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# 4-4 pair potential for the n-CG-PI water system
# First row = index for each row
# Second row = distance (Å)
# Third row = potential (kcal/mol)
# Fourth row = force (kcal/mol/Å)
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2 0.002000 2073.581754 2814.500825
3 0.003000 2070.768222 2812.564500
4 0.004000 2067.956625 2810.628175
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6 0.006000 2062.339242 2806.755526
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8 0.008000 2056.729603 2802.882877
9 0.009000 2053.927689 2800.946552
10 0.010000 2051.127710 2799.010227
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12 0.012000 2045.533562 2795.137578
13 0.013000 2042.739393 2793.201253
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15 0.015000 2037.156863 2789.328604
16 0.016000 2034.368503 2787.392279
17 0.017000 2031.582079 2785.455955
18 0.018000 2028.797591 2783.519630
19 0.019000 2026.015039 2781.583305
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22 0.022000 2017.679003 2775.774331
23 0.023000 2014.904197 2773.838007
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392	0.392000	1123.183924	2059.334203
393	0.393000	1121.125558	2057.397879
394	0.394000	1119.069128	2055.461554
395	0.395000	1117.014635	2053.525229
396	0.396000	1114.962078	2051.588905
397	0.397000	1112.911457	2049.652580
398	0.398000	1110.862773	2047.716255
399	0.399000	1108.816025	2045.779931
400	0.400000	1106.771213	2043.843606
401	0.401000	1104.728337	2041.907281
402	0.402000	1102.687398	2039.970957
403	0.403000	1100.648395	2038.034632
404	0.404000	1098.611329	2036.098307
405	0.405000	1096.576199	2034.161983
406	0.406000	1094.543005	2032.225658
407	0.407000	1092.511748	2030.289333
408	0.408000	1090.482426	2028.353009

409	0.409000	1088.455041	2026.416684
410	0.410000	1086.429593	2024.480359
411	0.411000	1084.406081	2022.544035
412	0.412000	1082.384505	2020.607710
413	0.413000	1080.364865	2018.671385
414	0.414000	1078.347162	2016.735061
415	0.415000	1076.331395	2014.798736
416	0.416000	1074.317565	2012.862411
417	0.417000	1072.305670	2010.926087
418	0.418000	1070.295712	2008.989762
419	0.419000	1068.287691	2007.053437
420	0.420000	1066.281606	2005.117113
421	0.421000	1064.277457	2003.180788
422	0.422000	1062.275244	2001.244463
423	0.423000	1060.274968	1999.308139
424	0.424000	1058.276628	1997.371814
425	0.425000	1056.280224	1995.435489
426	0.426000	1054.285757	1993.499164
427	0.427000	1052.293226	1991.562840
428	0.428000	1050.302631	1989.626515
429	0.429000	1048.313973	1987.690190
430	0.430000	1046.327251	1985.753866
431	0.431000	1044.342465	1983.817541
432	0.432000	1042.359616	1981.881216
433	0.433000	1040.378703	1979.944892
434	0.434000	1038.399726	1978.008567
435	0.435000	1036.422685	1976.072242
436	0.436000	1034.447581	1974.135918
437	0.437000	1032.474414	1972.199593
438	0.438000	1030.503182	1970.263268
439	0.439000	1028.533887	1968.326944
440	0.440000	1026.566528	1966.390619
441	0.441000	1024.601106	1964.454294
442	0.442000	1022.637620	1962.517970
443	0.443000	1020.676070	1960.581645
444	0.444000	1018.716456	1958.645320
445	0.445000	1016.758779	1956.708996
446	0.446000	1014.803038	1954.772671
447	0.447000	1012.849234	1952.836346
448	0.448000	1010.897366	1950.900022
449	0.449000	1008.947434	1948.963697
450	0.450000	1006.999438	1947.027372
451	0.451000	1005.053379	1945.091048
452	0.452000	1003.109256	1943.154723
453	0.453000	1001.167070	1941.218398
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455	0.455000	997.288506	1937.345749
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457	0.457000	993.417687	1933.473100
458	0.458000	991.485182	1931.536775
459	0.459000	989.554613	1929.600450
460	0.460000	987.625981	1927.664126
461	0.461000	985.699285	1925.727801
462	0.462000	983.774525	1923.791476
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464	0.464000	979.930815	1919.918827
465	0.465000	978.011864	1917.982502
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467	0.467000	974.179772	1914.109853

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469	0.469000	970.355425	1910.237204
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475	0.475000	958.928855	1898.619256
476	0.476000	957.031204	1896.682931
477	0.477000	955.135490	1894.746606
478	0.478000	953.241711	1892.810282
479	0.479000	951.349869	1890.873957
480	0.480000	949.459963	1888.937632
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483	0.483000	943.801864	1883.128658
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487	0.487000	936.284840	1875.383360
488	0.488000	934.410425	1873.447035
489	0.489000	932.537946	1871.510710
490	0.490000	930.667403	1869.574386
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495	0.495000	921.343735	1859.892762
496	0.496000	919.484811	1857.956438
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513	0.513000	888.179350	1825.038918
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547	0.547000	827.247223	1759.203879
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626	0.626000	694.312417	1606.234230
627	0.627000	692.707151	1604.297906
628	0.628000	691.103821	1602.361581
629	0.629000	689.502428	1600.425256
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631	0.631000	686.305450	1596.552607
632	0.632000	684.709866	1594.616282
633	0.633000	683.116218	1592.679958
634	0.634000	681.524506	1590.743633
635	0.635000	679.934730	1588.807308
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778	0.778000	472.533237	1311.912881
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786	0.786000	462.099896	1296.422283
787	0.787000	460.804442	1294.485958
788	0.788000	459.510924	1292.549634
789	0.789000	458.219343	1290.613309
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792	0.792000	454.356216	1284.804335
793	0.793000	453.072380	1282.868010
794	0.794000	451.790480	1280.931686
795	0.795000	450.510517	1278.995361
796	0.796000	449.232490	1277.059036
797	0.797000	447.956399	1275.122712
798	0.798000	446.682244	1273.186387
799	0.799000	445.410026	1271.250062
800	0.800000	444.139744	1269.313738
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802	0.802000	441.604989	1265.441088
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804	0.804000	439.077980	1261.568439
805	0.805000	437.817379	1259.632114
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808	0.808000	434.047197	1253.823140
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812	0.812000	429.047395	1246.077842
813	0.813000	427.802285	1244.141517
814	0.814000	426.559112	1242.205192
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816	0.816000	424.078574	1238.332543
817	0.817000	422.841209	1236.396218
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848	0.848000	385.443331	1176.370154
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1188	1.188000	97.397044	518.019766
1189	1.189000	96.879993	516.083441
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1589	1.589000	24.704230	22.719494
1590	1.590000	24.681496	22.749447
1591	1.591000	24.658746	22.750813
1592	1.592000	24.636009	22.722925
1593	1.593000	24.613314	22.667743
1594	1.594000	24.590685	22.589309
1595	1.595000	24.568144	22.493187
1596	1.596000	24.545704	22.385903
1597	1.597000	24.523374	22.274387
1598	1.598000	24.501154	22.165413
1599	1.599000	24.479039	22.065041
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1602	1.602000	24.413194	21.853937
1603	1.603000	24.391359	21.816462
1604	1.604000	24.369554	21.792339
1605	1.605000	24.347769	21.777831
1606	1.606000	24.325996	21.768565
1607	1.607000	24.304232	21.759963
1608	1.608000	24.282478	21.747684
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1611	1.611000	24.217349	21.658099
1612	1.612000	24.195716	21.607523
1613	1.613000	24.174137	21.549150
1614	1.614000	24.152620	21.486481
1615	1.615000	24.131165	21.423767
1616	1.616000	24.109770	21.365593
1617	1.617000	24.088429	21.316469
1618	1.618000	24.067130	21.280411
1619	1.619000	24.045860	21.260536
1620	1.620000	24.024600	21.258644
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1622	1.622000	23.982043	21.307179
1623	1.623000	23.960713	21.352194
1624	1.624000	23.939334	21.405054
1625	1.625000	23.917902	21.460149
1626	1.626000	23.896416	21.511507
1627	1.627000	23.874883	21.553236
1628	1.628000	23.853317	21.579970
1629	1.629000	23.831733	21.587312
1630	1.630000	23.810153	21.572282
1631	1.631000	23.788600	21.533749
1632	1.632000	23.767097	21.472680
1633	1.633000	23.745665	21.391899
1634	1.634000	23.724321	21.295664
1635	1.635000	23.703079	21.189222
1636	1.636000	23.681945	21.078382
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1649	1.649000	23.413026	20.596999
1650	1.650000	23.392434	20.586253
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1655	1.655000	23.289916	20.390371
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1657	1.657000	23.249237	20.290186
1658	1.658000	23.228967	20.248925
1659	1.659000	23.208734	20.217401
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1661	1.661000	23.168333	20.189447
1662	1.662000	23.148142	20.192606
1663	1.663000	23.127944	20.204684
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1665	1.665000	23.087498	20.242454
1666	1.666000	23.067246	20.260394
1667	1.667000	23.046980	20.272417
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1669	1.669000	23.006436	20.265204
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1780	1.780000	20.905234	17.831536
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1986	1.986000	17.632812	14.182900
1987	1.987000	17.618636	14.169820
1988	1.988000	17.604473	14.156960
1989	1.989000	17.590322	14.144295
1990	1.990000	17.576184	14.131799
1991	1.991000	17.562058	14.119446
1992	1.992000	17.547945	14.107208
1993	1.993000	17.533844	14.095060
1994	1.994000	17.519755	14.082975
1995	1.995000	17.505678	14.070929
1996	1.996000	17.491613	14.058899
1997	1.997000	17.477560	14.046867
1998	1.998000	17.463519	14.034814
1999	1.999000	17.449490	14.022728
2000	2.000000	17.435474	14.010602
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2003	2.003000	17.393497	13.973965
2004	2.004000	17.379529	13.961678
2005	2.005000	17.365574	13.949357
2006	2.006000	17.351630	13.936996
2007	2.007000	17.337700	13.924581
2008	2.008000	17.323781	13.912082
2009	2.009000	17.309875	13.899459
2010	2.010000	17.295982	13.886650
2011	2.011000	17.282102	13.873573
2012	2.012000	17.268235	13.860125
2013	2.013000	17.254382	13.846188
2014	2.014000	17.240543	13.831644
2015	2.015000	17.226719	13.816378
2016	2.016000	17.212911	13.800297
2017	2.017000	17.199119	13.783334
2018	2.018000	17.185345	13.765462
2019	2.019000	17.171589	13.746703
2020	2.020000	17.157852	13.727140
2021	2.021000	17.144135	13.706926
2022	2.022000	17.130438	13.686286
2023	2.023000	17.116762	13.665507
2024	2.024000	17.103107	13.644908
2025	2.025000	17.089472	13.624822
2026	2.026000	17.075857	13.605575
2027	2.027000	17.062260	13.587457
2028	2.028000	17.048681	13.570705
2029	2.029000	17.035118	13.555480
2030	2.030000	17.021570	13.541839
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2034	2.034000	16.967491	13.499995
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2038	2.038000	16.913566	13.460979
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2045	2.045000	16.819705	13.347443
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2047	2.047000	16.793047	13.311052
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2055	2.055000	16.686978	13.220951
2056	2.056000	16.673761	13.213669
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2058	2.058000	16.647350	13.196679
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2076	2.076000	16.412484	12.912411
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2089	2.089000	16.245373	12.788111
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2097	2.097000	16.143387	12.710083
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2100	2.100000	16.105302	12.678973
2101	2.101000	16.092629	12.667512
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2103	2.103000	16.067318	12.642876
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2105	2.105000	16.042059	12.616413
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2107	2.107000	16.016853	12.589050
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2115	2.115000	15.916554	12.490755
2116	2.116000	15.904068	12.480896
2117	2.117000	15.891592	12.471553
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2119	2.119000	15.866666	12.454055

