479	25.27309
83.67792	25.87624
83.69105	25.24993
83.70418	25.04613
83.71731	24.61063
83.73044	22.80999
83.74357	23.2906
83.7567	23.94166
83.76983	24.39017
83.78296	24.56422
83.79609	24.2511
83.80922	23.93878
83.82235	23.54061
83.83548	23.59611
83.84861	22.66315
83.86174	21.01843
83.87487	20.63057
83.888	20.00138
83.90113	19.62561
83.91426	19.29823
83.92739	19.02292
83.94052	18.74389
83.95365	19.80498
83.96679	20.48708
83.97992	19.99494
83.99305	20.24138
84.00618	19.81118
84.01931	18.7253

84.03244	17.40629
84.04557	16.62874
84.0587	15.90071
84.07183	15.26298
84.08496	15.92968
84.09809	17.22762
84.11122	17.87696
84.12435	17.87034
84.13748	16.71552
84.15061	15.66347
84.16374	14.69832
84.17687	15.04299
84.19	15.03302
84.20313	15.63815
84.21626	16.75755
84.22939	17.75201
84.24252	17.89225
84.25565	16.75289
84.26878	15.24333
84.28191	13.53038
84.29504	12.59933
84.30817	12.43234
84.3213	11.68699
84.33443	11.92576
84.34756	12.38736
84.36069	12.80134
84.37382	13.46111
84.38695	13.40005
84.40008	13.446
84.41321	12.89092
84.42635	12.50063
84.43948	12.37169
84.45261	12.06939
84.46574	12.13833
84.47887	12.12962
84.492	12.66321
84.50513	12.50402
84.51826	13.25531
84.53139	14.12437
84.54452	13.82258
84.55765	14.24719
84.57078	14.50153
84.58391	14.49272
84.59704	14.32414
84.61017	14.09121
84.6233	14.13862
84.63643	13.6473

84.64956	14.32561
84.66269	14.08654
84.67582	13.6455
84.68895	14.61537
84.70208	13.74516
84.71521	13.7183
84.72834	13.47219
84.74147	12.71823
84.7546	12.21147
84.76773	12.28921
84.78086	12.16043
84.79399	11.38248
84.80712	10.96587
84.82025	11.51863
84.83338	11.07841
84.84651	11.97263
84.85964	11.98233
84.87277	12.28369
84.8859	12.97299
84.89904	13.42435
84.91217	13.30669
84.9253	13.31103
84.93843	12.97151
84.95156	12.23176
84.96469	11.95132
84.97782	11.63487
84.99095	11.53474
85.00408	11.00435
85.01721	11.28334
85.03034	10.35749
85.04347	10.4874
85.0566	10.65153
85.06973	10.01355
85.08286	10.20109
85.09599	10.29114
85.10912	11.08379
85.12225	11.49236
85.13538	10.89858
85.14851	11.76726
85.16164	11.47698
85.17477	11.44239
85.1879	10.68866
85.20103	10.79812
85.21416	11.30799
85.22729	10.56883
85.24042	10.45042
85.25355	9.98871

85.26668	9.12336
85.27981	9.08183
85.29294	9.44268
85.30607	9.11981
85.3192	9.06594
85.33233	9.94604
85.34546	11.30444
85.3586	11.25408
85.37173	10.77517
85.38486	11.17784
85.39799	10.21424
85.41112	9.7363
85.42425	9.0963
85.43738	7.66354
85.45051	7.07752
85.46364	7.42634
85.47677	8.21776
85.4899	8.56788
85.50303	10.45551
85.51616	12.24792
85.52929	13.29287
85.54242	13.3757
85.55555	12.63234
85.56868	11.67991
85.58181	10.60904
85.59494	10.03629
85.60807	8.88034
85.6212	8.76996
85.63433	10.49842
85.64746	11.05603
85.66059	11.26239
85.67372	10.86177
85.68685	10.97258
85.69998	11.03773
85.71311	10.90599
85.72624	11.29927
85.73937	11.48489
85.7525	11.29662
85.76563	13.36266
85.77876	14.66001
85.79189	14.79301
85.80502	15.25618
85.81816	15.08234
85.83129	14.85124
85.84442	14.70702
85.85755	15.81738
85.87068	14.74863

85.88381	14.60877
85.89694	16.0016
85.91007	15.60644
85.9232	15.14156
85.93633	14.41804
85.94946	14.29686
85.96259	14.8457
85.97572	14.68276
85.98885	15.42689
86.00198	14.23748
86.01511	15.39413
86.02824	15.7617
86.04137	15.10369
86.0545	16.133
86.06763	15.39727
86.08076	16.27041
86.09389	15.21963
86.10702	14.05069
86.12015	14.63676
86.13328	14.56969
86.14641	15.77984
86.15954	15.82084
86.17267	17.00255
86.1858	18.1624
86.19893	18.4128
86.21206	17.37197
86.22519	16.09517
86.23832	15.60055
86.25145	16.24608
86.26458	16.20732
86.27771	17.06883
86.29085	17.3902
86.30398	17.94743
86.31711	17.40403
86.33024	17.31288
86.34337	16.15735
86.3565	15.78429
86.36963	16.04925
86.38276	17.25697
86.39589	16.73676
86.40902	16.86278
86.42215	16.74773
86.43528	15.13501
86.44841	13.36759
86.46154	12.09971
86.47467	11.11697
86.4878	10.54993

86.50093	11.27033
86.51406	11.70378
86.52719	11.36145
86.54032	12.31166
86.55345	13.43797
86.56658	13.48661
86.57971	13.57343
86.59284	13.71146
86.60597	13.6022
86.6191	13.26914
86.63223	13.21982
86.64536	12.28399
86.65849	12.42205
86.67162	13.38137
86.68475	13.97191
86.69788	14.39077
86.71101	14.89001
86.72414	14.59451
86.73727	15.32532
86.75041	15.38827
86.76354	14.40951
86.77667	13.14523
86.7898	13.0163
86.80293	13.10794
86.81606	12.45808
86.82919	12.28171
86.84232	12.63292
86.85545	12.33637
86.86858	13.95968
86.88171	14.22465
86.89484	12.8189
86.90797	12.64112
86.9211	12.92861
86.93423	13.41968
86.94736	12.61728
86.96049	12.27562
86.97362	11.72773
86.98675	10.90367
86.99988	11.07081
87.01301	11.49279
87.02614	11.45139
87.03927	12.71047
87.0524	13.51721
87.06553	13.88209
87.07866	12.60062
87.09179	11.64139
87.10492	9.99166

87.11805	8.81654
87.13118	9.0498
87.14431	9.47872
87.15744	9.54933
87.17057	10.08069
87.1837	9.98638
87.19683	10.1172
87.20996	10.22021
87.2231	10.24275
87.23623	10.11572
87.24936	10.4381
87.26249	11.47386
87.27562	10.95105
87.28875	10.13792
87.30188	9.44397
87.31501	8.47867
87.32814	8.01179
87.34127	7.1917
87.3544	6.83972
87.36753	7.31978
87.38066	7.89043
87.39379	8.74058
87.40692	8.60369
87.42005	8.77801
87.43318	9.17406
87.44631	8.43041
87.45944	7.94559
87.47257	7.08689
87.4857	7.40943
87.49883	7.30882
87.51196	6.20305
87.52509	6.1321
87.53822	5.90309
87.55135	7.01363
87.56448	6.86781
87.57761	6.33055
87.59074	6.2988
87.60387	6.02996
87.617	4.74775
87.63013	3.64563
87.64326	3.12604
87.65639	2.94712
87.66952	3.81351
87.68266	5.39187
87.69579	6.08515
87.70892	7.45386
87.72205	8.53366

87.73518	9.20135
87.74831	8.81943
87.76144	8.25763
87.77457	8.5123
87.7877	8.25801
87.80083	9.16854
87.81396	9.47495
87.82709	9.92803
87.84022	9.40712
87.85335	8.18069
87.86648	7.86928
87.87961	7.186
87.89274	6.82271
87.90587	7.19149
87.919	7.58432
87.93213	7.96608
87.94526	8.31864
87.95839	8.77255
87.97152	6.65714
87.98465	5.9688
87.99778	6.60134
88.01091	6.49948
88.02404	6.59216
88.03717	6.68567
88.0503	6.27474
88.06343	6.39141
88.07656	6.29055
88.08969	6.27491
88.10282	5.26743
88.11595	6.16822
88.12908	6.0208
88.14222	5.68248
88.15535	4.99635
88.16848	4.94317
88.18161	3.70245
88.19474	3.75231
88.20787	3.78006
88.221	4.19351
88.23413	5.62085
88.24726	6.55877
88.26039	6.92542
88.27352	7.27477
88.28665	6.71896
88.29978	5.9071
88.31291	4.59109
88.32604	4.34618
88.33917	5.32613

88.3523	5.92571
88.36543	7.52557
88.37856	7.79913
88.39169	7.63793
88.40482	6.44866
88.41795	5.54937
88.43108	4.49004
88.44421	4.00222
88.45734	3.71602
88.47047	4.49411
88.4836	4.9278
88.49673	5.84039
88.50986	6.7419
88.52299	7.4055
88.53612	7.23502
88.54925	7.2826
88.56238	7.27379
88.57551	7.75238
88.58864	7.35978
88.60177	6.90458
88.61491	6.92742
88.62804	6.97177
88.64117	6.69353
88.6543	7.6124
88.66743	7.87959
88.68056	7.54011
88.69369	7.52575
88.70682	7.10242
88.71995	7.04668
88.73308	6.97421
88.74621	7.26509
88.75934	7.42737
88.77247	6.98498
88.7856	8.52252
88.79873	8.9269
88.81186	9.33297
88.82499	9.5286
88.83812	8.86977
88.85125	9.2673
88.86438	9.191
88.87751	9.3339
88.89064	9.06669
88.90377	8.05689
88.9169	7.67637
88.93003	7.54789
88.94316	7.38202
88.95629	6.64462

88.96942	5.76871
88.98255	5.58157
88.99568	6.51876
89.00881	7.56385
89.02194	7.8216
89.03507	7.50271
89.0482	7.78932
89.06133	8.41352
89.07447	8.19004
89.0876	7.36615
89.10073	6.31227
89.11386	5.93612
89.12699	6.48861
89.14012	6.1113
89.15325	5.94498
89.16638	5.88061
89.17951	6.27163
89.19264	6.13162
89.20577	7.00097
89.2189	7.22459
89.23203	7.34483
89.24516	7.56674
89.25829	8.32278
89.27142	8.63246
89.28455	8.24997
89.29768	8.22064
89.31081	8.04913
89.32394	7.8442
89.33707	7.4597
89.3502	7.03328
89.36333	6.64452
89.37646	6.55143
89.38959	6.95481
89.40272	7.21091
89.41585	5.48593
89.42898	5.29285
89.44211	5.5934
89.45524	6.12619
89.46837	6.18714
89.4815	6.55508
89.49463	6.92104
89.50776	7.19694
89.52089	7.81014
89.53403	7.61221
89.54716	5.85237
89.56029	5.80143
89.57342	5.59217

89.58655 5.41717
 89.59968 5.67295
 89.61281 5.49285
 89.62594 5.22015
 89.63907 5.04883
 89.6522 4.53398
 89.66533 4.07973
 89.67846 3.70252
 89.69159 3.76723
 89.70472 4.08259
 89.71785 4.64858
 89.73098 5.46522
 89.74411 6.53251
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 89.95419
 89.96732
 89.98045
 89.99358
 90.00672
 90.01985

PANI-g-NC-H6							
FTIR		XRD		Raman		Cyclic voltammetry	
516.8373	68.62281	5.29013	6.15045	56.8234	59.93319	<I> (mA)	e/V vs. Ag/AgCl / KCl (sat
518.7657	69.44321	5.30326	7.0278	61.2744	83.47819	0.00266	-4.12901
520.6943	70.14608	5.31639	6.28478	65.7253	100	0.00869	-1.26744
522.6227	70.82186	5.32952	5.14352	70.1721	98.5024	0.02595	0.06363
524.5513	71.42831	5.34265	4.88894	74.6188	92.57552	0.04221	0.58177
526.4797	71.8791	5.35578	3.77154	79.0613	81.87511	0.05822	0.8752
528.4083	72.24623	5.36891	3.83202	83.5038	72.89438	0.07397	1.08999
530.3367	72.54396	5.38204	4.2829	87.9421	66.90189	0.09002	1.23686
532.2653	72.81432	5.39517	4.8563	92.3804	64.01867	0.10625	1.34298
534.1937	73.03736	5.4083	4.71911	96.8145	61.45675	0.12212	1.47257
536.1223	73.20009	5.42143	6.8314	101.249	57.25976	0.1397	1.55945

538.0507	73.32269	5.43456	8.44155	105.678	52.11808	0.15575	1.65225
539.9792	73.46212	5.44769	8.81473	110.108	46.87579	0.17142	1.73742
541.9077	73.5899	5.46083	8.85945	114.534	42.71103	0.18754	1.80212
543.8362	73.71731	5.47396	9.51023	118.96	39.94626	0.20377	1.88338
545.7647	73.85694	5.48709	10.76186	123.381	37.36557	0.21957	1.94937
547.6932	73.98855	5.50022	11.57053	127.801	34.75891	0.23536	2.01021
549.6217	74.08694	5.51335	10.89353	132.22	32.12583	0.25162	2.09139
551.5502	74.20216	5.52648	10.68022	136.635	28.50099	0.26771	2.15596
553.4787	74.36958	5.53961	9.80301	141.05	25.15318	0.28356	2.22425
555.4072	74.56152	5.55274	9.43984	145.461	22.43617	0.2994	2.29605
557.3357	74.72128	5.56587	7.88304	149.87	20.13645	0.31563	2.34617
559.2642	74.88741	5.579	6.77956	154.279	18.95022	0.3318	2.42704
561.1927	75.1082	5.59213	6.87461	158.684	17.34246	0.34755	2.49061
563.1212	75.38149	5.60526	8.07949	163.087	15.64662	0.36331	2.55411
565.0497	75.66335	5.61839	9.65683	167.487	13.91288	0.37963	2.65524
566.9782	75.93784	5.63152	10.31452	171.888	12.15351	0.39575	2.73831
568.9067	76.21491	5.64465	10.40629	176.284	10.38669	0.41163	2.83878
570.8352	76.53536	5.65778	11.15411	180.679	8.74308	0.4274	2.93622
572.7637	76.8735	5.67091	10.40352	185.071	7.37686	0.44352	3.01507
574.6922	77.17466	5.68404	10.37962	189.461	6.20015	0.45982	3.11964
576.6207	77.43462	5.69717	9.24199	193.849	5.19229	0.47568	3.19899
578.5492	77.72879	5.7103	8.83888	198.238	4.39696	0.49139	3.27127
580.4777	78.06172	5.72343	9.32204	202.622	3.67614	0.50747	3.37148
582.4062	78.41294	5.73656	9.04066	207.004	2.98391	0.52369	3.43814
584.3347	78.76228	5.74969	9.44321	211.383	2.16634	0.53982	3.5153
586.2632	79.13856	5.76282	10.71085	215.761	1.33603	0.55563	3.57768
588.1917	79.50691	5.77595	11.51091	220.137	0.57471	0.57135	3.61973
590.1202	79.89146	5.78908	12.80524	224.511	-0.14716	0.58749	3.67989
592.0486	80.2951	5.80221	13.59057	228.882	-0.77756	0.60368	3.71223
593.9772	80.72358	5.81534	15.80257	233.252	-1.11653	0.61975	3.72937
595.9056	81.14986	5.82847	15.80154	237.619	-1.36884	0.63568	3.76846
597.8342	81.57495	5.8416	16.60903	241.985	-1.47575	0.64987	3.77217
599.7626	81.98325	5.85473	18.00684	246.348	-1.64511	0.66583	3.7783
601.6912	82.38714	5.86786	17.84979	250.71	-1.93897	0.68198	3.77049
603.6196	82.80092	5.88099	19.06652	255.069	-2.3386	0.69815	3.70583
605.5482	83.23728	5.89412	20.56426	259.426	-2.6134	0.71419	3.63384
607.4766	83.68923	5.90725	20.53874	263.781	-2.83018	0.73002	3.51503
609.4052	84.18304	5.92038	20.20592	268.132	-2.89227	0.74581	3.38363
611.3336	84.69849	5.93352	19.76115	272.483	-2.89619	0.76184	3.29448
613.2621	85.18613	5.94665	20.73695	276.832	-2.77401	0.77796	3.19557
615.1906	85.61697	5.95978	20.31963	281.179	-2.37808	0.79413	3.119
617.1191	86.06777	5.97291	21.23558	285.524	-1.89907	0.81023	3.06125
619.0476	86.5701	5.98604	22.31823	289.865	-1.37332	0.82612	2.98304
620.9761	87.06439	5.99917	22.20027	294.206	-0.93402	0.84204	2.92508
622.9046	87.49828	6.0123	23.36555	298.545	-0.49974	0.85787	2.83243
624.8331	87.89751	6.02543	24.38834	302.882	-0.39519	0.87375	2.71498
626.7616	88.27065	6.03856	23.18062	307.215	-0.19632	0.88986	2.6334

