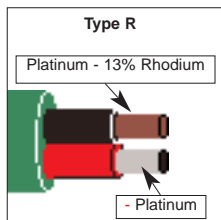




Technical Information Data Bulletin

Type R/S Thermocouple Platinum-Rhodium

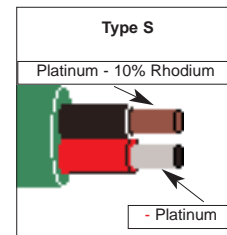
TEMPERATURE & PROCESS INSTRUMENTS - INC.



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: 32 to 2642°F
-0 to 1400°C
Extension Grade: 32 to 392°F
0 to 200°C

Maximum Thermocouple Grade
Temperature Range
-58 to 3214°F
-50 to 1768°C
Accuracy: Standard: 1.7°C or 0.5%
Special: 1.0°C or 0.4%



Recommended Applications:

Oxidizing or Inert Environments Beware of Contamination. High Temperature Applications

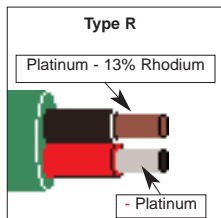
Temp	0	1	2	3	4	5	6	7	8	9
400	1.5080	1.5129	1.5179	1.5228	1.5278	1.5327	1.5377	1.5427	1.5476	1.5526
410	1.5576	1.5625	1.5675	1.5725	1.5775	1.5825	1.5874	1.5924	1.5974	1.6024
420	1.6074	1.6124	1.6174	1.6225	1.6275	1.6325	1.6375	1.6425	1.6476	1.6526
430	1.6576	1.6627	1.6677	1.6727	1.6778	1.6828	1.6879	1.6929	1.6980	1.7031
440	1.7081	1.7132	1.7183	1.7233	1.7284	1.7335	1.7386	1.7437	1.7487	1.7538
450	1.7589	1.7640	1.7691	1.7742	1.7793	1.7844	1.7896	1.7947	1.7998	1.8049
460	1.8100	1.8152	1.8203	1.8254	1.8305	1.8357	1.8408	1.8460	1.8511	1.8563
470	1.8614	1.8666	1.8717	1.8769	1.8820	1.8872	1.8924	1.8975	1.9027	1.9079
480	1.9131	1.9183	1.9234	1.9286	1.9338	1.9390	1.9442	1.9494	1.9546	1.9598
490	1.9650	1.9702	1.9754	1.9806	1.9859	1.9911	1.9963	2.0015	2.0068	2.0120
500	2.0172	2.0225	2.0277	2.0329	2.0382	2.0434	2.0487	2.0539	2.0592	2.0644
510	2.0697	2.0749	2.0802	2.0855	2.0907	2.0960	2.1013	2.1066	2.1118	2.1171
520	2.1224	2.1277	2.1330	2.1383	2.1436	2.1489	2.1542	2.1595	2.1648	2.1701
530	2.1754	2.1807	2.1860	2.1913	2.1967	2.2020	2.2073	2.2126	2.2180	2.2233
540	2.2286	2.2340	2.2393	2.2446	2.2500	2.2553	2.2607	2.2660	2.2714	2.2767
550	2.2821	2.2875	2.2928	2.2982	2.3035	2.3089	2.3143	2.3197	2.3250	2.3304
560	2.3358	2.3412	2.3466	2.3520	2.3573	2.3627	2.3681	2.3735	2.3789	2.3843
570	2.3897	2.3951	2.4006	2.4060	2.4114	2.4168	2.4222	2.4276	2.4331	2.4385
580	2.4439	2.4493	2.4548	2.4602	2.4656	2.4711	2.4765	2.4820	2.4874	2.4929
590	2.4983	2.5038	2.5092	2.5147	2.5201	2.5256	2.5310	2.5365	2.5420	2.5474