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2132	2.132000	15.705629	12.295269
2133	2.133000	15.693343	12.275652
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2136	2.136000	15.656608	12.213971
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2138	2.138000	15.632221	12.173584
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2140	2.140000	15.607912	12.136534
2141	2.141000	15.595783	12.119819
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2146	2.146000	15.535355	12.057237
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2148	2.148000	15.511257	12.040857
2149	2.149000	15.499220	12.033940
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2153	2.153000	15.451132	12.010067
2154	2.154000	15.439125	12.004035
2155	2.155000	15.427125	11.997605
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2159	2.159000	15.379195	11.965193
2160	2.160000	15.367235	11.955010
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2163	2.163000	15.331422	11.919607
2164	2.164000	15.319509	11.906528
2165	2.165000	15.307609	11.893051
2166	2.166000	15.295723	11.879341
2167	2.167000	15.283850	11.865565
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2171	2.171000	15.236495	11.812604
2172	2.172000	15.224689	11.800337
2173	2.173000	15.212895	11.788497
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2175	2.175000	15.189340	11.765891
2176	2.176000	15.177580	11.754975
2177	2.177000	15.165830	11.744198
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2183	2.183000	15.095560	11.678557
2184	2.184000	15.083887	11.667262
2185	2.185000	15.072226	11.655950
2186	2.186000	15.060575	11.644683
2187	2.187000	15.048936	11.633522
2188	2.188000	15.037308	11.622522
2189	2.189000	15.025691	11.611723
2190	2.190000	15.014085	11.601144
2191	2.191000	15.002489	11.590778
2192	2.192000	14.990903	11.580583
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2194	2.194000	14.967762	11.560430
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2196	2.196000	14.944662	11.539988
2197	2.197000	14.933127	11.529424
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2221	2.221000	14.659725	11.268223
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2227	2.227000	14.592318	11.200359
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2231	2.231000	14.547600	11.159932
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2393	2.393000	12.867341	9.636328
2394	2.394000	12.857708	9.630788
2395	2.395000	12.848079	9.625797
2396	2.396000	12.838456	9.621139
2397	2.397000	12.828837	9.616583
2398	2.398000	12.819223	9.611886
2399	2.399000	12.809613	9.606813
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2405	2.405000	12.752099	9.558552
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2407	2.407000	12.733007	9.533772
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2409	2.409000	12.713967	9.505143
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2411	2.411000	12.694988	9.474008
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2413	2.413000	12.676072	9.442398
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2418	2.418000	12.629035	9.377195
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2792	2.792000	9.597632	6.942098
2793	2.793000	9.590694	6.935610
2794	2.794000	9.583762	6.928109
2795	2.795000	9.576838	6.919872
2796	2.796000	9.569922	6.911228
2797	2.797000	9.563015	6.902527
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2799	2.799000	9.549227	6.886293
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2806	2.806000	9.501150	6.856594
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2825	2.825000	9.371434	6.802422
2826	2.826000	9.364632	6.800611
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4488	4.488000	2.706615	2.253203
4489	4.489000	2.704361	2.255003
4490	4.490000	2.702106	2.255651
4491	4.491000	2.699850	2.255026
4492	4.492000	2.697596	2.253114
4493	4.493000	2.695345	2.250007
4494	4.494000	2.693097	2.245873
4495	4.495000	2.690853	2.240945
4496	4.496000	2.688615	2.235494
4497	4.497000	2.686383	2.229812
4498	4.498000	2.684156	2.224188
4499	4.499000	2.681934	2.218894
4500	4.500000	2.679718	2.214157
4501	4.501000	2.677505	2.210144
4502	4.502000	2.675297	2.206946
4503	4.503000	2.673091	2.204585
4504	4.504000	2.670887	2.203023
4505	4.505000	2.668685	2.202176
4506	4.506000	2.666483	2.201922
4507	4.507000	2.664281	2.202119
4508	4.508000	2.662078	2.202610
4509	4.509000	2.659875	2.203238
4510	4.510000	2.657672	2.203860
4511	4.511000	2.655468	2.204352
4512	4.512000	2.653263	2.204625
4513	4.513000	2.651059	2.204618
4514	4.514000	2.648854	2.204298
4515	4.515000	2.646650	2.203655
4516	4.516000	2.644447	2.202695
4517	4.517000	2.642245	2.201440
4518	4.518000	2.640044	2.199923
4519	4.519000	2.637845	2.198180
4520	4.520000	2.635648	2.196253
4521	4.521000	2.633453	2.194178
4522	4.522000	2.631260	2.191987
4523	4.523000	2.629069	2.189708
4524	4.524000	2.626880	2.187365
4525	4.525000	2.624694	2.184979
4526	4.526000	2.622510	2.182569
4527	4.527000	2.620329	2.180155
4528	4.528000	2.618150	2.177760
4529	4.529000	2.615973	2.175409
4530	4.530000	2.613799	2.173129
4531	4.531000	2.611627	2.170954
4532	4.532000	2.609457	2.168926
4533	4.533000	2.607289	2.167087
4534	4.534000	2.605123	2.165481
4535	4.535000	2.602958	2.164149
4536	4.536000	2.600794	2.163125
4537	4.537000	2.598632	2.162434
4538	4.538000	2.596469	2.162087

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4541	4.541000	2.589982	2.162972
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4545	4.545000	2.581324	2.166350
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4549	4.549000	2.572656	2.166640
4550	4.550000	2.570490	2.165636
4551	4.551000	2.568325	2.164160
4552	4.552000	2.566162	2.162251
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4555	4.555000	2.559686	2.154791
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4563	4.563000	2.542521	2.138833
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4565	4.565000	2.538246	2.136474
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4568	4.568000	2.531844	2.131005
4569	4.569000	2.529714	2.128233
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4571	4.571000	2.525465	2.121021
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4574	4.574000	2.519122	2.107224
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4577	4.577000	2.512821	2.093905
4578	4.578000	2.510729	2.090483
4579	4.579000	2.508639	2.087837
4580	4.580000	2.506552	2.086061
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4582	4.582000	2.502382	2.085170
4583	4.583000	2.500296	2.085910
4584	4.584000	2.498209	2.087250
4585	4.585000	2.496121	2.089003
4586	4.586000	2.494031	2.090961
4587	4.587000	2.491939	2.092912
4588	4.588000	2.489846	2.094654
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4594	4.594000	2.477269	2.094233
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4596	4.596000	2.473084	2.090285
4597	4.597000	2.470995	2.088103