628.6901	88.64986	6.05169	23.10657	311.547	-0.01198	0.90603	2.52929
630.6186	89.03384	6.06482	22.90604	315.878	0.1787	0.92216	2.44722
632.5471	89.42693	6.07795	22.41921	320.205	0.66297	0.93826	2.38043
634.4756	89.81487	6.09108	21.21674	324.531	1.62255	0.95418	2.30541
636.4041	90.21444	6.10421	21.22178	328.856	2.66269	0.97022	2.26273
638.3326	90.58966	6.11734	21.45061	333.177	3.64856	0.98608	2.21608
640.2611	90.94544	6.13047	21.3548	337.497	4.33713	1.00191	2.15959
642.1896	91.27696	6.1436	23.14437	341.814	4.93825	1.01789	2.14658
644.1181	91.60749	6.15673	25.0255	346.13	5.39328	1.03381	2.11792
646.0466	91.91519	6.16986	25.71099	350.443	5.75618	1.04994	2.0924
647.975	92.22713	6.18299	27.44692	354.755	6.11139	1.066	2.07354
649.9036	92.54492	6.19612	27.63695	359.064	6.47897	1.08205	2.04857
651.832	92.87068	6.20925	26.76909	363.372	6.92329	1.09821	2.04172
653.7606	93.18318	6.22238	26.94992	367.676	7.45638	1.11422	2.02553
655.689	93.45756	6.23551	26.43982	371.979	8.12084	1.1302	2.00368
657.6176	93.70106	6.24864	26.09124	376.281	9.28498	1.14625	2.01671
659.546	93.96226	6.26177	25.67543	380.58	10.16188	1.16214	2.01521
661.4745	94.21935	6.2749	27.40383	384.876	11.12591	1.17818	2.01996
663.403	94.46082	6.28803	27.03072	389.172	12.10125	1.19405	2.03665
665.3315	94.68987	6.30116	26.14718	393.465	13.05353	1.20997	2.04566
667.26	94.93255	6.31429	25.1945	397.755	13.96829	1.22594	2.07482
669.1885	95.15549	6.32742	23.89127	402.044	14.87445	1.2419	2.10419
671.117	95.34724	6.34055	22.58037	406.332	15.58885	1.25787	2.13214
673.0455	95.51852	6.35368	21.79305	410.616	16.27337	1.27392	2.20331
674.974	95.72068	6.36681	19.97282	414.899	16.67695	1.28989	2.27253
676.9025	95.89345	6.37994	20.71542	419.179	16.95834	1.30605	2.36162
678.831	95.94331	6.39308	21.71564	423.457	17.16029	1.32208	2.47697
680.7595	95.76165	6.40621	23.23611	427.734	17.5419	1.3381	2.60478
682.688	95.33852	6.41934	23.80693	432.008	18.10248	1.35418	2.78447
684.6165	94.77688	6.43247	24.53395	436.283	18.79517	1.3702	3.00002
686.545	94.21323	6.4456	25.36451	440.553	19.58123	1.38619	3.26549
688.4735	93.70069	6.45873	26.37431	444.821	20.31654	1.39541	2.64132
690.402	93.32884	6.47186	25.09835	449.088	21.0415	1.37946	1.22201
692.3305	93.13191	6.48499	24.2516	453.352	21.75824	1.36221	0.53255
694.259	93.13074	6.49812	22.61951	457.613	22.44484	1.3462	0.16072
696.1875	93.3034	6.51125	23.20236	461.873	23.18064	1.32871	-0.08981
698.116	93.66575	6.52438	23.31234	466.132	23.96762	1.31083	-0.25573
700.0445	94.19321	6.53751	23.37396	470.388	24.78063	1.29485	-0.36594
701.973	94.84833	6.55064	24.10485	474.643	25.60107	1.2789	-0.43732
703.9015	95.50237	6.56377	24.4695	478.895	26.46161	1.26283	-0.50233
705.83	96.03968	6.5769	25.08573	483.146	27.25399	1.24691	-0.54758
707.7585	96.37709	6.59003	25.23192	487.393	27.95944	1.23093	-0.57547
709.687	96.55387	6.60316	24.52477	491.639	28.70036	1.21488	-0.62343
711.6155	96.61086	6.61629	25.28424	495.884	29.90145	1.1989	-0.65138
713.5439	96.59886	6.62942	26.1229	500.127	30.79561	1.18291	-0.67836
715.4725	96.53549	6.64255	27.43981	504.365	31.06476	1.16704	-0.70343
717.4009	96.45233	6.65568	27.94314	508.604	31.28986	1.15113	-0.72462

719.3295	96.31683	6.66881	28.16594	512.841	31.2989	1.13511	-0.75027
721.2579	96.14191	6.68194	27.17251	517.074	31.85413	1.1192	-0.77045
723.1865	95.93858	6.69507	27.04099	521.307	32.32589	1.10323	-0.78125
725.1149	95.72941	6.7082	26.29697	525.535	32.99263	1.08716	-0.81915
727.0435	95.49805	6.72133	25.04754	529.764	33.49731	1.07112	-0.84179
728.9719	95.24444	6.73446	24.73259	533.989	33.66631	1.05503	-0.86845
730.9005	94.94996	6.74759	25.66702	538.214	35.03548	1.03891	-0.90057
732.8289	94.60249	6.76072	26.14946	542.436	35.53275	1.02288	-0.92073
734.7574	94.17709	6.77385	26.6726	546.657	35.95954	1.00677	-0.95551
736.6859	93.7085	6.78698	27.64521	550.874	36.32791	0.99089	-0.98631
738.6144	93.22296	6.80011	28.31221	555.091	36.64737	0.97503	-1.01005
740.5429	92.75323	6.81324	28.57126	559.304	36.74636	0.95911	-1.06291
742.4714	92.29889	6.82637	29.92128	563.516	36.75911	0.94322	-1.10732
744.3999	91.88224	6.8395	29.87504	567.725	37.23853	0.92711	-1.15918
746.3284	91.52612	6.85263	28.92161	571.935	38.0126	0.91104	-1.22393
748.2569	91.27136	6.86577	28.22459	576.14	38.50314	0.895	-1.28119
750.1854	91.08639	6.8789	27.64661	580.344	38.53722	0.87877	-1.37
752.1139	90.96691	6.89203	26.26103	584.545	38.72825	0.86279	-1.46492
754.0424	90.88491	6.90516	25.58252	588.747	39.00064	0.84537	-1.57451
755.9709	90.82649	6.91829	26.31817	592.945	39.535	0.82928	-1.72039
757.8994	90.729	6.93142	26.04443	597.14	39.88158	0.81344	-1.85301
759.8279	90.52358	6.94455	27.52119	601.334	40.02346	0.79757	-1.9854
761.7564	90.15329	6.95768	27.55333	605.526	40.04641	0.78168	-2.10774
763.6849	89.61814	6.97081	27.7193	609.716	39.85979	0.76564	-2.21636
765.6134	88.87829	6.98394	27.35681	613.904	39.56537	0.74954	-2.34219
767.5419	87.92297	6.99707	27.44028	618.09	39.10311	0.73341	-2.46304
769.4704	86.74747	7.0102	27.99379	622.275	38.51404	0.71731	-2.59463
771.3989	85.40402	7.02333	27.31451	626.457	38.14057	0.70129	-2.77016
773.3274	83.94924	7.03646	27.11264	630.637	38.47811	0.68549	-2.94298
775.2559	82.44157	7.04959	28.0643	634.816	38.71503	0.66962	-3.13397
777.1844	80.93509	7.06272	26.59641	638.99	39.01571	0.65364	-3.31434
779.1129	79.50458	7.07585	26.42654	643.165	38.44774	0.63763	-3.46302
781.0414	78.18897	7.08898	25.089	647.337	38.19504	0.62161	-3.61485
782.9698	77.02351	7.10211	25.22252	651.508	37.92334	0.60566	-3.73569
784.8984	76.02287	7.11524	25.11776	655.677	37.80048	0.58953	-3.83479
786.8268	75.2052	7.12837	24.69931	659.842	37.77799	0.57332	-3.94809
788.7554	74.54554	7.1415	25.10684	664.007	37.7657	0.55731	-4.02563
790.6838	74.02885	7.15463	24.80909	668.17	37.78239	0.54139	-4.11054
792.6124	73.64434	7.16776	25.77177	672.329	37.81833	0.52556	-4.17488
794.5408	73.40611	7.18089	25.91224	676.488	37.82598	0.50966	-4.21027
796.4694	73.29951	7.19402	24.19574	680.644	37.62336	0.49356	-4.2542
798.3978	73.31881	7.20715	23.85333	684.799	37.3141	0.47744	-4.25917
800.3264	73.44125	7.22028	23.03872	688.951	36.9142	0.46127	-4.24795
802.2548	73.66826	7.23341	23.66483	693.102	36.44429	0.44535	-4.24423
804.1833	73.99467	7.24654	23.52148	697.25	35.9454	0.42961	-4.2185
806.1118	74.41155	7.25967	22.82295	701.398	35.58329	0.4136	-4.19565
808.0403	74.89448	7.2728	22.9582	705.542	35.3357	0.39751	-4.15829

809.9688	75.46214	7.28593	23.37067	709.684	35.24644	0.38131	-4.09681
811.8973	76.11813	7.29906	23.54037	713.826	35.10062	0.36525	-4.05786
813.8258	76.86277	7.31219	23.76914	717.964	35.03873	0.34958	-3.99822
815.7543	77.67396	7.32533	23.5325	722.101	34.99839	0.33367	-3.9372
817.6828	78.56442	7.33846	24.29177	726.235	34.76424	0.31746	-3.90799
819.6113	79.54823	7.35159	24.76586	730.37	34.10817	0.30127	-3.86449
821.5398	80.63235	7.36472	27.26618	734.5	33.51076	0.28542	-3.84028
823.4683	81.80695	7.37785	28.42757	738.629	33.08026	0.26962	-3.81878
825.3968	83.07362	7.39098	28.07972	742.756	32.39034	0.25351	-3.78801
827.3253	84.4176	7.40411	28.33359	746.881	31.86456	0.23723	-3.78829
829.2538	85.83637	7.41724	28.5203	751.004	31.48923	0.22156	-3.77614
831.1823	87.31654	7.43037	27.51243	755.125	31.19249	0.20566	-3.76171
833.1108	88.85533	7.4435	27.36665	759.245	31.07542	0.18939	-3.77225
835.0393	90.41833	7.45663	26.36052	763.362	30.64909	0.17333	-3.77021
836.9678	91.98893	7.46976	26.67682	767.478	30.26472	0.15761	-3.77902
838.8963	93.51069	7.48289	27.09567	771.591	29.92811	0.14163	-3.78151
840.8248	94.95381	7.49602	27.87077	775.703	29.48973	0.12536	-3.77967
842.7533	96.2867	7.50915	28.06179	779.811	29.02144	0.1094	-3.79766
844.6818	97.47335	7.52228	26.97042	783.919	28.65956	0.09367	-3.80465
846.6103	98.45644	7.53541	27.05855	788.026	28.16716	0.07749	-3.81625
848.5388	99.20686	7.54854	26.76314	792.13	27.65389	0.0612	-3.85903
850.4673	99.70255	7.56167	25.81378	796.23	27.23776	0.04557	-3.8978
852.3958	99.96801	7.5748	26.4442	800.331	26.81816	0.02961	-3.96769
854.3243	100	7.58793	25.92971	804.43	26.18295	0.01334	-4.0648
856.2527	99.82315	7.60106	27.05008	808.525	25.19421	-0.00175	-4.1749
858.1813	99.45879	7.61419	27.29122	812.62	24.13222	0.0137	-0.72414
860.1097	98.96767	7.62732	27.30364	816.711	23.26727		
862.0383	98.35619	7.64045	27.78852	820.802	23.1211		
863.9667	97.64472	7.65358	27.47545	824.889	22.65861		
865.8953	96.84529	7.66671	27.33646	828.977	22.46211		
867.8237	96.00369	7.67984	26.72291	833.061	22.21408		
869.7523	95.13045	7.69297	27.67651	837.143	22.01142		
871.6807	94.23199	7.7061	28.43995	841.225	21.70921		
873.6093	93.31007	7.71923	28.9696	845.303	21.20501		
875.5377	92.38327	7.73236	28.57066	849.379	20.37792		
877.4662	91.43356	7.74549	28.38534	853.453	19.31154		
879.3947	90.46034	7.75862	27.93434	857.528	18.21584		
881.3232	89.45926	7.77175	27.95066	861.599	17.09477		
883.2517	88.45145	7.78489	27.23006	865.668	16.01525		
885.1802	87.42867	7.79802	26.50919	869.735	15.12592		
887.1087	86.39708	7.81115	26.35059	873.8	14.32183		
889.0372	85.3506	7.82428	27.22415	877.863	13.7472		
890.9657	84.30488	7.83741	27.23094	881.925	13.18525		
892.8942	83.2782	7.85054	27.79063	885.984	12.68307		
894.8227	82.27561	7.86367	27.87999	890.042	12.21886		
896.7512	81.28584	7.8768	27.94022	894.098	11.64703		
898.6797	80.33765	7.88993	27.84604	898.152	11.12895		

900.6082	79.44508	7.90306	28.14971	902.203	10.61935
902.5367	78.59527	7.91619	28.58873	906.253	10.29291
904.4651	77.75885	7.92932	29.43789	910.302	9.88237
906.3937	76.94434	7.94245	30.08585	914.349	9.34998
908.3221	76.15452	7.95558	30.49816	918.392	8.77656
910.2507	75.38776	7.96871	31.45228	922.435	8.13876
912.1791	74.6272	7.98184	32.28862	926.474	7.48174
914.1077	73.87775	7.99497	32.32783	930.514	6.91172
916.0361	73.14098	8.0081	31.03756	934.55	6.39857
917.9647	72.42099	8.02123	29.34943	938.585	5.89194
919.8931	71.72109	8.03436	28.40763	942.617	5.47271
921.8217	71.04655	8.04749	28.03367	946.65	5.17479
923.7501	70.40053	8.06062	28.64622	950.678	4.80713
925.6786	69.79433	8.07375	28.86973	954.705	4.37953
927.6071	69.21621	8.08688	28.90692	958.732	3.95083
929.5356	68.67022	8.10001	29.41927	962.755	3.37883
931.4641	68.17229	8.11314	29.89934	966.776	2.78111
933.3926	67.72082	8.12627	29.83279	970.795	2.15609
935.3211	67.29975	8.1394	30.12026	974.815	1.62827
937.2496	66.90865	8.15253	30.21322	978.83	1.01037
939.1781	66.56128	8.16566	31.56622	982.844	0.45908
941.1066	66.25554	8.17879	32.93336	986.856	-0.00607
943.0351	65.97252	8.19192	35.11676	990.867	-0.30236
944.9636	65.70615	8.20505	36.37401	994.875	-0.47888
946.8921	65.47233	8.21818	36.43007	998.882	-0.36741
948.8206	65.27839	8.23131	36.86944	1002.88	-0.00551
950.7491	65.11433	8.24444	36.87232	1006.89	0.33301
952.6776	64.9681	8.25758	37.10145	1010.89	0.60454
954.6061	64.83707	8.27071	36.99957	1014.89	0.78147
956.5346	64.74039	8.28384	36.79854	1018.89	0.73103
958.4631	64.68578	8.29697	36.32072	1022.88	0.43628
960.3916	64.65907	8.3101	36.09191	1026.87	-0.26571
962.3201	64.65806	8.32323	35.81356	1030.87	-0.91458
964.2486	64.70107	8.33636	34.93346	1034.86	-1.39057
966.1771	64.80099	8.34949	34.97403	1038.84	-1.26448
968.1056	64.9676	8.36262	35.59619	1042.83	-1.18933
970.0341	65.19415	8.37575	35.36215	1046.81	-1.36129
971.9626	65.47015	8.38888	35.52533	1050.8	-1.72758
973.8911	65.7759	8.40201	35.29576	1054.78	-1.59229
975.8196	66.07838	8.41514	35.10084	1058.75	-1.48632
977.748	66.33928	8.42827	34.76646	1062.73	-1.40931
979.6766	66.51733	8.4414	34.97043	1066.71	-1.36681
981.605	66.56762	8.45453	34.77413	1070.68	-1.36099
983.5336	66.44231	8.46766	34.38677	1074.65	-1.42779
985.462	66.10737	8.48079	35.12919	1078.62	-1.54332
987.3906	65.54866	8.49392	34.69762	1082.59	-1.74992
989.319	64.77111	8.50705	33.28364	1086.55	-2.11919