600	2.5529	2.5584	2.5639	2.5693	2.5748	2.5803	2.5858	2.5913	2.5968	2.6023
610	2.6078	2.6132	2.6187	2.6242	2.6297	2.6352	2.6408	2.6463	2.6518	2.6573
620	2.6628	2.6683	2.6738	2.6793	2.6849	2.6904	2.6959	2.7014	2.7070	2.7125
630	2.7180	2.7236	2.7291	2.7347	2.7402	2.7457	2.7513	2.7568	2.7624	2.7679
640	2.7735	2.7791	2.7846	2.7902	2.7957	2.8013	2.8069	2.8124	2.8180	2.8236
650	2.8292	2.8347	2.8403	2.8459	2.8515	2.8571	2.8627	2.8682	2.8738	2.8794
660	2.8850	2.8906	2.8962	2.9018	2.9074	2.9130	2.9186	2.9242	2.9298	2.9355
670	2.9411	2.9467	2.9523	2.9579	2.9635	2.9692	2.9748	2.9804	2.9860	2.9917
680	2.9973	3.0029	3.0086	3.0142	3.0199	3.0255	3.0312	3.0368	3.0424	3.0481
690	3.0537	3.0594	3.0651	3.0707	3.0764	3.0820	3.0877	3.0934	3.0990	3.1047
700	3.1104	3.1160	3.1217	3.1274	3.1331	3.1387	3.1444	3.1501	3.1558	3.1615
710	3.1672	3.1729	3.1786	3.1842	3.1899	3.1956	3.2013	3.2070	3.2127	3.2184
720	3.2242	3.2299	3.2356	3.2413	3.2470	3.2527	3.2584	3.2641	3.2699	3.2756
730	3.2813	3.2870	3.2928	3.2985	3.3042	3.3100	3.3157	3.3214	3.3272	3.3329
740	3.3387	3.3444	3.3501	3.3559	3.3616	3.3674	3.3731	3.3789	3.3847	3.3904
750	3.3962	3.4019	3.4077	3.4135	3.4192	3.4250	3.4308	3.4365	3.4423	3.4481
760	3.4539	3.4596	3.4654	3.4712	3.4770	3.4828	3.4885	3.4943	3.5001	3.5059
770	3.5117	3.5175	3.5233	3.5291	3.5349	3.5407	3.5465	3.5523	3.5581	3.5639
780	3.5697	3.5755	3.5814	3.5872	3.5930	3.5988	3.6046	3.6104	3.6163	3.6221
790	3.6279	3.6337	3.6396	3.6454	3.6512	3.6571	3.6629	3.6687	3.6746	3.6804
800	3.6863	3.6921	3.6980	3.7038	3.7097	3.7155	3.7214	3.7272	3.7331	3.7389
810	3.7448	3.7506	3.7565	3.7624	3.7682	3.7741	3.7800	3.7858	3.7917	3.7976
820	3.8035	3.8093	3.8152	3.8211	3.8270	3.8329	3.8387	3.8446	3.8505	3.8564
830	3.8623	3.8682	3.8741	3.8800	3.8859	3.8918	3.8977	3.9036	3.9095	3.9154
840	3.9213	3.9272	3.9331	3.9390	3.9449	3.9508	3.9568	3.9627	3.9686	3.9745
850	3.9804	3.9864	3.9923	3.9982	4.0041	4.0101	4.0160	4.0219	4.0279	4.0338
860	4.0398	4.0457	4.0516	4.0576	4.0635	4.0695	4.0754	4.0814	4.0873	4.0933
870	4.0992	4.1052	4.1111	4.1171	4.1230	4.1290	4.1350	4.1409	4.1469	4.1529