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4601	4.601000	2.462658	2.081171
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4603	4.603000	2.458497	2.079844
4604	4.604000	2.456417	2.079705
4605	4.605000	2.454338	2.079822
4606	4.606000	2.452258	2.080104
4607	4.607000	2.450177	2.080447
4608	4.608000	2.448097	2.080747
4609	4.609000	2.446016	2.080908
4610	4.610000	2.443935	2.080846
4611	4.611000	2.441854	2.080502
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4613	4.613000	2.437695	2.078866
4614	4.614000	2.435617	2.077584
4615	4.615000	2.433540	2.076031
4616	4.616000	2.431465	2.074253
4617	4.617000	2.429391	2.072303
4618	4.618000	2.427320	2.070237
4619	4.619000	2.425251	2.068110
4620	4.620000	2.423184	2.065970
4621	4.621000	2.421119	2.063857
4622	4.622000	2.419056	2.061794
4623	4.623000	2.416995	2.059793
4624	4.624000	2.414937	2.057855
4625	4.625000	2.412880	2.055972
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4627	4.627000	2.408771	2.052318
4628	4.628000	2.406720	2.050512
4629	4.629000	2.404670	2.048699
4630	4.630000	2.402623	2.046866
4631	4.631000	2.400577	2.045005
4632	4.632000	2.398533	2.043119
4633	4.633000	2.396490	2.041215
4634	4.634000	2.394450	2.039307
4635	4.635000	2.392412	2.037413
4636	4.636000	2.390375	2.035552
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4638	4.638000	2.386308	2.032021
4639	4.639000	2.384277	2.030391
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4645	4.645000	2.372118	2.023278
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4647	4.647000	2.368073	2.021905
4648	4.648000	2.366051	2.021362
4649	4.649000	2.364030	2.020894
4650	4.650000	2.362009	2.020485
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4652	4.652000	2.357969	2.019780
4653	4.653000	2.355949	2.019454
4654	4.654000	2.353930	2.019125
4655	4.655000	2.351911	2.018779
4656	4.656000	2.349893	2.018401

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4659	4.659000	2.343839	2.016929
4660	4.660000	2.341823	2.016272
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4663	4.663000	2.335778	2.013563
4664	4.664000	2.333765	2.012354
4665	4.665000	2.331753	2.010965
4666	4.666000	2.329743	2.009386
4667	4.667000	2.327735	2.007610
4668	4.668000	2.325728	2.005634
4669	4.669000	2.323723	2.003465
4670	4.670000	2.321721	2.001115
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4672	4.672000	2.317724	1.995974
4673	4.673000	2.315729	1.993254
4674	4.674000	2.313737	1.990491
4675	4.675000	2.311748	1.987737
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4677	4.677000	2.307778	1.982455
4678	4.678000	2.305797	1.980026
4679	4.679000	2.303818	1.977798
4680	4.680000	2.301841	1.975808
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4682	4.682000	2.297893	1.972642
4683	4.683000	2.295921	1.971493
4684	4.684000	2.293950	1.970632
4685	4.685000	2.291979	1.970047
4686	4.686000	2.290010	1.969717
4687	4.687000	2.288040	1.969612
4688	4.688000	2.286070	1.969693
4689	4.689000	2.284100	1.969914
4690	4.690000	2.282130	1.970220
4691	4.691000	2.280160	1.970550
4692	4.692000	2.278189	1.970838
4693	4.693000	2.276218	1.971014
4694	4.694000	2.274247	1.971007
4695	4.695000	2.272276	1.970753
4696	4.696000	2.270306	1.970196
4697	4.697000	2.268336	1.969291
4698	4.698000	2.266368	1.968008
4699	4.699000	2.264400	1.966338
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4701	4.701000	2.260472	1.961916
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4703	4.703000	2.256554	1.956453
4704	4.704000	2.254599	1.953564
4705	4.705000	2.252646	1.950719
4706	4.706000	2.250697	1.948032
4707	4.707000	2.248750	1.945609
4708	4.708000	2.246806	1.943541
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4710	4.710000	2.242922	1.940710
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4712	4.712000	2.239041	1.939679
4713	4.713000	2.237102	1.939712
4714	4.714000	2.235162	1.939981
4715	4.715000	2.233222	1.940366

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4717	4.717000	2.229340	1.940968
4718	4.718000	2.227399	1.940947
4719	4.719000	2.225459	1.940582
4720	4.720000	2.223518	1.939811
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4722	4.722000	2.219641	1.937020
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4725	4.725000	2.213840	1.930650
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4727	4.727000	2.209983	1.926233
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4729	4.729000	2.206134	1.922777
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4738	4.738000	2.188844	1.921061
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4857	4.857000	1.970356	1.765904
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4883	4.883000	1.924591	1.739583
4884	4.884000	1.922852	1.738835
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4886	4.886000	1.919375	1.737583
4887	4.887000	1.917638	1.736921
4888	4.888000	1.915901	1.736138
4889	4.889000	1.914166	1.735172
4890	4.890000	1.912431	1.733982
4891	4.891000	1.910698	1.732548
4892	4.892000	1.908966	1.730880

4893	4.893000	1.907236	1.729010
4894	4.894000	1.905508	1.726989
4895	4.895000	1.903782	1.724878
4896	4.896000	1.902059	1.722746
4897	4.897000	1.900337	1.720658
4898	4.898000	1.898617	1.718674
4899	4.899000	1.896899	1.716840
4900	4.900000	1.895183	1.715184
4901	4.901000	1.893469	1.713707
4902	4.902000	1.891756	1.712382
4903	4.903000	1.890044	1.711158
4904	4.904000	1.888334	1.709968
4905	4.905000	1.886624	1.708738
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4907	4.907000	1.883210	1.705859
4908	4.908000	1.881505	1.704088
4909	4.909000	1.879802	1.702048
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4911	4.911000	1.876402	1.697201
4912	4.912000	1.874706	1.694511
4913	4.913000	1.873013	1.691786
4914	4.914000	1.871323	1.689162
4915	4.915000	1.869635	1.686786
4916	4.916000	1.867949	1.684804
4917	4.917000	1.866265	1.683346
4918	4.918000	1.864582	1.682521
4919	4.919000	1.862899	1.682397
4920	4.920000	1.861217	1.682993
4921	4.921000	1.859533	1.684268
4922	4.922000	1.857848	1.686114
4923	4.923000	1.856161	1.688366
4924	4.924000	1.854471	1.690822
4925	4.925000	1.852779	1.693257
4926	4.926000	1.851085	1.695442
4927	4.927000	1.849388	1.697160
4928	4.928000	1.847691	1.698227
4929	4.929000	1.845992	1.698501
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4933	4.933000	1.839209	1.691445
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4936	4.936000	1.834149	1.681955
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4938	4.938000	1.830790	1.677380
4939	4.939000	1.829113	1.676297
4940	4.940000	1.827437	1.676187
4941	4.941000	1.825760	1.677061
4942	4.942000	1.824082	1.678824
4943	4.943000	1.822402	1.681289
4944	4.944000	1.820719	1.684198
4945	4.945000	1.819034	1.687249
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4947	4.947000	1.815654	1.692493
4948	4.948000	1.813960	1.694075
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4951	4.951000	1.808879	1.692109

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4957	4.957000	1.798804	1.663330
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4967	4.967000	1.782299	1.651256
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4976	4.976000	1.767417	1.648245
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5286	5.286000	1.306801	1.344881
5287	5.287000	1.305456	1.344618
5288	5.288000	1.304112	1.344251
5289	5.289000	1.302768	1.343714
5290	5.290000	1.301424	1.342959
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5292	5.292000	1.298741	1.340718
5293	5.293000	1.297401	1.339260
5294	5.294000	1.296062	1.337630
5295	5.295000	1.294725	1.335888
5296	5.296000	1.293390	1.334098
5297	5.297000	1.292057	1.332327
5298	5.298000	1.290726	1.330638
5299	5.299000	1.289396	1.329084
5300	5.300000	1.288067	1.327703
5301	5.301000	1.286740	1.326510
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5304	5.304000	1.282765	1.323879
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5308	5.308000	1.277475	1.320710
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5310	5.310000	1.274836	1.318266
5311	5.311000	1.273519	1.316716
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5313	5.313000	1.270889	1.313034
5314	5.314000	1.269577	1.310990
5315	5.315000	1.268267	1.308892
5316	5.316000	1.266959	1.306810
5317	5.317000	1.265653	1.304813
5318	5.318000	1.264350	1.302968
5319	5.319000	1.263047	1.301329
5320	5.320000	1.261747	1.299936
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5325	5.325000	1.255257	1.296635
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5665	5.665000	0.863626	0.998813
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5686	5.686000	0.842553	0.996678
5687	5.687000	0.841557	0.994979
5688	5.688000	0.840563	0.993377
5689	5.689000	0.839570	0.991918
5690	5.690000	0.838579	0.990643
5691	5.691000	0.837589	0.989579
5692	5.692000	0.836600	0.988740
5693	5.693000	0.835611	0.988126
5694	5.694000	0.834624	0.987726
5695	5.695000	0.833636	0.987521
5696	5.696000	0.832648	0.987481
5697	5.697000	0.831661	0.987574
5698	5.698000	0.830673	0.987763
5699	5.699000	0.829685	0.988007
5700	5.700000	0.828697	0.988269
5701	5.701000	0.827709	0.988511
5702	5.702000	0.826720	0.988698
5703	5.703000	0.825731	0.988803
5704	5.704000	0.824743	0.988800
5705	5.705000	0.823754	0.988673
5706	5.706000	0.822765	0.988408
5707	5.707000	0.821777	0.988003
5708	5.708000	0.820789	0.987462
5709	5.709000	0.819802	0.986798
5710	5.710000	0.818816	0.986033
5711	5.711000	0.817830	0.985200
5712	5.712000	0.816845	0.984343
5713	5.713000	0.815862	0.983511
5714	5.714000	0.814878	0.982756
5715	5.715000	0.813896	0.982127
5716	5.716000	0.812914	0.981669
5717	5.717000	0.811933	0.981414
5718	5.718000	0.810951	0.981379

