

Blog Entry © Thursday, January 1, 2026, by James Pate Williams, Jr., Win32 C/C++ Fast Battleship Class Iowa Ballistics Calculator (BB-61 Iowa, BB-62 New Jersey, BB-63 Missouri, BB-64 Wisconsin)

Rebuild started at 6:27 PM...

1>----- Rebuild All started: Project: BallisticsWin32,
Configuration: Release x64 -----

1>pch.cpp

1>BallisticsWin32.cpp

1>GreatCircleDistance.cpp

1>RK5Ballistics.cpp

1>Track.cpp

1>Vincenty.cpp

1>Generating code

1>Previous IPDB not found, fall back to full compilation.

1>All 416 functions were compiled because no usable IPDB/IOBJ
from previous compilation was found.

1>Finished generating code

1>BallisticsWin32.vcxproj ->

D:\BallisticsWin32\x64\Release\BallisticsWin32.exe

===== Rebuild All: 1 succeeded, 0 failed, 0 skipped

=====

===== Rebuild completed at 6:27 PM and took 08.272 seconds

=====

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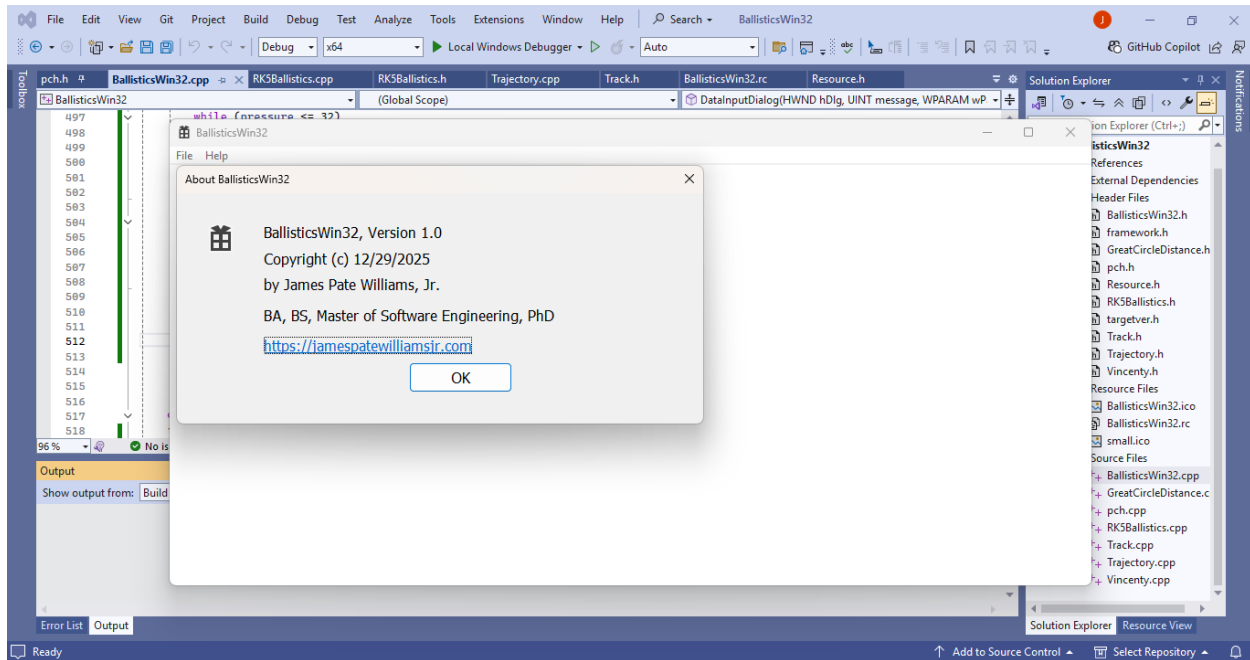
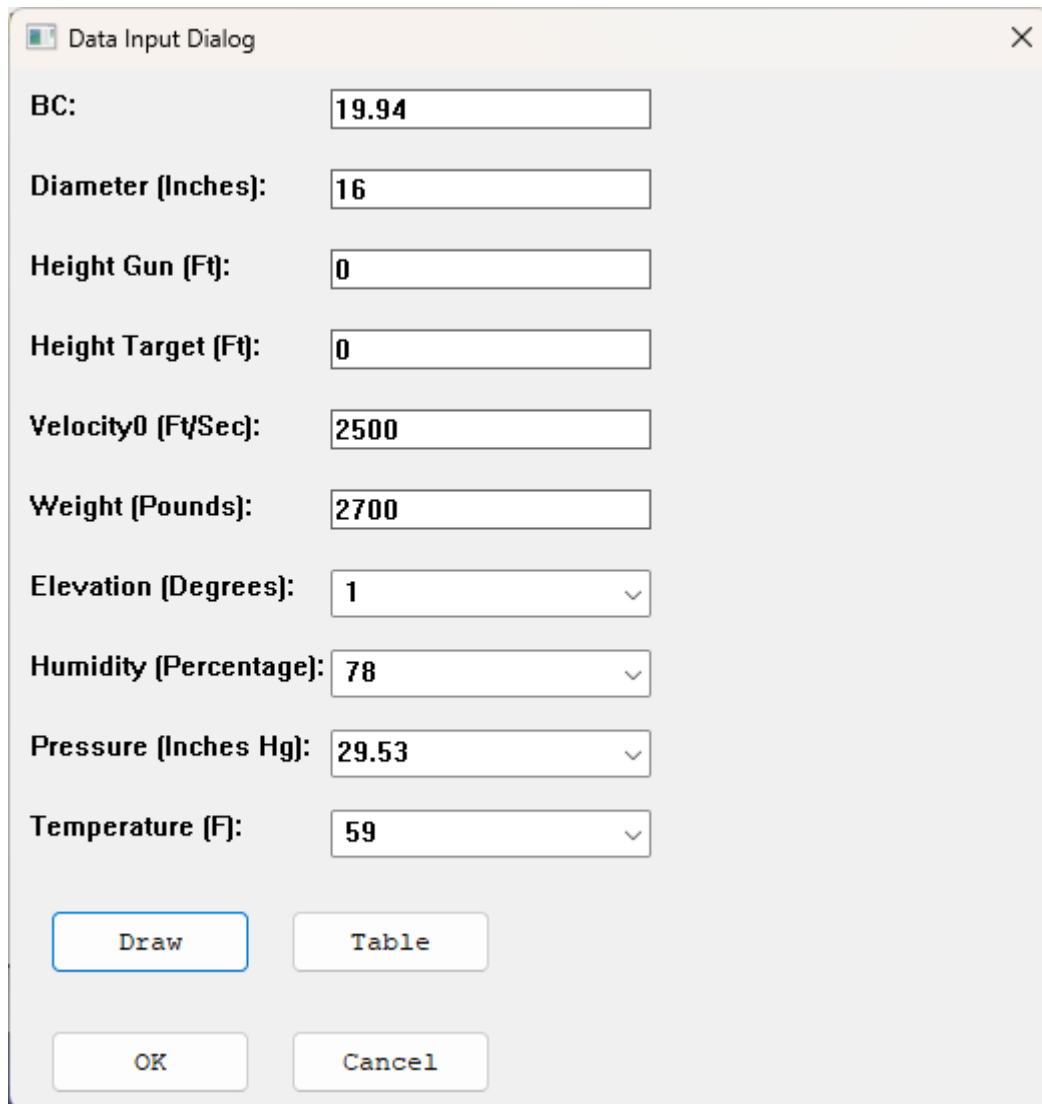


Figure 1 About Dialog Box



A screenshot of a software window titled "Data Input Dialog" with a close button (X) in the top right corner. The window contains ten input fields, each with a label and a value. The labels and values are: BC: 19.94, Diameter (Inches): 16, Height Gun (Ft): 0, Height Target (Ft): 0, Velocity0 (Ft/Sec): 2500, Weight (Pounds): 2700, Elevation (Degrees): 1, Humidity (Percentage): 78, Pressure (Inches Hg): 29.53, and Temperature (F): 59. The "Elevation", "Humidity", "Pressure", and "Temperature" fields have a dropdown arrow on the right. Below the input fields are four buttons: "Draw" (highlighted with a blue border), "Table", "OK", and "Cancel".

Label	Value
BC:	19.94
Diameter (Inches):	16
Height Gun (Ft):	0
Height Target (Ft):	0
Velocity0 (Ft/Sec):	2500
Weight (Pounds):	2700
Elevation (Degrees):	1
Humidity (Percentage):	78
Pressure (Inches Hg):	29.53
Temperature (F):	59