Technical Information Data Bulletin

Type R/S Thermocouple Platinum-Rhodium

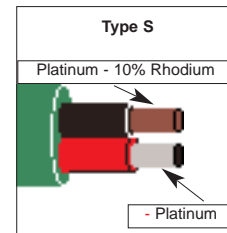
TEMPERATURE & PROCESS INSTRUMENTS - INC.



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: 32 to 2642°F
 -0 to 1400°C
Extension Grade: 32 to 392°F
 0 to 200°C

Maximum Thermocouple Grade Temperature Range
 -58 to 3214°F
 -50 to 1768°C
Accuracy: Standard: 1.7°C or 0.5%
 Special: 1.0°C or 0.4%



Recommended Applications:

Oxidizing or Inert Environments Beware of Contamination. High Temperature Applications

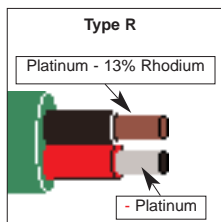
Temp	0	1	2	3	4	5	6	7	8	9
880	4.1588	4.1648	4.1708	4.1767	4.1827	4.1887	4.1947	4.2006	4.2066	4.2126
890	4.2186	4.2246	4.2306	4.2366	4.2425	4.2485	4.2545	4.2605	4.2665	4.2725
900	4.2785	4.2845	4.2905	4.2965	4.3025	4.3085	4.3145	4.3205	4.3266	4.3326
910	4.3386	4.3446	4.3506	4.3566	4.3627	4.3687	4.3747	4.3807	4.3867	4.3928
920	4.3988	4.4048	4.4109	4.4169	4.4229	4.4290	4.4350	4.4410	4.4471	4.4531
930	4.4592	4.4652	4.4713	4.4773	4.4834	4.4894	4.4955	4.5015	4.5076	4.5136
940	4.5197	4.5258	4.5318	4.5379	4.5439	4.5500	4.5561	4.5621	4.5682	4.5743
950	4.5804	4.5864	4.5925	4.5986	4.6047	4.6107	4.6168	4.6229	4.6290	4.6351
960	4.6412	4.6473	4.6534	4.6594	4.6655	4.6716	4.6777	4.6838	4.6899	4.6960
970	4.7021	4.7082	4.7143	4.7204	4.7266	4.7327	4.7388	4.7449	4.7510	4.7571
980	4.7632	4.7694	4.7755	4.7816	4.7877	4.7938	4.8000	4.8061	4.8122	4.8184
990	4.8245	4.8306	4.8368	4.8429	4.8490	4.8552	4.8613	4.8675	4.8736	4.8797
1000	4.8859	4.8920	4.8982	4.9043	4.9105	4.9166	4.9228	4.9290	4.9351	4.9413
1010	4.9474	4.9536	4.9598	4.9659	4.9721	4.9783	4.9844	4.9906	4.9968	5.0029
1020	5.0091	5.0153	5.0215	5.0277	5.0338	5.0400	5.0462	5.0524	5.0586	5.0648
1030	5.0710	5.0771	5.0833	5.0895	5.0957	5.1019	5.1081	5.1143	5.1205	5.1267
1040	5.1329	5.1391	5.1453	5.1516	5.1578	5.1640	5.1702	5.1764	5.1826	5.1888
1050	5.1951	5.2013	5.2075	5.2137	5.2199	5.2262	5.2324	5.2386	5.2449	5.2511
1060	5.2573	5.2636	5.2698	5.2760	5.2823	5.2885	5.2948	5.3010	5.3072	5.3135
1070	5.3197	5.3260	5.3322	5.3385	5.3447	5.3510	5.3573	5.3635	5.3698	5.3760