5719	5.719000	0.809970	0.981563
5720	5.720000	0.808988	0.981940
5721	5.721000	0.808006	0.982456
5722	5.722000	0.807023	0.983026
5723	5.723000	0.806040	0.983546
5724	5.724000	0.805056	0.983895
5725	5.725000	0.804072	0.983946
5726	5.726000	0.803088	0.983581
5727	5.727000	0.802105	0.982693
5728	5.728000	0.801123	0.981199
5729	5.729000	0.800143	0.979050
5730	5.730000	0.799165	0.976238
5731	5.731000	0.798191	0.972807
5732	5.732000	0.797220	0.968857
5733	5.733000	0.796253	0.964533
5734	5.734000	0.795291	0.960015
5735	5.735000	0.794333	0.955502
5736	5.736000	0.793380	0.951200
5737	5.737000	0.792431	0.947304
5738	5.738000	0.791485	0.943991
5739	5.739000	0.790542	0.941398
5740	5.740000	0.789602	0.939618
5741	5.741000	0.788663	0.938675
5742	5.742000	0.787724	0.938528
5743	5.743000	0.786785	0.939071
5744	5.744000	0.785846	0.940153
5745	5.745000	0.784905	0.941590
5746	5.746000	0.783962	0.943182
5747	5.747000	0.783019	0.944728
5748	5.748000	0.782073	0.946041
5749	5.749000	0.781127	0.946962
5750	5.750000	0.780179	0.947376
5751	5.751000	0.779232	0.947227
5752	5.752000	0.778285	0.946527
5753	5.753000	0.777339	0.945346
5754	5.754000	0.776395	0.943801
5755	5.755000	0.775452	0.942041
5756	5.756000	0.774511	0.940229
5757	5.757000	0.773571	0.938534
5758	5.758000	0.772634	0.937111
5759	5.759000	0.771697	0.936092
5760	5.760000	0.770761	0.935564
5761	5.761000	0.769826	0.935566
5762	5.762000	0.768890	0.936068
5763	5.763000	0.767953	0.936990
5764	5.764000	0.767016	0.938208
5765	5.765000	0.766077	0.939566
5766	5.766000	0.765136	0.940896
5767	5.767000	0.764195	0.942026
5768	5.768000	0.763253	0.942794
5769	5.769000	0.762310	0.943061
5770	5.770000	0.761367	0.942727
5771	5.771000	0.760425	0.941741
5772	5.772000	0.759484	0.940108
5773	5.773000	0.758545	0.937889
5774	5.774000	0.757608	0.935184
5775	5.775000	0.756674	0.932127
5776	5.776000	0.755744	0.928868
5777	5.777000	0.754817	0.925573

5778	5.778000	0.753893	0.922402
5779	5.779000	0.752972	0.919506
5780	5.780000	0.752053	0.917014
5781	5.781000	0.751137	0.915020
5782	5.782000	0.750223	0.913580
5783	5.783000	0.749310	0.912712
5784	5.784000	0.748397	0.912399
5785	5.785000	0.747485	0.912597
5786	5.786000	0.746572	0.913241
5787	5.787000	0.745658	0.914245
5788	5.788000	0.744743	0.915514
5789	5.789000	0.743827	0.916945
5790	5.790000	0.742910	0.918433
5791	5.791000	0.741990	0.919877
5792	5.792000	0.741070	0.921184
5793	5.793000	0.740148	0.922269
5794	5.794000	0.739225	0.923063
5795	5.795000	0.738302	0.923504
5796	5.796000	0.737379	0.923549
5797	5.797000	0.736455	0.923167
5798	5.798000	0.735533	0.922345
5799	5.799000	0.734611	0.921088
5800	5.800000	0.733691	0.919418
5801	5.801000	0.732772	0.917379
5802	5.802000	0.731856	0.915037
5803	5.803000	0.730942	0.912470
5804	5.804000	0.730031	0.909772
5805	5.805000	0.729123	0.907039
5806	5.806000	0.728217	0.904371
5807	5.807000	0.727314	0.901862
5808	5.808000	0.726413	0.899598
5809	5.809000	0.725514	0.897649
5810	5.810000	0.724618	0.896067
5811	5.811000	0.723722	0.894877
5812	5.812000	0.722828	0.894078
5813	5.813000	0.721934	0.893643
5814	5.814000	0.721040	0.893525
5815	5.815000	0.720147	0.893662
5816	5.816000	0.719253	0.893983
5817	5.817000	0.718359	0.894411
5818	5.818000	0.717464	0.894869
5819	5.819000	0.716569	0.895283
5820	5.820000	0.715673	0.895594
5821	5.821000	0.714778	0.895752
5822	5.822000	0.713882	0.895730
5823	5.823000	0.712986	0.895516
5824	5.824000	0.712091	0.895112
5825	5.825000	0.711196	0.894535
5826	5.826000	0.710302	0.893808
5827	5.827000	0.709409	0.892964
5828	5.828000	0.708516	0.892039
5829	5.829000	0.707625	0.891069
5830	5.830000	0.706734	0.890092
5831	5.831000	0.705844	0.889140
5832	5.832000	0.704956	0.888241
5833	5.833000	0.704068	0.887417
5834	5.834000	0.703181	0.886682
5835	5.835000	0.702295	0.886047
5836	5.836000	0.701409	0.885515

5837	5.837000	0.700523	0.885087
5838	5.838000	0.699639	0.884756
5839	5.839000	0.698754	0.884510
5840	5.840000	0.697869	0.884334
5841	5.841000	0.696985	0.884207
5842	5.842000	0.696101	0.884104
5843	5.843000	0.695217	0.884000
5844	5.844000	0.694333	0.883864
5845	5.845000	0.693449	0.883670
5846	5.846000	0.692566	0.883391
5847	5.847000	0.691683	0.883007
5848	5.848000	0.690800	0.882501
5849	5.849000	0.689918	0.881865
5850	5.850000	0.689036	0.881100
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5853	5.853000	0.686397	0.878188
5854	5.854000	0.685519	0.877112
5855	5.855000	0.684643	0.876042
5856	5.856000	0.683767	0.875015
5857	5.857000	0.682893	0.874058
5858	5.858000	0.682019	0.873191
5859	5.859000	0.681146	0.872420
5860	5.860000	0.680274	0.871735
5861	5.861000	0.679403	0.871102
5862	5.862000	0.678532	0.870469
5863	5.863000	0.677662	0.869767
5864	5.864000	0.676793	0.868917
5865	5.865000	0.675924	0.867839
5866	5.866000	0.675057	0.866458
5867	5.867000	0.674191	0.864716
5868	5.868000	0.673328	0.862575
5869	5.869000	0.672467	0.860024
5870	5.870000	0.671608	0.857093
5871	5.871000	0.670753	0.853855
5872	5.872000	0.669900	0.850427
5873	5.873000	0.669052	0.846969
5874	5.874000	0.668206	0.843660
5875	5.875000	0.667364	0.840690
5876	5.876000	0.666525	0.838245
5877	5.877000	0.665687	0.836489
5878	5.878000	0.664851	0.835553
5879	5.879000	0.664016	0.835520
5880	5.880000	0.663180	0.836410
5881	5.881000	0.662343	0.838167
5882	5.882000	0.661503	0.840650
5883	5.883000	0.660661	0.843649
5884	5.884000	0.659816	0.846905
5885	5.885000	0.658967	0.850127
5886	5.886000	0.658116	0.853017
5887	5.887000	0.657261	0.855290
5888	5.888000	0.656405	0.856693
5889	5.889000	0.655549	0.857028
5890	5.890000	0.654692	0.856168
5891	5.891000	0.653837	0.854085
5892	5.892000	0.652984	0.850854
5893	5.893000	0.652136	0.846646
5894	5.894000	0.651291	0.841698
5895	5.895000	0.650452	0.836301