Buttons: Draw, Table, OK, Cancel

Figure 1 Data Input Dialog

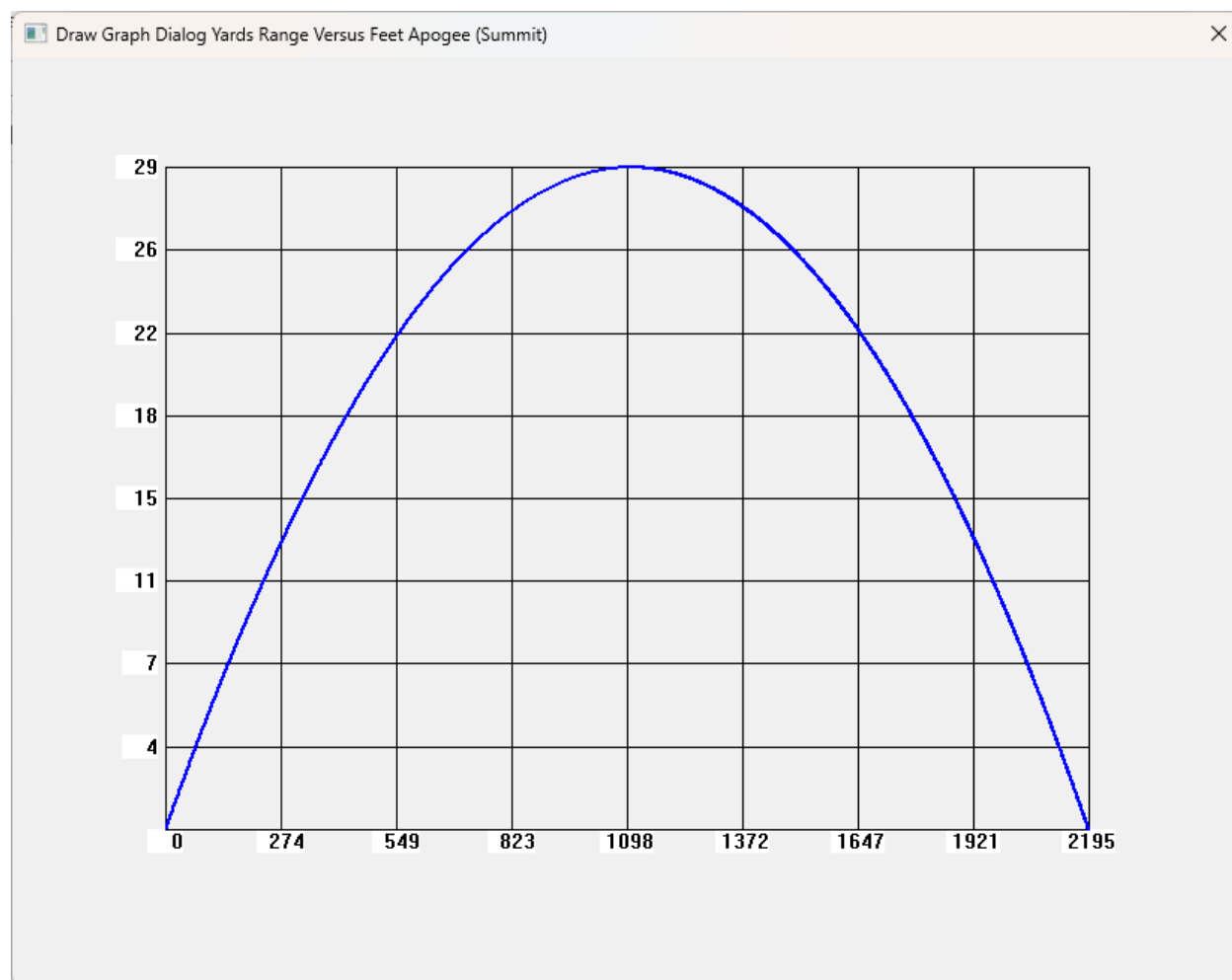


Figure 2 One Degree Elevation

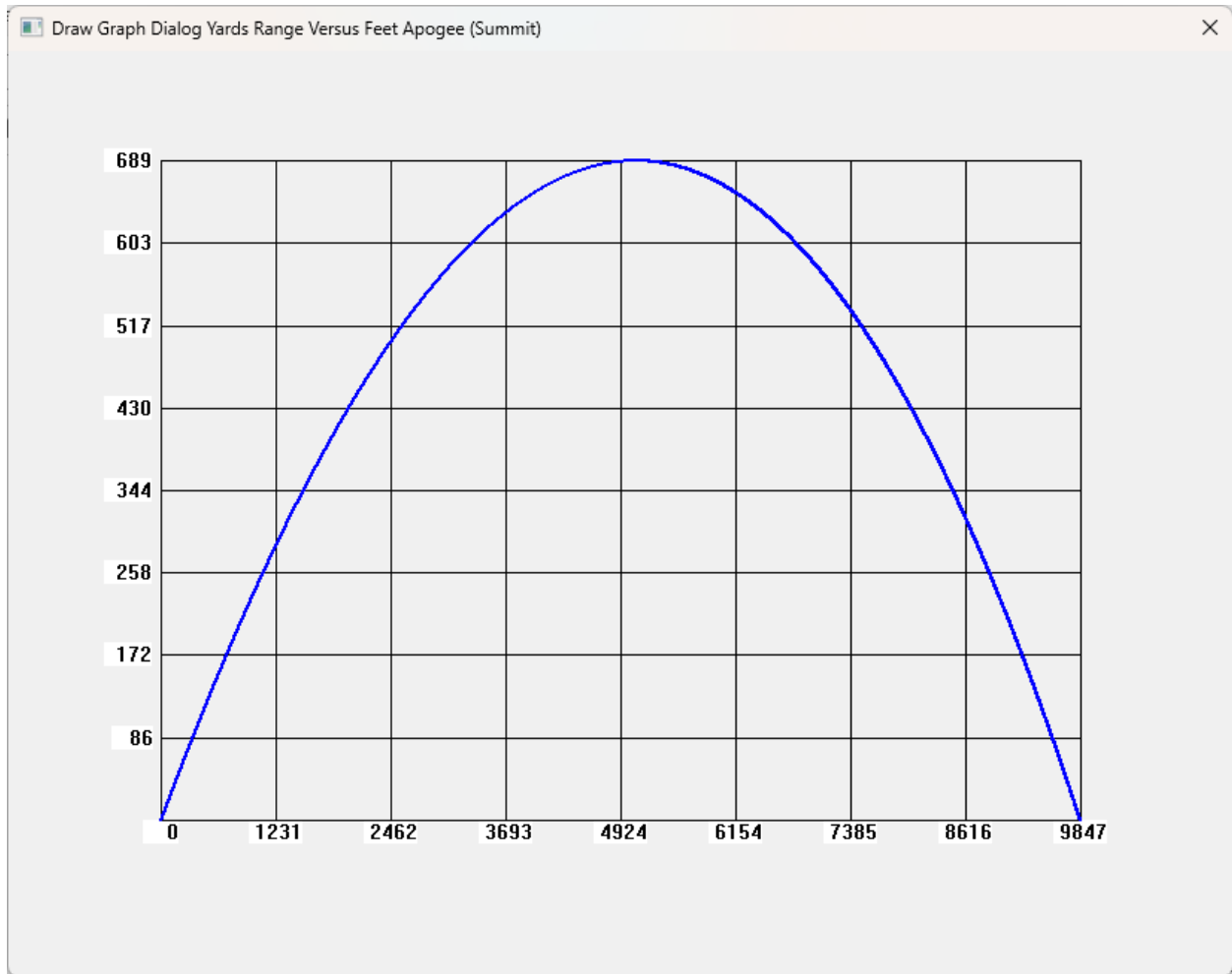


Figure 3 Five Degrees Elevation

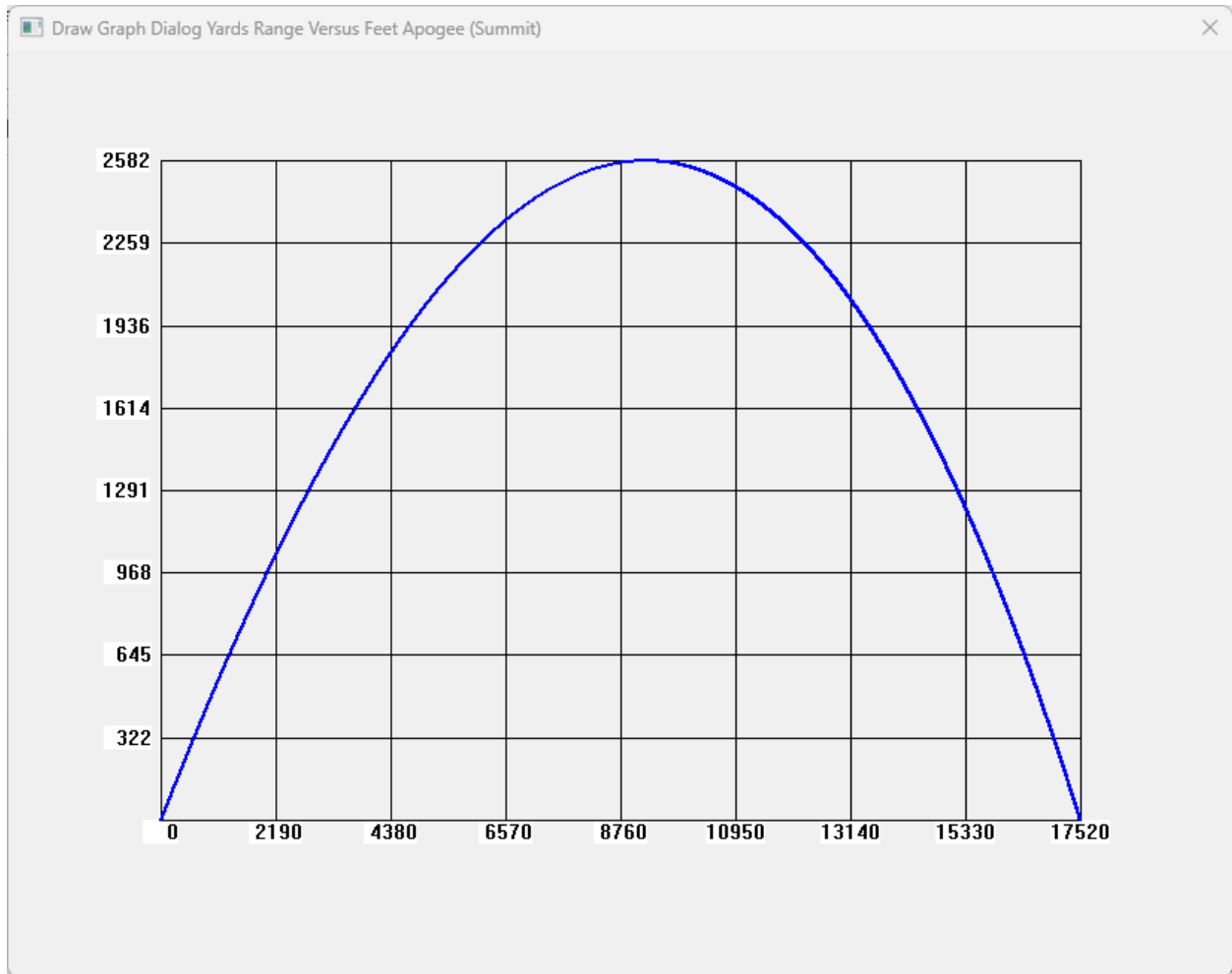


Figure 4 Ten Degrees Elevation

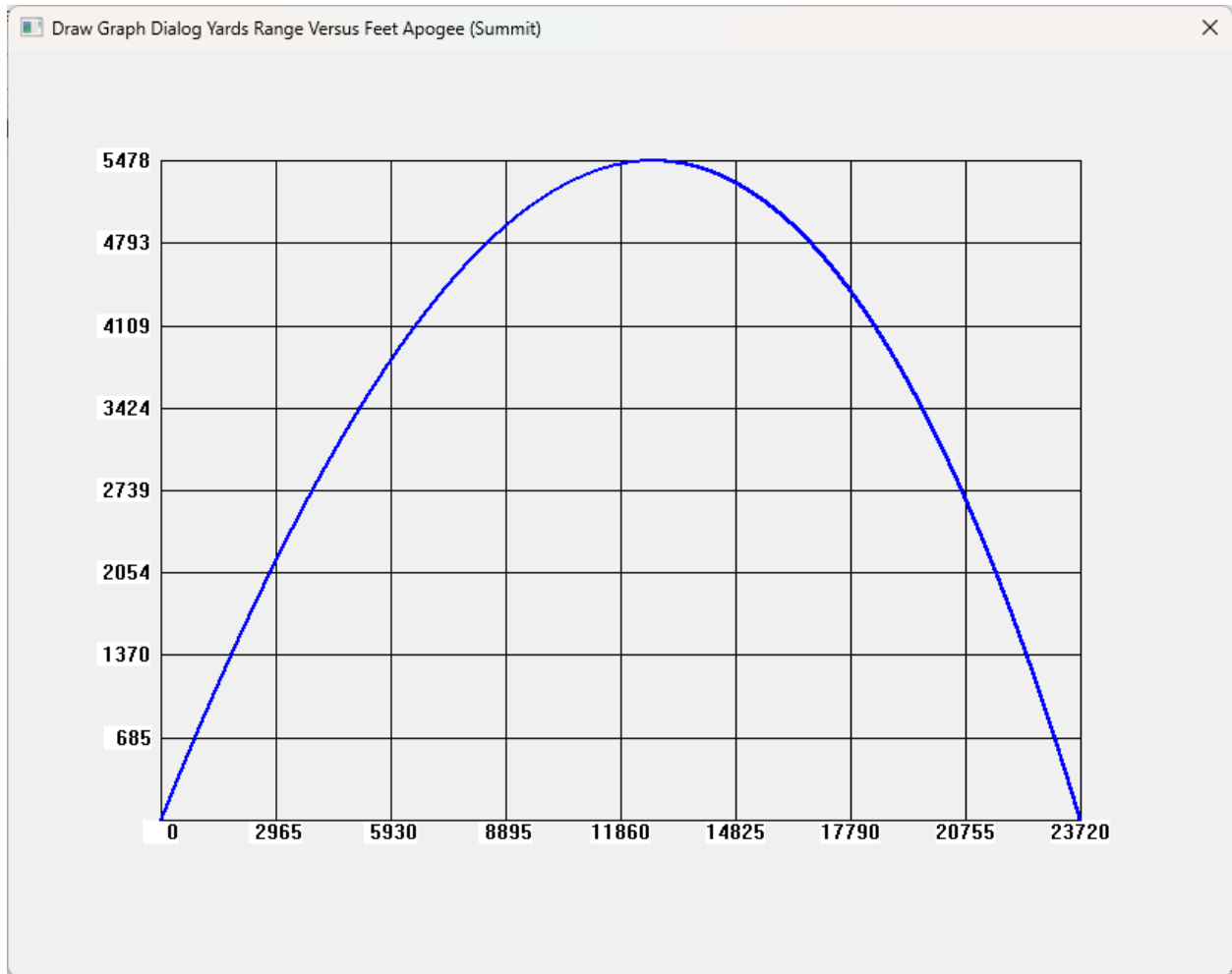


Figure 5 Fifteen Degrees Elevation

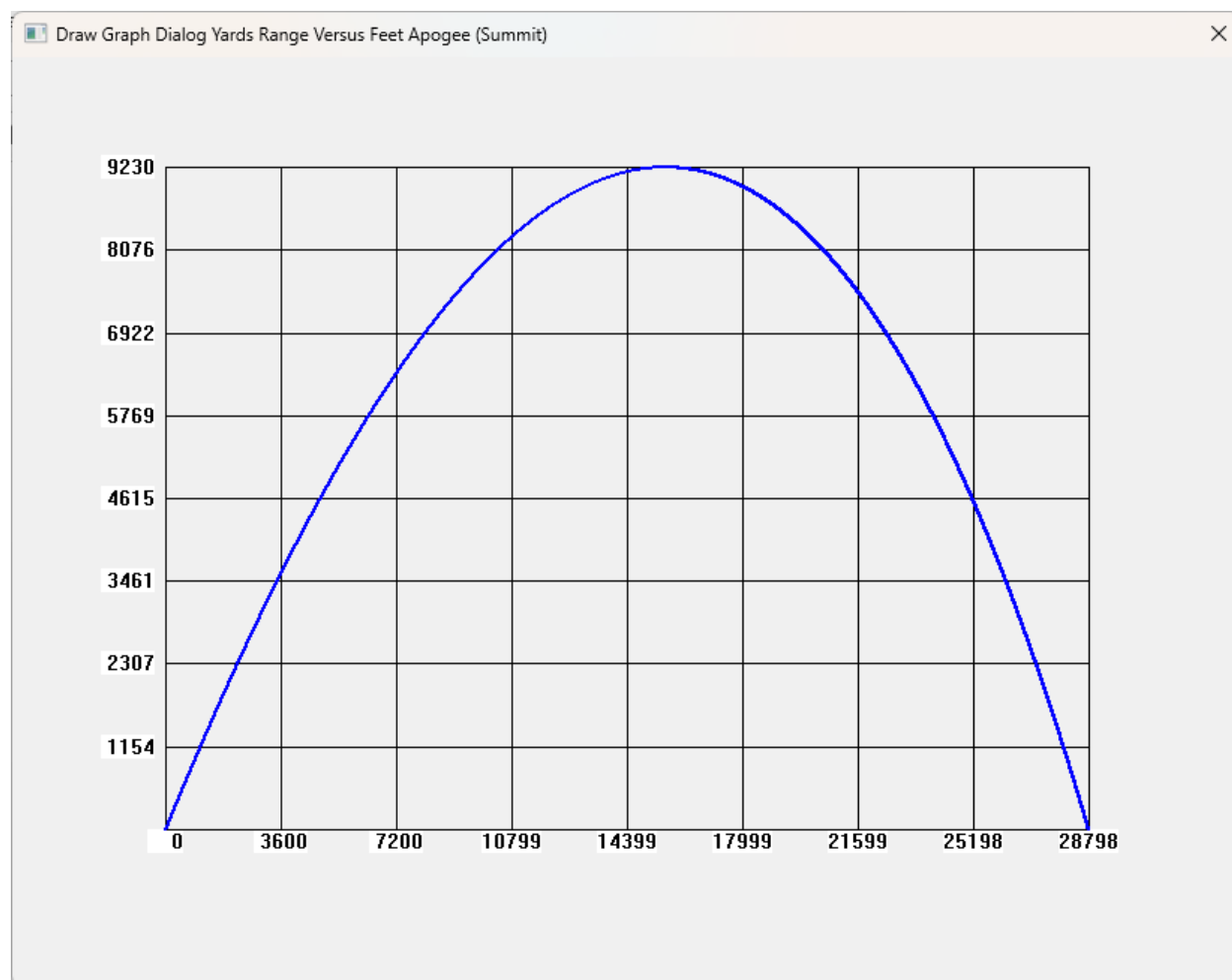


Figure 6 Twenty Degrees Elevation

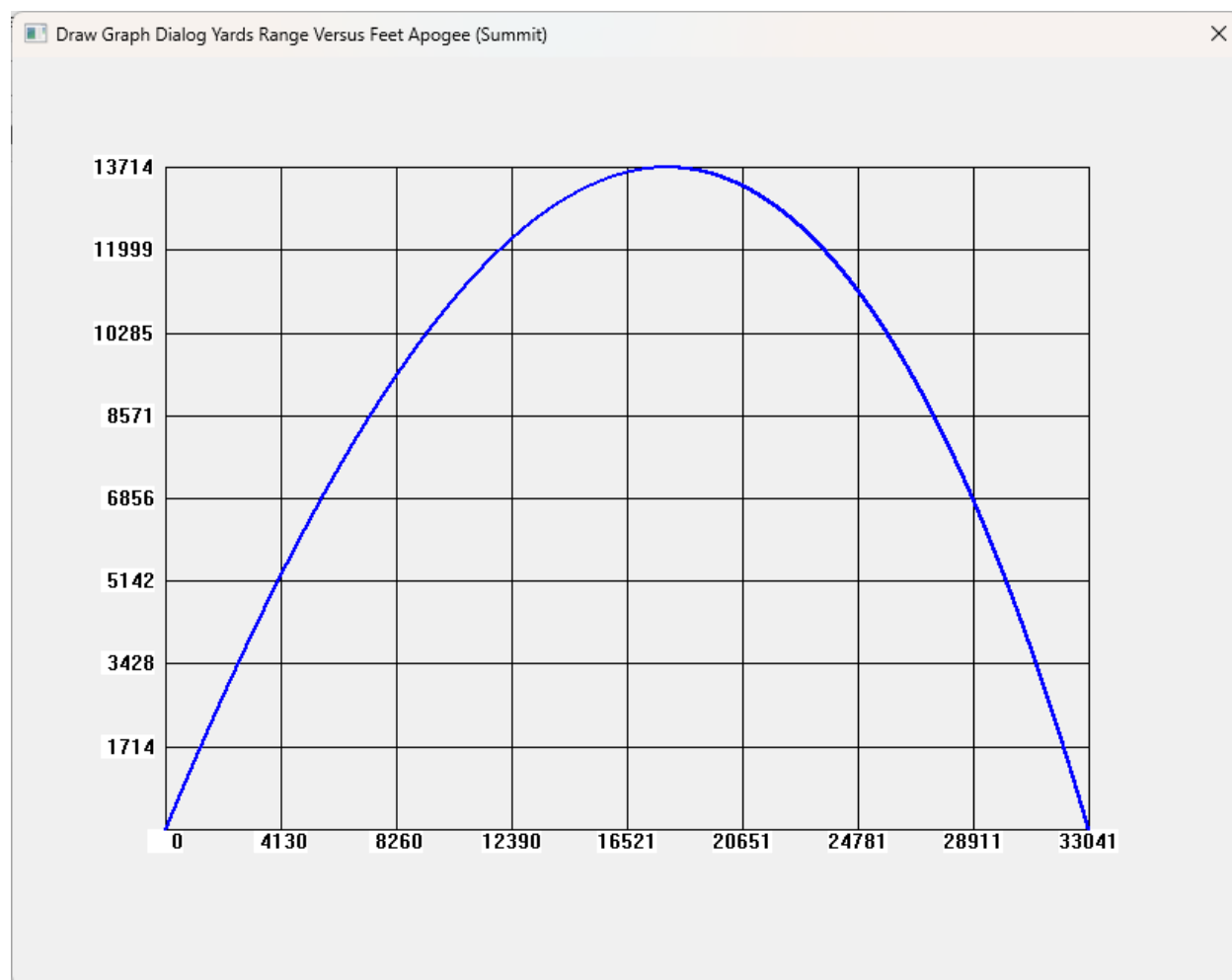


Figure 7 Twenty-Five Degrees Elevation

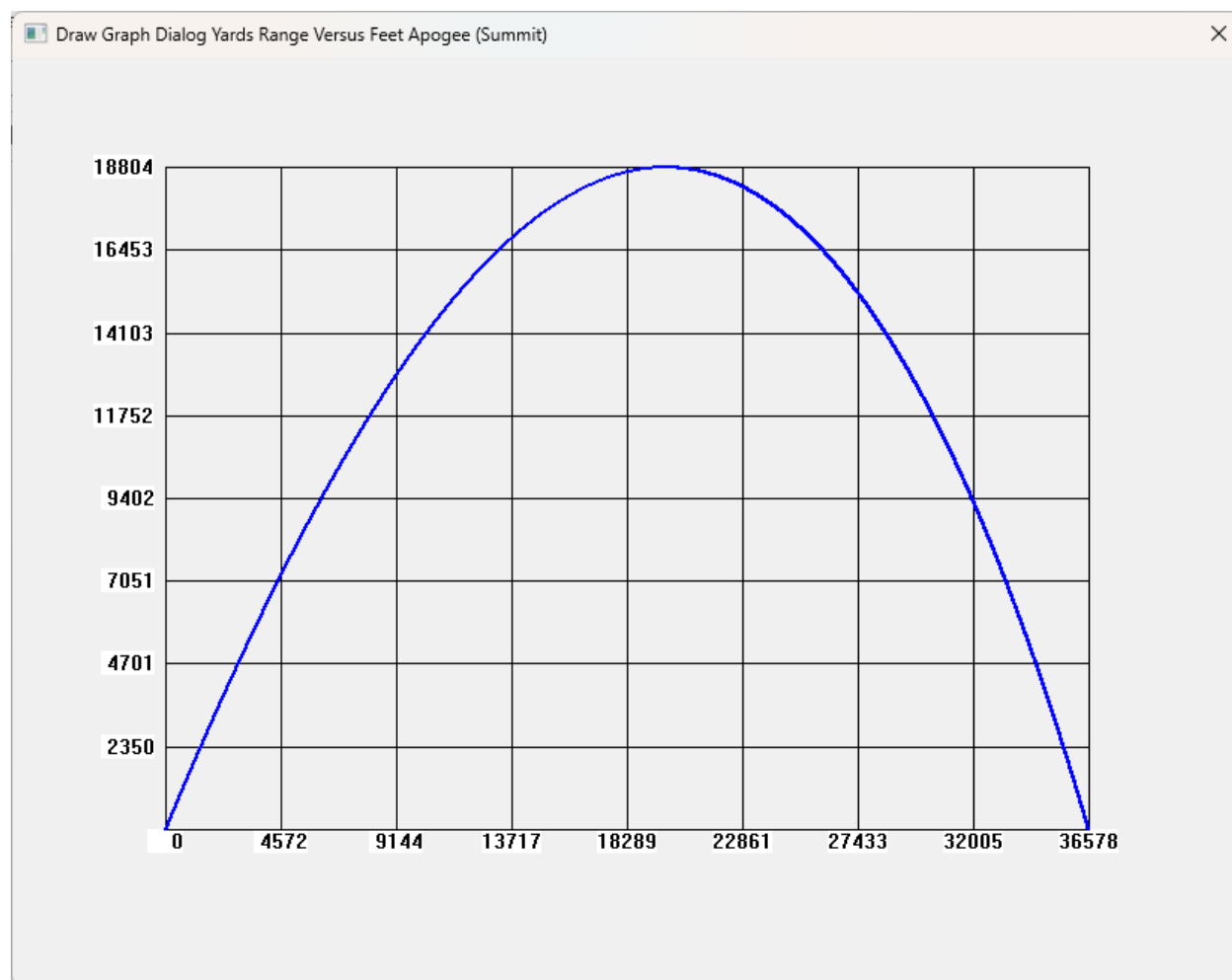


Figure 8 Thirty Degrees Elevation

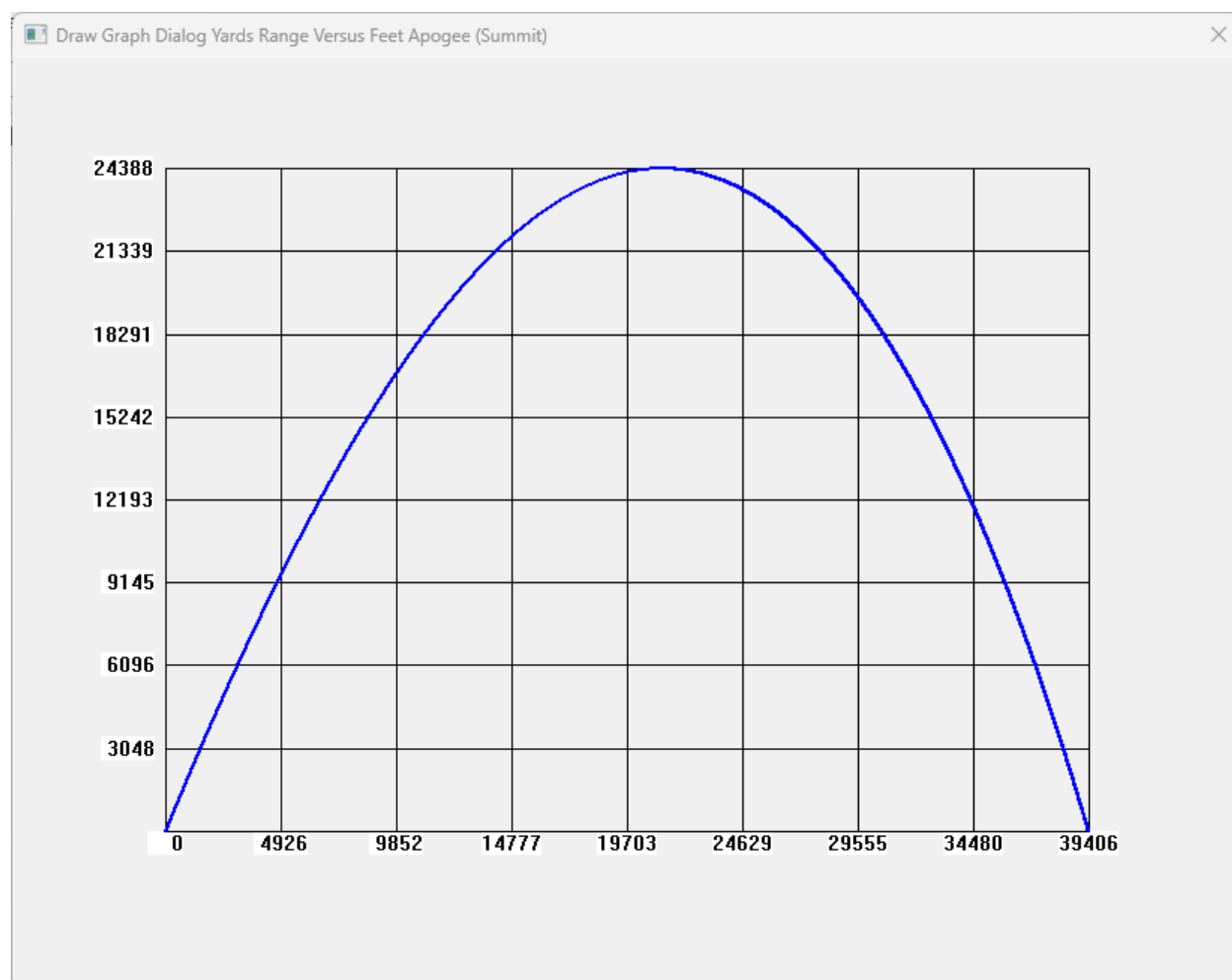


Figure 9 Thirty-Five Degrees Elevation

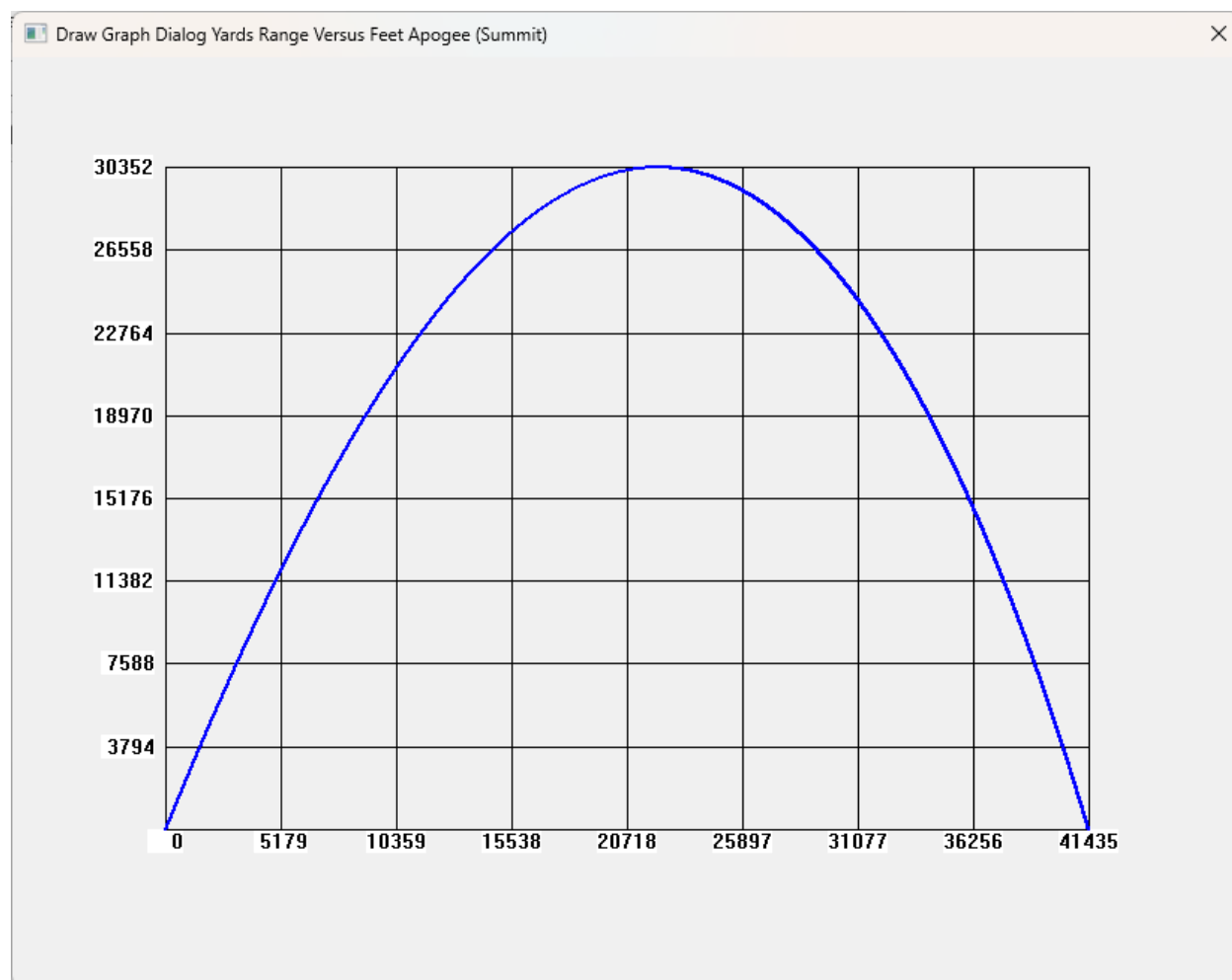


Figure 10 Forty Degrees Elevation

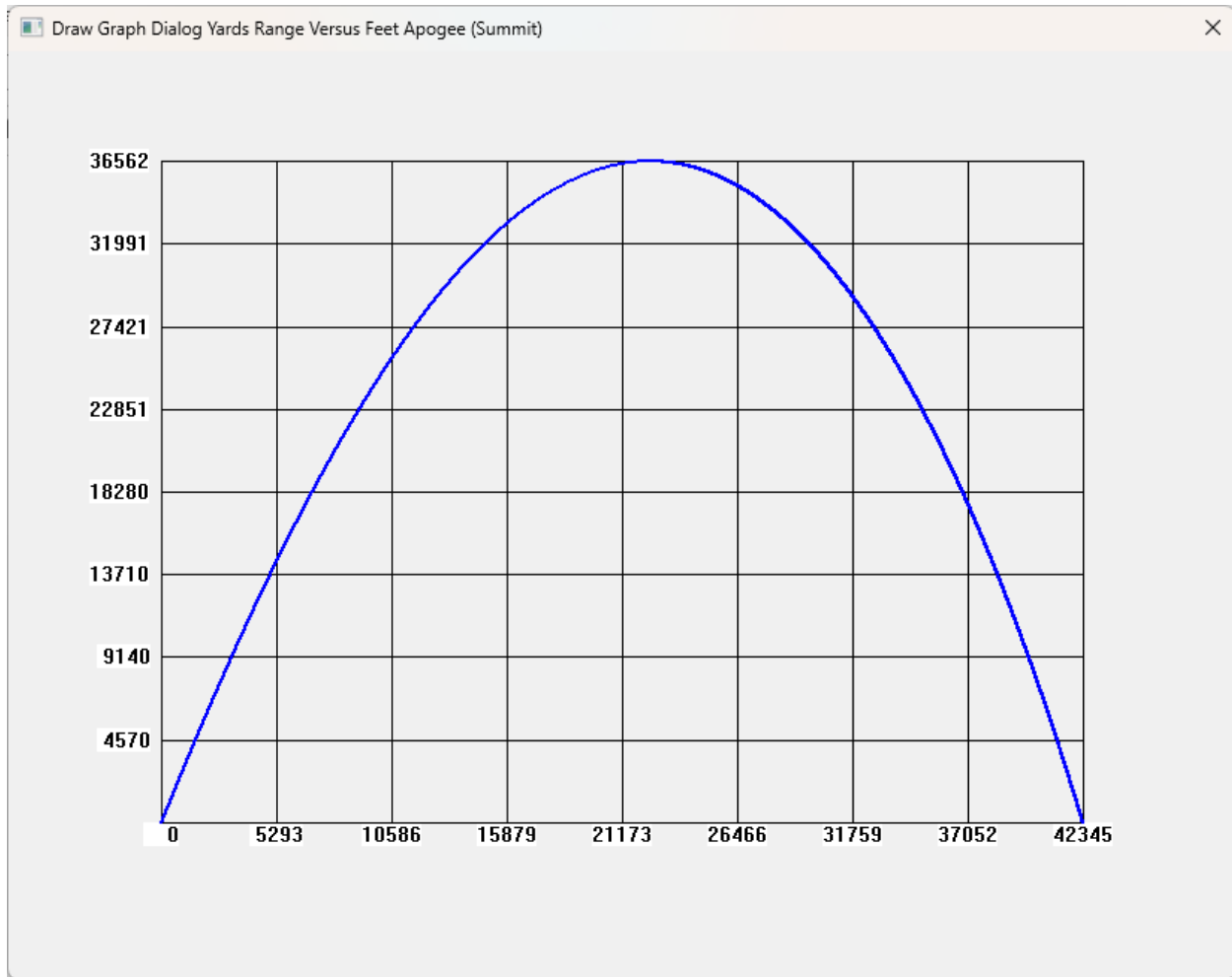


Figure 11 Forty-Five Degrees Elevation (Maximum)

x	y	t	v	ke
42	2	0.050	2498	261807598
83	4	0.100	2496	261371011
125	6	0.150	2494	260935751
166	8	0.200	2492	260501810
208	10	0.250	2490	260069185
249	12	0.300	2488	259637869
291	13	0.350	2485	259207856
332	15	0.400	2483	258779142
374	16	0.450	2481	258351721
415	18	0.500	2479	257925588
456	19	0.550	2477	257500736
497	20	0.600	2475	257077161
539	21	0.650	2473	256654858

580	23	0.700	2471	256233821
621	24	0.750	2469	255814045
662	24	0.800	2467	255395525
703	25	0.850	2465	254978254
744	26	0.900	2463	254562230
785	27	0.950	2461	254147445
826	27	1.000	2459	253733896
867	28	1.050	2457	253321576
908	28	1.100	2455	252910481
949	29	1.150	2453	252500606
990	29	1.200	2451	252091946
1031	29	1.250	2449	251684496
1072	29	1.300	2447	251278251
1112	29	1.350	2445	250873205
1153	29	1.400	2443	250469355
1194	29	1.450	2441	250066695
1235	29	1.500	2439	249665221
1275	28	1.550	2437	249264927
1316	28	1.600	2435	248865809
1356	28	1.650	2433	248467861
1397	27	1.700	2431	248071081
1437	26	1.750	2430	247675461
1478	26	1.800	2428	247280999
1518	25	1.850	2426	246887689
1559	24	1.900	2424	246495527
1599	23	1.950	2422	246104507
1640	22	2.000	2420	245714626
1680	21	2.050	2418	245325879
1720	20	2.100	2416	244938261
1760	19	2.150	2414	244551768
1801	17	2.200	2412	244166395
1841	16	2.250	2410	243782138
1881	14	2.300	2408	243398993
1921	13	2.350	2407	243016955
1961	11	2.400	2405	242636019
2001	9	2.450	2403	242256181
2041	8	2.500	2401	241877438
2081	6	2.550	2399	241499784
2121	4	2.600	2397	241123215
