



Supporting Online Material for
**Early Pleistocene Glacial Cycles and the Integrated Summer Insolation
Forcing**
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Published 22 June 2006 on *Science Express*
DOI: 10.1126/science.1125249

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Supporting Online Material

Summer energy and thresholds

Fig. S1 shows summer energy at 65°N calculated using different thresholds, τ . For thresholds of less than 250 W/m² summer energy varies almost exclusively at the obliquity period. Higher thresholds give greater variability at precession periods as well as greater overall variability. The majority of the variability is at the obliquity period until τ is greater than 340 W/m², when precession and obliquity period variance are equal. A cooling Pleistocene climate may be expected to require an increased τ , thus possibly explaining the appearance of precession period variability as well as larger amplitude glacial variations during the late Pleistocene.

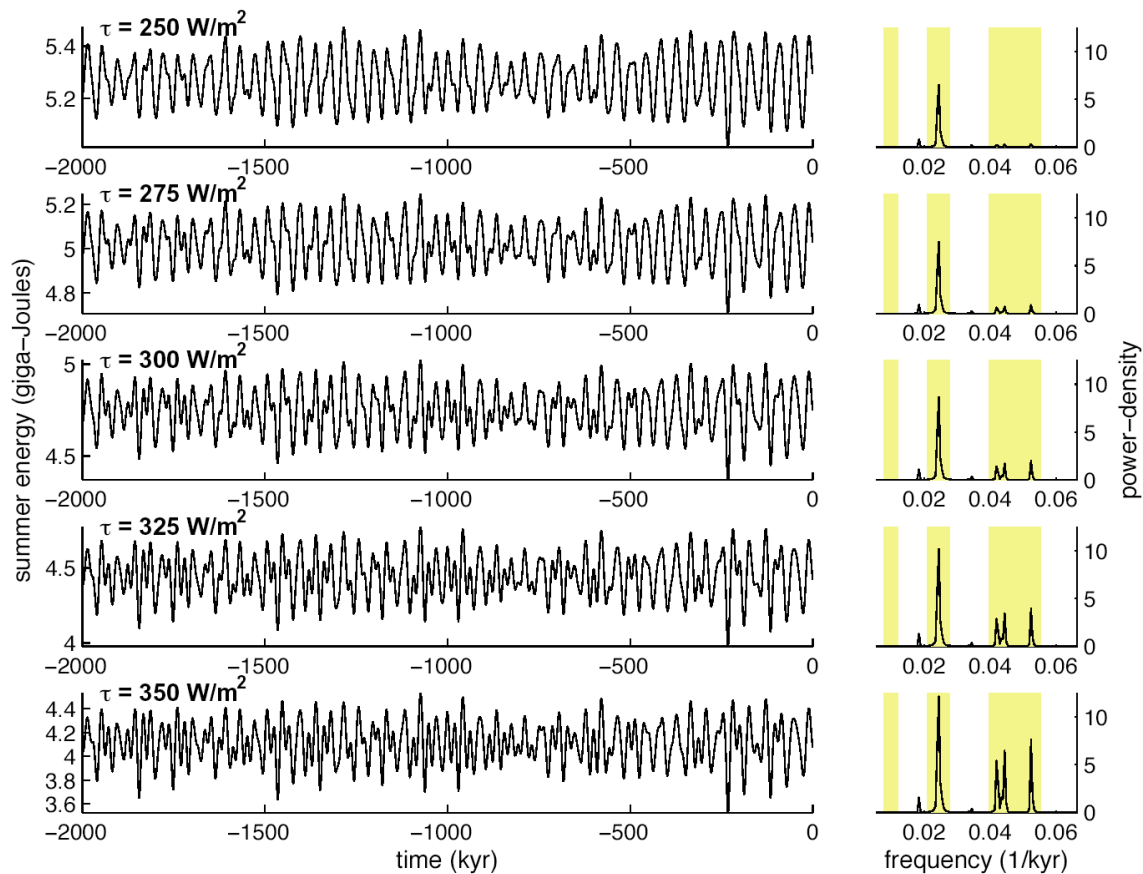


Fig. S1: Summer energy at 65°N computed using increasingly higher thresholds (from top to bottom). Sub-panels at left show the time-series of summer energy and sub-panels at right show the associated power-density with the 100 kyr, 41 kyr (obliquity), and 21 kyr (precession) bands shaded. The threshold value, τ , is indicated in the upper left corner of each set of panels. Note that the y-axis for summer energy varies, while the y-axis for the power-density plots is fixed.

Age-model and $\delta^{18}\text{O}$ proxy record of ice-volume

A Pleistocene age-model is estimated by extending the depth-derived age-model of (S1) from 0.8 myr to 2.4 myr ago. Geomagnetic age-control comes from the Brunhes-Matuyama transition (0.78 myr), the Olduvai (1.95-1.77 myr) and Jaramillo (10.7-9.9 myr) subchrons, and the Matuyama-Gauss transition (2.58 myr). These geomagnetic ages are derived from a combination of radiometric dating techniques, sea-floor spreading rates, and for ages older than the Brunhes-Matuyama, astronomically derived age-estimates (S2,S3). Thus, geomagnetic ages older than the Brunhes-Matuyama magnetic reversal (0.78 myr) do contain limited orbital assumptions, but constitute only five ages in the course of 2 myr of which orbital assumptions are but one constraint. Geomagnetic events are assumed to occur in the same isotopic stages identified by (S4) for core DSDP607.

Further age-control is provided by identifying $\delta^{18}\text{O}$ events in multiple marine sediment cores, assumed to be synchronous within the mixing time of the ocean. References for each $\delta^{18}\text{O}$ record are given in (S1) except for tt013-pc18 and tt013-pc72 from (S5). A total of 104 $\delta^{18}\text{O}$ events are identified between the present and the Matuyama-Gauss transition following the isotopic stage notation of (S6) in twelve benthic and five planktic $\delta^{18}\text{O}$ records (Figs. S2 and S3). After applying a correction for sediment compaction (S1), times are assigned to each event by interpolating age with depth between geomagnetic reversals. Uncertainties in ages are reduced by averaging estimates derived from the 24 separate sediment cores, and then re-interpolating age with depth in each sediment core using the averaged event times.

Individual $\delta^{18}\text{O}$ records are averaged to make a more stable estimate of changes in ice-volume. Prior to averaging, the mean $\delta^{18}\text{O}$ value between 0.7 myr ago and the present is removed. The average of only the benthic records is used as a proxy for ice-volume because $\delta^{18}\text{O}$ values are also sensitive to temperature variations and deep ocean temperatures are expected to be more homogeneous and less variable than surface temperatures. The average benthic $\delta^{18}\text{O}$ record is shown in Figs. 2c, 2e, and S2 and tabulated in Table S1. Note this ice-volume proxy record was developed prior to and independent of any comparison with the summer energy.

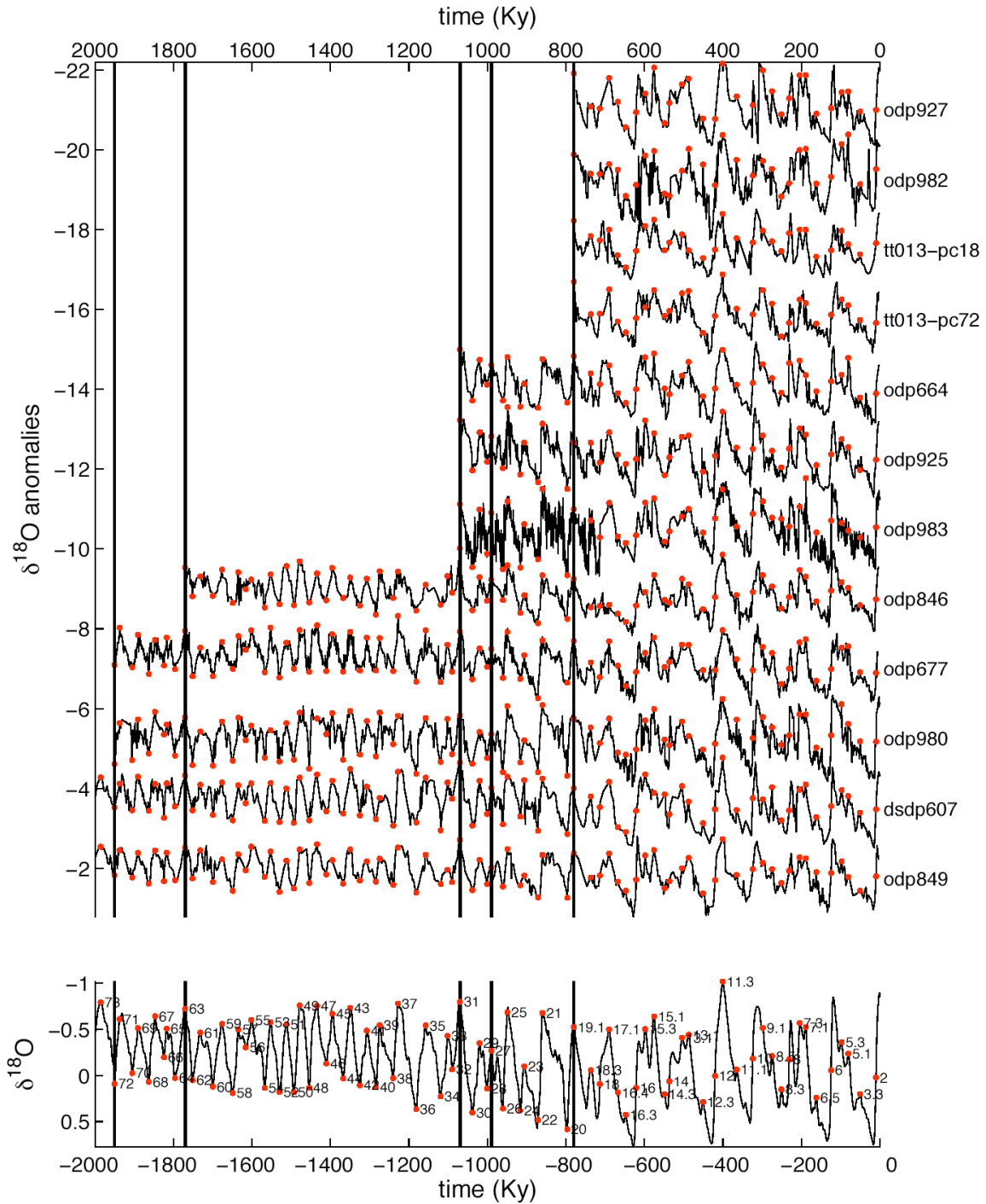


Fig S2: Benthic $\delta^{18}\text{O}$ records. **(top)** $\delta^{18}\text{O}$ pinned to the depth-derived age-model. Shown are anomalies with respect to 0.7-0Ma BP offset from one another by 1.75 per-mill. Bars indicate geomagnetic events used for age-control (not showing the Gauss-Matuyama reversal at 2.58Ma BP). Red dots indicate events pinned to the depth-derived age-model. **(bottom)** Averaged benthic stack with age control points labeled according to the isotopic stage notation of (*S6*).

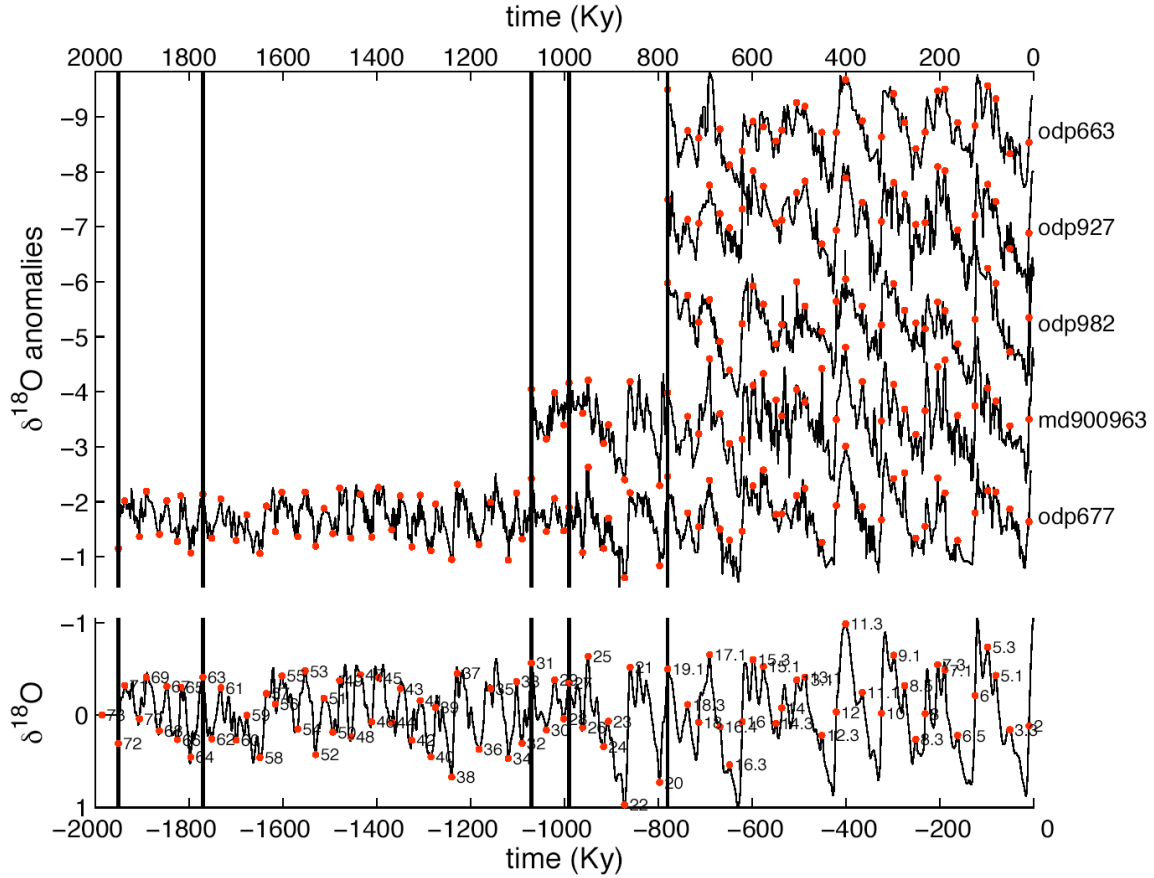


Fig. S3: Same as Fig. S2 but for the planktic records.

Table S1: Data presented in the paper. The first column is time in kyr, columns two through six are summer energies at 65°N in giga-Joules computed using various threshold levels (τ) as indicated, and the final column is average benthic $\delta^{18}\text{O}$ values in units of per mill anomalies. The table is seventeen pages long and nothing follows but the references.

kyr	$\tau=250$	$\tau=275$	$\tau=300$	$\tau=325$	$\tau=350$	$\delta^{18}\text{O}$	kyr	$\tau=250$	$\tau=275$	$\tau=300$	$\tau=325$	$\tau=350$	$\delta^{18}\text{O}$
-2000	5.205	4.964	4.676	4.379	4.030	-0.1710	-1985	5.407	5.166	4.913	4.627	4.320	-0.5357
-1999	5.212	4.968	4.681	4.383	4.033	-0.2031	-1984	5.405	5.161	4.903	4.619	4.304	-0.5295
-1998	5.223	4.976	4.689	4.388	4.038	-0.2409	-1983	5.400	5.154	4.887	4.606	4.280	-0.5185
-1997	5.237	4.988	4.700	4.397	4.046	-0.2818	-1982	5.392	5.144	4.869	4.587	4.253	-0.5029
-1996	5.255	5.003	4.717	4.410	4.060	-0.3243	-1981	5.379	5.129	4.852	4.564	4.225	-0.4843
-1995	5.274	5.021	4.738	4.429	4.082	-0.3674	-1980	5.364	5.111	4.836	4.539	4.197	-0.4620
-1994	5.294	5.042	4.763	4.456	4.113	-0.4050	-1979	5.346	5.091	4.820	4.515	4.172	-0.4354
-1993	5.316	5.065	4.789	4.489	4.151	-0.4357	-1978	5.328	5.073	4.804	4.495	4.152	-0.4069
-1992	5.338	5.089	4.815	4.521	4.192	-0.4604	-1977	5.312	5.056	4.788	4.479	4.136	-0.3806
-1991	5.358	5.111	4.839	4.552	4.231	-0.4793	-1976	5.298	5.043	4.772	4.465	4.124	-0.3565
-1990	5.374	5.129	4.862	4.578	4.266	-0.4950	-1975	5.286	5.033	4.757	4.453	4.119	-0.3364
-1989	5.387	5.143	4.882	4.599	4.294	-0.5093	-1974	5.275	5.023	4.744	4.445	4.117	-0.3241
-1988	5.396	5.153	4.900	4.614	4.315	-0.5233	-1973	5.262	5.012	4.732	4.442	4.118	-0.3179
-1987	5.402	5.161	4.912	4.624	4.326	-0.5331	-1972	5.249	5.001	4.723	4.441	4.121	-0.3146
-1986	5.406	5.166	4.916	4.628	4.328	-0.5371	-1971	5.236	4.987	4.714	4.439	4.124	-0.3105