1080	5.3823	5.3886	5.3948	5.4011	5.4074	5.4136	5.4199	5.4262	5.4324	5.4387
1090	5.4450	5.4513	5.4576	5.4638	5.4701	5.4764	5.4827	5.4890	5.4953	5.5016
1100	5.5078	5.5141	5.5204	5.5267	5.5330	5.5393	5.5456	5.5519	5.5582	5.5645
1110	5.5708	5.5771	5.5835	5.5898	5.5961	5.6024	5.6087	5.6150	5.6213	5.6277
1120	5.6340	5.6403	5.6466	5.6529	5.6593	5.6656	5.6719	5.6783	5.6846	5.6909
1130	5.6973	5.7036	5.7099	5.7163	5.7226	5.7290	5.7353	5.7416	5.7480	5.7543
1140	5.7607	5.7670	5.7734	5.7797	5.7861	5.7925	5.7988	5.8052	5.8115	5.8179
1150	5.8243	5.8306	5.8370	5.8434	5.8497	5.8561	5.8625	5.8688	5.8752	5.8816
1160	5.8880	5.8944	5.9007	5.9071	5.9135	5.9199	5.9263	5.9327	5.9391	5.9454
1170	5.9518	5.9582	5.9646	5.9710	5.9774	5.9838	5.9902	5.9966	6.0030	6.0094
1180	6.0158	6.0223	6.0287	6.0351	6.0415	6.0479	6.0543	6.0607	6.0672	6.0736
1190	6.0800	6.0864	6.0928	6.0993	6.1057	6.1121	6.1186	6.1250	6.1314	6.1379
1200	6.1443	6.1507	6.1572	6.1636	6.1701	6.1765	6.1829	6.1894	6.1958	6.2023
1210	6.2087	6.2152	6.2216	6.2281	6.2346	6.2410	6.2475	6.2539	6.2604	6.2669
1220	6.2733	6.2798	6.2863	6.2927	6.2992	6.3057	6.3122	6.3186	6.3251	6.3316
1230	6.3381	6.3446	6.3510	6.3575	6.3640	6.3705	6.3770	6.3835	6.3900	6.3965
1240	6.4030	6.4095	6.4159	6.4224	6.4290	6.4355	6.4420	6.4485	6.4550	6.4615
1250	6.4680	6.4745	6.4810	6.4875	6.4940	6.5006	6.5071	6.5136	6.5201	6.5266
1260	6.5332	6.5397	6.5462	6.5527	6.5593	6.5658	6.5723	6.5789	6.5854	6.5920
1270	6.5985	6.6050	6.6116	6.6181	6.6247	6.6312	6.6378	6.6443	6.6509	6.6574
1280	6.6640	6.6705	6.6771	6.6836	6.6902	6.6968	6.7033	6.7099	6.7165	6.7230
1290	6.7296	6.7362	6.7427	6.7493	6.7559	6.7625	6.7690	6.7756	6.7822	6.7888
1300	6.7954	6.8019	6.8085	6.8151	6.8217	6.8283	6.8349	6.8415	6.8481	6.8547
1310	6.8613	6.8679	6.8745	6.8811	6.8877	6.8943	6.9009	6.9075	6.9141	6.9207
1320	6.9273	6.9340	6.9406	6.9472	6.9538	6.9604	6.9671	6.9737	6.9803	6.9869
1330	6.9936	7.0002	7.0068	7.0134	7.0201	7.0267	7.0334	7.0400	7.0466	7.0533
1340	7.0599	7.0666	7.0732	7.0799	7.0865	7.0932	7.0998	7.1065	7.1131	7.1198
1350	7.1264	7.1331	7.1397	7.1464	7.1531	7.1597	7.1664	7.1731	7.1797	7.1864