2161	2	2.650	2395	240747727
1558	4559	2.700	2342	230182285
1587	4640	2.750	2340	229657539
1615	4721	2.800	2337	229134982
1643	4801	2.850	2334	228614599
1671	4881	2.900	2332	228096375
1700	4961	2.950	2329	227580295
1728	5041	3.000	2326	227066345

1756	5121	3.050	2324	226554510
1784	5200	3.100	2321	226044777
1812	5280	3.150	2318	225537131
1841	5359	3.200	2316	225031559
1869	5439	3.250	2313	224528046
1897	5518	3.300	2311	224026579
1925	5597	3.350	2308	223527144
1953	5676	3.400	2306	223029728
1981	5754	3.450	2303	222534318
2009	5833	3.500	2300	222040901
2037	5911	3.550	2298	221549462
2065	5990	3.600	2295	221059991
2093	6068	3.650	2293	220572472
2121	6146	3.700	2290	220086895
2149	6224	3.750	2288	219603246
2177	6302	3.800	2285	219121514
2205	6379	3.850	2283	218641684
2232	6457	3.900	2280	218163746
2260	6534	3.950	2278	217687688
2288	6612	4.000	2275	217213496
2316	6689	4.050	2273	216741160
2344	6766	4.100	2270	216270667
2372	6843	4.150	2268	215802006
2399	6920	4.200	2265	215335165
2427	6996	4.250	2263	214870133
2455	7073	4.300	2261	214406898
2483	7149	4.350	2258	213945449
2510	7226	4.400	2256	213485775
2538	7302	4.450	2253	213027864
2566	7378	4.500	2251	212571707
2593	7454	4.550	2248	212117291
2621	7530	4.600	2246	211664606
2649	7605	4.650	2244	211213642
2676	7681	4.700	2241	210764388
2704	7756	4.750	2239	210316833
2731	7832	4.800	2236	209870966
2759	7907	4.850	2234	209426779
2787	7982	4.900	2232	208984259
2814	8057	4.950	2229	208543398
2842	8132	5.000	2227	208104184
2869	8206	5.050	2225	207666609
2897	8281	5.100	2222	207230662
2924	8355	5.150	2220	206796334
2952	8430	5.200	2218	206363614
2979	8504	5.250	2215	205932493
3006	8578	5.300	2213	205502962
3034	8652	5.350	2211	205075010

3061	8726	5.400	2208	204648630
3089	8799	5.450	2206	204223811
3116	8873	5.500	2204	203800544
3143	8946	5.550	2202	203378820
3171	9020	5.600	2199	202958629
3198	9093	5.650	2197	202539964
3225	9166	5.700	2195	202122815
3253	9239	5.750	2193	201707173
3280	9312	5.800	2190	201293029
3307	9385	5.850	2188	200880375
3334	9457	5.900	2186	200469202
3362	9530	5.950	2184	200059501
3389	9602	6.000	2181	199651265
3416	9674	6.050	2179	199244484
3443	9747	6.100	2177	198839150
3470	9819	6.150	2175	198435256
3498	9891	6.200	2172	198032792
3525	9962	6.250	2170	197631751
3552	10034	6.300	2168	197232125
3579	10106	6.350	2166	196833905
3606	10177	6.400	2164	196437084