-1970	5.222	4.971	4.706	4.433	4.121	-0.2972	-1908	5.319	5.084	4.824	4.546	4.242	0.0496
-1969	5.208	4.955	4.696	4.419	4.109	-0.2716	-1907	5.331	5.097	4.840	4.563	4.263	0.1116
-1968	5.193	4.939	4.683	4.397	4.088	-0.2373	-1906	5.341	5.106	4.851	4.573	4.274	0.1527
-1967	5.176	4.924	4.664	4.371	4.055	-0.1976	-1905	5.347	5.110	4.856	4.576	4.276	0.1640
-1966	5.160	4.909	4.641	4.342	4.013	-0.1591	-1904	5.351	5.109	4.858	4.575	4.272	0.1551
-1965	5.146	4.893	4.613	4.311	3.967	-0.1380	-1903	5.350	5.105	4.855	4.570	4.263	0.1260
-1964	5.135	4.876	4.586	4.279	3.919	-0.1341	-1902	5.346	5.101	4.848	4.562	4.251	0.0845
-1963	5.127	4.861	4.563	4.248	3.874	-0.1433	-1901	5.338	5.097	4.839	4.554	4.238	0.0485
-1962	5.123	4.849	4.548	4.218	3.835	-0.1507	-1900	5.329	5.092	4.829	4.542	4.223	0.0069
-1961	5.122	4.844	4.542	4.196	3.807	-0.1505	-1899	5.322	5.085	4.818	4.528	4.206	-0.0442
-1960	5.127	4.846	4.545	4.187	3.793	-0.1331	-1898	5.315	5.073	4.807	4.512	4.187	-0.0934
-1959	5.139	4.856	4.558	4.194	3.798	-0.0949	-1897	5.308	5.060	4.797	4.497	4.165	-0.1361
-1958	5.156	4.873	4.579	4.219	3.828	-0.0399	-1896	5.235	5.003	4.751	4.466	4.172	-0.1546
-1957	5.176	4.897	4.608	4.260	3.879	0.0162	-1895	5.247	5.016	4.767	4.492	4.196	-0.1323
-1956	5.199	4.928	4.645	4.311	3.945	0.0613	-1894	5.257	5.026	4.778	4.512	4.215	-0.1042
-1955	5.225	4.965	4.685	4.368	4.018	0.0955	-1893	5.267	5.033	4.786	4.524	4.226	-0.0800
-1954	5.254	5.004	4.729	4.429	4.096	0.1166	-1892	5.274	5.038	4.791	4.524	4.226	-0.0651
-1953	5.284	5.044	4.774	4.488	4.173	0.1315	-1891	5.278	5.042	4.790	4.513	4.212	-0.0497
-1952	5.313	5.081	4.818	4.543	4.245	0.1411	-1890	5.280	5.042	4.784	4.494	4.187	-0.0339
-1951	5.339	5.114	4.860	4.593	4.306	0.1355	-1889	5.280	5.040	4.773	4.471	4.153	-0.0124
-1950	5.362	5.140	4.898	4.633	4.352	0.2216	-1888	5.281	5.033	4.758	4.444	4.115	0.0110
-1949	5.382	5.160	4.926	4.663	4.381	0.1771	-1887	5.284	5.025	4.742	4.417	4.074	0.0380
-1948	5.395	5.170	4.943	4.680	4.396	0.1193	-1886	5.287	5.018	4.728	4.393	4.035	0.0677
-1947	5.402	5.173	4.947	4.683	4.395	0.0352	-1885	5.291	5.017	4.718	4.375	4.003	0.1007
-1946	5.401	5.168	4.937	4.671	4.379	-0.0396	-1884	5.297	5.021	4.714	4.368	3.987	0.1355
-1945	5.394	5.158	4.915	4.645	4.347	-0.0969	-1883	5.302	5.030	4.717	4.376	3.991	0.1711
-1944	5.383	5.142	4.887	4.612	4.302	-0.1407	-1882	5.309	5.042	4.728	4.396	4.015	0.2186
-1943	5.372	5.123	4.857	4.572	4.248	-0.1765	-1881	5.317	5.055	4.746	4.425	4.055	0.2474
-1942	5.360	5.102	4.829	4.528	4.191	-0.2119	-1880	5.326	5.068	4.771	4.460	4.103	0.2487
-1941	5.347	5.082	4.801	4.485	4.132	-0.2523	-1879	5.334	5.084	4.800	4.500	4.157	0.2149
-1940	5.335	5.066	4.774	4.445	4.079	-0.3060	-1878	5.342	5.101	4.830	4.542	4.212	0.1685
-1939	5.322	5.055	4.751	4.413	4.038	-0.3682	-1877	5.351	5.119	4.859	4.586	4.264	0.0834
-1938	5.309	5.045	4.734	4.395	4.014	-0.4124	-1876	5.359	5.134	4.886	4.627	4.312	-0.0147
-1937	5.298	5.037	4.724	4.389	4.009	-0.4300	-1875	5.368	5.145	4.909	4.658	4.351	-0.0959
-1936	5.287	5.030	4.722	4.396	4.020	-0.4361	-1874	5.374	5.150	4.925	4.676	4.380	-0.1599
-1935	5.279	5.025	4.729	4.412	4.046	-0.4458	-1873	5.374	5.149	4.929	4.680	4.395	-0.2115
-1934	5.273	5.024	4.741	4.434	4.081	-0.4504	-1872	5.364	5.141	4.919	4.670	4.395	-0.2343
-1933	5.271	5.027	4.757	4.458	4.122	-0.4642	-1871	5.346	5.126	4.897	4.646	4.376	-0.2360
-1932	5.271	5.031	4.771	4.480	4.164	-0.4842	-1870	5.320	5.101	4.864	4.607	4.336	-0.2424
-1931	5.270	5.037	4.783	4.499	4.201	-0.5005	-1869	5.291	5.068	4.822	4.554	4.275	-0.2611
-1930	5.269	5.041	4.793	4.514	4.227	-0.4958	-1868	5.260	5.027	4.771	4.488	4.196	-0.2922
-1929	5.265	5.041	4.797	4.524	4.243	-0.4697	-1867	5.230	4.984	4.714	4.413	4.103	-0.3375
-1928	5.259	5.036	4.794	4.527	4.244	-0.4344	-1866	5.202	4.942	4.656	4.334	4.001	-0.3914
-1927	5.250	5.025	4.781	4.521	4.230	-0.4042	-1865	5.178	4.904	4.600	4.257	3.897	-0.4296
-1926	5.240	5.010	4.760	4.501	4.200	-0.3758	-1864	5.157	4.872	4.552	4.189	3.799	-0.4406
-1925	5.227	4.992	4.735	4.470	4.159	-0.3469	-1863	5.141	4.847	4.514	4.137	3.716	-0.4373
-1924	5.213	4.972	4.707	4.430	4.108	-0.3194	-1862	5.131	4.832	4.490	4.107	3.663	-0.4153
-1923	5.198	4.952	4.678	4.387	4.051	-0.2891	-1861	5.126	4.826	4.484	4.099	3.650	-0.3686
-1922	5.186	4.934	4.652	4.345	3.994	-0.2522	-1860	5.127	4.829	4.496	4.114	3.678	-0.3332
-1921	5.178	4.920	4.630	4.308	3.943	-0.2217	-1859	5.134	4.842	4.523	4.151	3.740	-0.3120
-1920	5.175	4.912	4.614	4.281	3.904	-0.2007	-1858	5.146	4.862	4.562	4.207	3.826	-0.2975
-1919	5.177	4.909	4.603	4.263	3.879	-0.1877	-1857	5.162	4.890	4.607	4.274	3.921	-0.2954
-1918	5.183	4.912	4.600	4.256	3.871	-0.1776	-1856	5.185	4.924	4.656	4.344	4.016	-0.3026
-1917	5.190	4.919	4.605	4.261	3.879	-0.1627	-1855	5.212	4.962	4.704	4.413	4.106	-0.3030
-1916	5.201	4.930	4.621	4.277	3.902	-0.1347	-1854	5.239	5.001	4.748	4.475	4.188	-0.2898
-1915	5.213	4.945	4.644	4.305	3.936	-0.0938	-1853	5.266	5.035	4.787	4.531	4.257	-0.2688
-1914	5.225	4.962	4.670	4.340	3.979	-0.0507	-1852	5.287	5.064	4.819	4.576	4.309	-0.2438
-1913	5.237	4.982	4.698	4.380	4.027	-0.0203	-1851	5.304	5.084	4.844	4.606	4.343	-0.2180
-1912	5.252	5.004	4.724	4.420	4.077	-0.0100	-1850	5.316	5.096	4.860	4.617	4.355	-0.1978
-1911	5.268	5.026	4.750	4.458	4.126	-0.0118	-1849	5.323	5.100	4.865	4.612	4.348	-0.1883
-1910	5.285	5.048	4.778	4.493	4.172	-0.0157	-1848	5.324	5.096	4.858	4.594	4.322	-0.1878
-1909	5.303	5.068	4.803	4.522	4.211	0.0015	-1847	5.322	5.086	4.839	4.567	4.281	-0.1801

-1829	5.318	5.074	4.815	4.533	4.226	-0.1643	-1767	5.292	5.045	4.791	4.497	4.170	-0.4559
-1828	5.314	5.060	4.790	4.493	4.164	-0.1308	-1766	5.291	5.049	4.806	4.520	4.205	-0.4130
-1827	5.310	5.047	4.766	4.451	4.101	-0.0704	-1765	5.291	5.052	4.820	4.541	4.237	-0.3813
-1826	5.308	5.037	4.746	4.413	4.045	-0.0126	-1764	5.292	5.054	4.829	4.555	4.260	-0.3631
-1825	5.308	5.032	4.732	4.384	4.003	0.0157	-1763	5.289	5.054	4.830	4.560	4.270	-0.3558
-1824	5.310	5.033	4.725	4.370	3.980	0.0160	-1762	5.280	5.051	4.821	4.555	4.267	-0.3504
-1823	5.314	5.040	4.727	4.373	3.979	-0.0162	-1761	5.267	5.042	4.803	4.538	4.252	-0.3320
-1822	5.322	5.053	4.737	4.391	4.000	-0.0862	-1760	5.249	5.027	4.776	4.509	4.226	-0.2971
-1821	5.332	5.070	4.755	4.421	4.042	-0.1622	-1759	5.230	5.004	4.743	4.467	4.185	-0.2407
-1820	5.342	5.088	4.780	4.461	4.099	-0.2321	-1758	5.212	4.975	4.706	4.417	4.126	-0.1730
-1819	5.351	5.107	4.810	4.507	4.163	-0.2981	-1757	5.194	4.942	4.665	4.362	4.052	-0.1038
-1818	5.359	5.126	4.841	4.553	4.227	-0.3293	-1756	5.177	4.911	4.624	4.304	3.971	-0.0440
-1817	5.367	5.142	4.872	4.596	4.284	-0.3354	-1755	5.163	4.886	4.586	4.248	3.891	0.0208
-1816	5.376	5.154	4.898	4.631	4.330	-0.3200	-1754	5.153	4.869	4.556	4.198	3.819	0.0918
-1815	5.383	5.162	4.916	4.656	4.363	-0.2889	-1753	5.148	4.859	4.535	4.161	3.762	0.1502
-1814	5.387	5.163	4.926	4.669	4.381	-0.2486	-1752	5.146	4.855	4.526	4.142	3.727	0.1828
-1813	5.385	5.159	4.923	4.672	4.385	-0.2317	-1751	5.148	4.858	4.529	4.144	3.721	0.1951
-1812	5.375	5.148	4.910	4.662	4.374	-0.2282	-1750	5.155	4.869	4.543	4.168	3.749	0.1848
-1811	5.358	5.128	4.888	4.640	4.349	-0.2358	-1749	5.170	4.889	4.570	4.213	3.809	0.1518
-1810	5.335	5.103	4.859	4.605	4.308	-0.2414	-1748	5.191	4.916	4.607	4.275	3.895	0.1148
-1809	5.309	5.073	4.821	4.557	4.255	-0.2415	-1747	5.218	4.950	4.655	4.346	3.994	0.0869
-1808	5.281	5.041	4.778	4.501	4.190	-0.2453	-1746	5.247	4.987	4.711	4.417	4.094	0.0570
-1807	5.252	5.007	4.732	4.441	4.119	-0.2438	-1745	5.276	5.027	4.767	4.484	4.188	0.0251
-1806	5.225	4.971	4.687	4.383	4.047	-0.2332	-1744	5.302	5.066	4.819	4.543	4.268	-0.0061
-1805	5.201	4.935	4.646	4.329	3.977	-0.2157	-1743	5.324	5.101	4.862	4.594	4.331	-0.0323
-1804	5.180	4.903	4.611	4.281	3.914	-0.1858	-1742	5.342	5.128	4.894	4.635	4.375	-0.0506
-1803	5.163	4.880	4.583	4.242	3.862	-0.1322	-1741	5.355	5.144	4.914	4.662	4.401	-0.0631
-1802	5.150	4.865	4.562	4.215	3.828	-0.0731	-1740	5.363	5.150	4.921	4.674	4.410	-0.0829
-1801	5.139	4.860	4.550	4.201	3.812	-0.0138	-1739	5.366	5.147	4.915	4.669	4.403	-0.1146
-1800	5.131	4.859	4.547	4.201	3.812	0.0500	-1738	5.363	5.136	4.898	4.648	4.378	-0.1540
-1799	5.127	4.860	4.551	4.212	3.824	0.1084	-1737	5.355	5.121	4.873	4.615	4.335	-0.1956
-1798	5.125	4.862	4.560	4.230	3.846	0.1633	-1736	5.345	5.102	4.844	4.573	4.276	-0.2361
-1797	5.127	4.867	4.573	4.251	3.874	0.1914	-1735	5.333	5.081	4.811	4.524	4.203	-0.2721
-1796	5.135	4.876	4.591	4.274	3.908	0.1983	-1734	5.322	5.060	4.775	4.472	4.127	-0.3027
-1795	5.147	4.889	4.613	4.299	3.944	0.1934	-1733	5.313	5.039	4.740	4.422	4.054	-0.3180
-1794	5.162	4.905	4.638	4.328	3.981	0.1816	-1732	5.304	5.021	4.710	4.377	3.992	-0.3200
-1793	5.179	4.924	4.665	4.358	4.016	0.1559	-1731	5.297	5.006	4.689	4.343	3.947	-0.3108
-1792	5.197	4.945	4.691	4.387	4.049	0.1440	-1730	5.289	4.998	4.677	4.323	3.924	-0.2921
-1791	5.215	4.968	4.713	4.413	4.082	0.1388	-1729	5.282	4.995	4.676	4.320	3.925	-0.2623
-1790	5.234	4.992	4.734	4.437	4.115	0.1257	-1728	5.275	4.996	4.684	4.335	3.949	-0.2323
-1789	5.254	5.015	4.754	4.462	4.149	0.1064	-1727	5.271	4.999	4.702	4.364	3.993	-0.2054
-1788	5.272	5.037	4.775	4.490	4.180	0.0833	-1726	5.271	5.008	4.726	4.401	4.049	-0.1869
-1787	5.289	5.055	4.795	4.517	4.208	0.0557	-1725	5.274	5.023	4.752	4.441	4.112	-0.1731
-1786	5.305	5.073	4.813	4.540	4.233	0.0236	-1724	5.279	5.042	4.777	4.479	4.171	-0.1638
-1785	5.322	5.089	4.829	4.558	4.252	-0.0121	-1723	5.284	5.058	4.798	4.514	4.220	-0.1544
-1784	5.338	5.105	4.844	4.573	4.267	-0.0507	-1722	5.288	5.069	4.816	4.541	4.258	-0.1467
-1783	5.352	5.117	4.857	4.582	4.276	-0.0966	-1721	5.291	5.073	4.826	4.559	4.281	-0.1382
-1782	5.364	5.124	4.865	4.586	4.280	-0.1451	-1720	5.292	5.072	4.828	4.566	4.290	-0.1377
-1781	5.370	5.127	4.868	4.584	4.278	-0.1842	-1719	5.287	5.065	4.820	4.559	4.283	-0.1465
-1780	5.371	5.128	4.864	4.577	4.268	-0.2140	-1718	5.276	5.052	4.802	4.539	4.260	-0.1679
-1779	5.371	5.126	4.856	4.565	4.250	-0.2533	-1717	5.258	5.029	4.776	4.508	4.220	-0.1880
-1778	5.370	5.123	4.847	4.548	4.224	-0.3002	-1716	5.236	5.000	4.744	4.468	4.167	-0.2020
-1777	5.367	5.117	4.837	4.527	4.194	-0.3450	-1715	5.213	4.969	4.709	4.423	4.106	-0.2042
-1776	5.362	5.107	4.825	4.505	4.161	-0.3928	-1714	5.195	4.943	4.671	4.376	4.041	-0.1969
-1775	5.353	5.095	4.811	4.485	4.128	-0.4425	-1713	5.182	4.923	4.635	4.329	3.977	-0.1809
-1774	5.342	5.082	4.794	4.468	4.097	-0.4809	-1712	5.174	4.908	4.609	4.288	3.920	-0.1660
-1773	5.330	5.070	4.779	4.453	4.074	-0.5065	-1711	5.172	4.897	4.594	4.257	3.878	-0.1502
-1772	5.318	5.059	4.768	4.442	4.061	-0.5322	-1710	5.173	4.893	4.593	4.240	3.855	-0.1317
-1771	5.309	5.050	4.763	4.437	4.063	-0.5474	-1709	5.180	4.897	4.601	4.241	3.851	-0.1156
-1770	5.302	5.044	4.763	4.442	4.079	-0.5505	-1708	5.192	4.911	4.615	4.260	3.869	-0.1024
-1769	5.297	5.042	4.768	4.456	4.105	-0.5327	-1707	5.209	4.933	4.636	4.294	3.908	-0.0823
-1768	5.294	5.042	4.778	4.475	4.136	-0.5036	-1706	5.229	4.958	4.665	4.338	3.964	-0.0515