5896	5.896000	0.649619	0.830768
5897	5.897000	0.648791	0.825418
5898	5.898000	0.647968	0.820549
5899	5.899000	0.647149	0.816420
5900	5.900000	0.646335	0.813223
5901	5.901000	0.645522	0.811065
5902	5.902000	0.644712	0.809956
5903	5.903000	0.643902	0.809814
5904	5.904000	0.643092	0.810488
5905	5.905000	0.642281	0.811777
5906	5.906000	0.641468	0.813447
5907	5.907000	0.640654	0.815253
5908	5.908000	0.639838	0.816958
5909	5.909000	0.639020	0.818351
5910	5.910000	0.638201	0.819269
5911	5.911000	0.637382	0.819612
5912	5.912000	0.636562	0.819359
5913	5.913000	0.635743	0.818559
5914	5.914000	0.634925	0.817314
5915	5.915000	0.634109	0.815769
5916	5.916000	0.633294	0.814091
5917	5.917000	0.632481	0.812457
5918	5.918000	0.631669	0.811041
5919	5.919000	0.630858	0.809995
5920	5.920000	0.630049	0.809435
5921	5.921000	0.629239	0.809427
5922	5.922000	0.628430	0.809978
5923	5.923000	0.627619	0.811040
5924	5.924000	0.626807	0.812525
5925	5.925000	0.625994	0.814310
5926	5.926000	0.625179	0.816257
5927	5.927000	0.624361	0.818216
5928	5.928000	0.623542	0.820046
5929	5.929000	0.622721	0.821616
5930	5.930000	0.621899	0.822827
5931	5.931000	0.621076	0.823614
5932	5.932000	0.620252	0.823960
5933	5.933000	0.619428	0.823889
5934	5.934000	0.618605	0.823456
5935	5.935000	0.617781	0.822739
5936	5.936000	0.616959	0.821829
5937	5.937000	0.616138	0.820821
5938	5.938000	0.615318	0.819806
5939	5.939000	0.614498	0.818858
5940	5.940000	0.613680	0.818030
5941	5.941000	0.612862	0.817342
5942	5.942000	0.612045	0.816776
5943	5.943000	0.611228	0.816280
5944	5.944000	0.610412	0.815781
5945	5.945000	0.609597	0.815194
5946	5.946000	0.608782	0.814427
5947	5.947000	0.607968	0.813396
5948	5.948000	0.607156	0.812033
5949	5.949000	0.606344	0.810294
5950	5.950000	0.605535	0.808171
5951	5.951000	0.604728	0.805699
5952	5.952000	0.603924	0.802963
5953	5.953000	0.603122	0.800087
5954	5.954000	0.602324	0.797225

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5956	5.956000	0.600734	0.792218
5957	5.957000	0.599943	0.790401
5958	5.958000	0.599153	0.789229
5959	5.959000	0.598364	0.788800
5960	5.960000	0.597575	0.789160
5961	5.961000	0.596786	0.790293
5962	5.962000	0.595994	0.792113
5963	5.963000	0.595201	0.794475
5964	5.964000	0.594405	0.797187
5965	5.965000	0.593607	0.800033
5966	5.966000	0.592805	0.802782
5967	5.967000	0.592001	0.805207
5968	5.968000	0.591195	0.807103
5969	5.969000	0.590387	0.808300
5970	5.970000	0.589579	0.808681
5971	5.971000	0.588770	0.808198
5972	5.972000	0.587963	0.806877
5973	5.973000	0.587157	0.804817
5974	5.974000	0.586354	0.802167
5975	5.975000	0.585553	0.799114
5976	5.976000	0.584755	0.795866
5977	5.977000	0.583961	0.792639
5978	5.978000	0.583170	0.789634
5979	5.979000	0.582382	0.787031
5980	5.980000	0.581596	0.784964
5981	5.981000	0.580811	0.783513
5982	5.982000	0.580028	0.782688
5983	5.983000	0.579246	0.782440
5984	5.984000	0.578463	0.782674
5985	5.985000	0.577680	0.783257
5986	5.986000	0.576897	0.784035
5987	5.987000	0.576112	0.784846
5988	5.988000	0.575327	0.785532
5989	5.989000	0.574541	0.785950
5990	5.990000	0.573755	0.785989
5991	5.991000	0.572970	0.785577
5992	5.992000	0.572184	0.784695
5993	5.993000	0.571400	0.783370
5994	5.994000	0.570618	0.781662
5995	5.995000	0.569837	0.779660
5996	5.996000	0.569059	0.777468
5997	5.997000	0.568282	0.775199
5998	5.998000	0.567508	0.772961
5999	5.999000	0.566736	0.770851
6000	6.000000	0.565966	0.768943
6001	6.001000	0.565198	0.767281
6002	6.002000	0.564432	0.765868
6003	6.003000	0.563666	0.764679
6004	6.004000	0.562902	0.763659
6005	6.005000	0.562139	0.762739
6006	6.006000	0.561377	0.761840
6007	6.007000	0.560615	0.760885
6008	6.008000	0.559855	0.759802
6009	6.009000	0.559096	0.758536
6010	6.010000	0.558338	0.757058
6011	6.011000	0.557582	0.755368
6012	6.012000	0.556827	0.753506
6013	6.013000	0.556075	0.751541

6014	6.014000	0.555324	0.749565
6015	6.015000	0.554576	0.747682
6016	6.016000	0.553829	0.745999
6017	6.017000	0.553084	0.744618
6018	6.018000	0.552339	0.743623
6019	6.019000	0.551596	0.743074
6020	6.020000	0.550853	0.742995
6021	6.021000	0.550110	0.743368
6022	6.022000	0.549366	0.744125
6023	6.023000	0.548622	0.745157
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6025	6.025000	0.547129	0.747480
6026	6.026000	0.546381	0.748458
6027	6.027000	0.545632	0.749113
6028	6.028000	0.544883	0.749314
6029	6.029000	0.544134	0.748965
6030	6.030000	0.543385	0.748015
6031	6.031000	0.542638	0.746472
6032	6.032000	0.541893	0.744405
6033	6.033000	0.541149	0.741940
6034	6.034000	0.540409	0.739244
6035	6.035000	0.539671	0.736506
6036	6.036000	0.538936	0.733929
6037	6.037000	0.538203	0.731709
6038	6.038000	0.537472	0.730024
6039	6.039000	0.536743	0.729015
6040	6.040000	0.536014	0.728777
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6044	6.044000	0.533089	0.735075
6045	6.045000	0.532353	0.737827
6046	6.046000	0.531613	0.740665
6047	6.047000	0.530871	0.743370
6048	6.048000	0.530127	0.745735
6049	6.049000	0.529380	0.747576
6050	6.050000	0.528632	0.748749
6051	6.051000	0.527883	0.749165
6052	6.052000	0.527134	0.748796
6053	6.053000	0.526386	0.747673
6054	6.054000	0.525639	0.745875
6055	6.055000	0.524894	0.743515
6056	6.056000	0.524152	0.740732
6057	6.057000	0.523413	0.737680
6058	6.058000	0.522677	0.734514
6059	6.059000	0.521944	0.731380
6060	6.060000	0.521214	0.728409
6061	6.061000	0.520487	0.725697
6062	6.062000	0.519763	0.723305
6063	6.063000	0.519040	0.721259
6064	6.064000	0.518320	0.719555
6065	6.065000	0.517601	0.718165
6066	6.066000	0.516883	0.717045
6067	6.067000	0.516167	0.716137
6068	6.068000	0.515451	0.715379
6069	6.069000	0.514736	0.714709
6070	6.070000	0.514022	0.714072
6071	6.071000	0.513308	0.713424
6072	6.072000	0.512595	0.712736

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6074	6.074000	0.511171	0.711207
6075	6.075000	0.510460	0.710375
6076	6.076000	0.509750	0.709519
6077	6.077000	0.509041	0.708658
6078	6.078000	0.508333	0.707816
6079	6.079000	0.507625	0.707011
6080	6.080000	0.506919	0.706261
6081	6.081000	0.506213	0.705574
6082	6.082000	0.505508	0.704950
6083	6.083000	0.504803	0.704381
6084	6.084000	0.504099	0.703854
6085	6.085000	0.503395	0.703350
6086	6.086000	0.502692	0.702853
6087	6.087000	0.501989	0.702343
6088	6.088000	0.501287	0.701807
6089	6.089000	0.500586	0.701235
6090	6.090000	0.499885	0.700624
6091	6.091000	0.499185	0.699981
6092	6.092000	0.498485	0.699325
6093	6.093000	0.497786	0.698681
6094	6.094000	0.497088	0.698081
6095	6.095000	0.496390	0.697558
6096	6.096000	0.495692	0.697145
6097	6.097000	0.494995	0.696872
6098	6.098000	0.494299	0.696760
6099	6.099000	0.493602	0.696820
6100	6.100000	0.492905	0.697051
6101	6.101000	0.492208	0.697435
6102	6.102000	0.491510	0.697936
6103	6.103000	0.490812	0.698503
6104	6.104000	0.490113	0.699073
6105	6.105000	0.489414	0.699579
6106	6.106000	0.488714	0.699950
6107	6.107000	0.488014	0.700119
6108	6.108000	0.487314	0.700024
6109	6.109000	0.486614	0.699615
6110	6.110000	0.485915	0.698859
6111	6.111000	0.485216	0.697740
6112	6.112000	0.484519	0.696266
6113	6.113000	0.483824	0.694467
6114	6.114000	0.483131	0.692388
6115	6.115000	0.482439	0.690089
6116	6.116000	0.481750	0.687640
6117	6.117000	0.481064	0.685117
6118	6.118000	0.480380	0.682599
6119	6.119000	0.479699	0.680164
6120	6.120000	0.479020	0.677887
6121	6.121000	0.478343	0.675833
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6127	6.127000	0.474310	0.670482
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6144	6.144000	0.462806	0.675208
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6146	6.146000	0.461458	0.672592
6147	6.147000	0.460786	0.671643
6148	6.148000	0.460115	0.671063
6149	6.149000	0.459444	0.670913
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6496	6.496000	0.265203	0.448387
6497	6.497000	0.264756	0.446191
6498	6.498000	0.264310	0.444272
6499	6.499000	0.263867	0.442696
6500	6.500000	0.263425	0.441499
6501	6.501000	0.262984	0.440688
6502	6.502000	0.262543	0.440235
6503	6.503000	0.262103	0.440080
6504	6.504000	0.261663	0.440145
6505	6.505000	0.261223	0.440338
6506	6.506000	0.260782	0.440564
6507	6.507000	0.260342	0.440733
6508	6.508000	0.259901	0.440770
6509	6.509000	0.259460	0.440622
6510	6.510000	0.259020	0.440267
6511	6.511000	0.258580	0.439726
6512	6.512000	0.258140	0.439060
6513	6.513000	0.257702	0.438371
6514	6.514000	0.257264	0.437781
6515	6.515000	0.256826	0.437425
6516	6.516000	0.256389	0.437436
6517	6.517000	0.255951	0.437934
6518	6.518000	0.255512	0.439010
6519	6.519000	0.255073	0.440718
6520	6.520000	0.254631	0.443058
6521	6.521000	0.254186	0.445966
6522	6.522000	0.253739	0.449308
6523	6.523000	0.253287	0.452892
6524	6.524000	0.252833	0.456485
6525	6.525000	0.252375	0.459833
6526	6.526000	0.251913	0.462679
6527	6.527000	0.251450	0.464780
6528	6.528000	0.250984	0.465931
6529	6.529000	0.250518	0.465977
6530	6.530000	0.250053	0.464837
6531	6.531000	0.249589	0.462517
6532	6.532000	0.249128	0.459126
6533	6.533000	0.248671	0.454857
6534	6.534000	0.248219	0.449967
6535	6.535000	0.247772	0.444757
6536	6.536000	0.247330	0.439544
6537	6.537000	0.246892	0.434645
6538	6.538000	0.246460	0.430349
6539	6.539000	0.246031	0.426898
6540	6.540000	0.245606	0.424465
6541	6.541000	0.245182	0.423127
6542	6.542000	0.244759	0.422859
6543	6.543000	0.244336	0.423541
6544	6.544000	0.243911	0.424981