3633	10248	6.450	2162	196041654
3660	10320	6.500	2159	195647607
3687	10391	6.550	2157	195254935
3714	10462	6.600	2155	194863630
3741	10532	6.650	2153	194473686
3768	10603	6.700	2151	194085094
3795	10674	6.750	2149	193697848
3822	10744	6.800	2146	193311938
3849	10815	6.850	2144	192927359
3876	10885	6.900	2142	192544103
3903	10955	6.950	2140	192162163
3930	11025	7.000	2138	191781531
3957	11095	7.050	2136	191402200
3984	11165	7.100	2134	191024163
4011	11235	7.150	2132	190647414
4038	11304	7.200	2129	190271945
4065	11374	7.250	2127	189897749
4092	11443	7.300	2125	189524820
4118	11512	7.350	2123	189153150
4145	11581	7.400	2121	188782734
4172	11650	7.450	2119	188413563
4199	11719	7.500	2117	188045633
4226	11788	7.550	2115	187678935
4252	11857	7.600	2113	187313464
4279	11925	7.650	2111	186949213
4306	11994	7.700	2109	186586175

4333	12062	7.750	2107	186224345
4359	12130	7.800	2105	185863716
4386	12199	7.850	2103	185504281
4413	12266	7.900	2101	185146035
4440	12334	7.950	2099	184788971
4466	12402	8.000	2097	184433083
4493	12470	8.050	2095	184078365
4520	12537	8.100	2093	183724811
4546	12605	8.150	2091	183372415
4573	12672	8.200	2089	183021171
4599	12739	8.250	2087	182671074
4626	12806	8.300	2085	182322116
4653	12873	8.350	2083	181974293
4679	12940	8.400	2081	181627599
4706	13007	8.450	2079	181282028
4732	13074	8.500	2077	180937574
4759	13140	8.550	2075	180594232
4785	13207	8.600	2073	180251995
4812	13273	8.650	2071	179910860
4838	13339	8.700	2069	179570819
4865	13405	8.750	2067	179231868
4891	13471	8.800	2065	178894002
4918	13537	8.850	2063	178557214
4944	13603	8.900	2061	178221499
4971	13669	8.950	2059	177886853
4997	13734	9.000	2057	177553270
5024	13800	9.050	2055	177220744
5050	13865	9.100	2053	176889271
5077	13930	9.150	2051	176558845
5103	13995	9.200	2049	176229462
5129	14060	9.250	2047	175901115
5156	14125	9.300	2046	175573801
5182	14190	9.350	2044	175247514
5208	14255	9.400	2042	174922250
5235	14319	9.450	2040	174598002
5261	14384	9.500	2038	174274767
5287	14448	9.550	2036	173952540
5314	14512	9.600	2034	173631315
5340	14577	9.650	2032	173311089
5366	14641	9.700	2030	172991856
5392	14705	9.750	2029	172673611
5419	14768	9.800	2027	172356351
5445	14832	9.850	2025	172040069
5471	14896	9.900	2023	171724763
5497	14959	9.950	2021	171410426
5524	15023	10.000	2019	171097055
5550	15086	10.050	2017	170784645