-1705	5.248	4.985	4.699	4.388	4.029	-0.0111	-1643	5.298	5.063	4.808	4.522	4.224	0.1537
-1704	5.268	5.013	4.736	4.438	4.095	0.0380	-1642	5.275	5.034	4.767	4.473	4.167	0.1184
-1703	5.288	5.043	4.773	4.485	4.156	0.1066	-1641	5.249	5.000	4.722	4.417	4.099	0.0677
-1702	5.309	5.073	4.808	4.528	4.210	0.1783	-1640	5.222	4.965	4.677	4.360	4.026	0.0048
-1701	5.329	5.099	4.838	4.564	4.254	0.2385	-1639	5.197	4.931	4.636	4.306	3.953	-0.0678
-1700	5.346	5.118	4.862	4.592	4.288	0.2667	-1638	5.177	4.903	4.603	4.259	3.889	-0.1506
-1699	5.357	5.129	4.877	4.611	4.311	0.2730	-1637	5.161	4.881	4.577	4.225	3.841	-0.2483
-1698	5.364	5.134	4.884	4.620	4.320	0.2431	-1636	5.150	4.865	4.558	4.205	3.816	-0.3102
-1697	5.367	5.135	4.883	4.619	4.316	0.1881	-1635	5.142	4.856	4.548	4.198	3.813	-0.3221
-1696	5.367	5.132	4.877	4.609	4.300	0.1293	-1634	5.138	4.853	4.550	4.206	3.831	-0.3186
-1695	5.362	5.125	4.866	4.592	4.277	0.0812	-1633	5.138	4.857	4.563	4.228	3.864	-0.2944
-1694	5.355	5.116	4.850	4.570	4.254	0.0416	-1632	5.141	4.868	4.586	4.260	3.910	-0.2635
-1693	5.346	5.105	4.832	4.546	4.231	0.0164	-1631	5.149	4.886	4.613	4.300	3.962	-0.2367
-1692	5.336	5.091	4.815	4.524	4.207	-0.0053	-1630	5.160	4.908	4.640	4.340	4.016	-0.2247
-1691	5.326	5.077	4.799	4.501	4.180	-0.0308	-1629	5.173	4.930	4.664	4.377	4.064	-0.2138
-1690	5.315	5.062	4.785	4.480	4.152	-0.0558	-1628	5.187	4.951	4.685	4.409	4.104	-0.2170
-1689	5.302	5.049	4.771	4.462	4.128	-0.0834	-1627	5.202	4.969	4.706	4.435	4.132	-0.2063
-1688	5.289	5.035	4.758	4.447	4.112	-0.1108	-1626	5.215	4.983	4.724	4.451	4.151	-0.2055
-1687	5.276	5.022	4.746	4.435	4.102	-0.1340	-1625	5.225	4.992	4.736	4.460	4.158	-0.2198
-1686	5.265	5.009	4.735	4.424	4.097	-0.1525	-1624	5.233	4.998	4.740	4.459	4.152	-0.2287
-1685	5.253	4.997	4.726	4.412	4.093	-0.1687	-1623	5.240	5.001	4.737	4.451	4.135	-0.2251
-1684	5.240	4.987	4.715	4.399	4.088	-0.1868	-1622	5.249	5.001	4.732	4.441	4.112	-0.2203
-1683	5.226	4.979	4.702	4.388	4.078	-0.2137	-1621	5.259	5.003	4.730	4.431	4.088	-0.2096
-1682	5.213	4.970	4.689	4.378	4.063	-0.2398	-1620	5.270	5.009	4.732	4.425	4.069	-0.1971
-1681	5.203	4.958	4.675	4.368	4.044	-0.2727	-1619	5.282	5.019	4.739	4.421	4.058	-0.1809
-1680	5.196	4.945	4.660	4.356	4.024	-0.3151	-1618	5.298	5.033	4.751	4.425	4.061	-0.1520
-1679	5.191	4.932	4.645	4.342	4.004	-0.3526	-1617	5.316	5.051	4.766	4.437	4.077	-0.1293
-1678	5.185	4.922	4.630	4.328	3.986	-0.3728	-1616	5.336	5.069	4.786	4.460	4.106	-0.1191
-1677	5.178	4.915	4.618	4.317	3.971	-0.3791	-1615	5.355	5.090	4.810	4.493	4.147	-0.1115
-1676	5.172	4.911	4.613	4.310	3.961	-0.3751	-1614	5.372	5.113	4.836	4.532	4.194	-0.1146
-1675	5.168	4.911	4.614	4.309	3.959	-0.3536	-1613	5.387	5.138	4.864	4.572	4.245	-0.1393
-1674	5.170	4.916	4.621	4.315	3.965	-0.3265	-1612	5.401	5.162	4.892	4.610	4.295	-0.1668
-1673	5.178	4.926	4.634	4.328	3.979	-0.2989	-1611	5.414	5.183	4.919	4.642	4.339	-0.1952
-1672	5.191	4.941	4.650	4.348	4.003	-0.2756	-1610	5.425	5.200	4.943	4.666	4.373	-0.2243
-1671	5.205	4.959	4.669	4.373	4.034	-0.2526	-1609	5.432	5.211	4.959	4.682	4.396	-0.2468
-1670	5.220	4.980	4.692	4.402	4.071	-0.2275	-1608	5.436	5.214	4.965	4.689	4.406	-0.2635
-1669	5.236	5.000	4.717	4.431	4.110	-0.1905	-1607	5.433	5.209	4.958	4.685	4.402	-0.2802
-1668	5.253	5.019	4.741	4.458	4.147	-0.1400	-1606	5.422	5.193	4.941	4.669	4.383	-0.3015
-1667	5.271	5.036	4.763	4.482	4.180	-0.0850	-1605	5.402	5.168	4.916	4.641	4.351	-0.3330
-1666	5.287	5.050	4.779	4.502	4.204	-0.0295	-1604	5.375	5.137	4.885	4.604	4.306	-0.3720
-1665	5.299	5.061	4.790	4.516	4.218	0.0276	-1603	5.343	5.102	4.846	4.559	4.250	-0.4082
-1664	5.307	5.070	4.797	4.524	4.221	0.0797	-1602	5.310	5.066	4.803	4.509	4.185	-0.4327
-1663	5.312	5.076	4.803	4.524	4.213	0.1125	-1601	5.278	5.032	4.756	4.456	4.116	-0.4413
-1662	5.316	5.079	4.805	4.519	4.197	0.1330	-1600	5.250	5.000	4.712	4.404	4.049	-0.4317
-1661	5.320	5.080	4.803	4.509	4.175	0.1497	-1599	5.227	4.969	4.675	4.357	3.991	-0.4065
-1660	5.323	5.078	4.797	4.497	4.152	0.1570	-1598	5.206	4.942	4.646	4.317	3.947	-0.3745
-1659	5.324	5.074	4.789	4.485	4.132	0.1572	-1597	5.187	4.919	4.625	4.287	3.919	-0.3426
-1658	5.325	5.071	4.781	4.474	4.118	0.1636	-1596	5.170	4.900	4.610	4.269	3.905	-0.3105
-1657	5.329	5.070	4.780	4.469	4.112	0.1750	-1595	5.156	4.887	4.602	4.265	3.906	-0.2836
-1656	5.336	5.073	4.784	4.472	4.114	0.1914	-1594	5.146	4.882	4.600	4.273	3.919	-0.2624
-1655	5.345	5.080	4.794	4.482	4.123	0.2150	-1593	5.142	4.883	4.606	4.290	3.941	-0.2434
-1654	5.353	5.088	4.807	4.500	4.143	0.2466	-1592	5.145	4.889	4.616	4.311	3.969	-0.2167
-1653	5.357	5.098	4.821	4.522	4.172	0.2787	-1591	5.153	4.898	4.628	4.334	4.001	-0.1815
-1652	5.358	5.109	4.837	4.546	4.208	0.3139	-1590	5.164	4.909	4.641	4.357	4.032	-0.1454
-1651	5.358	5.120	4.853	4.568	4.245	0.3487	-1589	5.174	4.920	4.653	4.377	4.056	-0.1219
-1650	5.360	5.129	4.867	4.587	4.280	0.3644	-1588	5.184	4.929	4.665	4.389	4.073	-0.1039
-1649	5.363	5.136	4.879	4.601	4.308	0.3675	-1587	5.192	4.937	4.676	4.391	4.079	-0.1075
-1648	5.364	5.138	4.886	4.609	4.326	0.3532	-1586	5.198	4.944	4.681	4.385	4.075	-0.1290
-1647	5.361	5.134	4.886	4.612	4.332	0.3218	-1585	5.202	4.948	4.681	4.375	4.062	-0.1529
-1646	5.351	5.124	4.879	4.607	4.325	0.2783	-1584	5.203	4.951	4.676	4.364	4.042	-0.1588
-1645	5.336	5.109	4.865	4.590	4.303	0.2387	-1583	5.206	4.951	4.669	4.356	4.018	-0.1624
-1644	5.319	5.088	4.841	4.561	4.270	0.1940	-1582	5.211	4.951	4.663	4.349	3.994	-0.1568

-1581	5.221	4.953	4.660	4.343	3.977	-0.1448	-1519	5.285	5.036	4.760	4.465	4.141	-0.1942
-1580	5.234	4.960	4.664	4.341	3.970	-0.1297	-1518	5.269	5.022	4.748	4.452	4.131	-0.2361
-1579	5.249	4.972	4.675	4.348	3.977	-0.1093	-1517	5.254	5.007	4.736	4.440	4.120	-0.2660
-1578	5.264	4.990	4.694	4.366	3.998	-0.0904	-1516	5.240	4.993	4.722	4.428	4.106	-0.2934
-1577	5.281	5.011	4.719	4.395	4.035	-0.0744	-1515	5.228	4.978	4.709	4.413	4.087	-0.3191
-1576	5.299	5.036	4.747	4.432	4.083	-0.0597	-1514	5.214	4.961	4.696	4.395	4.067	-0.3437
-1575	5.319	5.063	4.780	4.473	4.138	-0.0387	-1513	5.198	4.942	4.681	4.373	4.046	-0.3602
-1574	5.338	5.091	4.816	4.514	4.195	-0.0164	-1512	5.183	4.922	4.663	4.346	4.021	-0.3674
-1573	5.357	5.116	4.852	4.555	4.251	0.0230	-1511	5.168	4.903	4.642	4.317	3.991	-0.3589
-1572	5.375	5.139	4.886	4.594	4.302	0.0812	-1510	5.155	4.889	4.618	4.288	3.956	-0.3389
-1571	5.389	5.157	4.912	4.628	4.348	0.1500	-1509	5.144	4.878	4.594	4.262	3.919	-0.3050
-1570	5.397	5.170	4.929	4.656	4.380	0.2220	-1508	5.136	4.870	4.577	4.239	3.887	-0.2651
-1569	5.399	5.176	4.936	4.672	4.395	0.2756	-1507	5.133	4.866	4.566	4.224	3.863	-0.2198
-1568	5.397	5.176	4.935	4.674	4.393	0.3018	-1506	5.136	4.867	4.565	4.220	3.853	-0.1712
-1567	5.392	5.169	4.925	4.662	4.374	0.3025	-1505	5.144	4.874	4.573	4.228	3.860	-0.1181
-1566	5.383	5.155	4.906	4.636	4.341	0.2762	-1504	5.157	4.888	4.590	4.252	3.883	-0.0662
-1565	5.370	5.136	4.879	4.600	4.298	0.2206	-1503	5.176	4.909	4.616	4.291	3.923	-0.0250
-1564	5.354	5.110	4.846	4.556	4.245	0.1571	-1502	5.200	4.937	4.651	4.341	3.979	0.0032
-1563	5.333	5.079	4.810	4.505	4.187	0.0912	-1501	5.228	4.970	4.693	4.395	4.046	0.0301
-1562	5.310	5.047	4.774	4.454	4.125	0.0237	-1500	5.258	5.007	4.738	4.450	4.119	0.0627
-1561	5.286	5.018	4.740	4.407	4.064	-0.0365	-1499	5.288	5.044	4.784	4.504	4.192	0.1053
-1560	5.265	4.993	4.711	4.368	4.010	-0.0886	-1498	5.316	5.080	4.830	4.557	4.259	0.1551
-1559	5.248	4.976	4.687	4.339	3.968	-0.1440	-1497	5.341	5.113	4.870	4.606	4.314	0.2150
-1558	5.235	4.964	4.670	4.322	3.941	-0.1985	-1496	5.364	5.141	4.904	4.645	4.355	0.2743
-1557	5.226	4.957	4.660	4.317	3.933	-0.2500	-1495	5.385	5.163	4.927	4.670	4.382	0.3270
-1556	5.219	4.956	4.658	4.323	3.945	-0.3032	-1494	5.401	5.180	4.941	4.679	4.395	0.3543
-1555	5.216	4.958	4.663	4.338	3.974	-0.3583	-1493	5.412	5.190	4.944	4.674	4.392	0.3644
-1554	5.216	4.963	4.675	4.359	4.012	-0.3956	-1492	5.416	5.192	4.937	4.658	4.374	0.3550
-1553	5.220	4.970	4.691	4.383	4.052	-0.4127	-1491	5.414	5.185	4.921	4.634	4.340	0.3234
-1552	5.225	4.977	4.709	4.407	4.088	-0.4137	-1490	5.407	5.170	4.897	4.604	4.292	0.2666
-1551	5.230	4.984	4.725	4.428	4.117	-0.3936	-1489	5.397	5.151	4.868	4.571	4.237	0.2010
-1550	5.232	4.990	4.738	4.445	4.142	-0.3497	-1488	5.386	5.130	4.837	4.534	4.179	0.1246
-1549	5.233	4.994	4.745	4.457	4.160	-0.2969	-1487	5.375	5.111	4.808	4.495	4.126	0.0431
-1548	5.232	4.994	4.746	4.461	4.169	-0.2460	-1486	5.362	5.094	4.785	4.457	4.080	-0.0399
-1547	5.230	4.991	4.740	4.456	4.163	-0.2013	-1485	5.349	5.078	4.769	4.427	4.048	-0.1222
-1546	5.225	4.984	4.727	4.440	4.140	-0.1632	-1484	5.334	5.063	4.759	4.409	4.034	-0.2108
-1545	5.216	4.972	4.709	4.417	4.103	-0.1328	-1483	5.317	5.049	4.753	4.406	4.037	-0.2944
-1544	5.206	4.958	4.688	4.391	4.059	-0.1096	-1482	5.301	5.038	4.749	4.418	4.058	-0.3799
-1543	5.200	4.944	4.668	4.366	4.019	-0.0936	-1481	5.288	5.032	4.750	4.437	4.092	-0.4630
-1542	5.200	4.937	4.654	4.344	3.987	-0.0764	-1480	5.279	5.031	4.758	4.461	4.130	-0.5332
-1541	5.205	4.936	4.647	4.328	3.967	-0.0559	-1479	5.274	5.032	4.770	4.485	4.168	-0.5675
-1540	5.213	4.942	4.649	4.322	3.959	-0.0314	-1478	5.270	5.033	4.782	4.508	4.201	-0.5821
-1539	5.222	4.950	4.657	4.328	3.964	-0.0060	-1477	5.266	5.033	4.788	4.526	4.226	-0.5781
-1538	5.232	4.961	4.672	4.345	3.983	0.0268	-1476	5.259	5.029	4.788	4.535	4.242	-0.5619
-1537	5.244	4.978	4.695	4.371	4.016	0.0741	-1475	5.248	5.020	4.782	4.532	4.248	-0.5421
-1536	5.259	5.001	4.724	4.404	4.060	0.1261	-1474	5.234	5.007	4.768	4.515	4.239	-0.5327
-1535	5.278	5.028	4.755	4.441	4.109	0.1703	-1473	5.214	4.986	4.744	4.486	4.210	-0.5243
-1534	5.299	5.055	4.786	4.480	4.155	0.2124	-1472	5.190	4.959	4.710	4.445	4.160	-0.5229
-1533	5.319	5.079	4.814	4.517	4.197	0.2629	-1471	5.166	4.926	4.669	4.393	4.092	-0.5226
-1532	5.338	5.098	4.837	4.550	4.234	0.3148	-1470	5.144	4.890	4.623	4.332	4.009	-0.5119
-1531	5.352	5.114	4.855	4.575	4.265	0.3498	-1469	5.124	4.856	4.574	4.267	3.918	-0.4952
-1530	5.360	5.126	4.867	4.592	4.289	0.3671	-1468	5.109	4.827	4.528	4.204	3.825	-0.4771
-1529	5.365	5.135	4.875	4.600	4.302	0.3691	-1467	5.099	4.806	4.491	4.149	3.739	-0.4355
-1528	5.368	5.139	4.879	4.601	4.301	0.3468	-1466	5.094	4.795	4.468	4.108	3.672	-0.3801
-1527	5.370	5.139	4.879	4.594	4.288	0.3004	-1465	5.095	4.795	4.462	4.087	3.638	-0.3257
-1526	5.370	5.131	4.874	4.583	4.267	0.2515	-1464	5.103	4.806	4.471	4.091	3.643	-0.2690
-1525	5.368	5.119	4.864	4.566	4.242	0.2095	-1463	5.117	4.828	4.494	4.122	3.687	-0.2056
-1524	5.360	5.105	4.849	4.547	4.219	0.1580	-1462	5.139	4.857	4.529	4.176	3.765	-0.1475
-1523	5.348	5.091	4.829	4.527	4.198	0.0933	-1461	5.167	4.892	4.577	4.246	3.864	-0.0948
-1522	5.333	5.078	4.808	4.509	4.179	0.0201	-1460	5.201	4.932	4.635	4.325	3.973	-0.0422
-1521	5.317	5.065	4.789	4.493	4.164	-0.0572	-1459	5.239	4.976	4.701	4.406	4.082	0.0164
-1520	5.301	5.051	4.773	4.478	4.151	-0.1334	-1458	5.276	5.022	4.768	4.484	4.181	0.0794

-1457	5.312	5.068	4.830	4.556	4.269	0.1524	-1395	5.281	5.029	4.752	4.438	4.099	-0.4789
-1456	5.345	5.111	4.882	4.617	4.344	0.2304	-1394	5.251	4.993	4.707	4.375	4.028	-0.4775
-1455	5.372	5.147	4.923	4.665	4.402	0.2818	-1393	5.223	4.957	4.663	4.317	3.959	-0.4538
-1454	5.394	5.176	4.952	4.700	4.443	0.2992	-1392	5.198	4.924	4.624	4.267	3.900	-0.4129
-1453	5.409	5.195	4.970	4.720	4.465	0.2797	-1391	5.175	4.896	4.593	4.232	3.857	-0.3657
-1452	5.416	5.206	4.975	4.724	4.466	0.2184	-1390	5.156	4.875	4.571	4.214	3.837	-0.3198
-1451	5.418	5.206	4.969	4.714	4.446	0.1235	-1389	5.141	4.863	4.560	4.214	3.839	-0.2793
-1450	5.414	5.197	4.952	4.691	4.409	0.0267	-1388	5.133	4.861	4.564	4.231	3.864	-0.2456
-1449	5.408	5.181	4.926	4.656	4.356	-0.0724	-1387	5.135	4.870	4.580	4.262	3.906	-0.2117
-1448	5.399	5.160	4.896	4.613	4.291	-0.1660	-1386	5.143	4.887	4.605	4.301	3.960	-0.1818
-1447	5.389	5.140	4.866	4.569	4.224	-0.2426	-1385	5.157	4.911	4.635	4.344	4.019	-0.1648
-1446	5.380	5.122	4.838	4.526	4.161	-0.2986	-1384	5.173	4.936	4.666	4.384	4.077	-0.1522
-1445	5.371	5.108	4.815	4.487	4.111	-0.3416	-1383	5.189	4.959	4.695	4.420	4.127	-0.1371
-1444	5.362	5.097	4.799	4.455	4.076	-0.3713	-1382	5.205	4.981	4.720	4.448	4.164	-0.1307
-1443	5.353	5.090	4.789	4.435	4.058	-0.3914	-1381	5.219	4.997	4.739	4.469	4.186	-0.1200
-1442	5.343	5.084	4.782	4.430	4.059	-0.4148	-1380	5.230	5.009	4.750	4.482	4.194	-0.0904
-1441	5.335	5.081	4.780	4.438	4.077	-0.4462	-1379	5.239	5.014	4.751	4.486	4.190	-0.0548
-1440	5.331	5.080	4.783	4.455	4.107	-0.4773	-1378	5.246	5.014	4.746	4.478	4.175	-0.0238
-1439	5.331	5.081	4.791	4.479	4.143	-0.5030	-1377	5.250	5.011	4.736	4.461	4.149	0.0048
-1438	5.331	5.083	4.802	4.505	4.180	-0.5292	-1376	5.253	5.006	4.725	4.436	4.111	0.0261
-1437	5.329	5.084	4.814	4.529	4.212	-0.5585	-1375	5.255	5.000	4.714	4.408	4.064	0.0471
-1436	5.322	5.081	4.820	4.546	4.236	-0.5774	-1374	5.260	4.997	4.703	4.380	4.013	0.0753
-1435	5.312	5.074	4.821	4.553	4.251	-0.5835	-1373	5.269	4.997	4.693	4.356	3.967	0.1036
-1434	5.299	5.064	4.814	4.551	4.255	-0.5808	-1372	5.281	5.002	4.687	4.338	3.935	0.1254
-1433	5.282	5.048	4.801	4.541	4.248	-0.5596	-1371	5.292	5.011	4.687	4.331	3.921	0.1558
-1432	5.261	5.027	4.781	4.522	4.227	-0.5261	-1370	5.302	5.023	4.696	4.340	3.930	0.1921
-1431	5.236	5.000	4.754	4.491	4.192	-0.4762	-1369	5.312	5.038	4.714	4.365	3.965	0.2106
-1430	5.207	4.970	4.720	4.448	4.141	-0.4213	-1368	5.325	5.057	4.741	4.407	4.023	0.2195
-1429	5.179	4.938	4.679	4.395	4.079	-0.3644	-1367	5.339	5.082	4.775	4.461	4.098	0.2122
-1428	5.154	4.907	4.635	4.340	4.010	-0.3188	-1366	5.354	5.110	4.814	4.520	4.182	0.1888
-1427	5.130	4.878	4.593	4.286	3.940	-0.2732	-1365	5.371	5.135	4.857	4.579	4.265	0.1432
-1426	5.111	4.849	4.557	4.238	3.876	-0.2324	-1364	5.386	5.156	4.898	4.633	4.338	0.0975
-1425	5.097	4.826	4.531	4.198	3.823	-0.1973	-1363	5.400	5.172	4.933	4.675	4.395	0.0437
-1424	5.090	4.812	4.514	4.169	3.787	-0.1673	-1362	5.409	5.184	4.958	4.705	4.434	0.0002
-1423	5.091	4.808	4.508	4.156	3.770	-0.1322	-1361	5.410	5.189	4.970	4.720	4.453	-0.0475
-1422	5.097	4.814	4.512	4.161	3.773	-0.1024	-1360	5.404	5.187	4.967	4.719	4.455	-0.0958
-1421	5.106	4.828	4.526	4.183	3.795	-0.0860	-1359	5.391	5.176	4.950	4.701	4.439	-0.1504
-1420	5.121	4.848	4.548	4.216	3.833	-0.0748	-1358	5.373	5.155	4.920	4.669	4.404	-0.1944
-1419	5.140	4.871	4.577	4.256	3.884	-0.0672	-1357	5.350	5.124	4.880	4.622	4.350	-0.2532
-1418	5.164	4.896	4.611	4.297	3.940	-0.0606	-1356	5.322	5.086	4.833	4.563	4.277	-0.2954
-1417	5.191	4.922	4.648	4.340	3.994	-0.0453	-1355	5.290	5.046	4.780	4.495	4.189	-0.3410
-1416	5.219	4.949	4.686	4.383	4.043	-0.0249	-1354	5.257	5.005	4.725	4.424	4.091	-0.3814
-1415	5.248	4.979	4.722	4.425	4.086	-0.0105	-1353	5.228	4.966	4.669	4.352	3.989	-0.4282
-1414	5.275	5.011	4.756	4.464	4.127	0.0128	-1352	5.202	4.931	4.617	4.285	3.892	-0.4653
-1413	5.301	5.043	4.787	4.498	4.166	0.0423	-1351	5.180	4.900	4.573	4.228	3.809	-0.5139
-1412	5.324	5.075	4.818	4.530	4.202	0.0659	-1350	5.162	4.877	4.540	4.185	3.748	-0.5415
-1411	5.346	5.104	4.847	4.560	4.236	0.0740	-1349	5.149	4.861	4.522	4.159	3.718	-0.5625
-1410	5.365	5.130	4.874	4.586	4.268	0.0726	-1348	5.143	4.854	4.521	4.154	3.721	-0.5631
-1409	5.383	5.152	4.895	4.609	4.299	0.0458	-1347	5.144	4.856	4.535	4.171	3.756	-0.5414
-1408	5.400	5.169	4.912	4.629	4.326	-0.0019	-1346	5.150	4.866	4.562	4.206	3.815	-0.5110
-1407	5.413	5.181	4.925	4.645	4.349	-0.0491	-1345	5.159	4.884	4.598	4.255	3.889	-0.4651
-1406	5.423	5.189	4.935	4.660	4.367	-0.1065	-1344	5.171	4.908	4.639	4.313	3.967	-0.4106
-1405	5.429	5.196	4.944	4.672	4.380	-0.1359	-1343	5.188	4.935	4.681	4.374	4.045	-0.3537
-1404	5.435	5.201	4.951	4.681	4.388	-0.1552	-1342	5.208	4.963	4.720	4.432	4.117	-0.2867
-1403	5.438	5.204	4.955	4.685	4.389	-0.1666	-1341	5.227	4.988	4.752	4.481	4.178	-0.2214
-1402	5.437	5.202	4.953	4.683	4.380	-0.2022	-1340	5.242	5.006	4.778	4.516	4.223	-0.1721
-1401	5.429	5.196	4.944	4.674	4.364	-0.2259	-1339	5.253	5.019	4.794	4.536	4.250	-0.1287
-1400	5.415	5.184	4.926	4.657	4.341	-0.2725	-1338	5.261	5.027	4.801	4.542	4.257	-0.0882
-1399	5.394	5.164	4.902	4.632	4.311	-0.3249	-1337	5.269	5.032	4.799	4.536	4.247	-0.0558
-1398	5.370	5.137	4.872	4.597	4.273	-0.3908	-1336	5.274	5.034	4.789	4.521	4.226	-0.0246
-1397	5.342	5.104	4.836	4.553	4.225	-0.4348	-1335	5.277	5.033	4.774	4.499	4.195	0.0043
-1396	5.312	5.067	4.796	4.499	4.167	-0.4639	-1334	5.277	5.028	4.758	4.473	4.158	0.0398