6545	6.545000	0.243485	0.426936
6546	6.546000	0.243057	0.429133
6547	6.547000	0.242627	0.431294
6548	6.548000	0.242195	0.433150
6549	6.549000	0.241761	0.434470
6550	6.550000	0.241326	0.435079
6551	6.551000	0.240891	0.434880
6552	6.552000	0.240457	0.433865
6553	6.553000	0.240024	0.432110
6554	6.554000	0.239593	0.429753
6555	6.555000	0.239165	0.426980
6556	6.556000	0.238739	0.424006
6557	6.557000	0.238317	0.421058
6558	6.558000	0.237897	0.418355
6559	6.559000	0.237480	0.416095
6560	6.560000	0.237065	0.414432
6561	6.561000	0.236651	0.413465
6562	6.562000	0.236237	0.413221
6563	6.563000	0.235824	0.413663
6564	6.564000	0.235410	0.414703
6565	6.565000	0.234994	0.416213
6566	6.566000	0.234577	0.418038
6567	6.567000	0.234158	0.420008
6568	6.568000	0.233737	0.421950
6569	6.569000	0.233314	0.423700
6570	6.570000	0.232890	0.425118
6571	6.571000	0.232464	0.426095
6572	6.572000	0.232038	0.426566
6573	6.573000	0.231611	0.426507
6574	6.574000	0.231185	0.425926
6575	6.575000	0.230760	0.424865
6576	6.576000	0.230336	0.423387
6577	6.577000	0.229913	0.421573
6578	6.578000	0.229493	0.419518
6579	6.579000	0.229074	0.417322
6580	6.580000	0.228658	0.415088
6581	6.581000	0.228244	0.412915
6582	6.582000	0.227832	0.410890
6583	6.583000	0.227422	0.409092
6584	6.584000	0.227014	0.407585
6585	6.585000	0.226607	0.406422
6586	6.586000	0.226201	0.405639
6587	6.587000	0.225795	0.405256
6588	6.588000	0.225390	0.405276
6589	6.589000	0.224984	0.405685
6590	6.590000	0.224578	0.406446
6591	6.591000	0.224171	0.407505
6592	6.592000	0.223763	0.408783
6593	6.593000	0.223354	0.410190
6594	6.594000	0.222943	0.411622
6595	6.595000	0.222531	0.412973
6596	6.596000	0.222117	0.414138
6597	6.597000	0.221702	0.415020
6598	6.598000	0.221287	0.415539
6599	6.599000	0.220872	0.415631
6600	6.600000	0.220456	0.415262
6601	6.601000	0.220041	0.414428
6602	6.602000	0.219627	0.413161
6603	6.603000	0.219215	0.411524

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6605	6.605000	0.218396	0.407504
6606	6.606000	0.217990	0.405333
6607	6.607000	0.217585	0.403204
6608	6.608000	0.217183	0.401221
6609	6.609000	0.216783	0.399476
6610	6.610000	0.216384	0.398038
6611	6.611000	0.215987	0.396948
6612	6.612000	0.215590	0.396211
6613	6.613000	0.215194	0.395805
6614	6.614000	0.214798	0.395681
6615	6.615000	0.214402	0.395772
6616	6.616000	0.214007	0.396001
6617	6.617000	0.213610	0.396282
6618	6.618000	0.213214	0.396532
6619	6.619000	0.212817	0.396670
6620	6.620000	0.212421	0.396632
6621	6.621000	0.212024	0.396368
6622	6.622000	0.211628	0.395855
6623	6.623000	0.211233	0.395086
6624	6.624000	0.210838	0.394076
6625	6.625000	0.210445	0.392852
6626	6.626000	0.210053	0.391451
6627	6.627000	0.209662	0.389919
6628	6.628000	0.209273	0.388306
6629	6.629000	0.208885	0.386661
6630	6.630000	0.208499	0.385033
6631	6.631000	0.208115	0.383460
6632	6.632000	0.207732	0.381977
6633	6.633000	0.207351	0.380605
6634	6.634000	0.206971	0.379360
6635	6.635000	0.206592	0.378253
6636	6.636000	0.206215	0.377289
6637	6.637000	0.205838	0.376466
6638	6.638000	0.205462	0.375784
6639	6.639000	0.205086	0.375239
6640	6.640000	0.204711	0.374825
6641	6.641000	0.204336	0.374540
6642	6.642000	0.203962	0.374381
6643	6.643000	0.203588	0.374347
6644	6.644000	0.203213	0.374437
6645	6.645000	0.202839	0.374648
6646	6.646000	0.202464	0.374976
6647	6.647000	0.202089	0.375415
6648	6.648000	0.201713	0.375953
6649	6.649000	0.201337	0.376577
6650	6.650000	0.200960	0.377265
6651	6.651000	0.200582	0.377990
6652	6.652000	0.200204	0.378719
6653	6.653000	0.199825	0.379414
6654	6.654000	0.199445	0.380034
6655	6.655000	0.199065	0.380538
6656	6.656000	0.198684	0.380890
6657	6.657000	0.198303	0.381057
6658	6.658000	0.197922	0.381016
6659	6.659000	0.197541	0.380754
6660	6.660000	0.197161	0.380270
6661	6.661000	0.196781	0.379579
6662	6.662000	0.196401	0.378715

6663	6.663000	0.196023	0.377723
6664	6.664000	0.195646	0.376660
6665	6.665000	0.195270	0.375586
6666	6.666000	0.194895	0.374566
6667	6.667000	0.194521	0.373658
6668	6.668000	0.194147	0.372915
6669	6.669000	0.193775	0.372379
6670	6.670000	0.193403	0.372076
6671	6.671000	0.193031	0.372010
6672	6.672000	0.192658	0.372165
6673	6.673000	0.192286	0.372506
6674	6.674000	0.191913	0.372983
6675	6.675000	0.191540	0.373534
6676	6.676000	0.191166	0.374094
6677	6.677000	0.190792	0.374597
6678	6.678000	0.190417	0.374981
6679	6.679000	0.190042	0.375194
6680	6.680000	0.189667	0.375197
6681	6.681000	0.189292	0.374969
6682	6.682000	0.188917	0.374512
6683	6.683000	0.188543	0.373846
6684	6.684000	0.188169	0.373006
6685	6.685000	0.187797	0.372038
6686	6.686000	0.187425	0.370998
6687	6.687000	0.187055	0.369941
6688	6.688000	0.186685	0.368923
6689	6.689000	0.186317	0.367997
6690	6.690000	0.185949	0.367203
6691	6.691000	0.185583	0.366570
6692	6.692000	0.185216	0.366113
6693	6.693000	0.184850	0.365830
6694	6.694000	0.184484	0.365707
6695	6.695000	0.184119	0.365720
6696	6.696000	0.183753	0.365839
6697	6.697000	0.183387	0.366027
6698	6.698000	0.183021	0.366245
6699	6.699000	0.182655	0.366453
6700	6.700000	0.182288	0.366615
6701	6.701000	0.181921	0.366696
6702	6.702000	0.181555	0.366670
6703	6.703000	0.181188	0.366517
6704	6.704000	0.180822	0.366221
6705	6.705000	0.180456	0.365775
6706	6.706000	0.180090	0.365175
6707	6.707000	0.179725	0.364422
6708	6.708000	0.179361	0.363524
6709	6.709000	0.178998	0.362492
6710	6.710000	0.178637	0.361341
6711	6.711000	0.178276	0.360089
6712	6.712000	0.177916	0.358759
6713	6.713000	0.177558	0.357376
6714	6.714000	0.177202	0.355966
6715	6.715000	0.176846	0.354555
6716	6.716000	0.176493	0.353171
6717	6.717000	0.176140	0.351838
6718	6.718000	0.175789	0.350579
6719	6.719000	0.175439	0.349413
6720	6.720000	0.175090	0.348357
6721	6.721000	0.174742	0.347420