991.2476	63.78215	8.52018	32.01484	1090.52	-2.47989
993.176	62.60708	8.53331	32.39323	1094.48	-2.8341
995.1046	61.3033	8.54644	31.64176	1098.44	-3.22635
997.033	59.91789	8.55957	31.52357	1102.4	-3.64679
998.9615	58.46712	8.5727	31.68887	1106.35	-3.31697
1000.89	56.97163	8.58583	32.14458	1110.3	-1.99192
1002.819	55.45724	8.59896	31.92534	1114.26	-0.61247
1004.747	53.95231	8.61209	31.18446	1118.21	0.30422
1006.676	52.46172	8.62522	30.1106	1122.16	1.19682
1008.604	50.99134	8.63835	28.42702	1126.1	2.19247
1010.533	49.54106	8.65148	27.52031	1130.05	3.33223
1012.461	48.12619	8.66461	26.76632	1133.99	4.69597
1014.39	46.74998	8.67774	26.38144	1137.93	6.22932
1016.318	45.4092	8.69087	26.75604	1141.87	8.04357
1018.247	44.11252	8.704	27.43166	1145.81	10.05935
1020.175	42.87314	8.71714	27.71475	1149.75	12.25806
1022.104	41.68692	8.73027	27.68826	1153.68	14.37287
1024.032	40.55263	8.7434	28.37992	1157.61	15.98066
1025.96	39.47316	8.75653	29.39646	1161.54	17.37336
1027.889	38.45752	8.76966	31.22325	1165.47	18.40362
1029.818	37.502	8.78279	32.59253	1169.4	19.50187
1031.746	36.60123	8.79592	32.09606	1173.32	20.81837
1033.674	35.75356	8.80905	32.79033	1177.25	22.05018
1035.603	34.96525	8.82218	32.6093	1181.17	23.21604
1037.531	34.237	8.83531	32.00918	1185.09	24.34132
1039.46	33.56738	8.84844	29.92156	1189.01	25.46823
1041.388	32.93736	8.86157	28.46526	1192.92	26.55017
1043.317	32.35001	8.8747	28.01024	1196.84	27.56974
1045.245	31.82112	8.88783	27.99411	1200.75	28.47386
1047.174	31.34155	8.90096	28.75599	1204.66	29.26346
1049.102	30.87976	8.91409	28.21308	1208.57	29.96938
1051.031	30.45173	8.92722	26.98222	1212.47	30.55172
1052.959	30.06082	8.94035	27.28164	1216.38	30.96623
1054.888	29.70767	8.95348	27.07878	1220.28	31.28406
1056.816	29.37573	8.96661	26.05552	1224.18	31.52447
1058.745	29.06235	8.97974	25.0259	1228.08	31.78713
1060.673	28.76514	8.99287	25.75531	1231.98	32.24777
1062.602	28.49569	9.006	26.43233	1235.87	32.82293
1064.53	28.24328	9.01913	27.14158	1239.77	33.64174
1066.459	28.00344	9.03226	27.6947	1243.66	34.34557
1068.387	27.77461	9.04539	27.54454	1247.55	34.81664
1070.316	27.57379	9.05852	28.27274	1251.44	35.18339
1072.244	27.39359	9.07165	28.8026	1255.33	35.351
1074.173	27.22616	9.08478	28.74938	1259.21	35.26847
1076.101	27.07618	9.09791	28.02905	1263.1	34.9249
1078.03	26.95641	9.11104	27.77056	1266.98	34.51202
1079.958	26.85391	9.12417	28.71928	1270.86	34.33652

1081.887	26.77388	9.1373	28.24806	1274.73	35.06005
1083.815	26.72338	9.15043	27.96054	1278.61	35.9913
1085.744	26.71352	9.16356	27.03926	1282.48	37.10013
1087.672	26.73412	9.1767	26.57349	1286.35	37.93262
1089.601	26.78883	9.18983	26.57211	1290.23	38.59008
1091.529	26.87955	9.20296	26.19837	1294.09	39.2283
1093.458	27.02798	9.21609	26.61222	1297.96	39.95438
1095.386	27.23976	9.22922	26.05688	1301.83	40.8126
1097.315	27.51076	9.24235	25.45858	1305.69	41.8171
1099.243	27.82326	9.25548	24.97767	1309.55	43.14686
1101.172	28.19969	9.26861	24.70958	1313.41	44.52947
1103.1	28.63789	9.28174	24.38293	1317.27	46.15319
1105.029	29.11335	9.29487	22.91618	1321.13	47.53
1106.957	29.60462	9.308	22.85794	1324.98	48.70096
1108.886	30.11717	9.32113	22.17566	1328.83	49.79866
1110.814	30.63737	9.33426	22.0038	1332.68	50.97263
1112.743	31.14825	9.34739	21.55784	1336.53	52.24188
1114.671	31.62995	9.36052	20.59751	1340.38	53.67596
1116.6	32.08315	9.37365	19.10211	1344.22	55.20346
1118.528	32.50544	9.38678	18.54012	1348.07	57.09795
1120.457	32.90108	9.39991	18.96237	1351.91	59.06546
1122.385	33.26483	9.41304	19.23426	1355.75	61.09325
1124.314	33.60053	9.42617	18.72193	1359.59	63.22142
1126.242	33.91459	9.4393	19.13808	1363.42	65.12471
1128.171	34.21643	9.45243	19.38221	1367.26	67.00992
1130.099	34.49695	9.46556	20.51667	1371.09	68.60744
1132.028	34.76159	9.47869	20.37056	1374.92	69.99678
1133.956	35.01367	9.49182	20.46036	1378.75	71.32306
1135.885	35.25184	9.50495	19.48144	1382.58	72.56657
1137.813	35.4615	9.51808	19.85388	1386.41	73.82076
1139.742	35.65571	9.53121	19.65057	1390.23	74.92703
1141.67	35.84568	9.54434	19.41036	1394.05	75.7892
1143.599	36.02878	9.55747	18.54428	1397.87	76.37525
1145.527	36.18486	9.5706	17.98084	1401.69	76.57254
1147.456	36.32346	9.58373	18.19598	1405.51	76.49047
1149.384	36.44853	9.59686	18.7557	1409.32	76.33028
1151.313	36.56993	9.60999	18.01837	1413.14	76.40748
1153.241	36.68111	9.62312	19.0671	1416.95	76.79532
1155.17	36.77899	9.63625	19.12142	1420.76	77.40572
1157.098	36.86734	9.64939	19.92532	1424.57	78.25003
1159.027	36.95581	9.66252	20.50947	1428.37	79.50932
1160.955	37.03575	9.67565	20.13555	1432.18	80.67587
1162.884	37.10875	9.68878	20.6597	1435.98	81.30806
1164.812	37.17778	9.70191	20.67934	1439.78	81.02732
1166.741	37.24758	9.71504	20.65236	1443.58	80.35479
1168.669	37.31905	9.72817	20.179	1447.38	79.22347
1170.598	37.39617	9.7413	19.67142	1451.17	78.90355

1172.526	37.47182	9.75443	19.53517	1454.97	78.95896
1174.455	37.54393	9.76756	18.72407	1458.76	78.76631
1176.383	37.61781	9.78069	18.57401	1462.55	78.87272
1178.312	37.69931	9.79382	18.56863	1466.34	79.12495
1180.24	37.78586	9.80695	18.76948	1470.13	79.65467
1182.169	37.87637	9.82008	19.27211	1473.91	80.54141
1184.097	37.96616	9.83321	19.19758	1477.7	81.68246
1186.026	38.04878	9.84634	18.78591	1481.48	82.90163
1187.954	38.12127	9.85947	17.99654	1485.26	84.20844
1189.883	38.19715	9.8726	17.42858	1489.04	85.30289
1191.811	38.27187	9.88573	15.67352	1492.81	86.26474
1193.74	38.34118	9.89886	13.99869	1496.59	86.8348
1195.668	38.40389	9.91199	13.18168	1500.36	87.28941
1197.597	38.47036	9.92512	12.34452	1504.13	87.56042
1199.525	38.54043	9.93825	12.76273	1507.9	87.83258
1201.454	38.61479	9.95138	12.69034	1511.67	88.18983
1203.382	38.69372	9.96451	14.28252	1515.43	88.56632
1205.311	38.78041	9.97764	15.10018	1519.2	89.22146
1207.239	38.87586	9.99077	16.07493	1522.96	89.99553
1209.168	38.98322	10.0039	16.20168	1526.72	90.82709
1211.096	39.09203	10.01703	14.89456	1530.48	91.80632
1213.025	39.19929	10.03016	13.6764	1534.24	92.67614
1214.953	39.30758	10.04329	12.29873	1537.99	93.55847
1216.882	39.41903	10.05642	11.38304	1541.75	94.0198
1218.81	39.53077	10.06955	10.96088	1545.5	93.92614
1220.739	39.65067	10.08268	10.41596	1549.25	92.93694
1222.667	39.77441	10.09581	10.41185	1553	91.99897
1224.596	39.89886	10.10895	10.26415	1556.75	91.11478
1226.524	40.0275	10.12208	10.70386	1560.49	90.08687
1228.453	40.16823	10.13521	10.99068	1564.24	89.12919
1230.381	40.32309	10.14834	10.96865	1567.98	88.29091
1232.31	40.48832	10.16147	11.18957	1571.72	87.71458
1234.238	40.65976	10.1746	12.16879	1575.46	87.3476
1236.167	40.84564	10.18773	13.8327	1579.19	87.25603
1238.095	41.0547	10.20086	15.27489	1582.93	87.34297
1240.024	41.2947	10.21399	15.5622	1586.66	87.43547
1241.952	41.55862	10.22712	15.89737	1590.39	87.00659
1243.881	41.8445	10.24025	15.57654	1594.12	86.50515
1245.809	42.16859	10.25338	14.80314	1597.85	85.8099
1247.738	42.54363	10.26651	14.11601	1601.58	85.07338
1249.666	42.95436	10.27964	12.77374	1605.3	84.31207
1251.595	43.39426	10.29277	11.86784	1609.02	83.54704
1253.523	43.86504	10.3059	12.21518	1612.74	82.68372
1255.452	44.36752	10.31903	12.70116	1616.46	81.6864
1257.38	44.8867	10.33216	13.65181	1620.18	81.14439
1259.309	45.41063	10.34529	14.50152	1623.9	80.71852
1261.237	45.93121	10.35842	16.12403	1627.61	80.40301

1263.166	46.44679	10.37155	16.28001	1631.32	79.80281
1265.094	46.95052	10.38468	16.5279	1635.04	78.95641
1267.023	47.44004	10.39781	16.83335	1638.74	77.28703
1268.951	47.91097	10.41094	16.66243	1642.45	76.23453
1270.88	48.36441	10.42407	17.64495	1646.16	75.71408
1272.808	48.80312	10.4372	17.84339	1649.86	75.36333
1274.737	49.22155	10.45033	18.35797	1653.56	75.71223
1276.665	49.62744	10.46346	18.75205	1657.26	75.81423
1278.594	50.0274	10.47659	19.25775	1660.96	75.83997
1280.522	50.41248	10.48972	19.43108	1664.66	75.32809
1282.451	50.77879	10.50285	19.39099	1668.36	74.95601
1284.379	51.13263	10.51598	19.78559	1672.05	74.39221
1286.308	51.48099	10.52911	20.37992	1675.74	73.49991
1288.236	51.82067	10.54224	20.62683	1679.43	72.38575
1290.165	52.14624	10.55537	21.39457	1683.12	70.96813
1292.093	52.46054	10.5685	20.2646	1686.81	69.14922
1294.022	52.77008	10.58164	20.61311	1690.5	66.95452
1295.95	53.07417	10.59477	20.07266	1694.18	64.64112
1297.879	53.37253	10.6079	19.66325	1697.86	62.26212
1299.807	53.65833	10.62103	18.29563	1701.54	60.14253
1301.736	53.9365	10.63416	18.26346	1705.22	58.36024
1303.664	54.21598	10.64729	17.48521	1708.9	56.99247
1305.593	54.49125	10.66042	17.33758	1712.57	55.80088
1307.521	54.75942	10.67355	16.85028	1716.24	55.12997
1309.45	55.03257	10.68668	16.62451	1719.92	54.87914
1311.378	55.3086	10.69981	16.25007	1723.59	55.01638
1313.307	55.58335	10.71294	16.89746	1727.26	55.4805
1315.235	55.85647	10.72607	17.31159	1730.92	56.09669
1317.164	56.13309	10.7392	17.04227	1734.59	56.4333
1319.092	56.41351	10.75233	16.85488	1738.25	56.63476
1321.021	56.692	10.76546	17.6382	1741.91	56.44976
1322.949	56.96515	10.77859	17.08437	1745.57	56.01856
1324.878	57.23339	10.79172	16.63258	1749.23	55.3254
1326.806	57.4894	10.80485	16.73596	1752.89	54.54531
1328.734	57.74154	10.81798	17.1189	1756.54	53.87904
1330.663	57.98785	10.83111	16.43875	1760.2	53.30109
1332.592	58.22247	10.84424	17.07632	1763.85	52.8794
1334.52	58.45603	10.85737	18.07086	1767.5	52.50848
1336.448	58.69221	10.8705	17.96361	1771.15	52.44612
1338.377	58.92275	10.88363	18.15252	1774.79	51.813
1340.306	59.14814	10.89676	17.39039	1778.44	50.79088
1342.234	59.36925	10.90989	17.05815	1782.08	49.2891
1344.162	59.59264	10.92302	16.34978	1785.72	47.31974
1346.091	59.82089	10.93615	16.75022	1789.36	45.39859
1348.02	60.04697	10.94928	15.71059	1793	44.36673
1349.948	60.25482	10.96241	15.37269	1796.64	43.12739
1351.876	60.4613	10.97554	16.73313	1800.27	42.16299

1353.805	60.67016	10.98867	16.93955	1803.9	41.17564
1355.734	60.88313	11.0018	17.62795	1807.54	39.95762
1357.662	61.095	11.01493	17.13178	1811.17	38.77392
1359.59	61.2975	11.02806	15.86672	1814.8	37.60203
1361.519	61.48238	11.0412	15.88686	1818.42	36.43502
1363.448	61.66454	11.05433	15.57338	1822.05	35.34126
1365.376	61.84414	11.06746	15.70921	1825.67	34.34812
1367.304	62.02184	11.08059	15.75593	1829.29	33.8228
1369.233	62.19339	11.09372	16.9779	1832.91	33.27963
1371.161	62.32875	11.10685	17.43269	1836.53	32.74364
1373.09	62.38855	11.11998	17.84579	1840.15	32.23432
1375.018	62.3918	11.13311	19.01889	1843.76	31.32788
1376.947	62.40131	11.14624	20.03108	1847.37	30.14788
1378.875	62.44714	11.15937	19.49791	1850.99	28.82786
1380.804	62.51248	11.1725	18.59719	1854.6	27.38683
1382.732	62.60302	11.18563	18.4469	1858.21	26.0063
1384.661	62.73711	11.19876	17.73985	1861.81	25.48075
1386.589	62.88533	11.21189	17.5794	1865.42	26.19223
1388.518	63.05737	11.22502	16.93962	1869.02	27.68843
1390.446	63.26585	11.23815	16.78844	1872.62	27.95735
1392.375	63.49284	11.25128	17.05434	1876.22	27.98749
1394.303	63.73558	11.26441	18.08333	1879.82	27.55722
1396.232	63.97019	11.27754	18.58528	1883.42	27.16126
1398.16	64.15533	11.29067	17.63506	1887.01	26.69877
1400.089	64.29412	11.3038	17.164	1890.61	26.03992
1402.017	64.44109	11.31693	17.70998	1894.2	25.10821
1403.946	64.62257	11.33006	17.19611	1897.79	23.86098
1405.874	64.7916	11.34319	16.31427	1901.38	22.56479
1407.803	64.97527	11.35632	15.91905	1904.97	21.27099
1409.731	65.18421	11.36945	15.11404	1908.55	20.27258
1411.66	65.39041	11.38258	14.19106	1912.13	19.54286
1413.588	65.5942	11.39571	14.18433	1915.72	19.47271
1415.517	65.80447	11.40884	13.84678	1919.3	19.25009
1417.445	65.99696	11.42197	14.39296	1922.88	18.92052
1419.374	66.17603	11.4351	14.99699	1926.45	18.46104
1421.302	66.36349	11.44823	16.15099	1930.03	17.72476
1423.231	66.53231	11.46136	16.6269	1933.6	16.4949
1425.159	66.69402	11.47449	16.12025	1937.18	15.02414
1427.088	66.86301	11.48762	16.91568	1940.75	12.84354
1429.016	67.02286	11.50076	16.68843	1944.31	11.18415
1430.945	67.17405	11.51389	16.87629	1947.88	9.84688
1432.873	67.31525	11.52702	16.80063	1951.45	9.08649
1434.802	67.46082	11.54015	17.34799	1955.01	8.8899
1436.73	67.5907	11.55328	17.87311	1958.57	9.1705
1438.659	67.70315	11.56641	17.7069	1962.14	9.95521
1440.587	67.82776	11.57954	17.90443	1965.7	10.7584
1442.516	67.9385	11.59267	16.99467	1969.25	11.31109