-1333	5.278	5.023	4.746	4.447	4.116	0.0743	-1271	5.216	4.956	4.665	4.357	4.001	-0.2551
-1332	5.283	5.021	4.738	4.425	4.075	0.1031	-1270	5.205	4.953	4.668	4.368	4.025	-0.2116
-1331	5.292	5.024	4.734	4.410	4.042	0.1336	-1269	5.197	4.954	4.675	4.384	4.052	-0.1871
-1330	5.304	5.033	4.736	4.404	4.026	0.1638	-1268	5.191	4.955	4.683	4.399	4.078	-0.1660
-1329	5.317	5.046	4.744	4.407	4.029	0.1926	-1267	5.185	4.955	4.691	4.410	4.098	-0.1498
-1328	5.330	5.061	4.760	4.421	4.051	0.2225	-1266	5.181	4.953	4.696	4.414	4.111	-0.1496
-1327	5.344	5.078	4.782	4.446	4.087	0.2536	-1265	5.175	4.948	4.696	4.411	4.113	-0.1669
-1326	5.358	5.095	4.807	4.479	4.132	0.2709	-1264	5.168	4.938	4.688	4.402	4.104	-0.1729
-1325	5.373	5.115	4.836	4.516	4.182	0.2738	-1263	5.161	4.925	4.673	4.385	4.082	-0.1647
-1324	5.387	5.136	4.866	4.555	4.236	0.2595	-1262	5.153	4.910	4.651	4.358	4.048	-0.1478
-1323	5.399	5.158	4.893	4.591	4.287	0.2252	-1261	5.145	4.894	4.623	4.324	4.002	-0.1257
-1322	5.409	5.177	4.916	4.622	4.331	0.1788	-1260	5.136	4.879	4.594	4.285	3.950	-0.0963
-1321	5.415	5.189	4.931	4.644	4.363	0.1326	-1259	5.127	4.867	4.570	4.248	3.895	-0.0679
-1320	5.416	5.191	4.938	4.656	4.380	0.0760	-1258	5.122	4.857	4.553	4.217	3.845	-0.0509
-1319	5.409	5.184	4.936	4.658	4.381	0.0184	-1257	5.124	4.852	4.545	4.199	3.809	-0.0399
-1318	5.397	5.167	4.923	4.650	4.367	-0.0238	-1256	5.132	4.855	4.547	4.196	3.793	-0.0309
-1317	5.378	5.143	4.900	4.629	4.336	-0.0470	-1255	5.147	4.867	4.557	4.207	3.802	-0.0226
-1316	5.354	5.116	4.868	4.598	4.293	-0.0575	-1254	5.167	4.888	4.578	4.233	3.833	-0.0128
-1315	5.327	5.085	4.830	4.556	4.239	-0.0584	-1253	5.190	4.918	4.609	4.274	3.885	0.0062
-1314	5.298	5.052	4.788	4.508	4.180	-0.0542	-1252	5.217	4.953	4.650	4.327	3.953	0.0253
-1313	5.267	5.016	4.744	4.456	4.119	-0.0574	-1251	5.248	4.990	4.698	4.389	4.032	0.0410
-1312	5.235	4.979	4.701	4.404	4.061	-0.0861	-1250	5.279	5.027	4.748	4.454	4.117	0.0471
-1311	5.205	4.943	4.660	4.354	4.007	-0.1327	-1249	5.307	5.065	4.797	4.513	4.199	0.0516
-1310	5.179	4.913	4.625	4.311	3.958	-0.1860	-1248	5.333	5.100	4.842	4.565	4.270	0.0526
-1309	5.157	4.888	4.597	4.277	3.916	-0.2380	-1247	5.355	5.133	4.881	4.609	4.327	0.0598
-1308	5.138	4.870	4.575	4.253	3.886	-0.2763	-1246	5.375	5.161	4.911	4.645	4.370	0.0771
-1307	5.122	4.856	4.559	4.239	3.870	-0.3003	-1245	5.392	5.182	4.932	4.672	4.400	0.1068
-1306	5.111	4.845	4.547	4.233	3.866	-0.3075	-1244	5.406	5.195	4.943	4.689	4.414	0.1408
-1305	5.104	4.838	4.540	4.232	3.872	-0.2895	-1243	5.415	5.199	4.946	4.694	4.413	0.1809
-1304	5.101	4.836	4.542	4.236	3.882	-0.2601	-1242	5.419	5.196	4.940	4.686	4.398	0.2217
-1303	5.101	4.839	4.550	4.242	3.894	-0.2290	-1241	5.419	5.185	4.927	4.666	4.372	0.2468
-1302	5.103	4.845	4.563	4.249	3.905	-0.1931	-1240	5.413	5.171	4.909	4.638	4.336	0.2497
-1301	5.109	4.852	4.577	4.259	3.916	-0.1575	-1239	5.404	5.156	4.887	4.603	4.294	0.2207
-1300	5.119	4.861	4.588	4.269	3.924	-0.1267	-1238	5.391	5.142	4.863	4.566	4.248	0.1559
-1299	5.134	4.872	4.597	4.279	3.933	-0.0949	-1237	5.376	5.127	4.838	4.531	4.203	0.0676
-1298	5.151	4.887	4.607	4.293	3.944	-0.0653	-1236	5.360	5.112	4.817	4.501	4.164	-0.0255
-1297	5.172	4.907	4.620	4.311	3.960	-0.0381	-1235	5.346	5.099	4.800	4.477	4.134	-0.1132
-1296	5.194	4.930	4.640	4.332	3.983	-0.0098	-1234	5.333	5.088	4.787	4.462	4.115	-0.1937
-1295	5.219	4.957	4.666	4.359	4.013	0.0209	-1233	5.323	5.080	4.777	4.456	4.107	-0.2637
-1294	5.246	4.986	4.699	4.394	4.050	0.0493	-1232	5.314	5.070	4.771	4.457	4.112	-0.3370
-1293	5.275	5.016	4.738	4.435	4.093	0.0792	-1231	5.304	5.058	4.767	4.462	4.124	-0.4156
-1292	5.304	5.049	4.780	4.481	4.142	0.1043	-1230	5.291	5.045	4.766	4.466	4.138	-0.5045
-1291	5.334	5.083	4.824	4.529	4.195	0.1237	-1229	5.278	5.033	4.765	4.468	4.149	-0.5668
-1290	5.365	5.121	4.865	4.574	4.248	0.1391	-1228	5.264	5.021	4.762	4.468	4.153	-0.6004
-1289	5.394	5.158	4.904	4.615	4.300	0.1639	-1227	5.251	5.010	4.754	4.464	4.150	-0.6091
-1288	5.420	5.190	4.940	4.654	4.349	0.1935	-1226	5.235	4.997	4.740	4.455	4.141	-0.5989
-1287	5.442	5.215	4.970	4.690	4.393	0.2343	-1225	5.216	4.982	4.720	4.437	4.124	-0.5731
-1286	5.459	5.233	4.993	4.719	4.427	0.2849	-1224	5.196	4.964	4.695	4.411	4.096	-0.5639
-1285	5.468	5.245	5.007	4.737	4.449	0.3140	-1223	5.177	4.943	4.667	4.378	4.059	-0.5682
-1284	5.471	5.249	5.011	4.740	4.454	0.3110	-1222	5.160	4.919	4.639	4.343	4.014	-0.5711
-1283	5.468	5.244	5.004	4.730	4.442	0.2856	-1221	5.143	4.894	4.611	4.308	3.965	-0.5687
-1282	5.458	5.231	4.987	4.708	4.414	0.2261	-1220	5.128	4.872	4.585	4.274	3.918	-0.5587
-1281	5.444	5.211	4.960	4.676	4.373	0.1373	-1219	5.116	4.857	4.564	4.245	3.877	-0.5453
-1280	5.427	5.186	4.924	4.636	4.320	0.0498	-1218	5.109	4.850	4.552	4.222	3.848	-0.5355
-1279	5.406	5.156	4.884	4.587	4.260	-0.0365	-1217	5.109	4.848	4.549	4.210	3.836	-0.5246
-1278	5.381	5.124	4.842	4.534	4.196	-0.1322	-1216	5.117	4.852	4.556	4.213	3.845	-0.5014
-1277	5.355	5.092	4.801	4.482	4.133	-0.2185	-1215	5.131	4.862	4.573	4.233	3.873	-0.4647
-1276	5.328	5.060	4.763	4.434	4.076	-0.2887	-1214	5.150	4.881	4.599	4.265	3.915	-0.4164
-1275	5.301	5.030	4.731	4.396	4.030	-0.3276	-1213	5.175	4.908	4.631	4.307	3.968	-0.3520
-1274	5.275	5.003	4.703	4.370	3.999	-0.3336	-1212	5.202	4.939	4.669	4.355	4.027	-0.2847
-1273	5.252	4.980	4.683	4.357	3.986	-0.3219	-1211	5.231	4.973	4.708	4.404	4.086	-0.2279
-1272	5.232	4.964	4.670	4.353	3.987	-0.2966	-1210	5.261	5.009	4.748	4.452	4.141	-0.1851

-1209	5.289	5.045	4.788	4.497	4.189	-0.1475	-1147	5.249	5.013	4.755	4.481	4.187	-0.2937
-1208	5.315	5.079	4.824	4.536	4.227	-0.1143	-1146	5.235	4.995	4.739	4.458	4.157	-0.2907
-1207	5.338	5.107	4.854	4.566	4.257	-0.0844	-1145	5.217	4.973	4.719	4.428	4.118	-0.2802
-1206	5.355	5.125	4.874	4.585	4.277	-0.0602	-1144	5.196	4.950	4.694	4.392	4.074	-0.2663
-1205	5.367	5.135	4.885	4.595	4.288	-0.0440	-1143	5.177	4.927	4.665	4.357	4.027	-0.2512
-1204	5.376	5.140	4.888	4.598	4.289	-0.0370	-1142	5.161	4.908	4.634	4.323	3.982	-0.2330
-1203	5.382	5.142	4.884	4.594	4.278	-0.0400	-1141	5.150	4.891	4.607	4.294	3.940	-0.2104
-1202	5.384	5.140	4.876	4.584	4.258	-0.0391	-1140	5.144	4.877	4.587	4.270	3.906	-0.1869
-1201	5.383	5.134	4.863	4.569	4.230	-0.0282	-1139	5.141	4.867	4.575	4.254	3.884	-0.1646
-1200	5.380	5.126	4.849	4.549	4.200	-0.0006	-1138	5.141	4.865	4.573	4.247	3.875	-0.1411
-1199	5.374	5.118	4.835	4.528	4.172	0.0332	-1137	5.143	4.869	4.577	4.251	3.880	-0.1198
-1198	5.367	5.112	4.824	4.511	4.154	0.0771	-1136	5.149	4.880	4.588	4.264	3.897	-0.1022
-1197	5.359	5.106	4.816	4.498	4.146	0.1174	-1135	5.157	4.896	4.605	4.283	3.922	-0.0884
-1196	5.349	5.099	4.812	4.492	4.149	0.1557	-1134	5.169	4.916	4.624	4.309	3.954	-0.0774
-1195	5.339	5.090	4.811	4.493	4.160	0.1947	-1133	5.186	4.936	4.645	4.340	3.989	-0.0606
-1194	5.329	5.080	4.811	4.502	4.177	0.2361	-1132	5.205	4.958	4.667	4.374	4.024	-0.0436
-1193	5.319	5.073	4.811	4.517	4.196	0.2692	-1131	5.227	4.980	4.693	4.407	4.059	-0.0178
-1192	5.309	5.069	4.810	4.531	4.216	0.2986	-1130	5.248	5.000	4.721	4.435	4.094	0.0180
-1191	5.299	5.065	4.807	4.539	4.230	0.3219	-1129	5.266	5.021	4.750	4.458	4.127	0.0619
-1190	5.287	5.059	4.800	4.537	4.235	0.3372	-1128	5.283	5.041	4.777	4.476	4.157	0.1002
-1189	5.274	5.048	4.790	4.525	4.228	0.3559	-1127	5.301	5.059	4.800	4.492	4.183	0.1196
-1188	5.259	5.030	4.777	4.504	4.210	0.3842	-1126	5.321	5.078	4.820	4.508	4.204	0.1625
-1187	5.240	5.008	4.759	4.477	4.181	0.4155	-1125	5.342	5.096	4.837	4.526	4.221	0.2068
-1186	5.219	4.982	4.733	4.444	4.142	0.4477	-1124	5.362	5.115	4.853	4.548	4.240	0.2395
-1185	5.196	4.955	4.700	4.404	4.093	0.4807	-1123	5.380	5.133	4.871	4.572	4.260	0.2746
-1184	5.173	4.926	4.658	4.357	4.036	0.5133	-1122	5.395	5.152	4.889	4.598	4.284	0.3340
-1183	5.152	4.897	4.615	4.307	3.971	0.5298	-1121	5.407	5.169	4.908	4.622	4.311	0.3799
-1182	5.135	4.872	4.576	4.257	3.902	0.5270	-1120	5.419	5.184	4.924	4.643	4.338	0.3940
-1181	5.124	4.853	4.547	4.212	3.838	0.5113	-1119	5.429	5.196	4.938	4.661	4.362	0.3918
-1180	5.120	4.843	4.529	4.179	3.787	0.4834	-1118	5.437	5.204	4.950	4.675	4.381	0.3689
-1179	5.124	4.842	4.524	4.161	3.759	0.4247	-1117	5.441	5.209	4.958	4.682	4.391	0.3307
-1178	5.135	4.849	4.530	4.162	3.760	0.3551	-1116	5.439	5.210	4.961	4.681	4.389	0.2713
-1177	5.150	4.866	4.550	4.183	3.791	0.2907	-1115	5.433	5.205	4.957	4.670	4.378	0.2356
-1176	5.170	4.891	4.583	4.224	3.849	0.2338	-1114	5.420	5.190	4.943	4.650	4.357	0.2163
-1175	5.193	4.923	4.628	4.281	3.926	0.1790	-1113	5.402	5.167	4.919	4.622	4.325	0.2031
-1174	5.217	4.959	4.680	4.349	4.012	0.1330	-1112	5.379	5.138	4.889	4.588	4.284	0.1919
-1173	5.244	4.997	4.732	4.420	4.098	0.0910	-1111	5.351	5.105	4.852	4.546	4.234	0.1798
-1172	5.273	5.038	4.781	4.489	4.180	0.0491	-1110	5.321	5.071	4.810	4.499	4.174	0.1618
-1171	5.302	5.078	4.825	4.549	4.253	0.0114	-1109	5.288	5.035	4.762	4.448	4.107	0.1367
-1170	5.329	5.112	4.865	4.597	4.314	-0.0156	-1108	5.255	4.997	4.712	4.392	4.038	0.1102
-1169	5.354	5.138	4.898	4.634	4.359	-0.0334	-1107	5.222	4.957	4.664	4.335	3.971	0.0744
-1168	5.372	5.155	4.922	4.659	4.386	-0.0464	-1106	5.192	4.919	4.621	4.281	3.912	0.0284
-1167	5.385	5.163	4.933	4.671	4.393	-0.0591	-1105	5.167	4.887	4.586	4.238	3.865	-0.0389
-1166	5.390	5.165	4.930	4.669	4.381	-0.0817	-1104	5.147	4.864	4.560	4.210	3.834	-0.1241
-1165	5.390	5.162	4.915	4.652	4.353	-0.1156	-1103	5.131	4.849	4.545	4.200	3.824	-0.1950
-1164	5.384	5.152	4.894	4.624	4.313	-0.1489	-1102	5.119	4.842	4.543	4.205	3.835	-0.2400
-1163	5.373	5.136	4.869	4.588	4.267	-0.1779	-1101	5.110	4.844	4.552	4.225	3.865	-0.2620
-1162	5.360	5.118	4.843	4.548	4.217	-0.2162	-1100	5.109	4.854	4.570	4.254	3.909	-0.2532
-1161	5.347	5.100	4.817	4.508	4.168	-0.2623	-1099	5.114	4.869	4.593	4.289	3.959	-0.2207
-1160	5.335	5.082	4.793	4.469	4.123	-0.3146	-1098	5.125	4.889	4.619	4.325	4.007	-0.1929
-1159	5.326	5.067	4.773	4.438	4.084	-0.3497	-1097	5.140	4.910	4.646	4.359	4.052	-0.1771
-1158	5.319	5.055	4.758	4.417	4.056	-0.3680	-1096	5.157	4.929	4.672	4.392	4.091	-0.1658
-1157	5.313	5.046	4.747	4.412	4.045	-0.3599	-1095	5.175	4.945	4.693	4.419	4.124	-0.1531
-1156	5.307	5.040	4.742	4.418	4.049	-0.3356	-1094	5.191	4.956	4.707	4.440	4.146	-0.1338
-1155	5.301	5.038	4.743	4.432	4.066	-0.2977	-1093	5.203	4.963	4.714	4.450	4.154	-0.0920
-1154	5.296	5.039	4.750	4.448	4.093	-0.2704	-1092	5.212	4.966	4.713	4.448	4.146	-0.0247
-1153	5.292	5.043	4.760	4.466	4.123	-0.2604	-1091	5.216	4.968	4.706	4.434	4.124	0.0341
-1152	5.289	5.047	4.770	4.483	4.152	-0.2609	-1090	5.219	4.969	4.695	4.411	4.089	0.0721
-1151	5.285	5.050	4.776	4.496	4.179	-0.2673	-1089	5.223	4.971	4.685	4.383	4.045	0.0931
-1150	5.278	5.047	4.778	4.503	4.198	-0.2799	-1088	5.231	4.975	4.678	4.357	3.999	0.0834
-1149	5.270	5.040	4.775	4.503	4.208	-0.2889	-1087	5.243	4.984	4.677	4.338	3.957	0.0473
-1148	5.261	5.028	4.767	4.496	4.204	-0.2921	-1086	5.261	4.995	4.683	4.330	3.931	0.0123