6722	6.722000	0.174395	0.346607
6723	6.723000	0.174049	0.345917
6724	6.724000	0.173703	0.345344
6725	6.725000	0.173358	0.344879
6726	6.726000	0.173013	0.344507
6727	6.727000	0.172669	0.344213
6728	6.728000	0.172325	0.343976
6729	6.729000	0.171981	0.343777
6730	6.730000	0.171637	0.343593
6731	6.731000	0.171294	0.343402
6732	6.732000	0.170951	0.343182
6733	6.733000	0.170608	0.342911
6734	6.734000	0.170265	0.342570
6735	6.735000	0.169922	0.342143
6736	6.736000	0.169581	0.341617
6737	6.737000	0.169239	0.340985
6738	6.738000	0.168899	0.340246
6739	6.739000	0.168559	0.339406
6740	6.740000	0.168220	0.338477
6741	6.741000	0.167882	0.337481
6742	6.742000	0.167545	0.336450
6743	6.743000	0.167209	0.335421
6744	6.744000	0.166874	0.334435
6745	6.745000	0.166540	0.333536
6746	6.746000	0.166207	0.332762
6747	6.747000	0.165874	0.332150
6748	6.748000	0.165543	0.331724
6749	6.749000	0.165211	0.331501
6750	6.750000	0.164879	0.331482
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6752	6.752000	0.164216	0.331969
6753	6.753000	0.163884	0.332390
6754	6.754000	0.163551	0.332852
6755	6.755000	0.163218	0.333285
6756	6.756000	0.162885	0.333618
6757	6.757000	0.162551	0.333785
6758	6.758000	0.162217	0.333722
6759	6.759000	0.161884	0.333381
6760	6.760000	0.161551	0.332726
6761	6.761000	0.161218	0.331745
6762	6.762000	0.160887	0.330447
6763	6.763000	0.160558	0.328862
6764	6.764000	0.160230	0.327036
6765	6.765000	0.159904	0.325027
6766	6.766000	0.159580	0.322902
6767	6.767000	0.159258	0.320731
6768	6.768000	0.158938	0.318580
6769	6.769000	0.158621	0.316515
6770	6.770000	0.158305	0.314587
6771	6.771000	0.157991	0.312838
6772	6.772000	0.157679	0.311290
6773	6.773000	0.157369	0.309951
6774	6.774000	0.157059	0.308816
6775	6.775000	0.156751	0.307872
6776	6.776000	0.156444	0.307098
6777	6.777000	0.156137	0.306472
6778	6.778000	0.155831	0.305969
6779	6.779000	0.155525	0.305567
6780	6.780000	0.155219	0.305252

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6782	6.782000	0.154609	0.304863
6783	6.783000	0.154304	0.304803
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6785	6.785000	0.153695	0.305040
6786	6.786000	0.153389	0.305377
6787	6.787000	0.153084	0.305886
6788	6.788000	0.152778	0.306578
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6801	6.801000	0.148695	0.319085
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6804	6.804000	0.147741	0.316561
6805	6.805000	0.147425	0.315124
6806	6.806000	0.147111	0.313467
6807	6.807000	0.146798	0.311650
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6809	6.809000	0.146179	0.307794
6810	6.810000	0.145872	0.305887
6811	6.811000	0.145567	0.304078
6812	6.812000	0.145264	0.302425
6813	6.813000	0.144962	0.300978
6814	6.814000	0.144662	0.299779
6815	6.815000	0.144362	0.298860
6816	6.816000	0.144064	0.298242
6817	6.817000	0.143766	0.297933
6818	6.818000	0.143468	0.297927
6819	6.819000	0.143170	0.298204
6820	6.820000	0.142871	0.298725
6821	6.821000	0.142572	0.299433
6822	6.822000	0.142272	0.300256
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6825	6.825000	0.141368	0.302506
6826	6.826000	0.141065	0.302869
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6828	6.828000	0.140460	0.302525
6829	6.829000	0.140158	0.301713
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6832	6.832000	0.139259	0.296709
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6835	6.835000	0.138380	0.289400
6836	6.836000	0.138092	0.287009
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6838	6.838000	0.137522	0.283075
6839	6.839000	0.137239	0.281747

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6844	6.844000	0.135833	0.282781
6845	6.845000	0.135549	0.284139
6846	6.846000	0.135265	0.285626
6847	6.847000	0.134978	0.287114
6848	6.848000	0.134690	0.288479
6849	6.849000	0.134401	0.289612
6850	6.850000	0.134111	0.290429
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6854	6.854000	0.132948	0.290138
6855	6.855000	0.132659	0.289361
6856	6.856000	0.132370	0.288455
6857	6.857000	0.132082	0.287516
6858	6.858000	0.131795	0.286634
6859	6.859000	0.131508	0.285894
6860	6.860000	0.131223	0.285361
6861	6.861000	0.130938	0.285077
6862	6.862000	0.130653	0.285054
6863	6.863000	0.130367	0.285278
6864	6.864000	0.130082	0.285711
6865	6.865000	0.129796	0.286301
6866	6.866000	0.129509	0.286983
6867	6.867000	0.129222	0.287684
6868	6.868000	0.128934	0.288331
6869	6.869000	0.128645	0.288854
6870	6.870000	0.128356	0.289193
6871	6.871000	0.128067	0.289300
6872	6.872000	0.127778	0.289144
6873	6.873000	0.127489	0.288712
6874	6.874000	0.127201	0.288006
6875	6.875000	0.126913	0.287039
6876	6.876000	0.126627	0.285836
6877	6.877000	0.126341	0.284429
6878	6.878000	0.126058	0.282858
6879	6.879000	0.125776	0.281166
6880	6.880000	0.125496	0.279399
6881	6.881000	0.125217	0.277602
6882	6.882000	0.124940	0.275820
6883	6.883000	0.124665	0.274094
6884	6.884000	0.124392	0.272463
6885	6.885000	0.124120	0.270962
6886	6.886000	0.123850	0.269622
6887	6.887000	0.123581	0.268471
6888	6.888000	0.123313	0.267529
6889	6.889000	0.123046	0.266814
6890	6.890000	0.122779	0.266336
6891	6.891000	0.122513	0.266099
6892	6.892000	0.122247	0.266099
6893	6.893000	0.121981	0.266329
6894	6.894000	0.121714	0.266772
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6897	6.897000	0.120911	0.269128
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6903	6.903000	0.119278	0.274843
6904	6.904000	0.119003	0.275312
6905	6.905000	0.118727	0.275492
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6907	6.907000	0.118177	0.274819
6908	6.908000	0.117902	0.273911
6909	6.909000	0.117629	0.272615
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6911	6.911000	0.117087	0.268951
6912	6.912000	0.116819	0.266694
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6915	6.915000	0.116030	0.259280
6916	6.916000	0.115772	0.256947
6917	6.917000	0.115516	0.254854
6918	6.918000	0.115263	0.253089
6919	6.919000	0.115010	0.251720
6920	6.920000	0.114759	0.250787
6921	6.921000	0.114508	0.250296
6922	6.922000	0.114258	0.250218
6923	6.923000	0.114008	0.250491
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7736	7.736000	0.007449	0.044558
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7738	7.738000	0.007361	0.044098
7739	7.739000	0.007317	0.043626
7740	7.740000	0.007274	0.042989
7741	7.741000	0.007231	0.042206
7742	7.742000	0.007189	0.041314
7743	7.743000	0.007148	0.040371
7744	7.744000	0.007108	0.039439
7745	7.745000	0.007069	0.038591
7746	7.746000	0.007031	0.037892
7747	7.747000	0.006994	0.037406
7748	7.748000	0.006956	0.037180
7749	7.749000	0.006919	0.037242
7750	7.750000	0.006882	0.037599
7751	7.751000	0.006844	0.038224
7752	7.752000	0.006805	0.039059
7753	7.753000	0.006766	0.040018
7754	7.754000	0.006725	0.040996
7755	7.755000	0.006684	0.041880
7756	7.756000	0.006641	0.042555
7757	7.757000	0.006599	0.042914
7758	7.758000	0.006556	0.042868
7759	7.759000	0.006513	0.042354
7760	7.760000	0.006471	0.041343
7761	7.761000	0.006431	0.039851
7762	7.762000	0.006392	0.037940
7763	7.763000	0.006355	0.035714
7764	7.764000	0.006320	0.033310
7765	7.765000	0.006288	0.030879
7766	7.766000	0.006259	0.028583
7767	7.767000	0.006231	0.026579
7768	7.768000	0.006205	0.025009
7769	7.769000	0.006181	0.023989
7770	7.770000	0.006157	0.023598
7771	7.771000	0.006133	0.023863
7772	7.772000	0.006109	0.024760
7773	7.773000	0.006083	0.026214
7774	7.774000	0.006056	0.028112
7775	7.775000	0.006027	0.030312
7776	7.776000	0.005996	0.032657
7777	7.777000	0.005962	0.034984
7778	7.778000	0.005926	0.037135
7779	7.779000	0.005888	0.038967
7780	7.780000	0.005848	0.040367
7781	7.781000	0.005807	0.041256
7782	7.782000	0.005766	0.041601
7783	7.783000	0.005724	0.041413