5576	15149	10.100	2016	170473192
5602	15212	10.150	2014	170162691
5628	15275	10.200	2012	169853138
5655	15338	10.250	2010	169544529
5681	15401	10.300	2008	169236858
5707	15463	10.350	2007	168930122
5733	15526	10.400	2005	168624317
5759	15588	10.450	2003	168319438
5785	15651	10.500	2001	168015481
5811	15713	10.550	1999	167712442
5837	15775	10.600	1997	167410317
5863	15837	10.650	1996	167109101
5890	15899	10.700	1994	166808791
5916	15961	10.750	1992	166509383
5942	16022	10.800	1990	166210871
5968	16084	10.850	1989	165913254
5994	16146	10.900	1987	165616525
6020	16207	10.950	1985	165320682
6046	16268	11.000	1983	165025721
6072	16329	11.050	1981	164731638
6098	16390	11.100	1980	164438428
6124	16451	11.150	1978	164146088
6150	16512	11.200	1976	163854614
6176	16573	11.250	1974	163564003
6202	16634	11.300	1973	163274250
6227	16694	11.350	1971	162985352
6253	16755	11.400	1969	162697306
6279	16815	11.450	1967	162410107
6305	16875	11.500	1966	162123751
6331	16935	11.550	1964	161838236
6357	16996	11.600	1962	161553558
6383	17055	11.650	1960	161269712
6409	17115	11.700	1959	160986696
6435	17175	11.750	1957	160704506
6460	17235	11.800	1955	160423138
6486	17294	11.850	1954	160142590
6512	17354	11.900	1952	159862856
6538	17413	11.950	1950	159583935
6564	17472	12.000	1949	159305823
6589	17531	12.050	1947	159028516
6615	17590	12.100	1945	158752010
6641	17649	12.150	1943	158476304
6667	17708	12.200	1942	158201392
6693	17767	12.250	1940	157927273
6718	17825	12.300	1938	157653942
6744	17884	12.350	1937	157381396
6770	17942	12.400	1935	157109633

6796	18000	12.450	1933	156838649
6821	18059	12.500	1932	156568441
6847	18117	12.550	1930	156299005
6873	18175	12.600	1928	156030339
6898	18233	12.650	1927	155762439
6924	18290	12.700	1925	155495302
6950	18348	12.750	1923	155228926
6975	18406	12.800	1922	154963307
7001	18463	12.850	1920	154698442
7027	18521	12.900	1918	154434328
7052	18578	12.950	1917	154170962
7078	18635	13.000	1915	153908342
7103	18692	13.050	1914	153646463
7129	18749	13.100	1912	153385324
7155	18806	13.150	1910	153124921
7180	18863	13.200	1909	152865252
7206	18920	13.250	1907	152606313
7231	18976	13.300	1905	152348102
7257	19033	13.350	1904	152090616
7282	19089	13.400	1902	151833851
7308	19145	13.450	1901	151577806
7334	19201	13.500	1899	151322478
7359	19258	13.550	1897	151067863
7385	19314	13.600	1896	150813959
7410	19369	13.650	1894	150560763
7436	19425	13.700	1893	150308273
7461	19481	13.750	1891	150056485
7487	19536	13.800	1890	149805398
7512	19592	13.850	1888	149555008
7537	19647	13.900	1886	149305313
7563	19703	13.950	1885	149056310
7588	19758	14.000	1883	148807997
7614	19813	14.050	1882	148560370
7639	19868	14.100	1880	148313429
7665	19923	14.150	1879	148067169
7690	19978	14.200	1877	147821588
7715	20032	14.250	1875	147576684
7741	20087	14.300	1874	147332455
7766	20141	14.350	1872	147088897
7792	20196	14.400	1871	146846009
7817	20250	14.450	1869	146603787
7842	20304	14.500	1868	146362230
7868	20358	14.550	1866	146121335
7893	20412	14.600	1865	145881099
7918	20466	14.650	1863	145641521
7944	20520	14.700	1862	145402598
7969	20574	14.750	1860	145164327

7994	20628	14.800	1858	144926706
8020	20681	14.850	1857	144689733
8045	20735	14.900	1855	144453405
8070	20788	14.950	1854	144217720
8096	20841	15.000	1852	143982677
8121	20894	15.050	1851	143748271
8146	20947	15.100	1849	143514502
8171	21000	15.150	1848	143281368
8197	21053	15.200	1846	143048865
8222	21106	15.250	1845	142816991
8247	21158	15.300	1843	142585745
8272	21211	15.350	1842	142355124
8298	21263	15.400	1840	142125126
8323	21316	15.450	1839	141895749
8348	21368	15.500	1837	141666991
8373	21420	15.550	1836	141438849
8398	21472	15.600	1835	141211322
8423	21524	15.650	1833	140984407
8449	21576	15.700	1832	140758102
8474	21628	15.750	1830	140532406
8499	21680	15.800	1829	140307315
8524	21731	15.850	1827	140082829
8549	21783	15.900	1826	139858944
8574	21834	15.950	1824	139635659
8600	21885	16.000	1823	139412973
8625	21937	16.050	1821	139190882
8650	21988	16.100	1820	138969385
8675	22039	16.150	1818	138748480
8700	22090	16.200	1817	138528165
8725	22140	16.250	1816	138308437
8750	22191	16.300	1814	138089296
8775	22242	16.350	1813	137870739
8800	22292	16.400	1811	137652764
8825	22343	16.450	1810	137435370
8850	22393	16.500	1808	137218554
8875	22443	16.550	1807	137002314
8900	22494	16.600	1806	136786649
8925	22544	16.650	1804	136571556
8950	22594	16.700	1803	136357035
8975	22643	16.750	1801	136143082
9000	22693	16.800	1800	135927748
9025	22743	16.850	1798	135690697
9050	22792	16.900	1797	135454432
9075	22842	16.950	1795	135218950
9100	22891	17.000	1794	134984248
9125	22941	17.050	1792	134750322
9150	22990	17.100	1791	134517168

9175	23039	17.150	1789	134284782
9200	23088	17.200	1787	134053160
9225	23137	17.250	1786	133822301
9250	23186	17.300	1784	133592198
9275	23234	17.350	1783	133362850
9300	23283	17.400	1781	133134252
9325	23331	17.450	1780	132906402
9350	23380	17.500	1778	132679295
9374	23428	17.550	1777	132452928
9399	23476	17.600	1775	132227298
9424	23524	17.650	1774	132002402
9449	23572	17.700	1772	131778236
9474	23620	17.750	1771	131554796
9499	23668	17.800	1769	131332080
9523	23716	17.850	1768	131110084
9548	23763	17.900	1766	130888806
9573	23811	17.950	1765	130668241
9598	23858	18.000	1763	130448386
9623	23906	18.050	1762	130229240
9647	23953	18.100	1760	130010797
9672	24000	18.150	1759	129793055
9697	24047	18.200	1757	129576012
9722	24094	18.250	1756	129359663
9746	24141	18.300	1754	129144007
9771	24188	18.350	1753	128929039
9796	24234	18.400	1751	128714758
9821	24281	18.450	1750	128501159
9845	24327	18.500	1749	128288240
9870	24374	18.550	1747	128075998
9895	24420	18.600	1746	127864431
9919	24466	18.650	1744	127653534
9944	24512	18.700	1743	127443306
9969	24558	18.750	1741	127233744
9993	24604	18.800	1740	127024844
10018	24650	18.850	1738	126816604
10043	24695	18.900	1737	126609022
10067	24741	18.950	1736	126402093
10092	24786	19.000	1734	126195816
10116	24832	19.050	1733	125990188
10141	24877	19.100	1731	125785207
10166	24922	19.150	1730	125580869
10190	24967	19.200	1729	125377171
10215	25012	19.250	1727	125174112
10239	25057	19.300	1726	124971688
10264	25102	19.350	1724	124769898
10289	25147	19.400	1723	124568737
10313	25192	19.450	1722	124368205

10338	25236	19.500	1720	124168298
10362	25281	19.550	1719	123969013
10387	25325	19.600	1717	123770349
10411	25369	19.650	1716	123572303
10436	25413	19.700	1715	123374872
10460	25457	19.750	1713	123178053
10485	25501	19.800	1712	122981846
10509	25545	19.850	1711	122786246
10534	25589	19.900	1709	122591251
10558	25633	19.950	1708	122396860
10583	25676	20.000	1707	122203070
10607	25720	20.050	1705	122009878
10632	25763	20.100	1704	121817282
10656	25807	20.150	1703	121625280
10680	25850	20.200	1701	121433870
10705	25893	20.250	1700	121243049
10729	25936	20.300	1699	121052814
10754	25979	20.350	1697	120863165
10778	26022	20.400	1696	120674098
10802	26065	20.450	1695	120485611
10827	26107	20.500	1693	120297703
10851	26150	20.550	1692	120110370
10876	26192	20.600	1691	119923611
10900	26235	20.650	1689	119737423
10924	26277	20.700	1688	119551805
10949	26319	20.750	1687	119366754
10973	26361	20.800	1685	119182269
10997	26403	20.850	1684	118998346
11022	26445	20.900	1683	118814984
11046	26487	20.950	1681	118632182
11070	26529	21.000	1680	118449936
11095	26570	21.050	1679	118268245
11119	26612	21.100	1678	118087107
11143	26653	21.150	1676	117906520
11167	26695	21.200	1675	117726481
11192	26736	21.250	1674	117546990
11216	26777	21.300	1672	117368043
11240	26818	21.350	1671	117189639
11265	26859	21.400	1670	117011776
11289	26900	21.450	1669	116834452
11313	26941	21.500	1667	116657665
11337	26982	21.550	1666	116481414
11362	27022	21.600	1665	116305696
11386	27063	21.650	1664	116130509
11410	27103	21.700	1662	115955852
11434	27144	21.750	1661	115781722
11458	27184	21.800	1660	115608119

11483	27224	21.850	1659	115435040
11507	27264	21.900	1657	115262483
11531	27304	21.950	1656	115090446
11555	27344	22.000	1655	114918928
11579	27384	22.050	1654	114747927
11603	27424	22.100	1652	114577441
11628	27463	22.150	1651	114407469
11652	27503	22.200	1650	114238008
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11724	27621	22.350	1646	113732679
11748	27660	22.400	1645	113565247
11772	27699	22.450	1644	113398319
11797	27738	22.500	1643	113231893
11821	27777	22.550	1642	113065966
11845	27816	22.600	1640	112900537
11869	27854	22.650	1639	112735605
11893	27893	22.700	1638	112571168
11917	27931	22.750	1637	112407224
11941	27970	22.800	1636	112243772
11965	28008	22.850	1634	112080810
11989	28046	22.900	1633	111918336
12013	28085	22.950	1632	111756350
12037	28123	23.000	1631	111594848
12061	28161	23.050	1630	111433831
12085	28199	23.100	1628	111273296
12109	28236	23.150	1627	111113241
12133	28274	23.200	1626	110953666
12157	28312	23.250	1625	110794569
12181	28349	23.300	1624	110635948
12205	28387	23.350	1623	110477801
12229	28424	23.400	1621	110320128
12253	28461	23.450	1620	110162926
12277	28498	23.500	1619	110006195
12301	28536	23.550	1618	109849933
12325	28573	23.600	1617	109694138
12349	28609	23.650	1616	109538809
12373	28646	23.700	1615	109383944
12397	28683	23.750	1613	109229543
12421	28720	23.800	1612	109075604
12445	28756	23.850	1611	108922124
12469	28793	23.900	1610	108769104
12493	28829	23.950	1609	108616541
12517	28865	24.000	1608	108464435
12541	28901	24.050	1607	108312783
12565	28937	24.100	1606	108161585
12589	28973	24.150	1604	108010839