-1085	5.283	5.008	4.694	4.334	3.926	-0.0109	-1023	5.264	5.012	4.747	4.453	4.130	-0.2133
-1084	5.305	5.023	4.711	4.351	3.944	-0.0364	-1022	5.246	4.989	4.718	4.418	4.091	-0.2716
-1083	5.327	5.041	4.734	4.382	3.984	-0.0625	-1021	5.227	4.969	4.690	4.386	4.053	-0.2967
-1082	5.345	5.065	4.763	4.426	4.042	-0.0888	-1020	5.210	4.952	4.663	4.356	4.017	-0.3048
-1081	5.362	5.094	4.800	4.480	4.113	-0.1246	-1019	5.196	4.935	4.640	4.330	3.982	-0.2936
-1080	5.378	5.125	4.841	4.540	4.193	-0.1734	-1018	5.183	4.919	4.621	4.306	3.950	-0.2691
-1079	5.396	5.156	4.886	4.601	4.274	-0.2278	-1017	5.173	4.905	4.606	4.286	3.922	-0.2289
-1078	5.416	5.185	4.929	4.659	4.353	-0.2907	-1016	5.165	4.894	4.596	4.273	3.899	-0.2055
-1077	5.437	5.210	4.967	4.709	4.422	-0.3692	-1015	5.157	4.888	4.591	4.267	3.884	-0.1826
-1076	5.453	5.230	4.995	4.747	4.478	-0.4480	-1014	5.153	4.885	4.591	4.267	3.879	-0.1674
-1075	5.462	5.244	5.014	4.770	4.516	-0.5242	-1013	5.153	4.886	4.598	4.270	3.885	-0.1634
-1074	5.460	5.248	5.021	4.777	4.533	-0.5942	-1012	5.160	4.892	4.610	4.278	3.902	-0.1650
-1073	5.449	5.240	5.016	4.769	4.527	-0.6579	-1011	5.173	4.904	4.626	4.291	3.930	-0.1630
-1072	5.431	5.219	4.995	4.746	4.499	-0.7130	-1010	5.190	4.922	4.645	4.313	3.969	-0.1460
-1071	5.405	5.188	4.959	4.709	4.448	-0.7434	-1009	5.209	4.946	4.668	4.345	4.016	-0.1247
-1070	5.374	5.148	4.910	4.656	4.375	-0.7569	-1008	5.230	4.973	4.697	4.386	4.066	-0.0880
-1069	5.338	5.102	4.850	4.588	4.284	-0.7355	-1007	5.252	5.003	4.730	4.432	4.118	-0.0333
-1068	5.302	5.055	4.785	4.508	4.180	-0.6995	-1006	5.275	5.034	4.768	4.479	4.170	0.0196
-1067	5.268	5.008	4.722	4.421	4.067	-0.6417	-1005	5.300	5.065	4.806	4.526	4.224	0.0618
-1066	5.239	4.965	4.664	4.335	3.955	-0.5936	-1004	5.323	5.093	4.842	4.568	4.277	0.1064
-1065	5.212	4.927	4.611	4.259	3.851	-0.5531	-1003	5.345	5.119	4.873	4.602	4.324	0.1588
-1064	5.187	4.895	4.567	4.199	3.768	-0.5189	-1002	5.362	5.139	4.895	4.626	4.357	0.1814
-1063	5.167	4.871	4.535	4.158	3.715	-0.4885	-1001	5.372	5.153	4.908	4.640	4.373	0.1855
-1062	5.151	4.855	4.518	4.141	3.701	-0.4473	-1000	5.379	5.159	4.911	4.643	4.373	0.1726
-1061	5.143	4.850	4.518	4.149	3.725	-0.3827	-999	5.381	5.157	4.905	4.635	4.360	0.1418
-1060	5.143	4.857	4.535	4.181	3.780	-0.3060	-998	5.381	5.147	4.893	4.618	4.331	0.0834
-1059	5.151	4.873	4.566	4.231	3.855	-0.2264	-997	5.376	5.131	4.874	4.591	4.287	0.0376
-1058	5.165	4.896	4.606	4.292	3.938	-0.1493	-996	5.366	5.113	4.849	4.554	4.230	0.0015
-1057	5.183	4.924	4.650	4.356	4.019	-0.0850	-995	5.352	5.094	4.818	4.511	4.165	-0.0370
-1056	5.201	4.955	4.693	4.415	4.095	-0.0425	-994	5.336	5.073	4.783	4.465	4.099	-0.0795
-1055	5.218	4.984	4.731	4.465	4.161	-0.0201	-993	5.320	5.051	4.748	4.421	4.040	-0.1225
-1054	5.233	5.008	4.761	4.503	4.215	0.0020	-992	5.305	5.030	4.718	4.385	3.992	-0.1823
-1053	5.246	5.023	4.782	4.526	4.253	0.0303	-991	5.290	5.012	4.698	4.360	3.960	-0.2070
-1052	5.254	5.030	4.794	4.536	4.274	0.0502	-990	5.276	4.998	4.688	4.348	3.947	-0.2150
-1051	5.255	5.030	4.795	4.532	4.275	0.0699	-989	5.264	4.990	4.686	4.347	3.956	-0.2045
-1050	5.252	5.025	4.784	4.516	4.256	0.1027	-988	5.255	4.988	4.691	4.359	3.985	-0.1778
-1049	5.246	5.016	4.764	4.489	4.218	0.1258	-987	5.251	4.990	4.700	4.381	4.028	-0.1244
-1048	5.240	5.004	4.738	4.453	4.167	0.1417	-986	5.252	4.996	4.715	4.410	4.077	-0.0890
-1047	5.234	4.989	4.713	4.416	4.108	0.1607	-985	5.253	5.004	4.734	4.445	4.126	-0.0523
-1046	5.230	4.977	4.691	4.383	4.048	0.1813	-984	5.255	5.014	4.755	4.480	4.171	-0.0165
-1045	5.229	4.969	4.674	4.357	3.993	0.2059	-983	5.256	5.024	4.775	4.511	4.212	0.0113
-1044	5.232	4.968	4.662	4.336	3.950	0.2376	-982	5.256	5.033	4.791	4.534	4.246	0.0343
-1043	5.240	4.972	4.658	4.323	3.925	0.2733	-981	5.254	5.036	4.801	4.545	4.268	0.0383
-1042	5.251	4.981	4.664	4.322	3.922	0.3138	-980	5.250	5.032	4.803	4.544	4.275	0.0324
-1041	5.264	4.993	4.681	4.337	3.941	0.3578	-979	5.243	5.021	4.793	4.530	4.262	0.0017
-1040	5.280	5.007	4.704	4.368	3.979	0.4045	-978	5.230	5.006	4.771	4.503	4.228	-0.0351
-1039	5.295	5.024	4.732	4.408	4.032	0.4311	-977	5.213	4.986	4.739	4.462	4.175	-0.0782
-1038	5.310	5.043	4.763	4.452	4.092	0.4455	-976	5.195	4.964	4.700	4.410	4.106	-0.1097
-1037	5.325	5.064	4.795	4.494	4.151	0.4460	-975	5.177	4.938	4.657	4.351	4.025	-0.1312
-1036	5.338	5.087	4.827	4.533	4.203	0.4247	-974	5.161	4.911	4.615	4.290	3.938	-0.1341
-1035	5.351	5.110	4.855	4.568	4.247	0.3749	-973	5.152	4.887	4.578	4.231	3.852	-0.1144
-1034	5.362	5.130	4.877	4.597	4.281	0.3302	-972	5.150	4.870	4.551	4.184	3.778	-0.0879
-1033	5.371	5.144	4.892	4.618	4.307	0.2812	-971	5.155	4.862	4.536	4.154	3.727	-0.0524
-1032	5.376	5.152	4.900	4.629	4.326	0.2381	-970	5.166	4.865	4.533	4.146	3.707	-0.0167
-1031	5.376	5.153	4.901	4.631	4.335	0.1956	-969	5.181	4.880	4.543	4.160	3.723	0.0236
-1030	5.372	5.147	4.896	4.626	4.333	0.1608	-968	5.198	4.904	4.569	4.197	3.773	0.0617
-1029	5.363	5.135	4.884	4.614	4.322	0.1266	-967	5.216	4.934	4.610	4.252	3.848	0.1132
-1028	5.351	5.119	4.867	4.596	4.304	0.0948	-966	5.239	4.969	4.663	4.322	3.943	0.1706
-1027	5.337	5.101	4.846	4.573	4.279	0.0433	-965	5.267	5.008	4.723	4.398	4.047	0.2338
-1026	5.320	5.082	4.824	4.547	4.248	-0.0161	-964	5.297	5.049	4.784	4.478	4.152	0.2925
-1025	5.302	5.060	4.800	4.519	4.211	-0.0816	-963	5.328	5.091	4.842	4.554	4.250	0.3476
-1024	5.283	5.036	4.775	4.488	4.171	-0.1465	-962	5.356	5.130	4.894	4.624	4.338	0.3878

-961	5.382	5.162	4.938	4.680	4.410	0.3927	-899	5.233	4.963	4.668	4.358	4.007	0.1542
-960	5.403	5.186	4.970	4.722	4.461	0.3538	-898	5.213	4.936	4.638	4.322	3.959	0.1829
-959	5.419	5.202	4.989	4.749	4.489	0.2779	-897	5.194	4.913	4.615	4.290	3.920	0.2128
-958	5.427	5.209	4.996	4.759	4.496	0.1685	-896	5.176	4.895	4.600	4.266	3.897	0.2329
-957	5.427	5.206	4.990	4.753	4.484	0.0534	-895	5.162	4.884	4.595	4.255	3.892	0.2572
-956	5.418	5.195	4.971	4.729	4.454	-0.0672	-894	5.152	4.880	4.597	4.258	3.904	0.2728
-955	5.403	5.174	4.941	4.687	4.408	-0.1765	-893	5.150	4.885	4.608	4.275	3.929	0.2947
-954	5.385	5.147	4.904	4.630	4.343	-0.2527	-892	5.153	4.896	4.625	4.303	3.964	0.3091
-953	5.365	5.116	4.861	4.567	4.263	-0.3073	-891	5.160	4.914	4.647	4.338	4.005	0.3239
-952	5.345	5.088	4.817	4.504	4.174	-0.3889	-890	5.171	4.933	4.671	4.374	4.051	0.3327
-951	5.325	5.062	4.774	4.446	4.085	-0.4858	-889	5.185	4.952	4.694	4.406	4.093	0.3393
-950	5.306	5.041	4.733	4.397	4.008	-0.5455	-888	5.200	4.969	4.715	4.435	4.129	0.3358
-949	5.290	5.022	4.700	4.359	3.950	-0.5946	-887	5.216	4.983	4.731	4.459	4.156	0.3331
-948	5.278	5.006	4.677	4.334	3.914	-0.6376	-886	5.227	4.992	4.743	4.475	4.175	0.3420
-947	5.268	4.993	4.665	4.324	3.902	-0.6382	-885	5.234	4.998	4.749	4.481	4.183	0.3438
-946	5.260	4.985	4.665	4.328	3.914	-0.5945	-884	5.236	5.000	4.748	4.477	4.177	0.3542
-945	5.252	4.983	4.676	4.343	3.948	-0.5548	-883	5.237	4.999	4.740	4.462	4.159	0.3848
-944	5.247	4.986	4.694	4.368	3.996	-0.5025	-882	5.239	4.997	4.727	4.442	4.130	0.4243
-943	5.244	4.991	4.715	4.398	4.051	-0.4767	-881	5.241	4.993	4.712	4.419	4.093	0.4516
-942	5.245	4.997	4.734	4.432	4.104	-0.4634	-880	5.244	4.989	4.698	4.395	4.053	0.4717
-941	5.247	5.004	4.750	4.464	4.149	-0.4326	-879	5.249	4.985	4.689	4.372	4.015	0.5016
-940	5.248	5.010	4.761	4.489	4.184	-0.4070	-878	5.254	4.982	4.684	4.354	3.983	0.5352
-939	5.246	5.014	4.765	4.503	4.206	-0.3899	-877	5.261	4.982	4.683	4.343	3.962	0.5642
-938	5.242	5.012	4.763	4.505	4.213	-0.3514	-876	5.270	4.987	4.686	4.343	3.957	0.5868
-937	5.235	5.005	4.752	4.495	4.206	-0.3207	-875	5.278	4.999	4.696	4.356	3.970	0.6213
-936	5.224	4.992	4.735	4.476	4.186	-0.3065	-874	5.287	5.014	4.714	4.380	4.000	0.6502
-935	5.209	4.975	4.713	4.448	4.152	-0.2922	-873	5.295	5.031	4.739	4.414	4.046	0.6649
-934	5.192	4.954	4.688	4.414	4.108	-0.2740	-872	5.306	5.051	4.767	4.455	4.104	0.6359
-933	5.175	4.933	4.659	4.375	4.056	-0.2381	-871	5.318	5.073	4.797	4.501	4.167	0.5906
-932	5.160	4.913	4.627	4.333	4.001	-0.1893	-870	5.332	5.096	4.828	4.546	4.229	0.5380
-931	5.149	4.897	4.596	4.292	3.946	-0.1351	-869	5.346	5.118	4.861	4.586	4.286	0.4722
-930	5.143	4.885	4.571	4.257	3.900	-0.0787	-868	5.359	5.138	4.890	4.618	4.334	0.3996
-929	5.142	4.879	4.557	4.233	3.867	-0.0336	-867	5.369	5.151	4.910	4.638	4.370	0.3341
-928	5.145	4.877	4.554	4.223	3.851	0.0060	-866	5.374	5.157	4.918	4.649	4.389	0.2602
-927	5.154	4.883	4.561	4.228	3.854	0.0409	-865	5.373	5.156	4.915	4.652	4.389	0.1176
-926	5.167	4.896	4.577	4.247	3.872	0.0631	-864	5.364	5.147	4.904	4.642	4.370	-0.0339
-925	5.184	4.915	4.602	4.277	3.903	0.0797	-863	5.350	5.131	4.886	4.619	4.337	-0.2043
-924	5.204	4.938	4.633	4.315	3.946	0.1008	-862	5.332	5.109	4.861	4.582	4.291	-0.3683
-923	5.226	4.965	4.668	4.355	3.997	0.1249	-861	5.313	5.081	4.827	4.536	4.235	-0.4803
-922	5.249	4.995	4.702	4.393	4.051	0.1592	-860	5.294	5.051	4.788	4.485	4.170	-0.5220
-921	5.273	5.026	4.734	4.430	4.103	0.2000	-859	5.277	5.020	4.748	4.435	4.100	-0.5421
-920	5.295	5.055	4.764	4.467	4.151	0.2444	-858	5.262	4.992	4.712	4.388	4.032	-0.5297
-919	5.316	5.080	4.793	4.503	4.194	0.3044	-857	5.249	4.970	4.683	4.344	3.973	-0.4884
-918	5.335	5.101	4.822	4.537	4.233	0.3651	-856	5.235	4.953	4.662	4.308	3.928	-0.4641
-917	5.352	5.117	4.849	4.565	4.266	0.3916	-855	5.223	4.942	4.648	4.284	3.901	-0.4318
-916	5.369	5.131	4.873	4.586	4.289	0.4047	-854	5.214	4.936	4.639	4.275	3.891	-0.4137
-915	5.382	5.143	4.891	4.602	4.306	0.3933	-853	5.211	4.934	4.637	4.281	3.901	-0.4124
-914	5.393	5.153	4.903	4.617	4.318	0.3405	-852	5.212	4.935	4.641	4.301	3.930	-0.4159
-913	5.401	5.161	4.909	4.629	4.325	0.2564	-851	5.214	4.942	4.654	4.331	3.972	-0.4006
-912	5.405	5.169	4.912	4.637	4.330	0.1836	-850	5.217	4.953	4.675	4.366	4.021	-0.4072
-911	5.407	5.172	4.912	4.641	4.332	0.1190	-849	5.222	4.968	4.700	4.400	4.070	-0.4012
-910	5.406	5.172	4.911	4.640	4.330	0.0613	-848	5.230	4.983	4.724	4.431	4.113	-0.3902
-909	5.401	5.167	4.907	4.634	4.325	0.0149	-847	5.238	4.997	4.744	4.458	4.148	-0.3697
-908	5.394	5.158	4.900	4.624	4.317	-0.0237	-846	5.246	5.008	4.758	4.478	4.174	-0.3707
-907	5.384	5.146	4.890	4.609	4.304	-0.0272	-845	5.252	5.017	4.765	4.490	4.191	-0.3518
-906	5.373	5.131	4.876	4.591	4.287	-0.0094	-844	5.256	5.022	4.769	4.493	4.197	-0.3235
-905	5.359	5.114	4.858	4.568	4.264	0.0032	-843	5.259	5.024	4.768	4.489	4.191	-0.2883
-904	5.342	5.093	4.835	4.540	4.234	0.0228	-842	5.261	5.020	4.763	4.480	4.174	-0.2626
-903	5.321	5.071	4.806	4.507	4.195	0.0581	-841	5.260	5.014	4.753	4.467	4.149	-0.2422
-902	5.298	5.048	4.774	4.471	4.150	0.0761	-840	5.256	5.005	4.741	4.451	4.119	-0.2216
-901	5.275	5.021	4.739	4.434	4.104	0.0854	-839	5.252	4.998	4.728	4.433	4.087	-0.2079
-900	5.253	4.992	4.703	4.396	4.056	0.1161	-838	5.250	4.993	4.717	4.414	4.057	-0.2018