1444.444	67.98691	11.6058	15.91992	1972.81	11.18364
1446.373	68.05023	11.61893	16.20427	1976.36	11.2798
1448.301	68.13782	11.63206	16.43034	1979.92	11.47785
1450.23	68.21223	11.64519	16.15132	1983.47	11.60046
1452.158	68.2819	11.65832	15.60385	1987.02	11.54223
1454.087	68.37408	11.67145	15.51908	1990.56	11.23329
1456.015	68.47115	11.68458	15.97906	1994.11	11.09721
1457.944	68.5585	11.69771	16.52463	1997.66	10.93672
1459.872	68.5981	11.71084	16.00584	2001.2	10.74565
1461.801	68.64231	11.72397	15.92483	2004.74	10.25686
1463.729	68.71152	11.7371	16.254	2008.28	9.63216
1465.658	68.81699	11.75023	16.86583	2011.82	8.86396
1467.586	68.9435	11.76336	16.87179	2015.36	7.85475
1469.515	69.0695	11.77649	16.34985	2018.89	6.92473
1471.443	69.18668	11.78962	16.27387	2022.42	5.98129
1473.372	69.353	11.80275	16.44323	2025.96	5.17321
1475.3	69.51859	11.81588	16.3561	2029.49	4.58771
1477.229	69.64818	11.82901	16.00981	2033.02	4.25566
1479.157	69.77515	11.84214	15.7056	2036.54	4.10324
1481.086	69.91091	11.85527	16.70827	2040.07	4.11664
1483.014	70.01028	11.8684	16.38504	2043.59	4.21475
1484.943	70.0568	11.88153	16.78957	2047.11	3.65535
1486.871	70.03368	11.89466	16.11918	2050.63	3.17605
1488.8	69.96514	11.90779	15.65811	2054.15	2.74782
1490.728	69.84914	11.92092	15.85555	2057.67	2.2868
1492.657	69.69744	11.93405	15.3932	2061.19	1.7413
1494.585	69.47414	11.94718	14.69997	2064.7	1.19875
1496.514	69.3345	11.96031	14.60796	2068.21	0.84347
1498.442	69.27315	11.97345	15.56818	2071.73	0.39155
1500.371	69.27629	11.98658	16.66817	2075.23	0.13247
1502.299	69.33479	11.99971	16.8557	2078.74	-1.35351
1504.228	69.4353	12.01284	18.15177	2082.25	-2.49457
1506.156	69.64254	12.02597	18.03705	2085.75	-3.30181
1508.085	69.88711	12.0391	18.30662	2089.26	-3.65296
1510.013	70.17367	12.05223	18.05548	2092.76	-3.01694
1511.942	70.4985	12.06536	17.5304	2096.26	-2.08977
1513.87	70.78288	12.07849	18.32754	2099.76	-0.94818
1515.799	71.01453	12.09162	18.67	2103.25	0.06438
1517.727	71.2275	12.10475	20.36212	2106.75	0.90844
1519.656	71.3791	12.11788	21.20471	2110.24	1.42761
1521.584	71.47881	12.13101	21.30079	2113.73	1.72848
1523.513	71.6908	12.14414	21.26117	2117.22	1.66815
1525.441	71.89545	12.15727	20.8157	2120.71	1.57032
1527.37	72.03801	12.1704	20.92007	2124.2	1.43388
1529.298	72.18304	12.18353	20.12365	2127.68	1.22056
1531.227	72.30872	12.19666	19.71532	2131.17	0.99187
1533.155	72.45671	12.20979	20.25281	2134.65	0.70863

1535.084	72.59467	12.22292	20.21707	2138.13	0.56571
1537.012	72.74321	12.23605	20.34561	2141.61	0.26091
1538.941	72.91198	12.24918	19.09419	2145.09	0.06086
1540.869	73.06304	12.26231	18.78971	2148.56	-0.08099
1542.798	73.22686	12.27544	18.82532	2152.04	-0.16665
1544.726	73.38444	12.28857	19.192	2155.51	-0.14087
1546.655	73.42953	12.3017	19.989	2158.98	-0.54442
1548.583	73.52759	12.31483	20.55598	2162.45	-1.3255
1550.512	73.66634	12.32796	20.70628	2165.92	-2.12115
1552.44	73.76598	12.34109	21.85644	2169.39	-2.97909
1554.369	73.84361	12.35422	21.4276	2172.85	-3.78109
1556.297	73.94835	12.36735	20.71159	2176.32	-4.53003
1558.226	74.06109	12.38048	20.55076	2179.78	-4.85408
1560.154	74.2115	12.39361	20.6136	2183.24	-4.85753
1562.083	74.35836	12.40674	19.98907	2186.7	-4.49762
1564.011	74.46214	12.41987	20.11074	2190.16	-3.80244
1565.94	74.59202	12.43301	18.74758	2193.61	-3.22012
1567.868	74.71366	12.44614	18.62866	2197.06	-2.9215
1569.797	74.8117	12.45927	18.23101	2200.52	-3.03939
1571.725	74.86086	12.4724	18.49651	2203.97	-3.38889
1573.654	74.84801	12.48553	17.19385	2207.42	-3.7041
1575.582	74.91484	12.49866	17.77423	2210.86	-4.05054
1577.511	74.95326	12.51179	18.47989	2214.31	-4.24618
1579.439	74.96315	12.52492	19.10939	2217.76	-4.11536
1581.368	74.9531	12.53805	19.29742	2221.2	-3.76646
1583.296	74.91223	12.55118	20.77376	2224.64	-3.36466
1585.225	74.89291	12.56431	20.06172	2228.08	-2.93196
1587.153	74.89087	12.57744	20.94175	2231.52	-2.65059
1589.082	74.85865	12.59057	20.89918	2234.96	-2.80478
1591.01	74.77981	12.6037	20.22118	2238.39	-2.99928
1592.939	74.64779	12.61683	20.07584	2241.83	-2.95655
1594.867	74.41238	12.62996	20.62363	2245.26	-2.48741
1596.796	74.09722	12.64309	20.70167	2248.69	-1.78392
1598.724	73.75039	12.65622	21.49973	2252.12	-0.756
1600.653	73.39544	12.66935	22.37041	2255.55	0.21247
1602.581	73.03638	12.68248	22.8416	2258.97	1.18616
1604.51	72.67644	12.69561	22.18452	2262.4	2.00736
1606.438	72.35487	12.70874	21.31881	2265.82	2.47802
1608.367	72.06395	12.72187	20.95452	2269.24	2.51432
1610.295	71.80222	12.735	19.89243	2272.66	2.35341
1612.224	71.58759	12.74813	20.47816	2276.08	2.00218
1614.152	71.41487	12.76126	21.19536	2279.5	1.68138
1616.081	71.24944	12.77439	21.85681	2282.91	1.47608
1618.009	71.06303	12.78752	22.38396	2286.32	1.56004
1619.938	70.83084	12.80065	22.98416	2289.74	1.6509
1621.866	70.55296	12.81378	22.71455	2293.15	1.77924
1623.795	70.27766	12.82691	23.25547	2296.56	1.81162

1625.723	70.08012	12.84004	23.87001	2299.96	1.37779
1627.652	69.92482	12.85317	25.24327	2303.37	0.80187
1629.58	69.80537	12.8663	25.43887	2306.78	0.43513
1631.509	69.73122	12.87943	25.76721	2310.18	0.13702
1633.437	69.68882	12.89257	25.81091	2313.58	0.01543
1635.366	69.67208	12.9057	25.18553	2316.98	-0.08502
1637.294	69.73003	12.91883	24.85167	2320.38	0.00394
1639.223	69.81154	12.93196	24.04525	2323.77	0.28168
1641.151	69.87081	12.94509	23.33229	2327.17	0.55322
1643.08	70.01294	12.95822	23.52686	2330.56	0.78623
1645.008	70.20766	12.97135	23.49633	2333.95	1.04769
1646.937	70.41349	12.98448	24.10882	2337.35	1.45219
1648.865	70.59795	12.99761	24.57617	2340.73	2.0054
1650.794	70.79569	13.01074	24.04786	2344.12	2.81141
1652.722	71.06695	13.02387	23.55756	2347.51	3.65185
1654.651	71.33514	13.037	23.58021	2350.89	4.27692
1656.579	71.57095	13.05013	24.7494	2354.27	4.84937
1658.508	71.79935	13.06326	24.8907	2357.66	5.44841
1660.436	72.02541	13.07639	25.23371	2361.04	6.26643
1662.365	72.2543	13.08952	25.94525	2364.42	7.13947
1664.293	72.52527	13.10265	25.9231	2367.79	8.10338
1666.222	72.75101	13.11578	26.18769	2371.17	9.0994
1668.15	72.96088	13.12891	26.62541	2374.54	10.02156
1670.078	73.2377	13.14204	25.96359	2377.91	11.15735
1672.007	73.45731	13.15517	25.36962	2381.28	12.23988
1673.936	73.69326	13.1683	25.36756	2384.65	13.26069
1675.864	73.91119	13.18143	25.65534	2388.02	14.10804
1677.792	74.12347	13.19456	25.3464	2391.39	13.8929
1679.721	74.36459	13.20769	24.72411	2394.75	13.86487
1681.65	74.57069	13.22082	24.07731	2398.11	13.9997
1683.578	74.71639	13.23395	23.0762	2401.48	14.30643
1685.506	74.88246	13.24708	23.02624	2404.84	14.31809
1687.435	75.00462	13.26021	24.01445	2408.2	14.21653
1689.364	75.11629	13.27334	24.61849	2411.55	14.18602
1691.292	75.25639	13.28647	25.8167	2414.91	14.68911
1693.22	75.36108	13.2996	26.75308	2418.26	15.14662
1695.149	75.44765	13.31273	26.86695	2421.62	15.28275
1697.078	75.50533	13.32586	26.33004	2424.97	15.51576
1699.006	75.54665	13.33899	26.16983	2428.32	15.77137
1700.934	75.63084	13.35212	26.08322	2431.67	16.20785
1702.863	75.68269	13.36526	25.56502	2435.01	16.50681
1704.792	75.69859	13.37839	26.03007	2438.36	16.61651
1706.72	75.7464	13.39152	26.95726	2441.7	16.48407
1708.648	75.80235	13.40465	28.0452	2445.04	16.27311
1710.577	75.83826	13.41778	28.72913	2448.38	16.03431
1712.505	75.89043	13.43091	28.18331	2451.72	15.75215
1714.434	75.92684	13.44404	27.14549	2455.06	15.97971

1716.362	76.00047	13.45717	26.12302	2458.39	16.59558
1718.291	76.07816	13.4703	25.44246	2461.73	17.11578
1720.219	76.13014	13.48343	24.91731	2465.06	17.58696
1722.148	76.18636	13.49656	24.67425	2468.39	18.2042
1724.076	76.29236	13.50969	24.24311	2471.72	19.02019
1726.005	76.40362	13.52282	24.54819	2475.05	21.01408
1727.933	76.51843	13.53595	24.71221	2478.38	22.29749
1729.862	76.6518	13.54908	24.54415	2481.71	23.40474
1731.79	76.80123	13.56221	24.56613	2485.03	24.45376
1733.719	77.01508	13.57534	24.27785	2488.35	25.27535
1735.647	77.24308	13.58847	24.1993	2491.67	26.07469
1737.576	77.47404	13.6016	23.89735	2494.99	26.88052
1739.504	77.73453	13.61473	24.86005	2498.31	27.6532
1741.433	78.02181	13.62786	26.14511	2501.63	28.32619
1743.361	78.28089	13.64099	26.59864	2504.94	28.98597
1745.29	78.52691	13.65412	26.83018	2508.26	30.08645
1747.218	78.74896	13.66725	26.64096	2511.57	31.32718
1749.147	78.94436	13.68038	26.25508	2514.88	32.48214
1751.075	79.17329	13.69351	26.30444	2518.19	33.59329
1753.004	79.3688	13.70664	26.30637	2521.5	34.32586
1754.932	79.54456	13.71977	26.4934	2524.8	34.85883
1756.861	79.71409	13.7329	25.6141	2528.11	34.77282
1758.789	79.8426	13.74603	25.16964	2531.41	34.60707
1760.718	79.95644	13.75916	25.17449	2534.71	34.42415
1762.646	80.06859	13.77229	25.57237	2538.01	34.36179
1764.575	80.18628	13.78542	25.65225	2541.31	34.80296
1766.503	80.31052	13.79855	26.28463	2544.61	35.34056
1768.432	80.43362	13.81168	26.09408	2547.9	35.97252
1770.36	80.54124	13.82482	26.64847	2551.2	36.48393
1772.289	80.63845	13.83795	27.36192	2554.49	36.77696
1774.217	80.73313	13.85108	27.74512	2557.78	37.06767
1776.146	80.82334	13.86421	27.06327	2561.07	36.9914
1778.074	80.92076	13.87734	26.88607	2564.36	36.90957
1780.003	80.99415	13.89047	26.02023	2567.65	36.84952
1781.931	81.06106	13.9036	26.09626	2570.93	36.75447
1783.86	81.13232	13.91673	26.27842	2574.22	36.70231
1785.788	81.1936	13.92986	26.51815	2577.5	36.72225
1787.717	81.26705	13.94299	26.35458	2580.78	36.87665
1789.645	81.35593	13.95612	26.16298	2584.06	37.36858
1791.574	81.44273	13.96925	25.37763	2587.34	38.11205
1793.502	81.52634	13.98238	25.37156	2590.62	38.88056
1795.431	81.60915	13.99551	25.53455	2593.89	39.61661
1797.359	81.69146	14.00864	24.88291	2597.17	40.23558
1799.288	81.76018	14.02177	24.11752	2600.44	40.90997
1801.216	81.84319	14.0349	24.40212	2603.71	41.7253
1803.145	81.92072	14.04803	24.71345	2606.98	42.41336
1805.073	81.9716	14.06116	24.8767	2610.25	42.93543