12613	29009	24.200	1603	107860544
12636	29045	24.250	1602	107710698
12660	29081	24.300	1601	107561300
12684	29117	24.350	1600	107412349
12708	29152	24.400	1599	107263844
12732	29188	24.450	1598	107115783
12756	29223	24.500	1597	106968165
12780	29258	24.550	1596	106820989
12804	29294	24.600	1594	106674253
12827	29329	24.650	1593	106527956
12851	29364	24.700	1592	106382097
12875	29399	24.750	1591	106236674
12899	29433	24.800	1590	106091687
12923	29468	24.850	1589	105947135
12947	29503	24.900	1588	105803015
12970	29537	24.950	1587	105659327
12994	29572	25.000	1586	105516069
13018	29606	25.050	1585	105373241
13042	29641	25.100	1584	105230841
13066	29675	25.150	1583	105088868
13089	29709	25.200	1582	104947321
13113	29743	25.250	1580	104806198
13137	29777	25.300	1579	104665499
13161	29811	25.350	1578	104525222
13184	29845	25.400	1577	104385366
13208	29878	25.450	1576	104245930
13232	29912	25.500	1575	104106913
13256	29946	25.550	1574	103968313
13279	29979	25.600	1573	103830131
13303	30012	25.650	1572	103692364
13327	30046	25.700	1571	103555011
13351	30079	25.750	1570	103418071
13374	30112	25.800	1569	103281544
13398	30145	25.850	1568	103145428
13422	30178	25.900	1567	103009722
13445	30211	25.950	1566	102874425
13469	30243	26.000	1565	102739535
13493	30276	26.050	1564	102605053
13517	30308	26.100	1563	102470976
13540	30341	26.150	1562	102337304
13564	30373	26.200	1561	102204036
13588	30406	26.250	1560	102071170
13611	30438	26.300	1559	101938706
13635	30470	26.350	1558	101806643
13659	30502	26.400	1557	101674979
13682	30534	26.450	1556	101543713
13706	30566	26.500	1555	101412846

13730	30597	26.550	1554	101282375
13753	30629	26.600	1553	101152299
13777	30661	26.650	1552	101022618
13800	30692	26.700	1551	100893331
13824	30724	26.750	1550	100764436
13848	30755	26.800	1549	100635933
13871	30786	26.850	1548	100507820
13895	30817	26.900	1547	100380098
13918	30848	26.950	1546	100252764
13942	30879	27.000	1545	100125818
13966	30910	27.050	1544	99999259
13989	30941	27.100	1543	99873086
14013	30972	27.150	1542	99747297
14036	31002	27.200	1541	99621893
14060	31033	27.250	1540	99496873
14083	31063	27.300	1539	99372234
14107	31094	27.350	1538	99247977
14131	31124	27.400	1537	99124100
14154	31154	27.450	1536	99000603
14178	31184	27.500	1535	98877485
14201	31214	27.550	1534	98754744
14225	31244	27.600	1533	98632380
14248	31274	27.650	1532	98510393
14272	31304	27.700	1531	98388780
14295	31334	27.750	1530	98267542
14319	31363	27.800	1529	98146677
14342	31393	27.850	1528	98026185
14366	31422	27.900	1528	97906064
14389	31451	27.950	1527	97786314
14413	31481	28.000	1526	97666935
14436	31510	28.050	1525	97547924
14460	31539	28.100	1524	97429282
14483	31568	28.150	1523	97311008
14507	31597	28.200	1522	97193100
14530	31626	28.250	1521	97075558
14554	31654	28.300	1520	96958381
14577	31683	28.350	1519	96841569
14601	31712	28.400	1518	96725120
14624	31740	28.450	1517	96609033
14648	31768	28.500	1516	96493309
14671	31797	28.550	1516	96377945
14694	31825	28.600	1515	96262942
14718	31853	28.650	1514	96148299
14741	31881	28.700	1513	96034014
14765	31909	28.750	1512	95920087
14788	31937	28.800	1511	95806517
14812	31965	28.850	1510	95693304

14835	31992	28.900	1509	95580446
14858	32020	28.950	1508	95467944
14882	32047	29.000	1508	95355795
14905	32075	29.050	1507	95244000
14929	32102	29.100	1506	95132557
14952	32129	29.150	1505	95021467
14975	32157	29.200	1504	94910728
14999	32184	29.250	1503	94800339
15022	32211	29.300	1502	94690300
15045	32238	29.350	1501	94580610
15069	32265	29.400	1500	94471268
15092	32291	29.450	1500	94362274
15115	32318	29.500	1499	94253626
15139	32344	29.550	1498	94145325
15162	32371	29.600	1497	94037370
15185	32397	29.650	1496	93929759
15209	32424	29.700	1495	93822492
15232	32450	29.750	1494	93715568
15255	32476	29.800	1494	93608988
15279	32502	29.850	1493	93502749
15302	32528	29.900	1492	93396851
15325	32554	29.950	1491	93291295
15349	32580	30.000	1490	93186078
15372	32606	30.050	1489	93081200
15395	32631	30.100	1489	92976661
15419	32657	30.150	1488	92872460
15442	32682	30.200	1487	92768597
15465	32708	30.250	1486	92665070
15488	32733	30.300	1485	92561879
15512	32758	30.350	1484	92459024
15535	32783	30.400	1484	92356503
15558	32808	30.450	1483	92254316
15582	32833	30.500	1482	92152463
15605	32858	30.550	1481	92050942
15628	32883	30.600	1480	91949754
15651	32908	30.650	1480	91848897
15675	32932	30.700	1479	91748371
15698	32957	30.750	1478	91648176
15721	32981	30.800	1477	91548310
15744	33005	30.850	1476	91448773
15768	33030	30.900	1476	91349565
15791	33054	30.950	1475	91250685
15814	33078	31.000	1474	91152131
15837	33102	31.050	1473	91053905
15860	33126	31.100	1472	90956004
15884	33150	31.150	1472	90858429
15907	33174	31.200	1471	90761179

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15953	33221	31.300	1469	90567651
15976	33244	31.350	1468	90471372
16000	33268	31.400	1468	90375415
16023	33291	31.450	1467	90279780
16046	33314	31.500	1466	90184467
16069	33338	31.550	1465	90089475
16092	33361	31.600	1465	89994802
16115	33384	31.650	1464	89900450
16139	33407	31.700	1463	89806416
16162	33429	31.750	1462	89712701
16185	33452	31.800	1461	89619305
16208	33475	31.850	1461	89526225
16231	33497	31.900	1460	89433462
16254	33520	31.950	1459	89341016
16278	33542	32.000	1458	89248886
16301	33565	32.050	1458	89157070
16324	33587	32.100	1457	89065570
16347	33609	32.150	1456	88974384
16370	33631	32.200	1455	88883511
16393	33653	32.250	1455	88792951
16416	33675	32.300	1454	88702704
16439	33697	32.350	1453	88612769
16462	33719	32.400	1452	88523146
16486	33740	32.450	1452	88433833
16509	33762	32.500	1451	88344832
16532	33783	32.550	1450	88256140
16555	33805	32.600	1450	88167757
16578	33826	32.650	1449	88079684
16601	33847	32.700	1448	87991919
16624	33868	32.750	1447	87904461
16647	33889	32.800	1447	87817312
16670	33910	32.850	1446	87730469
16693	33931	32.900	1445	87643933
16716	33952	32.950	1445	87557702
16739	33973	33.000	1444	87471777
16762	33994	33.050	1443	87386157
16786	34014	33.100	1442	87300842
16809	34035	33.150	1442	87215830
16832	34055	33.200	1441	87131122
16855	34075	33.250	1440	87046717
16878	34095	33.300	1440	86962615
16901	34116	33.350	1439	86878814
16924	34136	33.400	1438	86795316
16947	34156	33.450	1438	86712118
16970	34176	33.500	1437	86629221
16993	34195	33.550	1436	86546624

17016	34215	33.600	1436	86464327
17039	34235	33.650	1435	86382329
17062	34254	33.700	1434	86300630
17085	34274	33.750	1433	86219229
17108	34293	33.800	1433	86138126
17131	34312	33.850	1432	86057321
17154	34332	33.900	1431	85976813
17177	34351	33.950	1431	85896601
17200	34370	34.000	1430	85816685
17223	34389	34.050	1429	85737064
17246	34408	34.100	1429	85657739
17269	34426	34.150	1428	85578709
17292	34445	34.200	1427	85499973
17315	34464	34.250	1427	85421531
17338	34482	34.300	1426	85343382
17360	34501	34.350	1426	85265527
17383	34519	34.400	1425	85187964
17406	34538	34.450	1424	85110693
17429	34556	34.500	1424	85033713
17452	34574	34.550	1423	84957026
17475	34592	34.600	1422	84880628
17498	34610	34.650	1422	84804522
17521	34628	34.700	1421	84728705
17544	34646	34.750	1420	84653178
17567	34663	34.800	1420	84577940
17590	34681	34.850	1419	84502991
17613	34698	34.900	1419	84428331
17636	34716	34.950	1418	84353958
17659	34733	35.000	1417	84279873
17681	34751	35.050	1417	84206075
17704	34768	35.100	1416	84132564
17727	34785	35.150	1415	84059339
17750	34802	35.200	1415	83986400
17773	34819	35.250	1414	83913747
17796	34836	35.300	1414	83841378
17819	34853	35.350	1413	83769295
17842	34869	35.400	1412	83697496
17865	34886	35.450	1412	83625980
17887	34903	35.500	1411	83554749
17910	34919	35.550	1411	83483800
17933	34935	35.600	1410	83413135
17956	34952	35.650	1409	83342752
17979	34968	35.700	1409	83272650
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18047	35016	35.850	1407	83064035
18070	35032	35.900	1406	82995058

18093	35048	35.950	1406	82926362
18116	35064	36.000	1405	82857945
18139	35079	36.050	1405	82789807
18162	35095	36.100	1404	82721949
18184	35110	36.150	1404	82654369
18207	35126	36.200	1403	82587067
18230	35141	36.250	1402	82520044
18253	35156	36.300	1402	82453298
18276	35171	36.350	1401	82386829
18298	35186	36.400	1401	82320637
18321	35201	36.450	1400	82254721
18344	35216	36.500	1400	82189082
18367	35231	36.550	1399	82123718
18390	35246	36.600	1398	82058630
18412	35260	36.650	1398	81993817
18435	35275	36.700	1397	81929279
18458	35289	36.750	1397	81865014
18481	35304	36.800	1396	81801024
18503	35318	36.850	1396	81737308
18526	35332	36.900	1395	81673865
18549	35347	36.950	1395	81610695
18572	35361	37.000	1394	81547798
18595	35375	37.050	1394	81485172
18617	35389	37.100	1393	81422819
18640	35402	37.150	1392	81360738
18663	35416	37.200	1392	81298927
18685	35430	37.250	1391	81237388
18708	35443	37.300	1391	81176119
18731	35457	37.350	1390	81115121
18754	35470	37.400	1390	81054392
18776	35484	37.450	1389	80993933
18799	35497	37.500	1389	80933744
18822	35510	37.550	1388	80873823
18845	35523	37.600	1388	80814171
18867	35536	37.650	1387	80754788
18890	35549	37.700	1387	80695672
18913	35562	37.750	1386	80636824
18935	35574	37.800	1386	80578243
18958	35587	37.850	1385	80519929
18981	35600	37.900	1385	80461882
19004	35612	37.950	1384	80404102
19026	35625	38.000	1384	80346587
19049	35637	38.050	1383	80289338
19072	35649	38.100	1383	80232355
19094	35661	38.150	1382	80175637
19117	35674	38.200	1382	80119183
19140	35686	38.250	1381	80062995

19162	35697	38.300	1381	80007070
19185	35709	38.350	1380	79951409
19208	35721	38.400	1380	79896012
19230	35733	38.450	1379	79840878
19253	35744	38.500	1379	79786007
19276	35756	38.550	1378	79731398
19298	35767	38.600	1378	79677053
19321	35779	38.650	1378	79622969
19344	35790	38.700	1377	79569147
19366	35801	38.750	1377	79515586
19389	35812	38.800	1376	79462286
19412	35823	38.850	1376	79409248
19434	35834	38.900	1375	79356470
19457	35845	38.950	1375	79303952
19479	35856	39.000	1374	79251694
19502	35866	39.050	1374	79199696
19525	35877	39.100	1373	79147958
19547	35888	39.150	1373	79096478
19570	35898	39.200	1373	79045258
19592	35908	39.250	1372	78994295
19615	35919	39.300	1372	78943592
19638	35929	39.350	1371	78893146
19660	35939	39.400	1371	78842957
19683	35949	39.450	1370	78793027
19705	35959	39.500	1370	78742247
19728	35969	39.550	1369	78687322
19751	35979	39.600	1369	78632687
19773	35988	39.650	1368	78578340
19796	35998	39.700	1368	78524283
19818	36008	39.750	1368	78470513
19841	36017	39.800	1367	78417031
19864	36026	39.850	1367	78363835
19886	36036	39.900	1366	78310926
19909	36045	39.950	1366	78258303
19931	36054	40.000	1365	78205965
19954	36063	40.050	1365	78153912
19976	36072	40.100	1364	78102144
19999	36081	40.150	1364	78050659
20021	36090	40.200	1363	77999457
20044	36099	40.250	1363	77948538
20066	36107	40.300	1363	77897901
20089	36116	40.350	1362	77847546
20111	36124	40.400	1362	77797472
20134	36133	40.450	1361	77747679
20156	36141	40.500	1361	77698166
20179	36149	40.550	1360	77648932
20202	36157	40.600	1360	77599978