-837	5.251	4.992	4.710	4.398	4.034	-0.1965	-775	5.215	4.958	4.682	4.359	4.008	-0.3080
-836	5.254	4.996	4.707	4.389	4.021	-0.1820	-774	5.211	4.961	4.686	4.370	4.028	-0.2742
-835	5.260	5.001	4.709	4.389	4.021	-0.1721	-773	5.208	4.964	4.689	4.381	4.053	-0.2418
-834	5.268	5.009	4.716	4.398	4.031	-0.1675	-772	5.206	4.965	4.690	4.391	4.075	-0.2085
-833	5.279	5.018	4.729	4.413	4.052	-0.1519	-771	5.205	4.966	4.691	4.400	4.090	-0.1787
-832	5.290	5.031	4.746	4.432	4.081	-0.1404	-770	5.206	4.965	4.691	4.407	4.095	-0.1516
-831	5.302	5.048	4.766	4.456	4.117	-0.1384	-769	5.205	4.962	4.690	4.409	4.093	-0.1264
-830	5.314	5.067	4.787	4.485	4.156	-0.1370	-768	5.202	4.956	4.687	4.404	4.084	-0.1023
-829	5.325	5.084	4.807	4.515	4.196	-0.1417	-767	5.197	4.948	4.682	4.392	4.071	-0.0858
-828	5.334	5.097	4.825	4.541	4.231	-0.1437	-766	5.190	4.941	4.675	4.375	4.053	-0.0707
-827	5.339	5.104	4.839	4.559	4.256	-0.1480	-765	5.185	4.934	4.665	4.357	4.031	-0.0545
-826	5.341	5.106	4.844	4.566	4.270	-0.1427	-764	5.182	4.929	4.655	4.342	4.009	-0.0318
-825	5.338	5.104	4.842	4.565	4.272	-0.1459	-763	5.184	4.925	4.648	4.331	3.988	-0.0001
-824	5.332	5.097	4.835	4.556	4.264	-0.1312	-762	5.189	4.925	4.644	4.325	3.973	0.0435
-823	5.326	5.088	4.822	4.541	4.249	-0.1295	-761	5.196	4.928	4.645	4.324	3.968	0.0894
-822	5.318	5.076	4.806	4.521	4.225	-0.1008	-760	5.204	4.937	4.653	4.329	3.973	0.1311
-821	5.310	5.061	4.787	4.495	4.193	-0.0914	-759	5.213	4.953	4.666	4.341	3.987	0.1677
-820	5.298	5.042	4.766	4.466	4.154	-0.0751	-758	5.225	4.971	4.684	4.361	4.009	0.1983
-819	5.284	5.021	4.745	4.437	4.112	-0.0668	-757	5.240	4.990	4.707	4.389	4.038	0.2192
-818	5.267	5.000	4.725	4.408	4.071	-0.0629	-756	5.257	5.007	4.731	4.422	4.071	0.2408
-817	5.251	4.983	4.707	4.385	4.038	-0.0629	-755	5.276	5.024	4.754	4.456	4.107	0.2647
-816	5.237	4.971	4.691	4.368	4.016	-0.0459	-754	5.293	5.042	4.776	4.489	4.144	0.2737
-815	5.223	4.963	4.679	4.358	4.007	-0.0117	-753	5.309	5.062	4.798	4.516	4.177	0.2903
-814	5.212	4.959	4.672	4.355	4.008	0.0078	-752	5.324	5.080	4.817	4.535	4.205	0.3076
-813	5.204	4.957	4.670	4.358	4.015	0.0342	-751	5.338	5.096	4.834	4.549	4.227	0.3170
-812	5.201	4.958	4.671	4.367	4.024	0.0612	-750	5.350	5.108	4.845	4.558	4.243	0.3290
-811	5.202	4.961	4.673	4.378	4.037	0.0805	-749	5.359	5.115	4.852	4.564	4.251	0.3470
-810	5.206	4.963	4.678	4.390	4.053	0.0839	-748	5.365	5.119	4.856	4.568	4.252	0.3401
-809	5.209	4.966	4.684	4.399	4.072	0.1013	-747	5.369	5.121	4.856	4.569	4.248	0.3162
-808	5.212	4.968	4.692	4.403	4.089	0.1609	-746	5.371	5.123	4.854	4.569	4.239	0.2784
-807	5.213	4.970	4.699	4.402	4.100	0.2060	-745	5.371	5.126	4.851	4.565	4.230	0.2340
-806	5.213	4.970	4.702	4.401	4.102	0.2728	-744	5.371	5.127	4.849	4.559	4.224	0.1759
-805	5.215	4.969	4.702	4.401	4.094	0.3516	-743	5.369	5.127	4.847	4.556	4.221	0.1293
-804	5.219	4.967	4.698	4.400	4.079	0.4211	-742	5.366	5.125	4.847	4.555	4.222	0.0842
-803	5.225	4.966	4.695	4.397	4.062	0.4561	-741	5.361	5.122	4.847	4.557	4.226	0.0587
-802	5.233	4.967	4.694	4.392	4.044	0.4953	-740	5.355	5.119	4.846	4.561	4.232	0.0311
-801	5.241	4.971	4.696	4.387	4.031	0.5251	-739	5.349	5.115	4.845	4.563	4.238	0.0098
-800	5.247	4.978	4.702	4.387	4.025	0.5510	-738	5.344	5.111	4.841	4.560	4.243	-0.0131
-799	5.254	4.989	4.710	4.393	4.027	0.5970	-737	5.336	5.105	4.836	4.556	4.243	-0.0138
-798	5.264	5.002	4.722	4.406	4.039	0.6250	-736	5.325	5.095	4.828	4.548	4.237	-0.0118
-797	5.278	5.017	4.739	4.425	4.060	0.6235	-735	5.310	5.078	4.816	4.537	4.225	-0.0055
-796	5.294	5.036	4.761	4.450	4.091	0.5776	-734	5.292	5.055	4.800	4.520	4.206	0.0247
-795	5.311	5.055	4.785	4.480	4.130	0.5058	-733	5.274	5.029	4.777	4.493	4.180	0.0669
-794	5.325	5.074	4.810	4.512	4.173	0.4075	-732	5.256	5.004	4.747	4.459	4.145	0.1035
-793	5.338	5.093	4.835	4.544	4.216	0.3061	-731	5.236	4.981	4.713	4.419	4.100	0.1396
-792	5.350	5.110	4.857	4.571	4.256	0.2236	-730	5.214	4.958	4.678	4.377	4.047	0.1844
-791	5.363	5.125	4.876	4.595	4.291	0.1642	-729	5.192	4.934	4.643	4.334	3.992	0.2211
-790	5.372	5.138	4.889	4.616	4.319	0.0882	-728	5.173	4.909	4.613	4.294	3.938	0.2546
-789	5.376	5.146	4.897	4.629	4.336	-0.0006	-727	5.156	4.887	4.589	4.259	3.890	0.2899
-788	5.373	5.147	4.898	4.630	4.339	-0.0841	-726	5.142	4.868	4.570	4.230	3.853	0.3342
-787	5.365	5.143	4.891	4.621	4.328	-0.1742	-725	5.132	4.855	4.557	4.211	3.831	0.3733
-786	5.353	5.132	4.878	4.601	4.305	-0.2610	-724	5.126	4.849	4.550	4.205	3.826	0.4119
-785	5.340	5.116	4.857	4.573	4.269	-0.3233	-723	5.126	4.852	4.552	4.212	3.838	0.4394
-784	5.325	5.095	4.831	4.541	4.226	-0.3675	-722	5.132	4.864	4.564	4.234	3.865	0.4565
-783	5.310	5.072	4.801	4.507	4.177	-0.4043	-721	5.143	4.883	4.589	4.267	3.908	0.4554
-782	5.294	5.050	4.770	4.470	4.126	-0.4300	-720	5.158	4.907	4.621	4.308	3.963	0.4465
-781	5.278	5.028	4.740	4.433	4.079	-0.4354	-719	5.177	4.932	4.656	4.353	4.025	0.4289
-780	5.263	5.006	4.712	4.398	4.040	-0.4246	-718	5.198	4.956	4.691	4.397	4.087	0.4028
-779	5.250	4.986	4.692	4.371	4.011	-0.4678	-717	5.221	4.980	4.722	4.440	4.142	0.3696
-778	5.238	4.970	4.681	4.354	3.996	-0.4359	-716	5.241	5.003	4.751	4.480	4.188	0.3120
-777	5.228	4.960	4.677	4.348	3.991	-0.3987	-715	5.258	5.024	4.774	4.513	4.222	0.2330
-776	5.221	4.957	4.678	4.351	3.995	-0.3487	-714	5.273	5.042	4.793	4.536	4.244	0.1490

-713	5.284	5.055	4.806	4.548	4.253	0.0683	-651	5.295	5.057	4.793	4.506	4.194	0.5597
-712	5.294	5.063	4.813	4.548	4.246	-0.0064	-650	5.286	5.047	4.782	4.498	4.187	0.5402
-711	5.303	5.067	4.815	4.539	4.228	-0.0653	-649	5.275	5.035	4.768	4.489	4.173	0.5266
-710	5.312	5.068	4.810	4.523	4.203	-0.1023	-648	5.263	5.023	4.753	4.477	4.157	0.5189
-709	5.319	5.068	4.800	4.503	4.175	-0.1287	-647	5.250	5.011	4.739	4.461	4.140	0.5296
-708	5.323	5.068	4.787	4.480	4.143	-0.1489	-646	5.237	4.999	4.725	4.442	4.125	0.5506
-707	5.326	5.069	4.775	4.457	4.112	-0.1648	-645	5.225	4.986	4.713	4.422	4.108	0.5841
-706	5.329	5.069	4.766	4.439	4.085	-0.1709	-644	5.215	4.974	4.699	4.405	4.091	0.6142
-705	5.333	5.069	4.760	4.428	4.068	-0.1728	-643	5.206	4.963	4.687	4.392	4.072	0.6399
-704	5.337	5.069	4.759	4.426	4.063	-0.1750	-642	5.200	4.953	4.675	4.382	4.054	0.6628
-703	5.341	5.072	4.764	4.436	4.072	-0.1774	-641	5.194	4.945	4.665	4.371	4.036	0.6887
-702	5.344	5.079	4.776	4.456	4.093	-0.1865	-640	5.192	4.938	4.657	4.359	4.021	0.7103
-701	5.349	5.089	4.794	4.484	4.126	-0.2017	-639	5.191	4.933	4.650	4.347	4.005	0.7267
-700	5.353	5.101	4.815	4.515	4.170	-0.2168	-638	5.193	4.930	4.645	4.337	3.988	0.7397
-699	5.359	5.113	4.836	4.546	4.219	-0.2326	-637	5.194	4.929	4.642	4.329	3.971	0.7431
-698	5.363	5.126	4.856	4.575	4.268	-0.2504	-636	5.195	4.931	4.642	4.325	3.957	0.7408
-697	5.366	5.136	4.873	4.602	4.312	-0.2640	-635	5.199	4.937	4.645	4.325	3.949	0.7426
-696	5.367	5.142	4.888	4.623	4.346	-0.2750	-634	5.208	4.946	4.651	4.329	3.949	0.7521
-695	5.364	5.142	4.899	4.635	4.366	-0.2896	-633	5.222	4.957	4.661	4.340	3.960	0.7709
-694	5.357	5.135	4.900	4.636	4.370	-0.3124	-632	5.240	4.970	4.676	4.358	3.982	0.7958
-693	5.347	5.122	4.892	4.625	4.356	-0.3357	-631	5.258	4.986	4.697	4.381	4.015	0.8174
-692	5.334	5.104	4.872	4.603	4.327	-0.3722	-630	5.276	5.006	4.725	4.411	4.057	0.8297
-691	5.317	5.081	4.844	4.572	4.286	-0.3966	-629	5.292	5.031	4.757	4.448	4.105	0.8377
-690	5.296	5.055	4.806	4.532	4.233	-0.4050	-628	5.309	5.060	4.793	4.490	4.157	0.8354
-689	5.271	5.025	4.763	4.481	4.167	-0.3900	-627	5.327	5.089	4.829	4.535	4.212	0.8223
-688	5.245	4.993	4.717	4.422	4.091	-0.3590	-626	5.346	5.117	4.862	4.578	4.265	0.7950
-687	5.217	4.960	4.672	4.359	4.010	-0.3006	-625	5.366	5.141	4.891	4.617	4.313	0.7468
-686	5.192	4.928	4.630	4.299	3.933	-0.2428	-624	5.382	5.161	4.914	4.648	4.352	0.6731
-685	5.171	4.902	4.595	4.249	3.867	-0.1897	-623	5.395	5.174	4.929	4.671	4.379	0.5380
-684	5.156	4.884	4.568	4.212	3.818	-0.1391	-622	5.402	5.182	4.937	4.682	4.394	0.3697
-683	5.149	4.873	4.554	4.193	3.791	-0.0945	-621	5.401	5.182	4.936	4.679	4.394	0.1962
-682	5.149	4.869	4.553	4.191	3.790	-0.0550	-620	5.395	5.173	4.925	4.664	4.378	0.0403
-681	5.152	4.873	4.563	4.207	3.814	-0.0181	-619	5.384	5.155	4.906	4.639	4.349	-0.0951
-680	5.160	4.883	4.583	4.235	3.858	0.0198	-618	5.369	5.132	4.879	4.606	4.305	-0.1856
-679	5.171	4.900	4.610	4.274	3.914	0.0575	-617	5.350	5.104	4.846	4.564	4.248	-0.2479
-678	5.184	4.923	4.641	4.321	3.976	0.0976	-616	5.330	5.073	4.809	4.513	4.183	-0.2914
-677	5.201	4.949	4.676	4.371	4.039	0.1384	-615	5.306	5.039	4.769	4.456	4.111	-0.3155
-676	5.220	4.976	4.710	4.420	4.100	0.1778	-614	5.282	5.005	4.728	4.398	4.039	-0.3326
-675	5.239	5.003	4.741	4.462	4.155	0.2140	-613	5.259	4.974	4.688	4.346	3.970	-0.3271
-674	5.257	5.027	4.768	4.496	4.200	0.2457	-612	5.238	4.947	4.653	4.303	3.911	-0.3087
-673	5.272	5.045	4.792	4.521	4.231	0.2638	-611	5.220	4.925	4.625	4.271	3.868	-0.2945
-672	5.283	5.055	4.809	4.539	4.247	0.2689	-610	5.204	4.910	4.606	4.251	3.848	-0.2872
-671	5.289	5.059	4.819	4.548	4.251	0.2625	-609	5.193	4.903	4.599	4.246	3.850	-0.2682
-670	5.294	5.059	4.820	4.546	4.244	0.2464	-608	5.186	4.904	4.603	4.258	3.876	-0.2456
-669	5.297	5.058	4.814	4.534	4.229	0.2428	-607	5.184	4.912	4.617	4.286	3.920	-0.2363
-668	5.298	5.057	4.804	4.516	4.206	0.2576	-606	5.185	4.925	4.638	4.325	3.978	-0.2242
-667	5.298	5.055	4.792	4.493	4.179	0.2846	-605	5.190	4.939	4.663	4.367	4.041	-0.2171
-666	5.298	5.050	4.781	4.470	4.148	0.3232	-604	5.196	4.955	4.689	4.406	4.101	-0.2211
-665	5.300	5.046	4.773	4.450	4.119	0.3752	-603	5.205	4.969	4.712	4.439	4.153	-0.2489
-664	5.303	5.043	4.767	4.435	4.095	0.4116	-602	5.213	4.981	4.732	4.464	4.192	-0.2721
-663	5.306	5.043	4.764	4.429	4.078	0.4362	-601	5.221	4.989	4.745	4.483	4.217	-0.3051
-662	5.309	5.044	4.762	4.432	4.069	0.4622	-600	5.227	4.992	4.749	4.492	4.225	-0.3533
-661	5.311	5.047	4.764	4.438	4.069	0.4851	-599	5.231	4.990	4.746	4.491	4.217	-0.3939
-660	5.313	5.052	4.769	4.446	4.079	0.5018	-598	5.231	4.985	4.738	4.478	4.193	-0.4067
-659	5.317	5.060	4.777	4.456	4.096	0.5187	-597	5.226	4.976	4.724	4.456	4.158	-0.4043
-658	5.321	5.069	4.787	4.468	4.117	0.5331	-596	5.217	4.964	4.706	4.424	4.114	-0.3804
-657	5.325	5.075	4.797	4.481	4.140	0.5441	-595	5.209	4.951	4.685	4.386	4.061	-0.3310
-656	5.328	5.079	4.804	4.495	4.159	0.5561	-594	5.203	4.940	4.662	4.345	4.003	-0.2842
-655	5.326	5.078	4.808	4.505	4.173	0.5647	-593	5.203	4.933	4.642	4.310	3.947	-0.2482
-654	5.321	5.075	4.808	4.511	4.183	0.5720	-592	5.210	4.932	4.627	4.285	3.901	-0.2084
-653	5.312	5.071	4.806	4.514	4.191	0.5807	-591	5.222	4.937	4.622	4.275	3.872	-0.1556
-652	5.304	5.065	4.801	4.511	4.195	0.5750	-590	5.238	4.946	4.630	4.280	3.866	-0.1009