1807.002	82.01503	14.07429	25.03768	2613.51	43.47744
1808.93	82.08486	14.08742	25.51089	2616.78	44.04287
1810.859	82.14502	14.10055	24.7984	2620.04	44.66648
1812.787	82.19014	14.11368	24.14419	2623.3	45.27827
1814.716	82.23486	14.12681	23.89552	2626.56	45.93434
1816.644	82.2728	14.13994	23.31887	2629.82	46.56908
1818.573	82.31641	14.15307	23.38804	2633.08	47.19455
1820.501	82.36999	14.1662	23.33095	2636.34	47.97604
1822.43	82.4168	14.17933	23.639	2639.59	48.95041
1824.358	82.45483	14.19246	23.22012	2642.84	50.02909
1826.287	82.49953	14.20559	22.94567	2646.1	51.37276
1828.215	82.5581	14.21872	22.78621	2649.35	52.92809
1830.144	82.59009	14.23185	22.07734	2652.59	54.32414
1832.072	82.59826	14.24498	20.77302	2655.84	55.4288
1834.001	82.61797	14.25811	20.50418	2659.09	56.27473
1835.929	82.64042	14.27124	20.99632	2662.33	56.52626
1837.858	82.65502	14.28437	21.30138	2665.58	58.07881
1839.786	82.66256	14.29751	21.67161	2668.82	58.93819
1841.715	82.66871	14.31064	21.81182	2672.06	59.63344
1843.643	82.65907	14.32377	21.02042	2675.3	59.48785
1845.572	82.66447	14.3369	20.38922	2678.53	59.12875
1847.5	82.67967	14.35003	19.7894	2681.77	58.40221
1849.429	82.68629	14.36316	20.19466	2685	58.0751
1851.357	82.69457	14.37629	19.12946	2688.24	57.70812
1853.286	82.70497	14.38942	19.06694	2691.47	57.37985
1855.214	82.69646	14.40255	19.16475	2694.7	57.18349
1857.143	82.66904	14.41568	19.16092	2697.93	56.97485
1859.071	82.65984	14.42881	19.61782	2701.15	56.68112
1861	82.67175	14.44194	20.33387	2704.38	56.23834
1862.928	82.68058	14.45507	21.06539	2707.6	55.59873
1864.857	82.69242	14.4682	22.07522	2710.83	54.53789
1866.785	82.70679	14.48133	22.92456	2714.05	53.08573
1868.714	82.72233	14.49446	23.7221	2717.27	51.5865
1870.642	82.74091	14.50759	23.051	2720.49	50.04439
1872.571	82.76398	14.52072	21.95591	2723.7	48.5053
1874.499	82.79663	14.53385	21.52538	2726.92	47.00445
1876.428	82.82613	14.54698	20.6945	2730.13	45.46489
1878.356	82.864	14.56011	20.12769	2733.35	44.11636
1880.285	82.90115	14.57324	19.9297	2736.56	42.98319
1882.213	82.92712	14.58637	20.48128	2739.77	42.03687
1884.142	82.97679	14.5995	20.24429	2742.98	41.2839
1886.07	83.04681	14.61263	20.36582	2746.18	40.73169
1887.999	83.11143	14.62576	20.1215	2749.39	40.39276
1889.927	83.17561	14.63889	19.88463	2752.59	40.22422
1891.856	83.24598	14.65202	20.28515	2755.8	40.24022
1893.784	83.32101	14.66515	21.18695	2759	40.15073
1895.713	83.39458	14.67828	22.00723	2762.2	39.84704

1897.641	83.46776	14.69141	22.53374	2765.4	39.62055
1899.57	83.54408	14.70454	22.34415	2768.59	39.45618
1901.498	83.6237	14.71767	22.39513	2771.79	39.78074
1903.427	83.69693	14.7308	21.67624	2774.98	40.13056
1905.355	83.76934	14.74393	22.32731	2778.18	40.69553
1907.284	83.84837	14.75707	22.20612	2781.37	41.41117
1909.212	83.91831	14.7702	22.21908	2784.56	42.25711
1911.141	83.98757	14.78333	21.81902	2787.74	43.09516
1913.069	84.06174	14.79646	21.1142	2790.93	43.91026
1914.998	84.13491	14.80959	21.7713	2794.12	44.72421
1916.926	84.20641	14.82272	21.51805	2797.3	45.48947
1918.855	84.27376	14.83585	20.73213	2800.48	46.2123
1920.783	84.33739	14.84898	20.67483	2803.67	46.93143
1922.712	84.39867	14.86211	21.36204	2806.85	45.64549
1924.64	84.45923	14.87524	22.24013	2810.02	45.12898
1926.569	84.51838	14.88837	22.84259	2813.2	44.6746
1928.497	84.56948	14.9015	22.51303	2816.38	44.10407
1930.426	84.60728	14.91463	22.97781	2819.55	43.48162
1932.354	84.64073	14.92776	23.17443	2822.72	42.99548
1934.283	84.6812	14.94089	22.95001	2825.9	42.75693
1936.211	84.71538	14.95402	21.97121	2829.07	42.73514
1938.14	84.74803	14.96715	21.10685	2832.24	42.55802
1940.068	84.78756	14.98028	21.20028	2835.4	42.0276
1941.997	84.82201	14.99341	21.08339	2838.57	40.99319
1943.925	84.85225	15.00654	20.8522	2841.73	39.53894
1945.854	84.88165	15.01967	21.93141	2844.9	37.5654
1947.782	84.91246	15.0328	21.80325	2848.06	35.16855
1949.711	84.94203	15.04593	23.33164	2851.22	32.68036
1951.639	84.9707	15.05906	23.60255	2854.38	30.37229
1953.568	84.99609	15.07219	24.00269	2857.53	28.52347
1955.496	85.01913	15.08532	23.40055	2860.69	26.94798
1957.425	85.0434	15.09845	23.98973	2863.84	25.55099
1959.353	85.0767	15.11158	23.95446	2867	24.46373
1961.282	85.11065	15.12471	23.87204	2870.15	23.68896
1963.21	85.14326	15.13784	23.74695	2873.3	23.00396
1965.139	85.17193	15.15097	24.44	2876.45	22.19985
1967.067	85.20084	15.1641	23.36206	2879.6	21.27421
1968.996	85.22852	15.17723	23.37083	2882.74	20.24817
1970.924	85.25665	15.19036	23.45534	2885.89	19.32096
1972.853	85.28367	15.20349	23.26366	2889.03	18.58539
1974.781	85.30704	15.21663	22.42388	2892.17	18.17527
1976.71	85.33253	15.22976	22.49684	2895.31	18.1427
1978.638	85.36043	15.24289	21.46856	2898.45	18.31138
1980.567	85.38837	15.25602	21.36485	2901.59	18.55387
1982.495	85.42566	15.26915	21.38585	2904.73	18.88918
1984.424	85.46495	15.28228	22.33156	2907.86	19.30617
1986.352	85.50619	15.29541	22.78021	2911	19.81171

1988.281	85.54645	15.30854	22.87539	2914.13	20.4168
1990.209	85.58438	15.32167	23.24436	2917.26	21.10985
1992.138	85.6234	15.3348	23.09263	2920.39	21.89164
1994.066	85.66503	15.34793	23.12432	2923.52	22.71942
1995.995	85.70586	15.36106	23.14235	2926.64	23.14218
1997.923	85.74284	15.37419	23.0265	2929.77	23.38388
1999.852	85.77618	15.38732	22.5655	2932.89	23.41633
2001.78	85.8111	15.40045	22.98865	2936.02	23.36116
2003.708	85.84915	15.41358	23.08015	2939.14	23.34679
2005.637	85.8851	15.42671	23.13632	2942.26	23.40451
2007.566	85.92553	15.43984	22.05311	2945.37	23.529
2009.494	85.97301	15.45297	22.20527	2948.49	23.65094
2011.422	86.01942	15.4661	21.92866	2951.61	23.7133
2013.351	86.06792	15.47923	21.21721	2954.72	23.66045
2015.28	86.11547	15.49236	21.22494	2957.83	23.46571
2017.208	86.16452	15.50549	21.91384	2960.94	23.07293
2019.136	86.21446	15.51862	22.12244	2964.06	22.39472
2021.065	86.26315	15.53175	22.86919	2967.16	21.39954
2022.994	86.30991	15.54488	22.77613	2970.27	20.08144
2024.922	86.35857	15.55801	23.23641	2973.38	18.46459
2026.85	86.40831	15.57114	22.54128	2976.48	16.71537
2028.779	86.45988	15.58427	22.43159	2979.59	14.98819
2030.708	86.51039	15.5974	21.2135	2982.69	13.48973
2032.636	86.5636	15.61053	20.29693	2985.79	12.24283
2034.564	86.62541	15.62366	20.66894	2988.89	11.22648
2036.493	86.69155	15.63679	21.36472	2991.98	10.22513
2038.422	86.7549	15.64992	21.14819	2995.08	9.08994
2040.35	86.8157	15.66305	20.79707	2998.18	7.58764
2042.278	86.87729	15.67618	20.95202	3001.27	5.75118
2044.207	86.94226	15.68932	20.46689	3004.36	3.66583
2046.135	87.00764	15.70245	19.28904	3007.45	1.56531
2048.064	87.07043	15.71558	18.59641	3010.54	-0.2958
2049.992	87.13218	15.72871	18.20869	3013.63	-1.60045
2051.921	87.1932	15.74184	17.91767	3016.72	-2.25354
2053.849	87.25378	15.75497	17.34062	3019.8	-2.27376
2055.778	87.31435	15.7681	16.93093	3022.89	-1.78153
2057.707	87.3754	15.78123	16.22239	3025.97	-1.0573
2059.635	87.43811	15.79436	16.11084	3029.05	-0.21244
2061.563	87.50108	15.80749	16.45848	3032.13	0.58864
2063.492	87.56055	15.82062	16.03555	3035.21	1.3185
2065.42	87.61628	15.83375	15.85376	3038.28	2.02173
2067.349	87.67314	15.84688	15.67633	3041.36	2.72714
2069.277	87.72976	15.86001	16.28775	3044.44	3.48011
2071.206	87.78655	15.87314	16.47434	3047.51	4.28492
2073.135	87.84448	15.88627	16.45415	3050.58	5.08308
2075.063	87.90158	15.8994	17.03967	3053.65	5.89252
2076.991	87.95637	15.91253	16.9015	3056.72	6.70943

2078.92	88.01083	15.92566	16.95028	3059.79	7.51665
2080.848	88.06562	15.93879	16.22286	3062.85	8.40334
2082.777	88.12061	15.95192	15.27189	3065.92	9.39523
2084.705	88.17637	15.96505	14.48253	3068.98	10.48338
2086.634	88.23348	15.97818	14.45922	3072.04	11.58625
2088.563	88.28787	15.99131	15.07754	3075.1	12.51875
2090.491	88.34029	16.00444	15.67712	3078.16	13.22366
2092.419	88.3925	16.01757	16.33851	3081.22	13.69647
2094.348	88.44476	16.0307	16.29493	3084.28	13.9624
2096.276	88.49318	16.04383	15.9356	3087.33	14.16931
2098.205	88.53886	16.05696	15.91721	3090.39	14.47411
2100.133	88.58324	16.07009	15.69218	3093.44	14.91797
2102.062	88.6255	16.08322	15.97503	3096.49	15.41904
2103.99	88.66727	16.09635	17.1398	3099.54	15.68158
2105.919	88.71103	16.10948	17.7177	3102.59	15.46327
2107.847	88.75494	16.12261	17.59176	3105.64	14.65287
2109.776	88.8	16.13574	17.13797	3108.68	13.26078
2111.704	88.84781	16.14888	16.98627	3111.73	11.43204
2113.633	88.89737	16.16201	16.59512	3114.77	9.39384
2115.561	88.94911	16.17514	16.59136	3117.81	7.53355
2117.49	88.99803	16.18827	16.38757	3120.85	5.99462
2119.418	89.04003	16.2014	16.81062	3123.89	4.78237
2121.347	89.07966	16.21453	17.12485	3126.93	3.757
2123.275	89.12029	16.22766	17.28621	3129.97	2.73915
2125.204	89.15909	16.24079	16.48866	3133	1.55493
2127.132	89.19139	16.25392	15.27303	3136.04	0.14881
2129.061	89.22243	16.26705	14.14059	3139.07	-1.52559
2130.989	89.26	16.28018	14.35121	3142.1	-3.30028
2132.918	89.3024	16.29331	15.41236	3145.13	-5.05057
2134.846	89.34326	16.30644	15.59243	3148.16	-6.53851
2136.775	89.38132	16.31957	15.95832	3151.19	-7.74641
2138.703	89.42236	16.3327	16.01607	3154.21	-8.67212
2140.632	89.46742	16.34583	15.77145	3157.24	-9.31831
2142.56	89.51241	16.35896	15.34721	3160.26	-9.68112
2144.489	89.55164	16.37209	14.65114	3163.28	-9.76655
2146.417	89.58646	16.38522	13.59035	3166.3	-9.56839
2148.346	89.62408	16.39835	11.83866	3169.32	-9.07958
2150.274	89.6651	16.41148	11.81223	3172.34	-8.27978
2152.203	89.70402	16.42461	12.15235	3175.36	-6.96792
2154.131	89.73787	16.43774	11.33072	3178.37	-5.41642
2156.06	89.76998	16.45087	11.20898	3181.39	-3.796
2157.988	89.80519	16.464	10.89932	3184.4	-2.34193
2159.917	89.8419	16.47713	11.23015	3187.41	-1.23736
2161.845	89.87997	16.49026	11.9678	3190.42	-0.51501
2163.774	89.9167	16.50339	11.44234	3193.43	-0.08917
2165.702	89.95187	16.51652	11.63845	3196.44	0.2742
2167.631	89.98576	16.52965	10.98123	3199.44	0.82902

2169.559	90.02042	16.54278	11.93904	3202.45	1.71686
2171.488	90.05903	16.55591	12.28296	3205.45	2.93877
2173.416	90.09872	16.56904	13.13054	3208.45	4.39253
2175.345	90.13686	16.58217	13.95631	3211.45	5.83204
2177.273	90.17796	16.5953	14.1002	3214.45	7.07389
2179.202	90.22481	16.60844	14.85277	3217.45	8.02036
2181.13	90.27133	16.62157	15.28846	3220.44	8.67743
2183.059	90.31148	16.6347	14.43149	3223.44	9.11162
2184.987	90.35006	16.64783	15.26359	3226.43	9.42426
2186.916	90.39166	16.66096	14.83751	3229.43	9.6397
2188.844	90.43481	16.67409	14.35667	3232.42	9.74645
2190.773	90.47555	16.68722	13.78349	3235.41	9.71682
2192.701	90.51056	16.70035	14.20483	3238.4	9.51539
2194.63	90.54282	16.71348	14.39742	3241.39	9.12071
2196.558	90.57655	16.72661	13.63152	3244.37	8.52772
2198.487	90.61137	16.73974	13.91041	3247.36	7.7543
2200.415	90.6459	16.75287	13.58694	3250.34	6.88629
2202.344	90.6806	16.766	14.69734	3253.32	6.00996
2204.272	90.71831	16.77913	15.61024	3256.3	5.19551
2206.201	90.75589	16.79226	15.35392	3259.28	4.49407
2208.129	90.79273	16.80539	14.23977	3262.26	3.90869
2210.058	90.82934	16.81852	13.76414	3265.24	3.41849
2211.986	90.86728	16.83165	13.70208	3268.21	2.91469
2213.915	90.90425	16.84478	13.80135	3271.19	2.3104
2215.843	90.94134	16.85791	13.2504	3274.16	1.60977
2217.772	90.9804	16.87104	13.14077	3277.13	0.82288
2219.7	91.01879	16.88417	13.89601	3280.1	0.08506
2221.629	91.0556	16.8973	14.89394	3283.07	-0.45032
2223.557	91.09186	16.91043	15.03459	3286.04	-0.72468
2225.486	91.1245	16.92356	15.04433	3289.01	-0.72821
2227.414	91.159	16.93669	15.20215	3291.97	-0.47079
2229.343	91.19686	16.94982	15.51327	3294.93	-0.06362
2231.271	91.23194	16.96295	16.66281	3297.9	0.41424
2233.2	91.26201	16.97608	16.58105	3300.86	0.95641
2235.128	91.29272	16.98921	17.36388	3303.82	1.5642
2237.057	91.3266	17.00234	18.50314	3306.78	2.2477
2238.985	91.36056	17.01547	19.33215	3309.73	3.02323
2240.914	91.39367	17.0286	20.74971	3312.69	3.91332
2242.842	91.42391	17.04173	21.55873	3315.65	4.93107
2244.771	91.45354	17.05486	21.42798	3318.6	6.09627
2246.699	91.48317	17.06799	20.82778	3321.55	7.41147
2248.628	91.51101	17.08113	20.85202	3324.5	8.86584
2250.556	91.54024	17.09426	20.06037	3327.45	10.41662
2252.485	91.57304	17.10739	18.67595	3330.4	11.97034
2254.413	91.60983	17.12052	18.56013	3333.35	13.4455
2256.342	91.6451	17.13365	19.13365	3336.29	14.84462
2258.27	91.67647	17.14678	19.17536	3339.24	16.1754