20224	36165	40.650	1360	77551302
20247	36173	40.700	1359	77502905
20269	36181	40.750	1359	77454785
20291	36189	40.800	1358	77406942
20314	36197	40.850	1358	77359376
20336	36205	40.900	1357	77312087
20359	36212	40.950	1357	77265073
20381	36220	41.000	1357	77218334
20404	36227	41.050	1356	77171870
20426	36234	41.100	1356	77125680
20449	36242	41.150	1355	77079765
20471	36249	41.200	1355	77034122
20494	36256	41.250	1355	76988753
20516	36263	41.300	1354	76943655
20539	36270	41.350	1354	76898830
20561	36277	41.400	1353	76854277
20584	36283	41.450	1353	76809994
20606	36290	41.500	1353	76765982
20628	36297	41.550	1352	76722240
20651	36303	41.600	1352	76678768
20673	36310	41.650	1351	76635565
20696	36316	41.700	1351	76592631
20718	36322	41.750	1351	76549965
20740	36328	41.800	1350	76507568
20763	36335	41.850	1350	76465437
20785	36341	41.900	1350	76423574
20808	36347	41.950	1349	76381977
20830	36352	42.000	1349	76340646
20853	36358	42.050	1348	76299581
20875	36364	42.100	1348	76258782
20897	36370	42.150	1348	76218247
20920	36375	42.200	1347	76177977
20942	36381	42.250	1347	76137970
20964	36386	42.300	1347	76098228
20987	36391	42.350	1346	76058748
21009	36396	42.400	1346	76019531
21032	36402	42.450	1346	75980577
21054	36407	42.500	1345	75941884
21076	36412	42.550	1345	75903453
21099	36416	42.600	1345	75865283
21121	36421	42.650	1344	75827373
21143	36426	42.700	1344	75789724
21166	36431	42.750	1344	75752335
21188	36435	42.800	1343	75715205
21210	36440	42.850	1343	75678335
21233	36444	42.900	1343	75641723
21255	36448	42.950	1342	75605369

21277	36453	43.000	1342	75569273
21300	36457	43.050	1342	75533434
21322	36461	43.100	1341	75497853
21344	36465	43.150	1341	75462528
21367	36469	43.200	1341	75427459
21389	36473	43.250	1340	75392647
21411	36476	43.300	1340	75358089
21433	36480	43.350	1340	75323787
21456	36484	43.400	1340	75289740
21478	36487	43.450	1339	75255947
21500	36491	43.500	1339	75222408
21523	36494	43.550	1339	75189123
21545	36497	43.600	1338	75156090
21567	36500	43.650	1338	75123311
21589	36504	43.700	1338	75090784
21612	36507	43.750	1337	75058509
21634	36509	43.800	1337	75026486
21656	36512	43.850	1337	74994714
21679	36515	43.900	1337	74963193
21701	36518	43.950	1336	74931922
21723	36520	44.000	1336	74900902
21745	36523	44.050	1336	74870132
21768	36525	44.100	1336	74839611
21790	36528	44.150	1335	74809339
21812	36530	44.200	1335	74779316
21834	36532	44.250	1335	74749542
21856	36534	44.300	1334	74720015
21879	36537	44.350	1334	74690736
21901	36539	44.400	1334	74661705
21923	36540	44.450	1334	74632920
21945	36542	44.500	1333	74604382
21968	36544	44.550	1333	74576090
21990	36546	44.600	1333	74548044
22012	36547	44.650	1333	74520244
22034	36549	44.700	1332	74492689
22056	36550	44.750	1332	74465379
22079	36551	44.800	1332	74438313
22101	36553	44.850	1332	74411492
22123	36554	44.900	1331	74384914
22145	36555	44.950	1331	74358579
22167	36556	45.000	1331	74332488
22190	36557	45.050	1331	74306640
22212	36558	45.100	1331	74281034
22234	36558	45.150	1330	74255670
22256	36559	45.200	1330	74230548
22278	36560	45.250	1330	74205667
22300	36560	45.300	1330	74181028

22323	36561	45.350	1329	74156629
22345	36561	45.400	1329	74132471
22367	36561	45.450	1329	74108552
22389	36562	45.500	1329	74084874
22411	36562	45.550	1329	74061435
22433	36562	45.600	1328	74038235
22455	36562	45.650	1328	74015273
22478	36562	45.700	1328	73992550
22500	36561	45.750	1328	73970066
22522	36561	45.800	1328	73947819
22544	36561	45.850	1327	73925809
22566	36560	45.900	1327	73904037
22588	36560	45.950	1327	73882501
22610	36559	46.000	1327	73861202
22632	36558	46.050	1327	73840139
22655	36558	46.100	1326	73819312
22677	36557	46.150	1326	73798720
22699	36556	46.200	1326	73778364
22721	36555	46.250	1326	73758242
22743	36554	46.300	1326	73738355
22765	36553	46.350	1325	73718703
22787	36551	46.400	1325	73699284
22809	36550	46.450	1325	73680099
22831	36549	46.500	1325	73661147
22853	36547	46.550	1325	73642428
22875	36546	46.600	1325	73623941
22897	36544	46.650	1324	73605687
22920	36542	46.700	1324	73587665
22942	36540	46.750	1324	73569875
22964	36539	46.800	1324	73552317
22986	36537	46.850	1324	73534989
23008	36535	46.900	1324	73517892
23030	36532	46.950	1324	73501026
23052	36530	47.000	1323	73484389
23074	36528	47.050	1323	73467983
23096	36526	47.100	1323	73451806
23118	36523	47.150	1323	73435859
23140	36521	47.200	1323	73420140
23162	36518	47.250	1323	73404650
23184	36515	47.300	1323	73389389
23206	36513	47.350	1322	73374355
23228	36510	47.400	1322	73359550
23250	36507	47.450	1322	73344971
23272	36504	47.500	1322	73330620
23294	36501	47.550	1322	73316496
23316	36498	47.600	1322	73302598
23338	36494	47.650	1322	73288927

23360	36491	47.700	1321	73275481
23382	36488	47.750	1321	73262261
23404	36484	47.800	1321	73249266
23426	36480	47.850	1321	73236497
23448	36477	47.900	1321	73223952
23470	36473	47.950	1321	73211632
23492	36469	48.000	1321	73199535
23514	36465	48.050	1321	73187663
23536	36461	48.100	1321	73176014
23558	36457	48.150	1320	73164588
23580	36453	48.200	1320	73153386
23602	36449	48.250	1320	73142406
23624	36445	48.300	1320	73131648
23646	36440	48.350	1320	73121113
23668	36436	48.400	1320	73110799
23690	36431	48.450	1320	73100707
23712	36427	48.500	1320	73090836
23734	36422	48.550	1320	73081186
23756	36417	48.600	1320	73071757
23777	36413	48.650	1320	73062548
23799	36408	48.700	1319	73053559
23821	36403	48.750	1319	73044790
23843	36398	48.800	1319	73036240
23865	36392	48.850	1319	73027910
23887	36387	48.900	1319	73019798
23909	36382	48.950	1319	73011905
23931	36376	49.000	1319	73004230
23953	36371	49.050	1319	72996773
23975	36365	49.100	1319	72989535
23997	36360	49.150	1319	72982513
24018	36354	49.200	1319	72975709
24040	36348	49.250	1319	72969121
24062	36342	49.300	1319	72962750
24084	36336	49.350	1319	72956596
24106	36330	49.400	1319	72950657
24128	36324	49.450	1319	72944934
24150	36318	49.500	1318	72939427
24172	36312	49.550	1318	72934135
24194	36305	49.600	1318	72929058
24215	36299	49.650	1318	72924195
24237	36292	49.700	1318	72919547
24259	36286	49.750	1318	72915112
24281	36279	49.800	1318	72910892
24303	36272	49.850	1318	72906884
24325	36266	49.900	1318	72903090
24347	36259	49.950	1318	72899509
24368	36252	50.000	1318	72896141

24390	36245	50.050	1318	72892985
24412	36237	50.100	1318	72890041
24434	36230	50.150	1318	72887308
24456	36223	50.200	1318	72884787
24478	36216	50.250	1318	72882478
24499	36208	50.300	1318	72880379
24521	36201	50.350	1318	72878491
24543	36193	50.400	1318	72876813
24565	36185	50.450	1318	72875345
24587	36177	50.500	1318	72874087
24608	36170	50.550	1318	72873039
24630	36162	50.600	1318	72872199
24652	36154	50.650	1318	72871569
24674	36145	50.700	1318	72871147
24696	36137	50.750	1318	72870934
24717	36129	50.800	1318	72870929
24739	36121	50.850	1318	72871132
24761	36112	50.900	1318	72871542
24783	36104	50.950	1318	72872159
24805	36095	51.000	1318	72872983
24826	36087	51.050	1318	72874014
24848	36078	51.100	1318	72875252
24870	36069	51.150	1318	72876695
24892	36060	51.200	1318	72878345
24913	36051	51.250	1318	72880199
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24957	36033	51.350	1318	72884525
24979	36024	51.400	1318	72886995
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25066	35986	51.600	1318	72898915
25087	35977	51.650	1318	72902405
25109	35967	51.700	1318	72906097
25131	35957	51.750	1318	72909992
25153	35947	51.800	1318	72914089
25174	35937	51.850	1318	72918389
25196	35927	51.900	1318	72922890
25218	35917	51.950	1318	72927593
25239	35907	52.000	1318	72932497
25261	35897	52.050	1318	72937603
25283	35887	52.100	1318	72942909
25305	35876	52.150	1319	72948415
25326	35866	52.200	1319	72954122
25348	35855	52.250	1319	72960029
25370	35845	52.300	1319	72966135
25391	35834	52.350	1319	72972441

25413	35823	52.400	1319	72978945
25435	35812	52.450	1319	72985649
25456	35801	52.500	1319	72992551
25478	35790	52.550	1319	72999651
25500	35779	52.600	1319	73006949
25521	35768	52.650	1319	73014444
25543	35757	52.700	1319	73022137
25565	35745	52.750	1319	73030027
25586	35734	52.800	1319	73038114
25608	35722	52.850	1319	73046397
25630	35711	52.900	1320	73054877
25651	35699	52.950	1320	73063552
25673	35687	53.000	1320	73072423
25695	35676	53.050	1320	73081489
25716	35664	53.100	1320	73090751
25738	35652	53.150	1320	73100207
25759	35640	53.200	1320	73109858
25781	35628	53.250	1320	73119702
25803	35615	53.300	1320	73129741
25824	35603	53.350	1320	73139973
25846	35591	53.400	1320	73150399
25868	35578	53.450	1320	73161018
25889	35566	53.500	1321	73171829
25911	35553	53.550	1321	73182833
25932	35541	53.600	1321	73194029
25954	35528	53.650	1321	73205417
25976	35515	53.700	1321	73216996
25997	35502	53.750	1321	73228767
26019	35489	53.800	1321	73240728
26040	35476	53.850	1321	73252881
26062	35463	53.900	1321	73265224
26084	35450	53.950	1322	73277757
26105	35436	54.000	1322	73290479
26127	35423	54.050	1322	73303392
26148	35410	54.100	1322	73316493
26170	35396	54.150	1322	73329784
26191	35382	54.200	1322	73343263
26213	35369	54.250	1322	73356930
26234	35355	54.300	1322	73370786
26256	35341	54.350	1322	73384829
26278	35327	54.400	1323	73399060
26299	35313	54.450	1323	73413478
26321	35299	54.500	1323	73428082
26342	35285	54.550	1323	73442874
26364	35271	54.600	1323	73457851
26385	35256	54.650	1323	73473015
26407	35242	54.700	1323	73488364

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26450	35213	54.800	1324	73519618
26471	35198	54.850	1324	73535523
26493	35184	54.900	1324	73551612
26514	35169	54.950	1324	73567885
26536	35154	55.000	1324	73584342
26557	35139	55.050	1324	73600982
26579	35124	55.100	1325	73617806
26600	35109	55.150	1325	73634813
26622	35094	55.200	1325	73652002
26643	35078	55.250	1325	73669374
26665	35063	55.300	1325	73686928
26686	35048	55.350	1325	73704663
26708	35032	55.400	1326	73722580
26729	35017	55.450	1326	73740678
26751	35001	55.500	1326	73758957
26772	34985	55.550	1326	73777417
26794	34969	55.600	1326	73796056
26815	34954	55.650	1326	73814876
26837	34938	55.700	1327	73833875
26858	34922	55.750	1327	73853053
26880	34906	55.800	1327	73872410
26901	34889	55.850	1327	73891946
26922	34873	55.900	1327	73911661
26944	34857	55.950	1327	73931553
26965	34840	56.000	1328	73951623
26987	34824	56.050	1328	73971870
27008	34807	56.100	1328	73992295
27030	34791	56.150	1328	74012896
27051	34774	56.200	1328	74033674
27072	34757	56.250	1329	74054627
27094	34740	56.300	1329	74075757
27115	34723	56.350	1329	74097062
27137	34706	56.400	1329	74118542
27158	34689	56.450	1329	74140197
27179	34672	56.500	1329	74162027
27201	34655	56.550	1330	74184031
27222	34637	56.600	1330	74206209
27244	34620	56.650	1330	74228560
27265	34602	56.700	1330	74251084
27286	34585	56.750	1330	74273782
27308	34567	56.800	1331	74296652
27329	34549	56.850	1331	74319694
27351	34531	56.900	1331	74342909
27372	34514	56.950	1331	74366294
27393	34496	57.000	1332	74389852
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27457	34441	57.150	1332	74461548
27479	34423	57.200	1332	74485787
27500	34405	57.250	1333	74510195
27521	34386	57.300	1333	74534773
27543	34368	57.350	1333	74559520
27564	34349	57.400	1333	74584436
27585	34330	57.450	1333	74609520
27607	34312	57.500	1334	74634772
27628	34293	57.550	1334	74660191
27649	34274	57.600	1334	74685778
27671	34255	57.650	1334	74711532
27692	34236	57.700	1335	74737452
27713	34217	57.750	1335	74763539
27735	34197	57.800	1335	74789792
27756	34178	57.850	1335	74816210
27777	34159	57.900	1336	74842793
27799	34139	57.950	1336	74869542
27820	34120	58.000	1336	74896455
27841	34100	58.050	1336	74923532
27862	34081	58.100	1337	74950773
27884	34061	58.150	1337	74978178
27905	34041	58.200	1337	75005745
27926	34021	58.250	1337	75033476
27948	34001	58.300	1338	75061369
27969	33981	58.350	1338	75089425
27990	33961	58.400	1338	75117642
28011	33941	58.450	1338	75146020
28033	33920	58.500	1339	75174560
28054	33900	58.550	1339	75203260
28075	33880	58.600	1339	75232121
28096	33859	58.650	1339	75261141
28118	33839	58.700	1340	75290322
28139	33818	58.750	1340	75319662
28160	33797	58.800	1340	75349160
28181	33776	58.850	1340	75378817
28202	33755	58.900	1341	75408633
28224	33734	58.950	1341	75438606
28245	33713	59.000	1341	75468737
28266	33692	59.050	1341	75499025
28287	33671	59.100	1342	75529470
28309	33650	59.150	1342	75560071
28330	33628	59.200	1342	75590828
28351	33607	59.250	1342	75621741
28372	33585	59.300	1343	75652809
28393	33564	59.350	1343	75684032
28415	33542	59.400	1343	75715410