Technical Information Data Bulletin

Type R/S Thermocouple Platinum-Rhodium

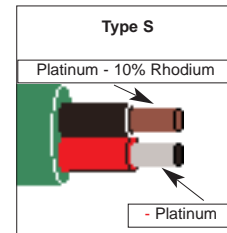
TEMPERATURE & PROCESS INSTRUMENTS - INC.



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
Maximum Useful Temperature Range:
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Maximum Thermocouple Grade
Temperature Range
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Accuracy: Standard: 1.7°C or 0.5%
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Recommended Applications:

Oxidizing or Inert Environments Beware of Contamination. High Temperature Applications

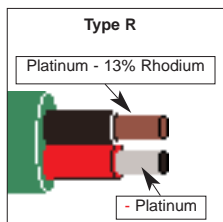
Temp	0	1	2	3	4	5	6	7	8	9
1360	7.1931	7.1998	7.2064	7.2131	7.2198	7.2265	7.2332	7.2398	7.2465	7.2532
1370	7.2599	7.2666	7.2733	7.2800	7.2867	7.2934	7.3001	7.3067	7.3134	7.3201
1380	7.3269	7.3336	7.3403	7.3470	7.3537	7.3604	7.3671	7.3738	7.3805	7.3872
1390	7.3940	7.4007	7.4074	7.4141	7.4208	7.4276	7.4343	7.4410	7.4478	7.4545
1400	7.4612	7.4679	7.4747	7.4814	7.4882	7.4949	7.5016	7.5084	7.5151	7.5219
1410	7.5286	7.5354	7.5421	7.5489	7.5556	7.5624	7.5691	7.5759	7.5826	7.5894
1420	7.5962	7.6029	7.6097	7.6165	7.6232	7.6300	7.6368	7.6435	7.6503	7.6571
1430	7.6639	7.6706	7.6774	7.6842	7.6910	7.6978	7.7046	7.7114	7.7181	7.7249
1440	7.7317	7.7385	7.7453	7.7521	7.7589	7.7657	7.7725	7.7793	7.7861	7.7929
1450	7.7997	7.8065	7.8133	7.8201	7.8270	7.8338	7.8406	7.8474	7.8542	7.8610
1460	7.8679	7.8747	7.8815	7.8883	7.8952	7.9020	7.9088	7.9157	7.9225	7.9293
1470	7.9362	7.9430	7.9498	7.9567	7.9635	7.9704	7.9772	7.9841	7.9909	7.9978
1480	8.0046	8.0115	8.0183	8.0252	8.0320	8.0389	8.0457	8.0526	8.0595	8.0663
1490	8.0732	8.0801	8.0869	8.0938	8.1007	8.1076	8.1144	8.1213	8.1282	8.1351
1500	8.1419	8.1488	8.1557	8.1626	8.1695	8.1764	8.1833	8.1902	8.1970	8.2039
1510	8.2108	8.2177	8.2246	8.2315	8.2384	8.2453	8.2522	8.2591	8.2661	8.2730
1520	8.2799	8.2868	8.2937	8.3006	8.3075	8.3144	8.3214	8.3283	8.3352	8.3421
1530	8.3491	8.3560	8.3629	8.3698	8.3768	8.3837	8.3906	8.3976	8.4045	8.4114
1540	8.4184	8.4253	8.4323	8.4392	8.4462	8.4531	8.4601	8.4670	8.4740	8.4809
1550	8.4879	8.4948	8.5018	8.5087	8.5157	8.5227	8.5296	8.5366	8.5436	8.5505
1560	8.5575	8.5645	8.5714	8.5784	8.5854	8.5924	8.5993	8.6063	8.6133	8.6203