2260.199	91.70782	17.15991	20.61741	3342.18	17.43936
2262.127	91.74216	17.17304	20.07606	3345.12	18.65578
2264.056	91.77587	17.18617	19.74008	3348.06	19.81206
2265.984	91.81068	17.1993	19.67255	3351	20.84195
2267.913	91.84755	17.21243	19.98382	3353.94	21.66616
2269.841	91.88341	17.22556	19.02819	3356.87	22.27825
2271.77	91.91795	17.23869	18.75303	3359.81	22.69341
2273.698	91.9506	17.25182	19.4738	3362.74	22.96029
2275.627	91.98252	17.26495	20.88855	3365.68	23.15203
2277.555	92.01825	17.27808	21.37889	3368.61	23.30993
2279.484	92.05334	17.29121	21.84487	3371.54	23.44369
2281.412	92.08333	17.30434	21.69824	3374.47	23.55334
2283.341	92.10606	17.31747	21.43829	3377.4	23.6324
2285.269	92.12221	17.3306	21.41961	3380.32	23.65071
2287.198	92.13358	17.34373	20.63009	3383.25	23.51254
2289.126	92.13963	17.35686	20.38267	3386.17	23.09087
2291.055	92.14365	17.36999	19.75616	3389.09	22.24628
2292.983	92.18117	17.38312	20.10377	3392.01	20.95128
2294.912	92.21869	17.39625	20.04456	3394.93	19.22663
2296.84	92.25623	17.40938	19.82727	3397.85	17.28893
2298.769	92.29379	17.42251	19.97822	3400.77	15.39685
2300.697	92.33136	17.43564	19.34201	3403.69	13.83309
2302.625	92.36894	17.44877	18.71579	3406.6	12.71928
2304.554	92.40655	17.4619	18.80045	3409.51	12.0477
2306.483	92.44416	17.47503	18.32823	3412.43	11.71229
2308.411	92.4818	17.48816	18.44133	3415.34	11.49818
2310.34	92.51944	17.50129	18.7767	3418.25	11.24213
2312.268	92.5571	17.51442	19.78255	3421.16	10.9404
2314.197	92.59478	17.52755	19.91451	3424.06	10.59039
2316.125	92.63248	17.54069	19.94724	3426.97	10.30462
2318.053	92.67018	17.55382	20.52445	3429.87	10.21495
2319.982	92.70791	17.56695	20.29001	3432.78	10.34544
2321.911	92.74564	17.58008	20.31654	3435.68	10.70716
2323.839	92.7834	17.59321	19.54112	3438.58	11.28346
2325.768	92.82117	17.60634	19.21729	3441.48	12.05936
2327.696	92.85896	17.61947	18.16091	3444.38	13.02559
2329.625	92.89676	17.6326	19.02797	3447.27	14.18542
2331.553	92.93458	17.64573	19.92404	3450.17	15.51381
2333.481	92.9724	17.65886	20.15582	3453.06	16.96145
2335.41	93.01025	17.67199	20.04287	3455.96	18.4428
2337.339	93.04811	17.68512	20.17387	3458.85	19.87284
2339.267	93.08599	17.69825	19.29824	3461.74	21.20394
2341.196	93.12389	17.71138	18.08561	3464.63	22.42152
2343.124	93.16179	17.72451	17.48152	3467.52	23.55265
2345.052	93.19972	17.73764	17.78877	3470.4	24.63713
2346.981	93.23766	17.75077	17.64218	3473.29	25.73553
2348.909	93.27561	17.7639	19.509	3476.17	26.85757

2350.838	93.31358	17.77703	20.27417	3479.06	28.00302
2352.767	93.35157	17.79016	21.23951	3481.94	29.16146
2354.695	93.38957	17.80329	21.7337	3484.82	30.27747
2356.624	93.42758	17.81642	21.12344	3487.7	31.26227
2358.552	93.46561	17.82955	20.65521	3490.58	32.02197
2360.48	93.50367	17.84268	19.41628	3493.45	32.47959
2362.409	93.54173	17.85581	20.35629	3496.33	32.62333
2364.337	93.57981	17.86894	20.80644	3499.2	32.45966
2366.266	93.6179	17.88207	20.41592	3502.08	32.05512
2368.195	93.65601	17.8952	21.00416	3504.95	31.49016
2370.123	93.69414	17.90833	20.13067	3507.82	30.80117
2372.052	93.73228	17.92146	19.71328	3510.69	29.98815
2373.98	93.77043	17.93459	18.83487	3513.56	29.04926
2375.908	93.80861	17.94772	17.73911	3516.42	27.98123
2377.837	93.84679	17.96085	18.48165	3519.29	26.81074
2379.765	93.885	17.97398	18.29216	3522.15	25.62054
2381.694	93.92322	17.98711	19.55962	3525.01	24.42826
2383.622	94.07006	18.00024	19.83819	3527.88	23.22809
2385.551	94.18522	18.01338	20.26444	3530.74	21.95223
2387.479	94.27746	18.02651	20.71644	3533.6	20.48533
2389.408	94.35195	18.03964	19.26992	3536.45	18.79905
2391.336	94.40958	18.05277	18.09044	3539.31	16.89153
2393.265	94.45515	18.0659	17.58891	3542.16	14.88987
2395.193	94.49374	18.07903	17.68805	3545.02	12.97665
2397.122	94.53016	18.09216	18.2254	3547.87	11.28926
2399.05	94.56631	18.10529	17.89366	3550.72	9.86285
2400.979	94.59933	18.11842	18.09911	3553.57	8.67047
2402.907	94.63409	18.13155	18.70098	3556.42	7.59021
2404.836	94.67441	18.14468	18.68052	3559.27	6.50188
2406.764	94.71481	18.15781	17.43836	3562.12	5.36813
2408.693	94.75348	18.17094	17.22325	3564.96	4.19184
2410.621	94.78896	18.18407	17.13063	3567.81	3.04398
2412.55	94.82775	18.1972	17.30155	3570.65	2.0425
2414.478	94.87197	18.21033	17.98897	3573.49	1.24957
2416.407	94.91679	18.22346	18.28535	3576.33	0.68224
2418.335	94.96012	18.23659	19.06642	3579.17	0.31814
2420.264	95.00301	18.24972	19.43267	3582.01	0.1126
2422.192	95.04208	18.26285	19.04654	3584.85	-0.01037
2424.121	95.08065	18.27598	19.46084	3587.68	-0.13391
2426.049	95.11799	18.28911	18.64458	3590.52	-0.26021
2427.978	95.15347	18.30224	18.66675	3593.35	-0.38719
2429.906	95.19176	18.31537	18.0624	3596.18	-0.51814
2431.835	95.23263	18.3285	17.83872	3599.01	-0.65758
2433.763	95.27164	18.34163	18.43644	3601.84	-0.8018
2435.692	95.30869	18.35476	17.9714	3604.67	-0.95494
2437.62	95.34402	18.36789	18.40548	3607.5	-1.11368
2439.549	95.38001	18.38102	17.72612	3610.32	-1.27882

2441.477	95.41621	18.39415	17.92293	3613.15	-1.30699
2443.406	95.45351	18.40728	19.66766		
2445.334	95.49187	18.42041	18.27275		
2447.263	95.52616	18.43354	18.00725		
2449.191	95.55557	18.44667	17.60905		
2451.12	95.58784	18.4598	16.9996		
2453.048	95.62371	18.47294	16.29587		
2454.977	95.66115	18.48607	16.22128		
2456.905	95.69627	18.4992	16.34029		
2458.834	95.72918	18.51233	16.08518		
2460.762	95.76151	18.52546	17.50216		
2462.691	95.79315	18.53859	18.69437		
2464.619	95.82229	18.55172	17.98811		
2466.548	95.8497	18.56485	17.76599		
2468.476	95.87963	18.57798	17.49		
2470.405	95.91212	18.59111	17.04543		
2472.333	95.94257	18.60424	16.21761		
2474.262	95.973	18.61737	16.58101		
2476.19	96.00445	18.6305	16.48992		
2478.119	96.03797	18.64363	16.65622		
2480.047	96.07076	18.65676	18.06597		
2481.976	96.1011	18.66989	19.35754		
2483.904	96.12802	18.68302	19.46531		
2485.833	96.15383	18.69615	20.02317		
2487.761	96.17833	18.70928	21.12784		
2489.69	96.20262	18.72241	21.37051		
2491.618	96.22956	18.73554	20.47612		
2493.547	96.25978	18.74867	19.88205		
2495.475	96.2875	18.7618	18.76833		
2497.404	96.31096	18.77493	17.2984		
2499.332	96.33645	18.78806	17.01563		
2501.261	96.36799	18.80119	16.35623		
2503.189	96.40082	18.81432	15.46928		
2505.118	96.42842	18.82745	15.27146		
2507.046	96.45082	18.84058	14.68716		
2508.975	96.47623	18.85371	14.69064		
2510.903	96.50372	18.86684	15.11833		
2512.832	96.52874	18.87997	15.41475		
2514.76	96.55029	18.8931	15.85005		
2516.689	96.5735	18.90623	16.54866		
2518.617	96.59796	18.91936	17.81887		
2520.546	96.62043	18.9325	18.44641		
2522.474	96.63575	18.94563	17.8174		
2524.403	96.65295	18.95876	17.82164		
2526.331	96.67558	18.97189	17.6113		
2528.26	96.69814	18.98502	17.18285		
2530.188	96.71863	18.99815	17.5898		

2532.117	96.73634	19.01128	18.26542
2534.045	96.75182	19.02441	18.54866
2535.974	96.7729	19.03754	18.43686
2537.902	96.79262	19.05067	19.03209
2539.831	96.8093	19.0638	18.54659
2541.759	96.82462	19.07693	17.25359
2543.688	96.83955	19.09006	17.79996
2545.616	96.85288	19.10319	18.05349
2547.545	96.86826	19.11632	16.98558
2549.473	96.88497	19.12945	17.01322
2551.402	96.90289	19.14258	17.54773
2553.33	96.91589	19.15571	17.43508
2555.259	96.92489	19.16884	17.96865
2557.187	96.93562	19.18197	18.55793
2559.116	96.94745	19.1951	19.19559
2561.044	96.95719	19.20823	20.11489
2562.973	96.97009	19.22136	21.4587
2564.901	96.98205	19.23449	22.76673
2566.83	96.99366	19.24762	23.17915
2568.758	97.00228	19.26075	24.19374
2570.687	97.0101	19.27388	24.95872
2572.615	97.01929	19.28701	24.85584
2574.544	97.03384	19.30014	25.39257
2576.472	97.04684	19.31327	25.43504
2578.401	97.0568	19.3264	26.07334
2580.329	97.06248	19.33953	25.71062
2582.258	97.06742	19.35266	25.00201
2584.186	97.07143	19.36579	25.81957
2586.115	97.07869	19.37892	26.06391
2588.043	97.08765	19.39205	27.08131
2589.972	97.09748	19.40519	27.55547
2591.9	97.10204	19.41832	28.4498
2593.829	97.10505	19.43145	28.94278
2595.757	97.10782	19.44458	29.86199
2597.686	97.11167	19.45771	30.00146
2599.614	97.11671	19.47084	30.04773
2601.543	97.12425	19.48397	30.16409
2603.471	97.13177	19.4971	30.43232
2605.4	97.14229	19.51023	29.39492
2607.328	97.15411	19.52336	28.83484
2609.257	97.16274	19.53649	27.78615
2611.185	97.17008	19.54962	28.01266
2613.114	97.18369	19.56275	27.33783
2615.042	97.19902	19.57588	27.87964
2616.971	97.21104	19.58901	28.06292
2618.899	97.21755	19.60214	28.73
2620.828	97.227	19.61527	29.72464

2622.756	97.23952	19.6284	28.85538
2624.685	97.25202	19.64153	27.04043
2626.613	97.26166	19.65466	26.8895
2628.542	97.27065	19.66779	26.51502
2630.47	97.27745	19.68092	26.37972
2632.398	97.28369	19.69405	26.24201
2634.327	97.28765	19.70718	26.36178
2636.256	97.29005	19.72031	26.38273
2638.184	97.29464	19.73344	27.1285
2640.113	97.30251	19.74657	27.89946
2642.041	97.30599	19.7597	27.62369
2643.969	97.30968	19.77283	27.22124
2645.898	97.31793	19.78596	28.12117
2647.826	97.33234	19.79909	28.82883
2649.755	97.34537	19.81222	27.645
2651.684	97.35535	19.82535	26.03719
2653.612	97.36226	19.83848	25.32496
2655.541	97.36744	19.85161	24.98704
2657.469	97.37007	19.86475	25.63958
2659.397	97.37421	19.87788	26.76173
2661.326	97.37727	19.89101	27.78467
2663.254	97.38274	19.90414	28.68628
2665.183	97.38924	19.91727	29.53117
2667.112	97.39354	19.9304	30.14833
2669.04	97.3968	19.94353	29.90753
2670.969	97.40134	19.95666	28.64281
2672.897	97.40443	19.96979	28.06745
2674.825	97.40884	19.98292	27.481
2676.754	97.41014	19.99605	27.41006
2678.682	97.4091	20.00918	27.64475
2680.611	97.4052	20.02231	27.28628
2682.54	97.40275	20.03544	27.1121
2684.468	97.40486	20.04857	27.05085
2686.396	97.4087	20.0617	27.23246
2688.325	97.40735	20.07483	27.77361
2690.253	97.40578	20.08796	27.62124
2692.182	97.40335	20.10109	27.17287
2694.11	97.40163	20.11422	27.00086
2696.039	97.39965	20.12735	27.90871
2697.968	97.39464	20.14048	28.45202
2699.896	97.38985	20.15361	29.1098
2701.824	97.39057	20.16674	29.22849
2703.753	97.3894	20.17987	29.78557
2705.681	97.38588	20.193	30.5454
2707.61	97.38065	20.20613	31.19913
2709.538	97.37809	20.21926	32.1571
2711.467	97.37759	20.23239	31.5975

2713.396	97.37364	20.24552	30.52232
2715.324	97.36575	20.25865	31.41976
2717.252	97.3583	20.27178	31.1645
2719.181	97.34818	20.28491	32.23082
2721.109	97.33656	20.29804	32.26297
2723.038	97.32587	20.31117	33.03533
2724.966	97.3168	20.32431	33.00733
2726.895	97.30431	20.33744	31.96572
2728.823	97.29245	20.35057	32.90533
2730.752	97.27959	20.3637	31.85074
2732.68	97.26534	20.37683	31.04452
2734.609	97.25065	20.38996	31.27216
2736.537	97.24133	20.40309	30.3236
2738.466	97.23196	20.41622	30.90497
2740.394	97.21985	20.42935	31.27158
2742.323	97.20985	20.44248	32.09449
2744.251	97.20528	20.45561	31.3769
2746.18	97.19422	20.46874	30.57406
2748.108	97.17802	20.48187	31.86761
2750.037	97.16581	20.495	32.17275
2751.965	97.15643	20.50813	32.48725
2753.894	97.14275	20.52126	32.8021
2755.822	97.1278	20.53439	32.96597
2757.751	97.11403	20.54752	32.87541
2759.679	97.103	20.56065	33.05336
2761.608	97.09084	20.57378	33.37793
2763.536	97.07906	20.58691	32.60529
2765.465	97.06289	20.60004	31.63368
2767.393	97.04777	20.61317	30.19324
2769.322	97.03439	20.6263	29.02724
2771.25	97.01836	20.63943	29.01744
2773.179	96.99724	20.65256	29.29109
2775.107	96.97872	20.66569	29.79188
2777.036	96.96254	20.67882	30.0754
2778.964	96.94463	20.69195	30.90603
2780.893	96.92447	20.70508	32.09359
2782.821	96.90577	20.71821	32.03291
2784.75	96.88631	20.73134	31.76707
2786.678	96.86311	20.74447	30.63349
2788.607	96.83539	20.7576	30.18736
2790.535	96.81181	20.77073	30.01456
2792.464	96.78936	20.78386	28.99048
2794.392	96.76852	20.797	28.70665
2796.321	96.74034	20.81013	29.15152
2798.249	96.71008	20.82326	29.54455
2800.178	96.68129	20.83639	30.46513
2802.106	96.65292	20.84952	30.80358