-589	5.256	4.961	4.651	4.299	3.886	-0.0516	-527	5.295	5.056	4.795	4.518	4.192	-0.1699
-588	5.275	4.982	4.684	4.333	3.929	-0.0161	-526	5.272	5.032	4.767	4.489	4.156	-0.1609
-587	5.295	5.009	4.723	4.379	3.994	-0.0025	-525	5.248	5.007	4.737	4.453	4.118	-0.1464
-586	5.315	5.042	4.764	4.435	4.074	-0.0153	-524	5.224	4.982	4.706	4.412	4.077	-0.1297
-585	5.337	5.078	4.805	4.496	4.157	-0.0429	-523	5.199	4.956	4.673	4.366	4.034	-0.1122
-584	5.360	5.116	4.848	4.557	4.238	-0.0924	-522	5.177	4.928	4.640	4.321	3.987	-0.0957
-583	5.382	5.152	4.891	4.616	4.314	-0.1483	-521	5.159	4.901	4.607	4.279	3.939	-0.0855
-582	5.404	5.183	4.931	4.667	4.381	-0.2021	-520	5.144	4.876	4.579	4.241	3.891	-0.0779
-581	5.422	5.206	4.963	4.706	4.434	-0.2603	-519	5.131	4.856	4.557	4.211	3.851	-0.0703
-580	5.435	5.222	4.983	4.734	4.470	-0.3305	-518	5.120	4.844	4.542	4.192	3.824	-0.0605
-579	5.441	5.229	4.990	4.748	4.487	-0.3993	-517	5.115	4.840	4.533	4.187	3.813	-0.0523
-578	5.442	5.226	4.987	4.748	4.484	-0.4660	-516	5.117	4.844	4.535	4.194	3.820	-0.0458
-577	5.437	5.216	4.976	4.734	4.465	-0.5198	-515	5.124	4.855	4.549	4.214	3.843	-0.0415
-576	5.424	5.199	4.956	4.706	4.430	-0.5445	-514	5.137	4.870	4.573	4.242	3.880	-0.0383
-575	5.406	5.174	4.926	4.666	4.378	-0.5359	-513	5.155	4.892	4.606	4.279	3.929	-0.0416
-574	5.383	5.142	4.887	4.616	4.314	-0.4996	-512	5.176	4.918	4.644	4.324	3.988	-0.0486
-573	5.358	5.107	4.841	4.559	4.241	-0.4404	-511	5.200	4.948	4.683	4.373	4.051	-0.0642
-572	5.331	5.071	4.795	4.499	4.164	-0.3792	-510	5.226	4.980	4.722	4.424	4.113	-0.0891
-571	5.304	5.036	4.752	4.440	4.089	-0.3307	-509	5.251	5.010	4.759	4.471	4.168	-0.1300
-570	5.278	5.004	4.711	4.385	4.017	-0.2931	-508	5.273	5.037	4.792	4.512	4.215	-0.1825
-569	5.255	4.974	4.673	4.337	3.953	-0.2596	-507	5.289	5.057	4.817	4.543	4.251	-0.2411
-568	5.233	4.948	4.638	4.299	3.904	-0.2250	-506	5.301	5.072	4.835	4.564	4.272	-0.2876
-567	5.212	4.925	4.610	4.272	3.874	-0.1834	-505	5.309	5.083	4.843	4.573	4.281	-0.3172
-566	5.191	4.909	4.593	4.260	3.864	-0.1374	-504	5.316	5.090	4.843	4.569	4.277	-0.3255
-565	5.173	4.898	4.588	4.260	3.872	-0.0907	-503	5.322	5.091	4.837	4.556	4.259	-0.3146
-564	5.159	4.892	4.590	4.270	3.892	-0.0419	-502	5.328	5.089	4.827	4.538	4.231	-0.2925
-563	5.150	4.891	4.597	4.285	3.921	0.0131	-501	5.332	5.084	4.816	4.515	4.197	-0.2728
-562	5.146	4.893	4.607	4.302	3.953	0.0663	-500	5.334	5.077	4.803	4.490	4.159	-0.2577
-561	5.144	4.897	4.620	4.320	3.988	0.1139	-499	5.335	5.072	4.791	4.467	4.121	-0.2468
-560	5.143	4.902	4.634	4.337	4.020	0.1580	-498	5.334	5.068	4.779	4.447	4.090	-0.2373
-559	5.143	4.906	4.647	4.353	4.045	0.1951	-497	5.333	5.065	4.770	4.433	4.067	-0.2210
-558	5.145	4.909	4.656	4.365	4.061	0.2227	-496	5.332	5.064	4.765	4.428	4.057	-0.2050
-557	5.149	4.914	4.660	4.373	4.069	0.2420	-495	5.332	5.065	4.766	4.432	4.064	-0.1960
-556	5.153	4.919	4.660	4.375	4.069	0.2573	-494	5.333	5.067	4.772	4.445	4.085	-0.1946
-555	5.157	4.924	4.658	4.370	4.062	0.2677	-493	5.334	5.070	4.784	4.466	4.118	-0.2051
-554	5.162	4.928	4.653	4.363	4.048	0.2740	-492	5.335	5.074	4.801	4.492	4.158	-0.2291
-553	5.169	4.929	4.651	4.357	4.032	0.2730	-491	5.336	5.080	4.821	4.521	4.200	-0.2593
-552	5.179	4.930	4.651	4.355	4.019	0.2666	-490	5.338	5.090	4.841	4.547	4.241	-0.2927
-551	5.191	4.934	4.654	4.356	4.011	0.2530	-489	5.339	5.103	4.857	4.570	4.277	-0.3295
-550	5.206	4.944	4.660	4.363	4.010	0.2399	-488	5.339	5.112	4.866	4.586	4.303	-0.3436
-549	5.222	4.959	4.672	4.374	4.014	0.2396	-487	5.335	5.115	4.867	4.591	4.312	-0.3377
-548	5.240	4.978	4.689	4.389	4.023	0.2528	-486	5.325	5.108	4.861	4.586	4.304	-0.3172
-547	5.261	4.997	4.711	4.409	4.040	0.2805	-485	5.310	5.092	4.848	4.568	4.281	-0.2809
-546	5.284	5.019	4.733	4.433	4.067	0.3138	-484	5.291	5.071	4.826	4.539	4.247	-0.2255
-545	5.307	5.041	4.757	4.460	4.101	0.3503	-483	5.269	5.046	4.796	4.503	4.205	-0.1737
-544	5.329	5.066	4.783	4.486	4.139	0.3798	-482	5.248	5.017	4.759	4.463	4.155	-0.1294
-543	5.350	5.093	4.812	4.512	4.176	0.3973	-481	5.225	4.986	4.718	4.420	4.096	-0.0900
-542	5.368	5.117	4.841	4.537	4.209	0.4068	-480	5.201	4.952	4.675	4.373	4.032	-0.0517
-541	5.383	5.138	4.868	4.561	4.237	0.4149	-479	5.179	4.921	4.636	4.324	3.968	-0.0187
-540	5.396	5.155	4.888	4.585	4.261	0.4071	-478	5.163	4.895	4.603	4.277	3.910	0.0098
-539	5.404	5.165	4.902	4.608	4.284	0.3637	-477	5.153	4.877	4.578	4.240	3.864	0.0431
-538	5.408	5.171	4.911	4.624	4.304	0.2905	-476	5.148	4.867	4.561	4.219	3.833	0.0893
-537	5.410	5.174	4.915	4.634	4.321	0.1970	-475	5.145	4.866	4.553	4.214	3.819	0.1408
-536	5.410	5.176	4.916	4.637	4.334	0.1028	-474	5.143	4.872	4.554	4.223	3.826	0.1924
-535	5.408	5.175	4.914	4.638	4.341	0.0150	-473	5.146	4.883	4.567	4.242	3.850	0.2423
-534	5.404	5.171	4.910	4.637	4.340	-0.0491	-472	5.155	4.898	4.588	4.269	3.891	0.2841
-533	5.397	5.161	4.904	4.633	4.332	-0.0855	-471	5.172	4.914	4.616	4.306	3.945	0.3135
-532	5.385	5.148	4.894	4.624	4.319	-0.1108	-470	5.192	4.935	4.648	4.350	4.005	0.3336
-531	5.371	5.132	4.879	4.608	4.302	-0.1354	-469	5.213	4.961	4.683	4.398	4.065	0.3435
-530	5.354	5.116	4.862	4.588	4.282	-0.1541	-468	5.234	4.989	4.718	4.443	4.118	0.3472
-529	5.336	5.098	4.842	4.566	4.258	-0.1642	-467	5.256	5.018	4.754	4.481	4.164	0.3530
-528	5.316	5.078	4.820	4.543	4.227	-0.1703	-466	5.279	5.045	4.786	4.513	4.202	0.3576

-465	5.302	5.069	4.814	4.537	4.234	0.3595	-403	5.207	4.944	4.661	4.360	4.015	-0.8659
-464	5.322	5.090	4.836	4.555	4.258	0.3701	-402	5.182	4.917	4.628	4.319	3.959	-0.9073
-463	5.337	5.107	4.852	4.568	4.274	0.3868	-401	5.159	4.892	4.599	4.282	3.907	-0.9218
-462	5.347	5.120	4.863	4.576	4.280	0.4046	-400	5.140	4.871	4.574	4.250	3.868	-0.9137
-461	5.355	5.128	4.867	4.580	4.277	0.4294	-399	5.126	4.856	4.555	4.226	3.844	-0.8853
-460	5.361	5.133	4.866	4.576	4.267	0.4597	-398	5.116	4.847	4.543	4.214	3.836	-0.8438
-459	5.366	5.137	4.863	4.567	4.254	0.4846	-397	5.109	4.842	4.539	4.212	3.843	-0.8024
-458	5.370	5.137	4.860	4.556	4.238	0.5072	-396	5.108	4.841	4.542	4.221	3.862	-0.7684
-457	5.372	5.134	4.858	4.546	4.226	0.5214	-395	5.111	4.844	4.553	4.239	3.888	-0.7272
-456	5.371	5.130	4.855	4.540	4.217	0.5160	-394	5.119	4.852	4.571	4.262	3.918	-0.6846
-455	5.369	5.127	4.851	4.537	4.210	0.4893	-393	5.131	4.865	4.593	4.286	3.949	-0.6356
-454	5.365	5.124	4.845	4.534	4.205	0.4577	-392	5.143	4.882	4.617	4.311	3.979	-0.5828
-453	5.361	5.119	4.839	4.531	4.201	0.4093	-391	5.156	4.901	4.639	4.335	4.005	-0.5322
-452	5.354	5.112	4.835	4.527	4.199	0.3807	-390	5.169	4.921	4.656	4.355	4.028	-0.4899
-451	5.345	5.102	4.831	4.525	4.197	0.3789	-389	5.183	4.940	4.670	4.373	4.049	-0.4477
-450	5.334	5.090	4.826	4.522	4.198	0.3884	-388	5.198	4.959	4.681	4.389	4.068	-0.4067
-449	5.320	5.077	4.819	4.515	4.198	0.4024	-387	5.214	4.975	4.695	4.403	4.084	-0.3643
-448	5.304	5.061	4.807	4.503	4.193	0.4393	-386	5.231	4.988	4.711	4.416	4.096	-0.3221
-447	5.287	5.043	4.790	4.488	4.180	0.4682	-385	5.248	5.003	4.729	4.431	4.104	-0.2745
-446	5.268	5.022	4.769	4.469	4.157	0.4910	-384	5.266	5.020	4.746	4.447	4.113	-0.2274
-445	5.247	5.001	4.744	4.446	4.125	0.5275	-383	5.285	5.040	4.763	4.466	4.125	-0.1835
-444	5.226	4.980	4.716	4.419	4.089	0.5708	-382	5.305	5.060	4.779	4.487	4.144	-0.1419
-443	5.204	4.957	4.685	4.388	4.052	0.6042	-381	5.325	5.078	4.798	4.509	4.168	-0.1074
-442	5.183	4.932	4.655	4.354	4.015	0.6301	-380	5.343	5.096	4.821	4.531	4.196	-0.0862
-441	5.162	4.905	4.626	4.320	3.978	0.6530	-379	5.361	5.114	4.846	4.555	4.225	-0.0698
-440	5.143	4.880	4.601	4.289	3.943	0.6699	-378	5.380	5.132	4.869	4.581	4.254	-0.0554
-439	5.128	4.859	4.581	4.261	3.911	0.6844	-377	5.397	5.148	4.889	4.607	4.282	-0.0409
-438	5.117	4.846	4.568	4.240	3.886	0.7014	-376	5.410	5.163	4.908	4.631	4.307	-0.0254
-437	5.112	4.842	4.560	4.230	3.873	0.7240	-375	5.419	5.176	4.923	4.650	4.328	-0.0081
-436	5.113	4.845	4.557	4.231	3.874	0.7510	-374	5.425	5.187	4.934	4.661	4.343	0.0151
-435	5.119	4.854	4.563	4.243	3.887	0.7732	-373	5.429	5.195	4.940	4.663	4.350	0.0417
-434	5.131	4.867	4.575	4.265	3.912	0.7899	-372	5.430	5.198	4.939	4.659	4.348	0.0725
-433	5.145	4.885	4.593	4.295	3.944	0.8076	-371	5.428	5.195	4.931	4.650	4.337	0.1054
-432	5.163	4.908	4.617	4.329	3.980	0.8207	-370	5.419	5.188	4.917	4.636	4.319	0.1357
-431	5.184	4.934	4.645	4.363	4.019	0.8240	-369	5.406	5.177	4.898	4.617	4.295	0.1440
-430	5.206	4.960	4.677	4.396	4.060	0.8221	-368	5.389	5.161	4.874	4.594	4.266	0.1230
-429	5.231	4.985	4.709	4.425	4.101	0.8179	-367	5.369	5.139	4.850	4.566	4.232	0.0634
-428	5.257	5.009	4.739	4.453	4.139	0.8047	-366	5.348	5.113	4.824	4.535	4.195	0.0231
-427	5.280	5.032	4.766	4.479	4.171	0.7850	-365	5.326	5.084	4.799	4.502	4.157	0.0042
-426	5.300	5.054	4.788	4.502	4.196	0.7489	-364	5.306	5.056	4.774	4.470	4.124	0.0023
-425	5.317	5.075	4.809	4.521	4.215	0.6960	-363	5.287	5.031	4.750	4.442	4.097	0.0204
-424	5.333	5.094	4.829	4.535	4.229	0.6207	-362	5.268	5.008	4.726	4.419	4.077	0.0709
-423	5.348	5.112	4.847	4.546	4.239	0.5170	-361	5.247	4.987	4.703	4.403	4.062	0.1051
-422	5.364	5.126	4.861	4.556	4.245	0.3768	-360	5.225	4.966	4.684	4.388	4.050	0.1313
-421	5.379	5.138	4.870	4.565	4.247	0.2299	-359	5.203	4.945	4.669	4.376	4.041	0.1651
-420	5.391	5.148	4.877	4.576	4.248	0.0921	-358	5.183	4.924	4.658	4.364	4.034	0.2004
-419	5.402	5.154	4.884	4.586	4.250	-0.0383	-357	5.164	4.905	4.648	4.352	4.026	0.2324
-418	5.412	5.160	4.892	4.595	4.255	-0.1512	-356	5.146	4.891	4.636	4.338	4.015	0.2702
-417	5.419	5.166	4.900	4.603	4.265	-0.2357	-355	5.132	4.881	4.622	4.322	4.000	0.2969
-416	5.424	5.171	4.907	4.610	4.279	-0.2935	-354	5.121	4.873	4.607	4.304	3.979	0.3110
-415	5.426	5.174	4.912	4.617	4.295	-0.3456	-353	5.114	4.865	4.590	4.284	3.955	0.3305
-414	5.422	5.173	4.915	4.625	4.310	-0.3933	-352	5.111	4.853	4.575	4.264	3.931	0.3616
-413	5.413	5.168	4.917	4.632	4.320	-0.4287	-351	5.110	4.840	4.560	4.245	3.906	0.3804
-412	5.400	5.159	4.913	4.634	4.325	-0.4630	-350	5.111	4.832	4.547	4.228	3.880	0.3935
-411	5.384	5.148	4.902	4.628	4.322	-0.5125	-349	5.115	4.833	4.540	4.216	3.857	0.4046
-410	5.367	5.133	4.884	4.613	4.311	-0.5683	-348	5.124	4.844	4.541	4.212	3.842	0.4165
-409	5.350	5.114	4.861	4.591	4.290	-0.6188	-347	5.139	4.863	4.552	4.219	3.841	0.4128
-408	5.329	5.091	4.833	4.562	4.259	-0.6617	-346	5.159	4.884	4.575	4.238	3.857	0.4051
-407	5.306	5.064	4.802	4.528	4.221	-0.7007	-345	5.182	4.909	4.608	4.268	3.892	0.4038
-406	5.281	5.034	4.768	4.490	4.177	-0.7400	-344	5.208	4.939	4.647	4.309	3.944	0.4063
-405	5.256	5.003	4.733	4.448	4.127	-0.7782	-343	5.238	4.975	4.691	4.358	4.009	0.4032
-404	5.231	4.973	4.697	4.404	4.073	-0.8176	-342	5.270	5.015	4.737	4.414	4.082	0.4130

-341	5.305	5.054	4.785	4.475	4.156	0.4385	-279	5.169	4.895	4.598	4.247	3.874	0.0669
-340	5.339	5.092	4.833	4.537	4.227	0.4582	-278	5.156	4.882	4.587	4.243	3.864	0.0281
-339	5.372	5.128	4.878	4.596	4.293	0.4755	-277	5.146	4.872	4.581	4.246	3.866	-0.0280
-338	5.402	5.162	4.919	4.648	4.352	0.4939	-276	5.138	4.867	4.579	4.254	3.878	-0.0845
-337	5.427	5.192	4.954	4.691	4.400	0.5071	-275	5.135	4.866	4.582	4.266	3.897	-0.1266
-336	5.444	5.215	4.980	4.720	4.436	0.5080	-274	5.136	4.869	4.590	4.282	3.922	-0.1357
-335	5.454	5.228	4.996	4.736	4.458	0.5073	-273	5.142	4.877	4.600	4.301	3.950	-0.1172
-334	5.458	5.232	5.002	4.738	4.464	0.5124	-272	5.150	4.888	4.614	4.322	3.980	-0.0717
-333	5.458	5.227	4.998	4.727	4.453	0.5283	-271	5.161	4.902	4.631	4.344	4.009	-0.0123
-332	5.451	5.213	4.985	4.707	4.425	0.5484	-270	5.173	4.919	4.650	4.365	4.038	0.0460
-331	5.437	5.191	4.962	4.679	4.384	0.5616	-269	5.185	4.937	4.671	4.386	4.064	0.0977
-330	5.415	5.166	4.929	4.642	4.330	0.5642	-268	5.198	4.955	4.691	4.410	4.088	0.1449
-329	5.389	5.140	4.886	4.598	4.267	0.5384	-267	5.211	4.973	4.711	4.435	4.112	0.1856
-328	5.361	5.110	4.838	4.545	4.197	0.4750	-266	5.226	4.990	4.730	4.457	4.135	0.2205
-327	5.331	5.078	4.789	4.487	4.124	0.3766	-265	5.244	5.007	4.749	4.475	4.158	0.2459
-326	5.302	5.044	4.745	4.427	4.054	0.2411	-264	5.264	5.027	4.767	4.488	4.178	0.2699
-325	5.274	5.011	4.707	4.373	3.995	0.0803	-263	5.284	5.046	4.784	4.500	4.192	0.2964
-324	5.249	4.981	4.676	4.328	3.949	-0.0751	-262	5.303	5.064	4.798	4.511	4.200	0.3299
-323	5.227	4.956	4.652	4.297	3.918	-0.2196	-261	5.320	5.077	4.811	4.522	4.206	0.3622
-322	5.209	4.936	4.633	4.281	3.907	-0.3400	-260	5.335	5.087	4.823	4.532	4.211	0.3947
-321	5.195	4.921	4.622	4.282	3.914	-0.4247	-259	5.350	5.096	4.833	4.539	4.214	0.4200
-320	5.185	4.912	4.620	4.295	3.939	-0.4827	-258	5.365	5.106	4.841	4.544	4.213	0.4388
-319	5.178	4.909	4.626	4.315	3.977	-0.5267	-257	5.379	5.119	4.847	4.546	4.208	0.4402
-318	5.174	4.911	4.639	4.341	4.018	-0.5554	-256	5.393	5.131	4.852	4.545	4.200	0.4323
-317	5.173	4.917	4.655	4.368	4.058	-0.5776	-255	5.405	5.141	4.857	4.544	4.195	0.4153
-316	5.173	4.925	4.672	4.396	4.093	-0.5951	-254	5.414	5.149	4.863	4.546	4.197	0.3834
-315	5.177	4.932	4.685	4.421	4.122	-0.5988	-253	5.419	5.156	4.871	4.554	4.207	0.3438
-314	5.183	4.940	4.695	4.440	4.143	-0.5976	-252	5.419	5.161	4.878	4.565	4.222	0.3174
-313	5.188	4.949	4.699	4.448	4.153	-0.5919	-251	5.418	5.164	4.886	4.578	4.240	0.2991
-312	5.193	4.956	4.699	4.447	4.151	-0.5873	-250	5.416	5.166	4.893	4.593	4.262	0.2920
-311	5.198	4.961	4.697	4.438	4.135	-0.5821	-249	5.413	5.167	4.902	4.607	4.288	0.3063
-310	5.202	4.962	4.692	4.424	4.108	-0.5827	-248	5.410	5.167	4.910	4.620	4.316	0.3354
-309	5.206	4.959	4.686	4.406	4.074	-0.5820	-247	5.404	5.165	4.917	4.630	4.341	0.3647
-308	5.211	4.954	4.678	4.387	4.038	-0.5800	-246	5.395	5.159	4.919	4.637	4.358	0.3935
-307	5.217	4.951	4.671	4.368	4.004	-0.5686	-245	5.381	5.148	4.915	4.639	4.363	0.4042
-306	5.225	4.952	4.666	4.349	3.975	-0.5467	-244	5.362	5.131	4.902	4.635	4.355	0.4087
-305	5.235	4.958	4.664	4.335	3.955	-0.5090	-243	5.339	5.109	4.880	4.621	4.336	0.4119
-304	5.248	4.971	4.668	4.330	3.947	-0.4671	-242	5.310	5.083	4.849	4.594	4.302	0.4137
-303	5.263	4.987	4.679	4.340	3.954	-0.4330	-241	5.278	5.051	4.809	4.554	4.252	0.4126
-302	5.281	5.006	4.698	4.363	3.978	-0.4163	-240	5.242	5.011	4.761	4.500	4.190	0.4210
-301	5.300	5.027	4.726	4.395	4.017	-0.4124	-239	5.204	4.964	4.707	4.435	4.118	0.4189
-300	5.320	5.051	4.760	4.435	4.067	-0.4223	-238	5.166	4.913	4.649	4.361	4.034	0.4030
-299	5.337	5.076	4.796	4.479	4.124	-0.4275	-237	5.129	4.860	4.588	4.281	3.941	0.3794
-298	5.353	5.101	4.830	4.524	4.183	-0.4199	-236	5.093	4.811	4.527	4.199	3.841	0.3420
-297	5.368	5.125	4.862	4.569	4.241	-0.3911	-235	5.060	4.768	4.470	4.120	3.737	0.3059
-296	5.382	5.146	4.889	4.610	4.294	-0.3421	-234	5.033	4.735	4.421	4.052	3.641	0.2439
-295	5.396	5.163	4.910	4.644	4.338	-0.2854	-233	5.017	4.714	4.386	4.002	3.567	0.1492
-294	5.408	5.175	4.925	4.669	4.370	-0.2389	-232	5.013	4.707	4.370	3.978	3.528	0.0100
-293	5.413	5.182	4.933	4.684	4.390	-0.2021	-231	5.019	4.712	4.372	3.983	3.529	-0.1318
-292	5.411	5.182	4.934	4.688	4.399	-0.1704	-230	5.033	4.729	4.392	4.016	3.572	-0.2817
-291	5.400	5.175	4.929	4.682	4.396	-0.1468	-229	5.052	4.758	4.431	4.071	3.649	-0.3977
-290	5.384	5.162	4.918	4.664	4.380	-0.1235	-228	5.079	4.796	4.486	4.144	3.748	-0.4677
-289	5.367	5.144	4.897	4.636	4.351	-0.0990	-227	5.112	4.846	4.553	4.228	3.861	-0.4752
-288	5.349	5.121	4.869	4.599	4.310	-0.0711	-226	5.153	4.902	4.626	4.317	3.979	-0.4527
-287	5.329	5.094	4.836	4.557	4.261	-0.0440	-225	5.199	4.963	4.699	4.407	4.096	-0.4001
-286	5.306	5.063	4.799	4.512	4.205	-0.0128	-224	5.247	5.023	4.768	4.495	4.204	-0.3332
-285	5.280	5.031	4.761	4.467	4.146	0.0233	-223	5.295	5.079	4.830	4.576	4.296	-0.2557
-284	5.256	5.001	4.724	4.419	4.085	0.0558	-222	5.341	5.128	4.885	4.646	4.369	-0.1701
-283	5.233	4.974	4.688	4.371	4.026	0.0803	-221	5.381	5.168	4.930	4.698	4.421	-0.0791
-282	5.214	4.951	4.658	4.326	3.974	0.0952	-220	5.412	5.197	4.964	4.734	4.453	0.0004
-281	5.197	4.930	4.633	4.288	3.930	0.0977	-219	5.433	5.217	4.986	4.753	4.468	0.0702
-280	5.182	4.911	4.613	4.262	3.896	0.0896	-218	5.445	5.226	4.995	4.757	4.467	0.1246