7784	7.784000	0.005683	0.040732
7785	7.785000	0.005643	0.039630
7786	7.786000	0.005604	0.038195
7787	7.787000	0.005567	0.036530
7788	7.788000	0.005531	0.034741
7789	7.789000	0.005497	0.032932
7790	7.790000	0.005465	0.031198
7791	7.791000	0.005435	0.029618
7792	7.792000	0.005406	0.028247
7793	7.793000	0.005378	0.027121
7794	7.794000	0.005351	0.026255
7795	7.795000	0.005326	0.025651
7796	7.796000	0.005300	0.025294
7797	7.797000	0.005275	0.025162
7798	7.798000	0.005250	0.025224
7799	7.799000	0.005224	0.025445
7800	7.800000	0.005199	0.025787
7801	7.801000	0.005173	0.026213
7802	7.802000	0.005146	0.026689
7803	7.803000	0.005119	0.027184
7804	7.804000	0.005092	0.027672
7805	7.805000	0.005064	0.028129
7806	7.806000	0.005036	0.028537
7807	7.807000	0.005007	0.028878
7808	7.808000	0.004978	0.029142
7809	7.809000	0.004949	0.029320
7810	7.810000	0.004919	0.029408
7811	7.811000	0.004890	0.029406
7812	7.812000	0.004861	0.029318
7813	7.813000	0.004831	0.029151
7814	7.814000	0.004802	0.028914
7815	7.815000	0.004774	0.028619
7816	7.816000	0.004745	0.028279
7817	7.817000	0.004717	0.027906
7818	7.818000	0.004689	0.027514
7819	7.819000	0.004662	0.027113
7820	7.820000	0.004635	0.026713
7821	7.821000	0.004609	0.026322
7822	7.822000	0.004582	0.025944
7823	7.823000	0.004557	0.025580
7824	7.824000	0.004531	0.025231
7825	7.825000	0.004506	0.024896
7826	7.826000	0.004481	0.024574
7827	7.827000	0.004457	0.024266
7828	7.828000	0.004433	0.023974
7829	7.829000	0.004409	0.023702
7830	7.830000	0.004385	0.023457
7831	7.831000	0.004362	0.023252
7832	7.832000	0.004339	0.023104
7833	7.833000	0.004316	0.023031
7834	7.834000	0.004293	0.023054
7835	7.835000	0.004270	0.023194
7836	7.836000	0.004246	0.023469
7837	7.837000	0.004223	0.023893
7838	7.838000	0.004198	0.024475
7839	7.839000	0.004174	0.025214
7840	7.840000	0.004148	0.026101
7841	7.841000	0.004121	0.027117
7842	7.842000	0.004094	0.028228

7843	7.843000	0.004065	0.029393
7844	7.844000	0.004035	0.030562
7845	7.845000	0.004004	0.031684
7846	7.846000	0.003972	0.032706
7847	7.847000	0.003938	0.033581
7848	7.848000	0.003905	0.034264
7849	7.849000	0.003870	0.034725
7850	7.850000	0.003835	0.034945
7851	7.851000	0.003800	0.034920
7852	7.852000	0.003765	0.034666
7853	7.853000	0.003731	0.034215
7854	7.854000	0.003697	0.033611
7855	7.855000	0.003664	0.032906
7856	7.856000	0.003631	0.032157
7857	7.857000	0.003600	0.031423
7858	7.858000	0.003568	0.030759
7859	7.859000	0.003538	0.030214
7860	7.860000	0.003508	0.029827
7861	7.861000	0.003478	0.029622
7862	7.862000	0.003449	0.029609
7863	7.863000	0.003419	0.029780
7864	7.864000	0.003389	0.030118
7865	7.865000	0.003359	0.030591
7866	7.866000	0.003328	0.031164
7867	7.867000	0.003296	0.031795
7868	7.868000	0.003264	0.032439
7869	7.869000	0.003231	0.033053
7870	7.870000	0.003198	0.033595
7871	7.871000	0.003164	0.034028
7872	7.872000	0.003130	0.034324
7873	7.873000	0.003096	0.034460
7874	7.874000	0.003061	0.034422
7875	7.875000	0.003027	0.034203
7876	7.876000	0.002993	0.033800
7877	7.877000	0.002959	0.033218
7878	7.878000	0.002927	0.032467
7879	7.879000	0.002895	0.031564
7880	7.880000	0.002864	0.030529
7881	7.881000	0.002834	0.029388
7882	7.882000	0.002805	0.028171
7883	7.883000	0.002777	0.026910
7884	7.884000	0.002751	0.025642
7885	7.885000	0.002726	0.024402
7886	7.886000	0.002702	0.023226
7887	7.887000	0.002679	0.022149
7888	7.888000	0.002658	0.021202
7889	7.889000	0.002637	0.020414
7890	7.890000	0.002617	0.019808
7891	7.891000	0.002597	0.019401
7892	7.892000	0.002578	0.019204
7893	7.893000	0.002559	0.019219
7894	7.894000	0.002539	0.019445
7895	7.895000	0.002520	0.019871
7896	7.896000	0.002500	0.020484
7897	7.897000	0.002479	0.021262
7898	7.898000	0.002457	0.022182
7899	7.899000	0.002434	0.023212
7900	7.900000	0.002411	0.024321
7901	7.901000	0.002386	0.025471

7902	7.902000	0.002360	0.026620
7903	7.903000	0.002332	0.027728
7904	7.904000	0.002304	0.028751
7905	7.905000	0.002275	0.029650
7906	7.906000	0.002245	0.030386
7907	7.907000	0.002214	0.030926
7908	7.908000	0.002183	0.031243
7909	7.909000	0.002152	0.031320
7910	7.910000	0.002121	0.031146
7911	7.911000	0.002090	0.030724
7912	7.912000	0.002059	0.030066
7913	7.913000	0.002030	0.029198
7914	7.914000	0.002001	0.028153
7915	7.915000	0.001973	0.026972
7916	7.916000	0.001947	0.025698
7917	7.917000	0.001922	0.024380
7918	7.918000	0.001898	0.023068
7919	7.919000	0.001876	0.021809
7920	7.920000	0.001855	0.020648
7921	7.921000	0.001835	0.019627
7922	7.922000	0.001815	0.018778
7923	7.923000	0.001797	0.018130
7924	7.924000	0.001779	0.017702
7925	7.925000	0.001761	0.017507
7926	7.926000	0.001744	0.017549
7927	7.927000	0.001726	0.017827
7928	7.928000	0.001708	0.018330
7929	7.929000	0.001689	0.019041
7930	7.930000	0.001670	0.019932
7931	7.931000	0.001649	0.020969
7932	7.932000	0.001628	0.022110
7933	7.933000	0.001605	0.023307
7934	7.934000	0.001581	0.024508
7935	7.935000	0.001556	0.025661
7936	7.936000	0.001530	0.026716
7937	7.937000	0.001503	0.027627
7938	7.938000	0.001475	0.028357
7939	7.939000	0.001446	0.028878
7940	7.940000	0.001417	0.029172
7941	7.941000	0.001388	0.029240
7942	7.942000	0.001359	0.029097
7943	7.943000	0.001330	0.028773
7944	7.944000	0.001301	0.028307
7945	7.945000	0.001273	0.027749
7946	7.946000	0.001246	0.027148
7947	7.947000	0.001219	0.026559
7948	7.948000	0.001193	0.026028
7949	7.949000	0.001167	0.025599
7950	7.950000	0.001142	0.025304
7951	7.951000	0.001116	0.025162
7952	7.952000	0.001091	0.025177
7953	7.953000	0.001066	0.025338
7954	7.954000	0.001040	0.025621
7955	7.955000	0.001015	0.025995
7956	7.956000	0.000988	0.026421
7957	7.957000	0.000962	0.026855
7958	7.958000	0.000935	0.027252
7959	7.959000	0.000907	0.027568
7960	7.960000	0.000880	0.027760

7961	7.961000	0.000852	0.027794
7962	7.962000	0.000824	0.027640
7963	7.963000	0.000797	0.027280
7964	7.964000	0.000770	0.026702
7965	7.965000	0.000743	0.025906
7966	7.966000	0.000718	0.024901
7967	7.967000	0.000694	0.023705
7968	7.968000	0.000671	0.022347
7969	7.969000	0.000649	0.020869
7970	7.970000	0.000629	0.019321
7971	7.971000	0.000610	0.017768
7972	7.972000	0.000593	0.016284
7973	7.973000	0.000578	0.014950
7974	7.974000	0.000563	0.013849
7975	7.975000	0.000550	0.013060
7976	7.976000	0.000537	0.012651
7977	7.977000	0.000524	0.012678
7978	7.978000	0.000511	0.013175
7979	7.979000	0.000498	0.014150
7980	7.980000	0.000483	0.015581
7981	7.981000	0.000466	0.017410
7982	7.982000	0.000448	0.019540
7983	7.983000	0.000427	0.021846
7984	7.984000	0.000404	0.024181
7985	7.985000	0.000379	0.026394
7986	7.986000	0.000352	0.028338
7987	7.987000	0.000322	0.029881
7988	7.988000	0.000292	0.030919
7989	7.989000	0.000261	0.031389
7990	7.990000	0.000230	0.031276
7991	7.991000	0.000199	0.030630
7992	7.992000	0.000169	0.029558
7993	7.993000	0.000140	0.028194
7994	7.994000	0.000112	0.026642
7995	7.995000	0.000086	0.024935
7996	7.996000	0.000062	0.022976
7997	7.997000	0.000041	0.020496
7998	7.998000	0.000022	0.016999
7999	7.999000	0.000008	0.011713
8000	8.000000	0.000000	0.003552