1570	8.6273	8.6343	8.6412	8.6482	8.6552	8.6622	8.6692	8.6762	8.6832	8.6902
1580	8.6972	8.7042	8.7112	8.7182	8.7252	8.7322	8.7392	8.7462	8.7532	8.7602
1590	8.7672	8.7743	8.7813	8.7883	8.7953	8.8023	8.8094	8.8164	8.8234	8.8304
1600	8.8375	8.8445	8.8515	8.8585	8.8656	8.8726	8.8797	8.8867	8.8937	8.9008
1610	8.9078	8.9149	8.9219	8.9289	8.9360	8.9430	8.9501	8.9571	8.9642	8.9713
1620	8.9783	8.9854	8.9924	8.9995	9.0065	9.0136	9.0207	9.0277	9.0348	9.0419
1630	9.0490	9.0560	9.0631	9.0702	9.0772	9.0843	9.0914	9.0985	9.1056	9.1127
1640	9.1197	9.1268	9.1339	9.1410	9.1481	9.1552	9.1623	9.1694	9.1765	9.1836
1650	9.1907	9.1978	9.2049	9.2120	9.2191	9.2262	9.2333	9.2404	9.2475	9.2546
1660	9.2617	9.2689	9.2760	9.2831	9.2902	9.2973	9.3044	9.3116	9.3187	9.3258
1670	9.3330	9.3401	9.3472	9.3543	9.3615	9.3686	9.3757	9.3829	9.3900	9.3972
1680	9.4043	9.4115	9.4186	9.4257	9.4329	9.4400	9.4472	9.4543	9.4615	9.4686
1690	9.4758	9.4830	9.4901	9.4973	9.5044	9.5116	9.5188	9.5259	9.5331	9.5403
1700	9.5474	9.5546	9.5618	9.5690	9.5761	9.5833	9.5905	9.5977	9.6049	9.6120
1710	9.6192	9.6264	9.6336	9.6408	9.6480	9.6552	9.6624	9.6695	9.6767	9.6839
1720	9.6911	9.6983	9.7055	9.7127	9.7199	9.7271	9.7344	9.7416	9.7488	9.7560
1730	9.7632	9.7704	9.7776	9.7848	9.7921	9.7993	9.8065	9.8137	9.8209	9.8282
1740	9.8354	9.8426	9.8498	9.8571	9.8643	9.8715	9.8788	9.8860	9.8932	9.9005
1750	9.9077	9.9150	9.9222	9.9294	9.9367	9.9439	9.9512	9.9584	9.9657	9.9729
1760	9.9802	9.9874	9.9947	10.0020	10.0092	10.0165	10.0237	10.0310	10.0383	10.0455
1770	10.0528	10.0601	10.0673	10.0746	10.0819	10.0891	10.0964	10.1037	10.1110	10.1183
1780	10.1255	10.1328	10.1401	10.1474	10.1547	10.1620	10.1692	10.1765	10.1838	10.1911
1790	10.1984	10.2057	10.2130	10.2203	10.2276	10.2349	10.2422	10.2495	10.2568	10.2641
1800	10.2714	10.2787	10.2860	10.2934	10.3007	10.3080	10.3153	10.3226	10.3299	10.3372
1810	10.3446	10.3519	10.3592	10.3665	10.3739	10.3812	10.3885	10.3958	10.4032	10.4105
1820	10.4178	10.4252	10.4325	10.4399	10.4472	10.4545	10.4619	10.4692	10.4766	10.4839
1830	10.4913	10.4986	10.5060	10.5133	10.5207	10.5280	10.5354	10.5427	10.5501	10.5574
1840	10.5648	10.5722	10.5795	10.5869	10.5943	10.6016	10.6090	10.6164	10.6237	10.6311