-217	5.451	5.226	4.992	4.748	4.449	0.1608	-155	5.203	4.954	4.689	4.394	4.087	0.5550
-216	5.454	5.221	4.977	4.726	4.416	0.1829	-154	5.193	4.947	4.687	4.394	4.097	0.5769
-215	5.453	5.212	4.955	4.691	4.369	0.1933	-153	5.182	4.941	4.683	4.395	4.103	0.5903
-214	5.449	5.199	4.930	4.647	4.312	0.1914	-152	5.172	4.936	4.680	4.397	4.105	0.6017
-213	5.441	5.184	4.903	4.600	4.250	0.1657	-151	5.164	4.933	4.676	4.395	4.103	0.6080
-212	5.431	5.167	4.876	4.555	4.189	0.1243	-150	5.158	4.930	4.670	4.388	4.095	0.6025
-211	5.419	5.150	4.849	4.515	4.136	0.0682	-149	5.156	4.925	4.663	4.378	4.082	0.5999
-210	5.405	5.134	4.824	4.485	4.095	-0.0044	-148	5.156	4.920	4.655	4.368	4.064	0.6025
-209	5.391	5.120	4.805	4.465	4.070	-0.1055	-147	5.158	4.917	4.647	4.358	4.044	0.6075
-208	5.375	5.106	4.791	4.456	4.063	-0.2152	-146	5.162	4.916	4.643	4.348	4.022	0.6225
-207	5.360	5.093	4.785	4.455	4.074	-0.3206	-145	5.169	4.918	4.642	4.336	4.002	0.6468
-206	5.345	5.082	4.783	4.461	4.100	-0.4127	-144	5.179	4.923	4.644	4.324	3.984	0.6619
-205	5.331	5.073	4.785	4.474	4.134	-0.4752	-143	5.193	4.929	4.649	4.315	3.968	0.6755
-204	5.318	5.067	4.790	4.493	4.170	-0.4941	-142	5.210	4.938	4.654	4.312	3.957	0.6823
-203	5.308	5.063	4.798	4.513	4.203	-0.4821	-141	5.229	4.951	4.662	4.318	3.953	0.6833
-202	5.299	5.060	4.805	4.531	4.232	-0.4569	-140	5.250	4.971	4.676	4.332	3.960	0.6854
-201	5.291	5.056	4.808	4.542	4.252	-0.4269	-139	5.271	4.996	4.700	4.355	3.981	0.6976
-200	5.281	5.047	4.805	4.547	4.262	-0.4069	-138	5.293	5.025	4.731	4.386	4.019	0.7059
-199	5.266	5.035	4.794	4.543	4.258	-0.3912	-137	5.316	5.054	4.766	4.425	4.068	0.7180
-198	5.245	5.018	4.777	4.529	4.242	-0.3704	-136	5.340	5.081	4.802	4.473	4.126	0.7281
-197	5.222	4.999	4.753	4.502	4.216	-0.3553	-135	5.364	5.108	4.836	4.527	4.189	0.7308
-196	5.198	4.975	4.723	4.463	4.177	-0.3444	-134	5.388	5.136	4.872	4.582	4.255	0.7268
-195	5.175	4.945	4.688	4.414	4.124	-0.3281	-133	5.411	5.165	4.909	4.634	4.321	0.7199
-194	5.153	4.912	4.648	4.359	4.057	-0.3158	-132	5.431	5.194	4.944	4.680	4.382	0.7159
-193	5.133	4.878	4.607	4.301	3.978	-0.3226	-131	5.446	5.218	4.974	4.716	4.430	0.7030
-192	5.116	4.847	4.568	4.244	3.894	-0.3391	-130	5.453	5.234	4.994	4.743	4.463	0.6830
-191	5.103	4.823	4.532	4.192	3.816	-0.3818	-129	5.452	5.241	5.003	4.758	4.478	0.6439
-190	5.095	4.809	4.502	4.150	3.749	-0.4083	-128	5.445	5.236	5.001	4.760	4.479	0.5780
-189	5.092	4.805	4.482	4.122	3.702	-0.4020	-127	5.433	5.222	4.990	4.747	4.466	0.4694
-188	5.095	4.809	4.475	4.113	3.679	-0.3660	-126	5.414	5.200	4.966	4.719	4.439	0.3074
-187	5.104	4.821	4.482	4.122	3.684	-0.3037	-125	5.387	5.170	4.929	4.676	4.392	0.0985
-186	5.118	4.838	4.502	4.147	3.715	-0.2075	-124	5.354	5.131	4.880	4.619	4.326	-0.1130
-185	5.137	4.862	4.534	4.187	3.773	-0.1275	-123	5.317	5.085	4.822	4.551	4.244	-0.3197
-184	5.160	4.892	4.576	4.239	3.849	-0.0771	-122	5.277	5.035	4.760	4.474	4.150	-0.4998
-183	5.186	4.929	4.625	4.300	3.936	-0.0367	-121	5.238	4.983	4.697	4.392	4.049	-0.6277
-182	5.215	4.971	4.680	4.367	4.026	0.0027	-120	5.199	4.933	4.635	4.308	3.946	-0.6996
-181	5.247	5.013	4.734	4.435	4.112	0.0528	-119	5.164	4.886	4.575	4.228	3.846	-0.7409
-180	5.279	5.053	4.785	4.501	4.190	0.1135	-118	5.133	4.845	4.522	4.159	3.759	-0.7400
-179	5.311	5.087	4.830	4.559	4.257	0.1814	-117	5.108	4.812	4.481	4.108	3.693	-0.7101
-178	5.340	5.118	4.869	4.607	4.314	0.2543	-116	5.089	4.790	4.456	4.079	3.656	-0.6619
-177	5.366	5.145	4.901	4.643	4.359	0.3266	-115	5.076	4.780	4.449	4.076	3.651	-0.6028
-176	5.385	5.169	4.927	4.666	4.393	0.3814	-114	5.072	4.783	4.457	4.094	3.677	-0.5367
-175	5.399	5.187	4.943	4.678	4.415	0.4161	-113	5.076	4.798	4.479	4.132	3.730	-0.4807
-174	5.406	5.199	4.950	4.684	4.423	0.4428	-112	5.090	4.822	4.511	4.184	3.805	-0.4397
-173	5.409	5.204	4.947	4.683	4.414	0.4572	-111	5.110	4.854	4.552	4.245	3.891	-0.4057
-172	5.409	5.201	4.938	4.674	4.393	0.4497	-110	5.135	4.889	4.599	4.311	3.979	-0.3665
-171	5.406	5.191	4.925	4.658	4.362	0.4329	-109	5.162	4.924	4.648	4.376	4.061	-0.3249
-170	5.399	5.175	4.908	4.633	4.323	0.4215	-108	5.192	4.957	4.695	4.434	4.131	-0.2839
-169	5.391	5.157	4.887	4.602	4.280	0.4166	-107	5.219	4.987	4.738	4.480	4.185	-0.2441
-168	5.381	5.138	4.865	4.570	4.234	0.4227	-106	5.243	5.014	4.773	4.512	4.225	-0.2126
-167	5.371	5.119	4.842	4.539	4.188	0.4287	-105	5.263	5.037	4.800	4.534	4.252	-0.1932
-166	5.360	5.099	4.821	4.511	4.145	0.4208	-104	5.282	5.057	4.816	4.547	4.269	-0.1929
-165	5.348	5.080	4.799	4.484	4.110	0.3987	-103	5.299	5.071	4.824	4.553	4.274	-0.2015
-164	5.333	5.062	4.776	4.456	4.082	0.3526	-102	5.314	5.081	4.828	4.552	4.266	-0.2184
-163	5.317	5.045	4.755	4.428	4.061	0.3154	-101	5.326	5.087	4.829	4.543	4.245	-0.2412
-162	5.301	5.029	4.738	4.405	4.046	0.3012	-100	5.336	5.092	4.828	4.528	4.217	-0.2779
-161	5.282	5.013	4.726	4.391	4.035	0.3114	-99	5.345	5.095	4.825	4.512	4.187	-0.3073
-160	5.264	4.997	4.717	4.385	4.029	0.3450	-98	5.355	5.098	4.822	4.499	4.161	-0.3114
-159	5.246	4.983	4.708	4.386	4.030	0.4017	-97	5.366	5.102	4.820	4.492	4.141	-0.2971
-158	5.232	4.974	4.701	4.390	4.039	0.4486	-96	5.376	5.108	4.820	4.491	4.129	-0.2645
-157	5.222	4.967	4.695	4.393	4.055	0.4854	-95	5.386	5.115	4.823	4.496	4.126	-0.2141
-156	5.212	4.960	4.692	4.394	4.073	0.5229	-94	5.395	5.124	4.829	4.507	4.132	-0.1614

-93	5.402	5.134	4.841	4.523	4.149	-0.1259	-31	5.110	4.859	4.592	4.275	3.960	0.5636
-92	5.407	5.144	4.855	4.544	4.177	-0.0928	-30	5.099	4.842	4.574	4.252	3.929	0.5570
-91	5.410	5.152	4.872	4.568	4.212	-0.0672	-29	5.092	4.830	4.559	4.234	3.899	0.5624
-90	5.411	5.158	4.889	4.592	4.249	-0.0427	-28	5.089	4.823	4.546	4.219	3.873	0.5784
-89	5.410	5.161	4.904	4.613	4.286	-0.0310	-27	5.089	4.822	4.537	4.206	3.853	0.6071
-88	5.407	5.163	4.914	4.631	4.317	-0.0258	-26	5.093	4.826	4.533	4.198	3.841	0.6433
-87	5.402	5.163	4.917	4.644	4.340	-0.0285	-25	5.103	4.836	4.539	4.200	3.837	0.6820
-86	5.395	5.160	4.913	4.650	4.354	-0.0295	-24	5.120	4.851	4.553	4.213	3.842	0.7040
-85	5.385	5.154	4.904	4.648	4.355	-0.0411	-23	5.142	4.871	4.573	4.237	3.859	0.7217
-84	5.371	5.142	4.891	4.636	4.345	-0.0585	-22	5.168	4.897	4.599	4.271	3.889	0.7349
-83	5.352	5.124	4.875	4.614	4.324	-0.1051	-21	5.196	4.928	4.630	4.312	3.934	0.7569
-82	5.327	5.100	4.851	4.582	4.293	-0.1512	-20	5.226	4.963	4.666	4.358	3.991	0.7813
-81	5.298	5.071	4.819	4.542	4.252	-0.1842	-19	5.255	5.002	4.708	4.407	4.057	0.8002
-80	5.268	5.038	4.781	4.496	4.200	-0.2002	-18	5.284	5.039	4.752	4.458	4.123	0.8190
-79	5.238	5.003	4.738	4.446	4.139	-0.1912	-17	5.313	5.074	4.795	4.508	4.186	0.8252
-78	5.208	4.967	4.693	4.392	4.072	-0.1381	-16	5.343	5.105	4.836	4.556	4.245	0.8184
-77	5.179	4.931	4.647	4.336	4.005	-0.0675	-15	5.372	5.133	4.874	4.599	4.297	0.7796
-76	5.152	4.898	4.603	4.282	3.939	0.0027	-14	5.397	5.160	4.907	4.636	4.339	0.7183
-75	5.128	4.868	4.564	4.233	3.878	0.0662	-13	5.417	5.183	4.933	4.663	4.371	0.6161
-74	5.108	4.844	4.532	4.192	3.823	0.1340	-12	5.429	5.198	4.950	4.680	4.391	0.4682
-73	5.093	4.825	4.510	4.163	3.778	0.1914	-11	5.436	5.205	4.959	4.688	4.402	0.2926
-72	5.081	4.812	4.496	4.147	3.751	0.2365	-10	5.438	5.206	4.959	4.688	4.404	0.0933
-71	5.075	4.805	4.489	4.142	3.743	0.2799	-9	5.437	5.202	4.953	4.679	4.394	-0.1088
-70	5.074	4.804	4.490	4.150	3.755	0.3287	-8	5.431	5.194	4.942	4.660	4.372	-0.2890
-69	5.080	4.811	4.500	4.168	3.784	0.3644	-7	5.418	5.180	4.924	4.634	4.338	-0.4223
-68	5.092	4.825	4.519	4.193	3.824	0.3887	-6	5.400	5.159	4.902	4.603	4.297	-0.5318
-67	5.110	4.847	4.546	4.226	3.871	0.4136	-5	5.378	5.134	4.876	4.569	4.252	-0.6522
-66	5.131	4.872	4.579	4.264	3.921	0.4339	-4	5.357	5.107	4.847	4.534	4.206	-0.6873
-65	5.156	4.898	4.615	4.307	3.973	0.4424	-3	5.335	5.081	4.816	4.499	4.162	-0.7613
-64	5.180	4.924	4.652	4.351	4.024	0.4458	-2	5.317	5.059	4.787	4.467	4.125	-0.8601
-63	5.204	4.952	4.688	4.395	4.075	0.4470	-1	5.304	5.043	4.765	4.442	4.096	-0.8381
-62	5.229	4.982	4.724	4.434	4.122	0.4319	0	5.294	5.031	4.748	4.424	4.075	-0.7627
-61	5.255	5.014	4.759	4.471	4.165	0.4024							
-60	5.281	5.045	4.791	4.505	4.201	0.3756							
-59	5.307	5.072	4.820	4.535	4.232	0.3561							
-58	5.331	5.094	4.842	4.562	4.257	0.3447							
-57	5.352	5.114	4.860	4.583	4.277	0.3401							
-56	5.371	5.131	4.876	4.598	4.293	0.3411							
-55	5.389	5.145	4.891	4.611	4.303	0.3413							
-54	5.405	5.158	4.906	4.619	4.310	0.3370							
-53	5.417	5.170	4.919	4.624	4.314	0.3198							
-52	5.427	5.180	4.929	4.626	4.315	0.3007							
-51	5.433	5.189	4.934	4.627	4.315	0.2910							
-50	5.437	5.196	4.935	4.627	4.313	0.2886							
-49	5.439	5.199	4.932	4.624	4.308	0.2955							
-48	5.437	5.197	4.923	4.617	4.300	0.3247							
-47	5.431	5.190	4.911	4.609	4.290	0.3624							
-46	5.423	5.178	4.896	4.601	4.278	0.3931							
-45	5.412	5.164	4.881	4.593	4.265	0.4159							
-44	5.398	5.148	4.867	4.582	4.250	0.4274							
-43	5.380	5.128	4.855	4.567	4.234	0.4297							
-42	5.357	5.106	4.841	4.548	4.217	0.4302							
-41	5.331	5.083	4.824	4.526	4.200	0.4346							
-40	5.305	5.061	4.804	4.505	4.180	0.4405							
-39	5.281	5.039	4.781	4.484	4.161	0.4439							
-38	5.259	5.019	4.756	4.463	4.140	0.4513							
-37	5.237	4.999	4.732	4.441	4.119	0.4640							
-36	5.215	4.975	4.706	4.417	4.097	0.4756							
-35	5.192	4.950	4.680	4.392	4.074	0.4933							
-34	5.169	4.923	4.656	4.363	4.048	0.5236							
-33	5.147	4.899	4.632	4.333	4.021	0.5491							
-32	5.127	4.878	4.611	4.302	3.991	0.5633							

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