2804.035	96.62107	20.86265	31.12609
2805.963	96.59198	20.87578	30.94587
2807.892	96.56435	20.88891	31.73156
2809.82	96.53304	20.90204	31.511
2811.749	96.49527	20.91517	31.64612
2813.677	96.45921	20.9283	33.00813
2815.606	96.42742	20.94143	33.63094
2817.534	96.39971	20.95456	34.42643
2819.463	96.37022	20.96769	35.16783
2821.391	96.34222	20.98082	35.10921
2823.32	96.31	20.99395	34.18808
2825.248	96.27018	21.00708	32.92161
2827.177	96.22224	21.02021	33.2928
2829.105	96.17316	21.03334	33.12186
2831.034	96.12275	21.04647	33.13587
2832.962	96.06414	21.0596	34.55048
2834.891	95.98576	21.07273	35.29586
2836.819	95.88283	21.08586	36.58204
2838.748	95.74844	21.09899	37.7805
2840.676	95.58112	21.11212	37.74666
2842.605	95.38005	21.12525	36.64366
2844.533	95.15791	21.13838	36.37638
2846.462	94.91985	21.15151	36.98522
2848.39	94.6748	21.16464	37.05827
2850.319	94.42794	21.17777	36.55923
2852.247	94.19489	21.1909	36.7695
2854.176	93.9978	21.20403	37.27987
2856.104	93.85576	21.21716	37.44929
2858.033	93.76093	21.23029	37.83082
2859.961	93.69934	21.24342	36.67151
2861.89	93.65952	21.25656	36.71067
2863.818	93.63345	21.26969	37.78025
2865.747	93.60732	21.28282	38.67146
2867.675	93.57791	21.29595	39.50144
2869.604	93.54839	21.30908	39.40079
2871.532	93.52975	21.32221	40.14586
2873.461	93.51717	21.33534	41.74511
2875.389	93.50645	21.34847	43.10251
2877.318	93.50264	21.3616	43.60292
2879.246	93.51334	21.37473	44.06039
2881.175	93.53649	21.38786	45.98804
2883.103	93.56385	21.40099	47.78872
2885.032	93.57455	21.41412	47.2542
2886.96	93.56445	21.42725	47.51263
2888.889	93.52954	21.44038	45.86324
2890.817	93.46782	21.45351	45.86928
2892.746	93.3774	21.46664	46.43403

2894.674	93.26846	21.47977	47.25471
2896.603	93.14845	21.4929	47.26401
2898.531	93.02398	21.50603	48.64566
2900.46	92.89419	21.51916	49.98185
2902.388	92.76089	21.53229	51.76865
2904.317	92.62218	21.54542	52.38822
2906.245	92.47514	21.55855	53.3082
2908.174	92.30834	21.57168	54.08855
2910.102	92.11472	21.58481	55.20493
2912.031	91.89443	21.59794	56.6762
2913.959	91.65565	21.61107	58.4355
2915.888	91.39638	21.6242	58.80727
2917.816	91.12583	21.63733	59.79323
2919.745	90.85372	21.65046	60.53132
2921.673	90.60042	21.66359	62.28183
2923.602	90.3736	21.67672	63.74168
2925.53	90.18401	21.68985	63.47109
2927.458	90.04607	21.70298	65.31486
2929.387	89.96808	21.71611	66.36093
2931.316	89.9493	21.72925	67.91238
2933.244	89.98601	21.74238	68.74355
2935.173	90.06667	21.75551	67.80023
2937.101	90.18031	21.76864	68.99943
2939.03	90.3065	21.78177	69.29056
2940.958	90.42424	21.7949	70.48644
2942.886	90.51192	21.80803	70.6121
2944.815	90.55888	21.82116	70.01903
2946.744	90.54806	21.83429	71.1946
2948.672	90.48287	21.84742	72.23662
2950.601	90.3564	21.86055	73.05485
2952.529	90.18331	21.87368	72.27456
2954.458	89.98557	21.88681	72.02865
2956.386	89.78456	21.89994	72.63513
2958.314	89.59706	21.91307	73.00867
2960.243	89.45134	21.9262	72.88195
2962.172	89.36053	21.93933	71.94628
2964.1	89.32616	21.95246	72.20209
2966.029	89.34273	21.96559	72.60264
2967.957	89.40778	21.97872	72.40595
2969.885	89.51046	21.99185	72.32402
2971.814	89.6375	22.00498	72.43989
2973.742	89.7718	22.01811	74.46897
2975.671	89.90839	22.03124	75.46414
2977.6	90.03098	22.04437	77.54156
2979.528	90.13773	22.0575	77.9474
2981.457	90.22652	22.07063	79.49588
2983.385	90.296	22.08376	81.66095

2985.313	90.35085	22.09689	82.27957
2987.242	90.3998	22.11002	82.52617
2989.17	90.43252	22.12315	83.35066
2991.099	90.45242	22.13628	85.0544
2993.028	90.46637	22.14941	86.06588
2994.956	90.47754	22.16254	87.00193
2996.885	90.47493	22.17567	87.43589
2998.813	90.46114	22.18881	88.112
3000.741	90.43756	22.20194	88.22957
3002.67	90.40755	22.21507	88.17008
3004.598	90.36812	22.2282	86.63411
3006.527	90.32079	22.24133	85.7371
3008.456	90.26481	22.25446	85.94416
3010.384	90.20779	22.26759	86.00527
3012.313	90.14812	22.28072	86.4141
3014.241	90.08604	22.29385	86.81423
3016.169	90.02267	22.30698	87.6371
3018.098	89.96708	22.32011	89.12119
3020.026	89.9153	22.33324	88.97929
3021.955	89.86333	22.34637	89.96243
3023.884	89.80183	22.3595	89.58916
3025.812	89.73416	22.37263	90.27744
3027.74	89.65807	22.38576	91.32864
3029.669	89.57479	22.39889	92.26147
3031.597	89.48859	22.41202	92.80764
3033.526	89.39915	22.42515	93.38142
3035.454	89.30115	22.43828	94.19369
3037.383	89.20284	22.45141	94.50836
3039.312	89.10628	22.46454	94.83529
3041.24	89.02321	22.47767	96.30697
3043.168	88.95076	22.4908	96.34608
3045.097	88.88277	22.50393	96.80132
3047.025	88.81553	22.51706	96.73461
3048.954	88.75715	22.53019	95.70844
3050.882	88.7022	22.54332	94.44961
3052.811	88.64429	22.55645	93.60888
3054.74	88.58124	22.56958	92.5525
3056.668	88.51721	22.58271	92.36328
3058.596	88.45005	22.59584	93.37862
3060.525	88.37831	22.60897	94.75631
3062.453	88.29305	22.6221	95.51662
3064.382	88.20473	22.63523	96.16841
3066.31	88.117	22.64837	96.62905
3068.239	88.03402	22.6615	96.27199
3070.167	87.94617	22.67463	97.26617
3072.096	87.85588	22.68776	96.07285
3074.024	87.76933	22.70089	96.30269

3075.953	87.68655	22.71402	96.30282
3077.881	87.60452	22.72715	96.36645
3079.81	87.5258	22.74028	96.06255
3081.738	87.44868	22.75341	94.86015
3083.667	87.36894	22.76654	94.09062
3085.595	87.28413	22.77967	93.66528
3087.524	87.19456	22.7928	93.41479
3089.452	87.10169	22.80593	94.18966
3091.381	87.01307	22.81906	93.45678
3093.309	86.91924	22.83219	93.36835
3095.238	86.8259	22.84532	91.73289
3097.166	86.73283	22.85845	90.07324
3099.095	86.64277	22.87158	88.35658
3101.023	86.55165	22.88471	86.08405
3102.952	86.45869	22.89784	85.13108
3104.88	86.36994	22.91097	85.38028
3106.809	86.28652	22.9241	85.46704
3108.737	86.199	22.93723	85.49764
3110.666	86.11008	22.95036	84.91817
3112.594	86.02203	22.96349	82.94272
3114.523	85.9296	22.97662	81.66422
3116.451	85.83678	22.98975	81.42332
3118.38	85.74876	23.00288	81.51802
3120.308	85.65228	23.01601	82.73592
3122.237	85.55468	23.02914	84.05278
3124.165	85.45896	23.04227	85.20692
3126.094	85.36666	23.0554	84.74394
3128.022	85.2777	23.06853	83.57895
3129.951	85.19406	23.08166	82.50068
3131.879	85.10783	23.09479	79.60736
3133.808	85.019	23.10792	78.23729
3135.736	84.92864	23.12106	78.1378
3137.665	84.83925	23.13419	77.18427
3139.593	84.74442	23.14732	77.63406
3141.522	84.64471	23.16045	78.53249
3143.45	84.54404	23.17358	78.01043
3145.379	84.44498	23.18671	78.62382
3147.307	84.3364	23.19984	79.38487
3149.236	84.22443	23.21297	80.20223
3151.164	84.11399	23.2261	80.12684
3153.093	84.00864	23.23923	80.23516
3155.021	83.90751	23.25236	80.92641
3156.95	83.80837	23.26549	79.265
3158.878	83.70068	23.27862	79.46554
3160.807	83.5923	23.29175	79.5719
3162.735	83.48077	23.30488	78.32619
3164.664	83.36734	23.31801	78.31571

3166.592	83.25539	23.33114	78.08396
3168.521	83.14977	23.34427	76.99521
3170.449	83.04144	23.3574	77.22207
3172.378	82.92947	23.37053	77.21174
3174.306	82.81286	23.38366	78.21142
3176.235	82.6964	23.39679	78.04569
3178.163	82.57606	23.40992	78.44373
3180.092	82.45707	23.42305	78.50054
3182.02	82.33384	23.43618	79.65676
3183.949	82.20529	23.44931	79.47736
3185.877	82.07333	23.46244	79.61878
3187.806	81.94698	23.47557	78.79298
3189.734	81.81977	23.4887	78.87245
3191.663	81.69849	23.50183	79.55257
3193.591	81.58326	23.51496	80.42766
3195.52	81.47314	23.52809	80.14493
3197.448	81.36118	23.54122	79.60924
3199.377	81.25053	23.55435	80.36452
3201.305	81.13741	23.56748	80.41751
3203.234	81.02509	23.58062	78.35039
3205.162	80.91257	23.59375	78.32271
3207.091	80.80009	23.60688	77.85358
3209.019	80.67846	23.62001	76.84685
3210.948	80.55164	23.63314	77.65785
3212.876	80.4266	23.64627	78.98138
3214.805	80.31052	23.6594	79.80166
3216.733	80.19247	23.67253	80.01818
3218.662	80.0777	23.68566	81.16221
3220.59	79.96339	23.69879	81.39026
3222.519	79.85207	23.71192	80.93276
3224.447	79.74254	23.72505	81.27763
3226.376	79.63432	23.73818	81.31239
3228.304	79.52157	23.75131	80.6989
3230.233	79.41412	23.76444	81.07851
3232.161	79.30934	23.77757	81.4387
3234.09	79.20714	23.7907	81.59025
3236.018	79.10717	23.80383	82.28601
3237.947	79.0082	23.81696	83.62492
3239.875	78.90678	23.83009	85.19524
3241.804	78.81464	23.84322	86.98572
3243.732	78.72432	23.85635	88.72987
3245.661	78.63316	23.86948	90.62745
3247.589	78.54117	23.88261	90.06989
3249.518	78.45607	23.89574	88.33381
3251.446	78.37099	23.90887	88.00765
3253.375	78.282	23.922	87.54169
3255.303	78.18777	23.93513	87.43496

3257.232	78.09452	23.94826	88.51363
3259.16	78.00549	23.96139	89.34762
3261.089	77.9235	23.97452	90.16922
3263.017	77.84047	23.98765	91.24573
3264.946	77.75793	24.00078	91.30026
3266.874	77.67884	24.01391	89.14472
3268.802	77.60737	24.02704	87.33334
3270.731	77.53266	24.04018	85.71972
3272.66	77.45995	24.05331	85.07627
3274.588	77.38918	24.06644	85.54373
3276.517	77.31826	24.07957	87.36509
3278.445	77.23788	24.0927	87.07519
3280.374	77.15446	24.10583	86.41211
3282.302	77.07469	24.11896	86.42694
3284.23	76.99477	24.13209	85.23003
3286.159	76.90944	24.14522	84.57816
3288.088	76.82289	24.15835	82.76169
3290.016	76.73611	24.17148	81.75125
3291.945	76.65504	24.18461	82.38186
3293.873	76.57124	24.19774	83.58762
3295.802	76.47743	24.21087	84.81266
3297.73	76.37463	24.224	85.26725
3299.658	76.27473	24.23713	85.2221
3301.587	76.16784	24.25026	86.15808
3303.516	76.05539	24.26339	85.68735
3305.444	75.94155	24.27652	86.62695
3307.373	75.83133	24.28965	85.28258
3309.301	75.72699	24.30278	85.34783
3311.229	75.61812	24.31591	83.75426
3313.158	75.5023	24.32904	82.08887
3315.086	75.39198	24.34217	81.76611
3317.015	75.27615	24.3553	81.07761
3318.944	75.15709	24.36843	80.45088
3320.872	75.03404	24.38156	80.34526
3322.801	74.90665	24.39469	79.16513
3324.729	74.77103	24.40782	80.27358
3326.657	74.6413	24.42095	79.68674
3328.586	74.51112	24.43408	79.85862
3330.514	74.38039	24.44721	79.5962
3332.443	74.24913	24.46034	78.66005
3334.372	74.11653	24.47347	78.43968
3336.3	73.98368	24.4866	77.22814
3338.229	73.85039	24.49973	76.53839
3340.157	73.71428	24.51287	75.75445
3342.085	73.58035	24.526	75.42756
3344.014	73.43999	24.53913	75.4527
3345.942	73.29916	24.55226	76.24472

3347.871	73.15984	24.56539	76.95971
3349.8	73.01894	24.57852	78.5877
3351.728	72.86746	24.59165	78.48801
3353.656	72.71045	24.60478	76.76117
3355.585	72.5488	24.61791	76.41284
3357.513	72.38751	24.63104	75.75422
3359.442	72.22572	24.64417	75.52647
3361.37	72.06216	24.6573	75.23816
3363.299	71.8941	24.67043	74.13506
3365.228	71.72521	24.68356	75.35403
3367.156	71.55927	24.69669	75.30452
3369.084	71.40168	24.70982	76.19939
3371.013	71.24534	24.72295	75.88728
3372.941	71.08783	24.73608	74.98885
3374.87	70.92753	24.74921	76.03383
3376.798	70.77431	24.76234	76.66886
3378.727	70.61803	24.77547	78.00418
3380.656	70.46381	24.7886	78.68433
3382.584	70.31805	24.80173	79.22242
3384.512	70.17809	24.81486	80.85945
3386.441	70.04071	24.82799	81.36651
3388.369	69.9043	24.84112	82.05527
3390.298	69.76832	24.85425	82.56437
3392.226	69.64436	24.86738	82.14451
3394.155	69.53388	24.88051	82.08218
3396.083	69.43137	24.89364	81.33173
3398.012	69.33118	24.90677	80.61419
3399.94	69.23135	24.9199	78.99022
3401.869	69.13393	24.93303	78.08511
3403.797	69.04941	24.94616	77.0078
3405.726	68.96358	24.95929	76.1526
3407.654	68.87622	24.97243	75.86676
3409.583	68.78761	24.98556	75.84595
3411.511	68.70094	24.99869	74.67321
3413.44	68.61906	25.01182	73.93498
3415.368	68.54161	25.02495	72.36013
3417.297	68.47272	25.03808	71.63182
3419.225	68.41143	25.05121	70.91502
3421.154	68.35213	25.06434	70.58247
3423.082	68.29552	25.07747	71.51258
3425.011	68.2405	25.0906	72.41224
3426.939	68.19341	25.10373	72.49259
3428.868	68.14959	25.11686	72.96129
3430.796	68.1103	25.12999	73.34196
3432.725	68.06948	25.14312	73.05508
3434.653	68.0225	25.15625	71.58894
3436.582	67.98235	25.16938	69.4178

3438.51	67.95295	25.18251	68.36545
3440.439	67.92313	25.19564	67.40568
3442.367	67.8964	25.20877	67.67603
3444.296	67.87732	25.2219	66.60779
3446.224	67.85955	25.23503	65.99432
3448.153	67.84697	25.24816	66.64041
3450.081	67.84541	25.26129	67.8346
3452.01	67.84804	25.27442	67.35769
3453.938	67.85709	25.28755	67.50153
3455.867	67.87649	25.30068	67.38702
3457.795	67.90581	25.31381	67.38719
3459.724	67.9349	25.32694	67.57904
3461.652	67.95977	25.34007	66.97143
3463.581	67.99615	25.3532	65.81197
3465.509	68.03877	25.36633	65.04661
3467.438	68.0769	25.37946	63.82921
3469.366	68.11084	25.39259	62.72085
3471.295	68.14095	25.40572	61.3509
3473.223	68.17457	25.41885	61.79048
3475.152	68.21728	25.43198	61.76801
3477.08	68.26563	25.44512	60.96212
3479.009	68.31046	25.45825	61.56246
3480.937	68.35603	25.47138	60.85037
3482.866	68.40582	25.48451	60.91696
3484.794	68.46072	25.49764	59.92057
3486.723	68.52296	25.51077	59.40978
3488.651	68.5875	25.5239	58.56012
3490.58	68.64909	25.53703	57.70688
3492.508	68.71667	25.55016	57.46834
3494.437	68.78423	25.56329	56.42539
3496.365	68.84109	25.57642	55.21799
3498.294	68.89796	25.58955	54.51997
3500.222	68.968	25.60268	54.68143
3502.151	69.05029	25.61581	54.40998
3504.079	69.13603	25.62894	53.1859
3506.008	69.22073	25.64207	53.81146
3507.936	69.30441	25.6552	53.04605
3509.865	69.37967	25.66833	52.57803
3511.793	69.46107	25.68146	52.88009
3513.722	69.56297	25.69459	52.07103
3515.65	69.66003	25.70772	51.98602
3517.579	69.753	25.72085	51.20459
3519.507	69.85815	25.73398	51.77517
3521.436	69.96912	25.74711	52.27377
3523.364	70.07408	25.76024	52.22136
3525.293	70.1839	25.77337	53.25195
3527.221	70.30197	25.7865	53.32344