Technical Information Data Bulletin

Type R/S Thermocouple Platinum-Rhodium

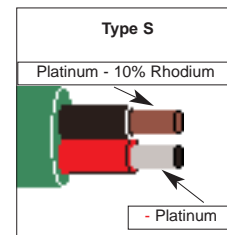
TEMPERATURE & PROCESS INSTRUMENTS - CON-



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: 32 to 2642°F
 -0 to 1400°C
Extension Grade: 32 to 392°F
 0 to 200°C

Maximum Thermocouple Grade
Temperature Range
 -58 to 3214°F
 -50 to 1768°C
Accuracy: Standard: 1.7°C or 0.5%
 Special: 1.0°C or 0.4%



Recommended Applications:

Oxidizing or Inert Environments Beware of Contamination. High Temperature Applications

Temp	0	1	2	3	4	5	6	7	8	9
1850	10.6385	10.6459	10.6532	10.6606	10.6680	10.6754	10.6827	10.6901	10.6975	10.7049
1860	10.7123	10.7197	10.7271	10.7345	10.7418	10.7492	10.7566	10.7640	10.7714	10.7788
1870	10.7862	10.7936	10.8010	10.8084	10.8158	10.8232	10.8306	10.8381	10.8455	10.8529
1880	10.8603	10.8677	10.8751	10.8825	10.8900	10.8974	10.9048	10.9122	10.9196	10.9271
1890	10.9345	10.9419	10.9493	10.9568	10.9642	10.9716	10.9791	10.9865	10.9939	11.0014
1900	11.0088	11.0162	11.0237	11.0311	11.0386	11.0460	11.0535	11.0609	11.0684	11.0758
1910	11.0833	11.0907	11.0982	11.1056	11.1131	11.1205	11.1280	11.1354	11.1429	11.1504
1920	11.1578	11.1653	11.1728	11.1802	11.1877	11.1952	11.2026	11.2101	11.2176	11.2251
1930	11.2325	11.2400	11.2475	11.2550	11.2625	11.2699	11.2774	11.2849	11.2924	11.2999
1940	11.3074	11.3149	11.3223	11.3298	11.3373	11.3448	11.3523	11.3598	11.3673	11.3748
1950	11.3823	11.3898	11.3973	11.4048	11.4123	11.4198	11.4273	11.4349	11.4424	11.4499
1960	11.4574	11.4649	11.4724	11.4799	11.4875	11.4950	11.5025	11.5100	11.5175	11.5251
1970	11.5326	11.5401	11.5476	11.5552	11.5627	11.5702	11.5778	11.5853	11.5928	11.6004
1980	11.6079	11.6154	11.6230	11.6305	11.6380	11.6456	11.6531	11.6607	11.6682	11.6758
1990	11.6833	11.6909	11.6984	11.7060	11.7135	11.7211	11.7286	11.7362	11.7437	11.7513
2000	11.7589	11.7664	11.7740	11.7815	11.7891	11.7967	11.8042	11.8118	11.8194	11.8269
2010	11.8345	11.8421	11.8496	11.8572	11.8648	11.8724	11.8799	11.8875	11.8951	11.9027
2020	11.9103	11.9178	11.9254	11.9330	11.9406	11.9482	11.9558	11.9633	11.9709	11.9785
2030	11.9861	11.9937	12.0013	12.0089	12.0165	12.0241	12.0317	12.0393	12.0469	12.0545
2040	12.0621	12.0697	12.0773	12.0849	12.0925	12.1001	12.1077	12.1153	12.1229	12.1305
2050	12.1381	12.1458	12.1534	12.1610	12.1686	12.1762	12.1838	12.1915	12.1991	12.2067
2060	12.2143	12.2219	12.2296	12.2372	12.2448	12.2524	12.2601	12.2677	12.2753	12.2829
2070	12.2906	12.2982	12.3058	12.3135	12.3211	12.3287	12.3364	12.3440	12.3517	12.3593
2080	12.3669	12.3746	12.3822	12.3899	12.3975	12.4051	12.4128	12.4204	12.4281	12.4357
2090	12.4434	12.4510	12.4587	12.4663	12.4740	12.4816	12.4893	12.4969	12.5046	12.5123
2100	12.5199	12.5276	12.5352	12.5429	12.5506	12.5582	12.5659	12.5736	12.5812	12.5889
2110	12.5965	12.6042	12.6119	12.6196	12.6272	12.6349	12.6426	12.6502	12.6579	12.6656
2120	12.6733	12.6809	12.6886	12.6963	12.7040	12.7117	12.7193	12.7270	12.7347	12.7424
2130	12.7501	12.7577	12.7654	12.7731	12.7808	12.7885	12.7962	12.8039	12.8116	12.8193
2140	12.8269	12.8346	12.8423	12.8500	12.8577	12.8654	12.8731	12.8808	12.8885	12.8962
2150	12.9039	12.9116	12.9193	12.9270	12.9347	12.9424	12.9501	12.9578	12.9655	12.9732
2160	12.9809	12.9887	12.9964	13.0041	13.0118	13.0195	13.0272	13.0349	13.0426	13.0503
2170	13.0581	13.0658	13.0735	13.0812	13.0889	13.0966	13.1044	13.1121	13.1198	13.1275
2180	13.1352	13.1430	13.1507	13.1584	13.1661	13.1739	13.1816	13.1893	13.1970	13.2048
2190	13.2125	13.2202	13.2280	13.2357	13.2434	13.2512	13.2589	13.2666	13.2744	13.2821
2200	13.2898	13.2976	13.3053	13.3130	13.3208	13.3285	13.3363	13.3440	13.3517	13.3595
2210	13.3672	13.3750	13.3827	13.3905	13.3982	13.4060	13.4137	13.4214	13.4292	13.4369
2220	13.4447	13.4524	13.4602	13.4679	13.4757	13.4834	13.4912	13.4990	13.5067	13.5145
2230	13.5222	13.5300	13.5377	13.5455	13.5532	13.5610	13.5688	13.5765	13.5843	13.5920
2240	13.5998	13.6076	13.6153	13.6231	13.6309	13.6386	13.6464	13.6541	13.6619	13.6697
2250	13.6774	13.6852	13.6930	13.7008	13.7085	13.7163	13.7241	13.7318	13.7396	13.7474
2260	13.7552	13.7629	13.7707	13.7785	13.7862	13.7940	13.8018	13.8096	13.8174	13.8251
2270	13.8329	13.8407	13.8485	13.8562	13.8640	13.8718	13.8796	13.8874	13.8952	13.9029
2280	13.9107	13.9185	13.9263	13.9341	13.9419	13.9496	13.9574	13.9652	13.9730	13.9808
2290	13.9886	13.9964	14.0042	14.0119	14.0197	14.0275	14.0353	14.0431	14.0509	14.0587
2300	14.0665	14.0743	14.0821	14.0899	14.0977	14.1055	14.1133	14.1211	14.1289	14.1367
2310	14.1444	14.1522	14.1600	14.1678	14.1756	14.1834	14.1912	14.1990	14.2068	14.2146
2320	14.2225	14.2303	14.2381	14.2459	14.2537	14.2615	14.2693	14.2771	14.2849	14.2927