3529.15	70.42942	25.79963	53.60561
3531.078	70.55162	25.81276	54.64295
3533.007	70.65482	25.82589	54.56366
3534.935	70.75098	25.83902	54.5996
3536.864	70.85291	25.85215	54.40618
3538.792	70.9624	25.86528	54.75649
3540.721	71.08727	25.87841	55.75047
3542.649	71.21849	25.89154	54.23902
3544.578	71.35162	25.90468	53.96725
3546.506	71.48072	25.91781	53.22849
3548.435	71.60868	25.93094	52.8585
3550.363	71.74158	25.94407	52.1323
3552.292	71.87661	25.9572	51.69265
3554.22	71.98785	25.97033	51.63343
3556.149	72.09948	25.98346	53.08432
3558.077	72.21404	25.99659	53.96856
3560.006	72.32415	26.00972	55.55446
3561.934	72.4434	26.02285	56.56457
3563.863	72.57774	26.03598	57.62529
3565.791	72.70665	26.04911	57.6775
3567.72	72.8438	26.06224	57.50878
3569.648	72.99447	26.07537	55.78987
3571.577	73.14924	26.0885	55.01615
3573.505	73.29115	26.10163	53.90889
3575.434	73.40796	26.11476	54.53077
3577.362	73.54106	26.12789	54.72085
3579.291	73.67544	26.14102	55.60485
3581.219	73.78918	26.15415	56.40982
3583.148	73.91975	26.16728	55.80057
3585.076	74.06583	26.18041	54.68295
3587.005	74.20392	26.19354	53.84751
3588.933	74.33624	26.20667	52.56774
3590.862	74.48275	26.2198	51.7813
3592.79	74.6382	26.23293	51.93836
3594.719	74.78539	26.24606	53.07778
3596.647	74.92838	26.25919	53.06214
3598.576	75.07911	26.27232	53.81122
3600.504	75.20455	26.28545	54.00265
3602.433	75.33482	26.29858	53.67881
3604.361	75.5067	26.31171	53.19443
3606.29	75.65588	26.32484	52.33273
3608.218	75.79644	26.33797	52.08175
3610.146	75.95638	26.3511	51.32071
3612.075	76.11705	26.36424	51.28258
3614.004	76.2671	26.37737	50.72453
3615.932	76.36656	26.3905	49.04591
3617.861	76.48855	26.40363	49.14638

3619.789	76.63118	26.41676	47.48099
3621.718	76.75469	26.42989	46.90493
3623.646	76.8797	26.44302	47.27716
3625.574	77.00732	26.45615	46.27994
3627.503	77.13692	26.46928	45.85359
3629.432	77.2854	26.48241	44.16464
3631.36	77.44373	26.49554	43.18635
3633.289	77.57838	26.50867	42.53007
3635.217	77.69013	26.5218	40.92058
3637.146	77.79891	26.53493	40.75515
3639.074	77.92398	26.54806	39.31247
3641.002	78.07577	26.56119	39.78233
3642.931	78.19215	26.57432	41.17514
3644.86	78.35991	26.58745	41.32109
3646.788	78.56425	26.60058	40.44232
3648.717	78.76649	26.61371	39.55082
3650.645	78.97107	26.62684	39.47879
3652.573	79.17968	26.63997	38.86768
3654.502	79.40739	26.6531	37.86954
3656.43	79.60432	26.66623	37.44622
3658.359	79.7965	26.67936	36.44905
3660.288	80.01575	26.69249	37.08824
3662.216	80.15165	26.70562	38.58969
3664.145	80.31927	26.71875	39.15722
3666.073	80.57753	26.73188	38.32431
3668.001	80.88018	26.74501	37.96572
3669.93	81.18555	26.75814	37.88789
3671.858	81.52808	26.77127	37.01816
3673.787	81.91602	26.7844	36.58248
3675.716	82.30275	26.79753	35.38828
3677.644	82.68948	26.81066	35.23581
3679.573	83.09656	26.82379	36.3202
3681.501	83.52401	26.83693	36.74529
3683.429	83.94145	26.85006	37.57812
3685.358	84.38976	26.86319	37.27233
3687.286	84.85592	26.87632	36.40565
3689.215	85.223	26.88945	35.69008
3691.144	85.63403	26.90258	35.23836
3693.072	86.08869	26.91571	34.5971
3695	86.53062	26.92884	34.36482
3696.929	86.93964	26.94197	34.45582
3698.857	87.30466	26.9551	33.96451
3700.786	87.66355	26.96823	33.56899
3702.714	88.00812	26.98136	33.6299
3704.643	88.33739	26.99449	32.8899
3706.572	88.65653	27.00762	32.56988
3708.5	88.96644	27.02075	32.15039

3710.428	89.2648	27.03388	32.84218
3712.357	89.54641	27.04701	33.62257
3714.285	89.79591	27.06014	33.90245
3716.214	90.03725	27.07327	33.52205
3718.142	90.29939	27.0864	33.55725
3720.071	90.52602	27.09953	32.45117
3722	90.6852	27.11266	30.84992
3723.928	90.79929	27.12579	30.51043
3725.856	90.93953	27.13892	30.31177
3727.785	91.11871	27.15205	29.2763
3729.713	91.32227	27.16518	28.91939
3731.642	91.44477	27.17831	29.15995
3733.57	91.58721	27.19144	28.04582
3735.499	91.7567	27.20457	28.06464
3737.427	91.9021	27.2177	27.71457
3739.356	92.03489	27.23083	25.86157
3741.284	92.19804	27.24396	25.02934
3743.213	92.39031	27.25709	24.94506
3745.141	92.55054	27.27022	25.31453
3747.07	92.65743	27.28335	25.6635
3748.998	92.76427	27.29649	26.7655
3750.927	92.90338	27.30962	28.14499
3752.855	93.05747	27.32275	29.41629
3754.784	93.1972	27.33588	30.02477
3756.712	93.30061	27.34901	30.74353
3758.641	93.35278	27.36214	30.66221
3760.569	93.47394	27.37527	31.15696
3762.498	93.58455	27.3884	30.24226
3764.426	93.64925	27.40153	29.94249
3766.355	93.70284	27.41466	29.09011
3768.283	93.78796	27.42779	28.26776
3770.212	93.87449	27.44092	26.94378
3772.14	93.93268	27.45405	26.47021
3774.069	93.99894	27.46718	25.95701
3775.997	94.09067	27.48031	26.46484
3777.926	94.17101	27.49344	26.70892
3779.854	94.23473	27.50657	27.86832
3781.783	94.31354	27.5197	27.84166
3783.711	94.36217	27.53283	27.63656
3785.64	94.43297	27.54596	27.54425
3787.568	94.51643	27.55909	27.81575
3789.497	94.55647	27.57222	26.50266
3791.425	94.62494	27.58535	25.81196
3793.354	94.68253	27.59848	25.55149
3795.282	94.73964	27.61161	25.47787
3797.211	94.81613	27.62474	24.79899
3799.139	94.8855	27.63787	24.63058

3801.068	94.96591	27.651	24.26276
3802.996	95.00454	27.66413	23.68804
3804.925	95.05614	27.67726	24.33637
3806.853	95.13116	27.69039	24.83242
3808.782	95.15066	27.70352	23.60482
3810.71	95.17574	27.71665	23.64798
3812.639	95.2226	27.72978	23.80098
3814.567	95.25256	27.74291	24.11478
3816.496	95.27851	27.75605	23.08499
3818.424	95.34148	27.76918	23.17055
3820.353	95.38229	27.78231	22.70252
3822.281	95.4272	27.79544	22.05237
3824.21	95.48268	27.80857	21.73575
3826.138	95.51055	27.8217	21.71196
3828.067	95.54216	27.83483	20.99986
3829.995	95.56584	27.84796	21.25333
3831.924	95.62589	27.86109	22.31076
3833.852	95.68981	27.87422	22.58487
3835.781	95.71638	27.88735	22.35408
3837.709	95.79247	27.90048	23.17007
3839.638	95.81033	27.91361	23.00355
3841.566	95.78943	27.92674	22.84651
3843.495	95.81207	27.93987	22.24228
3845.423	95.84017	27.953	22.87896
3847.352	95.88067	27.96613	22.50623
3849.28	95.92879	27.97926	22.23222
3851.209	95.95194	27.99239	23.22107
3853.137	95.96394	28.00552	23.5157
3855.066	96.02875	28.01865	23.96661
3856.994	96.07565	28.03178	24.63463
3858.923	96.12747	28.04491	25.26777
3860.851	96.18551	28.05804	25.38053
3862.78	96.2385	28.07117	25.69702
3864.708	96.28865	28.0843	26.31817
3866.637	96.2759	28.09743	26.27676
3868.565	96.25989	28.11056	26.13276
3870.494	96.3098	28.12369	25.87267
3872.422	96.34148	28.13682	25.42427
3874.351	96.37472	28.14995	25.34189
3876.279	96.42953	28.16308	25.0194
3878.208	96.45512	28.17621	25.64713
3880.136	96.48062	28.18934	25.46843
3882.065	96.52982	28.20247	25.95968
3883.993	96.54562	28.2156	26.27008
3885.922	96.56621	28.22874	26.50422
3887.85	96.5814	28.24187	26.62844
3889.779	96.60408	28.255	25.59306

3891.707	96.6279	28.26813	25.16892
3893.636	96.63453	28.28126	26.12602
3895.564	96.6487	28.29439	27.22674
3897.493	96.68922	28.30752	27.5651
3899.421	96.71564	28.32065	27.38531
3901.35	96.75764	28.33378	27.609
3903.278	96.79699	28.34691	28.42043
3905.207	96.799	28.36004	27.95399
3907.135	96.81551	28.37317	27.75378
3909.064	96.85314	28.3863	27.64439
3910.992	96.88787	28.39943	27.845
3912.921	96.90102	28.41256	29.03158
3914.849	96.92294	28.42569	29.39836
3916.778	96.93855	28.43882	29.07413
3918.706	96.95101	28.45195	28.46882
3920.635	96.97064	28.46508	28.24812
3922.563	97.00645	28.47821	27.72929
3924.492	97.04876	28.49134	26.86083
3926.42	97.0891	28.50447	27.27859
3928.349	97.11586	28.5176	27.50507
3930.277	97.11394	28.53073	28.19329
3932.206	97.11715	28.54386	28.88084
3934.134	97.139	28.55699	28.22422
3936.063	97.16666	28.57012	28.83736
3937.991	97.19328	28.58325	28.63448
3939.92	97.21195	28.59638	28.0182
3941.848	97.24725	28.60951	27.92954
3943.777	97.27509	28.62264	28.7756
3945.705	97.29272	28.63577	29.47642
3947.634	97.3064	28.6489	29.98088
3949.562	97.33504	28.66203	31.21947
3951.49	97.36694	28.67516	31.21638
3953.419	97.39544	28.6883	30.77538
3955.348	97.4123	28.70143	31.60483
3957.276	97.42682	28.71456	32.65474
3959.205	97.4519	28.72769	33.40104
3961.133	97.48045	28.74082	34.43396
3963.062	97.501	28.75395	36.04251
3964.99	97.52551	28.76708	36.10925
3966.918	97.5533	28.78021	37.05749
3968.847	97.58908	28.79334	37.92693
3970.776	97.61916	28.80647	38.52738
3972.704	97.63194	28.8196	40.37308
3974.633	97.64125	28.83273	43.51048
3976.561	97.65225	28.84586	47.61948
3978.49	97.66293	28.85899	51.39784
3980.418	97.68126	28.87212	53.49489

3982.346	97.69962	28.88525	57.35915
3984.275	97.7232	28.89838	59.23621
3986.204	97.74932	28.91151	61.89976
3988.132	97.77798	28.92464	64.91074
3990.061	97.82067	28.93777	67.9209
3991.989	97.86681	28.9509	71.80102
3993.917	97.89217	28.96403	76.34205
3995.846	97.89307	28.97716	80.45855
3997.774	97.91737	28.99029	83.36404
3999.703	97.92682	29.00342	85.32964
		29.01655	87.82975
		29.02968	89.55354
		29.04281	91.09041
		29.05594	92.31676
		29.06907	92.75215
		29.0822	93.12955
		29.09533	93.19503
		29.10846	93.82754
		29.12159	93.62685
		29.13472	92.20629
		29.14785	90.31134
		29.16099	88.03297
		29.17412	84.43997
		29.18725	78.86188
		29.20038	73.69259
		29.21351	67.70629
		29.22664	62.23283
		29.23977	57.1828
		29.2529	51.4571
		29.26603	45.86499
		29.27916	41.68705
		29.29229	38.07866
		29.30542	34.61359
		29.31855	30.45313
		29.33168	28.66138
		29.34481	27.58262
		29.35794	27.17786
		29.37107	25.53746
		29.3842	23.80993
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87.94526	6.78797
87.95839	7.71616
87.97152	8.13364
87.98465	8.42852
87.99778	9.23425
88.01091	8.94593
88.02404	9.16875
88.03717	8.60791
88.0503	7.71585
88.06343	7.17135
88.07656	6.91007
88.08969	7.1909
88.10282	6.71735
88.11595	6.92484

88.12908	7.90317
88.14222	8.56225
88.15535	9.19289
88.16848	9.79792
88.18161	9.87859
88.19474	10.47264
88.20787	10.82176
88.221	10.88188
88.23413	10.33516
88.24726	9.77366
88.26039	9.5873
88.27352	9.23569
88.28665	9.31187
88.29978	9.17648
88.31291	9.09417
88.32604	9.23539
88.33917	8.92672
88.3523	8.62876
88.36543	8.46311
88.37856	8.10504
88.39169	7.71403
88.40482	7.78095
88.41795	7.42049
88.43108	7.36831
88.44421	7.12836
88.45734	6.47483
88.47047	5.87888
88.4836	5.08022
88.49673	5.32493
88.50986	5.40453
88.52299	5.63658
88.53612	6.79812
88.54925	7.46867
88.56238	8.27463
88.57551	8.15181
88.58864	8.05321
88.60177	7.70404
88.61491	7.08657
88.62804	7.07736
88.64117	6.97313
88.6543	7.13609
88.66743	7.11083
88.68056	7.35684
88.69369	7.18759
88.70682	7.38278
88.71995	7.83643
88.73308	7.54175

88.74621	7.17078
88.75934	7.2179
88.77247	7.0875
88.7856	6.95458
88.79873	6.03265
88.81186	5.82836
88.82499	5.62956
88.83812	5.78254
88.85125	5.91075
88.86438	5.78923
88.87751	5.72614
88.89064	6.04214
88.90377	6.09898
88.9169	5.75576
88.93003	5.47434
88.94316	5.64564
88.95629	5.65842
88.96942	5.0638
88.98255	4.97665
88.99568	5.02027
89.00881	4.61935
89.02194	4.32921
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89.0482	4.40196
89.06133	5.03611
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89.23203	4.13123
89.24516	4.07253
89.25829	3.66009
89.27142	3.23244
89.28455	3.27975
89.29768	3.20825
89.31081	3.33974
89.32394	3.49896
89.33707	3.48349
89.3502	3.4987

89.36333	3.65947
89.37646	4.424
89.38959	4.27311
89.40272	4.30466
89.41585	4.55426
89.42898	4.45602
89.44211	4.58695
89.45524	4.88202
89.46837	5.0535
89.4815	4.18301
89.49463	3.86546
89.50776	4.44193
89.52089	4.31554
89.53403	4.39594
89.54716	4.71692
89.56029	4.23411
89.57342	4.35182
89.58655	3.78033
89.59968	3.71194
89.61281	3.15171
89.62594	3.19031
89.63907	3.32379
89.6522	4.10086
89.66533	4.59076
89.67846	4.80025
89.69159	4.8641
89.70472	4.73652
89.71785	4.41748
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