28436	33520	59.450	1344	75746942
28457	33499	59.500	1344	75778628
28478	33477	59.550	1344	75810467
28499	33455	59.600	1344	75842459
28520	33433	59.650	1345	75874604
28542	33411	59.700	1345	75906902
28563	33388	59.750	1345	75939351
28584	33366	59.800	1346	75971952
28605	33344	59.850	1346	76004704
28626	33321	59.900	1346	76037607
28647	33299	59.950	1346	76070660
28669	33276	60.000	1347	76103863
28690	33253	60.050	1347	76137216
28711	33231	60.100	1347	76170718
28732	33208	60.150	1348	76204370
28753	33185	60.200	1348	76238169
28774	33162	60.250	1348	76272117
28795	33139	60.300	1349	76306212
28816	33116	60.350	1349	76340455
28838	33093	60.400	1349	76374845
28859	33069	60.450	1349	76409381
28880	33046	60.500	1350	76444064
28901	33023	60.550	1350	76478892
28922	32999	60.600	1350	76513866
28943	32976	60.650	1351	76548984
28964	32952	60.700	1351	76584247
28985	32928	60.750	1351	76619655
29006	32904	60.800	1352	76655206
29027	32881	60.850	1352	76690900
29048	32857	60.900	1352	76726737
29070	32833	60.950	1353	76762717
29091	32808	61.000	1353	76798839
29112	32784	61.050	1353	76835103
29133	32760	61.100	1354	76871508
29154	32736	61.150	1354	76908054
29175	32711	61.200	1354	76944741
29196	32687	61.250	1355	76981568
29217	32662	61.300	1355	77018534
29238	32638	61.350	1355	77055639
29259	32613	61.400	1355	77092884
29280	32588	61.450	1356	77130267
29301	32563	61.500	1356	77167788
29322	32538	61.550	1356	77205446
29343	32513	61.600	1357	77243242
29364	32488	61.650	1357	77281174
29385	32463	61.700	1357	77319243
29406	32438	61.750	1358	77357448

29427	32412	61.800	1358	77395788
29448	32387	61.850	1358	77434263
29469	32362	61.900	1359	77472873
29490	32336	61.950	1359	77511617
29511	32310	62.000	1359	77550495
29532	32285	62.050	1360	77589506
29553	32259	62.100	1360	77628650
29574	32233	62.150	1361	77667927
29595	32207	62.200	1361	77707336
29616	32181	62.250	1361	77746876
29637	32155	62.300	1362	77786547
29658	32129	62.350	1362	77826349
29679	32103	62.400	1362	77866281
29700	32076	62.450	1363	77906343
29721	32050	62.500	1363	77946535
29742	32024	62.550	1363	77986855
29763	31997	62.600	1364	78027304
29783	31970	62.650	1364	78067881
29804	31944	62.700	1364	78108586
29825	31917	62.750	1365	78149417
29846	31890	62.800	1365	78190376
29867	31863	62.850	1365	78231460
29888	31836	62.900	1366	78272671
29909	31809	62.950	1366	78314007
29930	31782	63.000	1367	78355467
29951	31755	63.050	1367	78397052
29972	31728	63.100	1367	78438761
29993	31700	63.150	1368	78480593
30013	31673	63.200	1368	78522549
30034	31645	63.250	1368	78564627
30055	31618	63.300	1369	78606827
30076	31590	63.350	1369	78649149
30097	31562	63.400	1369	78691591
30118	31535	63.450	1370	78734155
30139	31507	63.500	1370	78780279
30159	31479	63.550	1371	78829477
30180	31451	63.600	1371	78878823
30201	31423	63.650	1372	78928317
30222	31395	63.700	1372	78977959
30243	31366	63.750	1372	79027748
30264	31338	63.800	1373	79077685
30285	31310	63.850	1373	79127768
30305	31281	63.900	1374	79177998
30326	31252	63.950	1374	79228375
30347	31224	64.000	1375	79278897
30368	31195	64.050	1375	79329565
30389	31166	64.100	1375	79380378

30409	31138	64.150	1376	79431336
30430	31109	64.200	1376	79482438
30451	31080	64.250	1377	79533685
30472	31050	64.300	1377	79585076
30493	31021	64.350	1378	79636610
30513	30992	64.400	1378	79688288
30534	30963	64.450	1379	79740109
30555	30933	64.500	1379	79792072
30576	30904	64.550	1379	79844178
30597	30874	64.600	1380	79896426
30617	30845	64.650	1380	79948815
30638	30815	64.700	1381	80001346
30659	30785	64.750	1381	80054018
30680	30756	64.800	1382	80106830
30700	30726	64.850	1382	80159782
30721	30696	64.900	1383	80212875
30742	30666	64.950	1383	80266107
30763	30635	65.000	1384	80319478
30783	30605	65.050	1384	80372989
30804	30575	65.100	1384	80426638
30825	30545	65.150	1385	80480425
30846	30514	65.200	1385	80534350
30866	30484	65.250	1386	80588413
30887	30453	65.300	1386	80642612
30908	30422	65.350	1387	80696949
30929	30392	65.400	1387	80751422
30949	30361	65.450	1388	80806031
30970	30330	65.500	1388	80860777
30991	30299	65.550	1389	80915657
31011	30268	65.600	1389	80970673
31032	30237	65.650	1390	81025823
31053	30206	65.700	1390	81081108
31074	30174	65.750	1391	81136527
31094	30143	65.800	1391	81192079
31115	30112	65.850	1392	81247765
31136	30080	65.900	1392	81303583
31156	30049	65.950	1392	81359534
31177	30017	66.000	1393	81415618
31198	29985	66.050	1393	81471833
31218	29953	66.100	1394	81528180
31239	29922	66.150	1394	81584658
31260	29890	66.200	1395	81641266
31280	29858	66.250	1395	81698005
31301	29826	66.300	1396	81754874
31322	29793	66.350	1396	81811873
31342	29761	66.400	1397	81869001
31363	29729	66.450	1397	81926257

31384	29696	66.500	1398	81983643
31404	29664	66.550	1398	82041156
31425	29631	66.600	1399	82098797
31445	29599	66.650	1399	82156566
31466	29566	66.700	1400	82214461
31487	29533	66.750	1400	82272483
31507	29501	66.800	1401	82330632
31528	29468	66.850	1401	82388906
31549	29435	66.900	1402	82447306
31569	29402	66.950	1402	82505830
31590	29368	67.000	1403	82564480
31610	29335	67.050	1403	82623254
31631	29302	67.100	1404	82682151
31652	29269	67.150	1404	82741172
31672	29235	67.200	1405	82800317
31693	29202	67.250	1405	82859584
31713	29168	67.300	1406	82918973
31734	29135	67.350	1406	82978485
31754	29101	67.400	1407	83038117
31775	29067	67.450	1407	83097872
31796	29033	67.500	1408	83157746
31816	28999	67.550	1408	83217742
31837	28965	67.600	1409	83277857
31857	28931	67.650	1409	83338091
31878	28897	67.700	1410	83398445
31898	28863	67.750	1410	83458918
31919	28828	67.800	1411	83519509
31939	28794	67.850	1411	83580217
31960	28760	67.900	1412	83641044
31980	28725	67.950	1412	83701987
32001	28690	68.000	1413	83763047
32021	28656	68.050	1413	83824224
32042	28621	68.100	1414	83885516
32063	28586	68.150	1414	83946924
32083	28551	68.200	1415	84008446
32104	28516	68.250	1415	84070084
32124	28481	68.300	1416	84131835
32145	28446	68.350	1417	84193701
32165	28411	68.400	1417	84255679
32186	28376	68.450	1418	84317771
32206	28340	68.500	1418	84379975
32226	28305	68.550	1419	84442291
32247	28269	68.600	1419	84504719
32267	28234	68.650	1420	84567258
32288	28198	68.700	1420	84629908
32308	28162	68.750	1421	84692668
32329	28127	68.800	1421	84755538

32349	28091	68.850	1422	84818518
32370	28055	68.900	1422	84881606
32390	28019	68.950	1423	84944803
32411	27983	69.000	1423	85008109
32431	27947	69.050	1424	85071522
32451	27910	69.100	1424	85135042
32472	27874	69.150	1425	85198670
32492	27838	69.200	1425	85262403
32513	27801	69.250	1426	85326243
32533	27765	69.300	1427	85390188
32554	27728	69.350	1427	85454238
32574	27692	69.400	1428	85518393
32594	27655	69.450	1428	85582652
32615	27618	69.500	1429	85647015
32635	27581	69.550	1429	85711481
32656	27544	69.600	1430	85776050
32676	27507	69.650	1430	85840721
32696	27470	69.700	1431	85905494
32717	27433	69.750	1431	85970368
32737	27396	69.800	1432	86035344
32758	27358	69.850	1432	86100420
32778	27321	69.900	1433	86165596
32798	27283	69.950	1434	86230871
32819	27246	70.000	1434	86296246
32839	27208	70.050	1435	86361719
32859	27171	70.100	1435	86427291
32880	27133	70.150	1436	86492960
32900	27095	70.200	1436	86558726
32920	27057	70.250	1437	86624590
32941	27019	70.300	1437	86690549
32961	26981	70.350	1438	86756604
32981	26943	70.400	1438	86822755
33002	26905	70.450	1439	86889000
33022	26867	70.500	1440	86955340
33042	26828	70.550	1440	87021774
33063	26790	70.600	1441	87088301
33083	26751	70.650	1441	87154921
33103	26713	70.700	1442	87221633
33124	26674	70.750	1442	87288437
33144	26636	70.800	1443	87355333
33164	26597	70.850	1443	87422320
33184	26558	70.900	1444	87489397
33205	26519	70.950	1445	87556564
33225	26480	71.000	1445	87623821
33245	26441	71.050	1446	87691166
33265	26402	71.100	1446	87758601
33286	26363	71.150	1447	87826123

33306	26323	71.200	1447	87893732
33326	26284	71.250	1448	87961429
33346	26245	71.300	1448	88029211
33367	26205	71.350	1449	88097080
33387	26166	71.400	1450	88165035
33407	26126	71.450	1450	88233074
33427	26086	71.500	1451	88301198
33448	26047	71.550	1451	88369405
33468	26007	71.600	1452	88437696
33488	25967	71.650	1452	88506070
33508	25927	71.700	1453	88574526
33529	25887	71.750	1453	88643065
33549	25847	71.800	1454	88711684
33569	25806	71.850	1455	88780384
33589	25766	71.900	1455	88849165
33609	25726	71.950	1456	88918025
33629	25685	72.000	1456	88986964
33650	25645	72.050	1457	89055983
33670	25604	72.100	1457	89125079
33690	25564	72.150	1458	89194253
33710	25523	72.200	1459	89263504
33730	25482	72.250	1459	89332832
33750	25441	72.300	1460	89402235
33771	25400	72.350	1460	89471714
33791	25359	72.400	1461	89541269
33811	25318	72.450	1461	89610897
33831	25277	72.500	1462	89680599
33851	25236	72.550	1463	89750375
33871	25195	72.600	1463	89820224
33891	25154	72.650	1464	89890144
33912	25112	72.700	1464	89960137
33932	25071	72.750	1465	90030200
33952	25029	72.800	1465	90100334
33972	24987	72.850	1466	90170538
33992	24946	72.900	1467	90240812
34012	24904	72.950	1467	90311154
34032	24862	73.000	1468	90381565
34052	24820	73.050	1468	90452044
34072	24778	73.100	1469	90522590
34092	24736	73.150	1469	90593202
34113	24694	73.200	1470	90663881
34133	24652	73.250	1471	90734625
34153	24610	73.300	1471	90805434
34173	24567	73.350	1472	90876307
34193	24525	73.400	1472	90947245
34213	24483	73.450	1473	91018245
34233	24440	73.500	1473	91089308

34253	24397	73.550	1474	91160434
34273	24355	73.600	1475	91231620
34293	24312	73.650	1475	91302868
34313	24269	73.700	1476	91374176
34333	24226	73.750	1476	91445544
34353	24183	73.800	1477	91516971
34373	24140	73.850	1477	91588456
34393	24097	73.900	1478	91660000
34413	24054	73.950	1479	91731601
34433	24011	74.000	1479	91803259
34453	23967	74.050	1480	91874973
34473	23924	74.100	1480	91946742
34493	23881	74.150	1481	92018567
34513	23837	74.200	1481	92090446
34533	23794	74.250	1482	92162379
34553	23750	74.300	1483	92234365
34573	23706	74.350	1483	92306404
34593	23662	74.400	1484	92378494
34613	23618	74.450	1484	92450637
34633	23575	74.500	1485	92522830
34653	23531	74.550	1486	92595073
34673	23486	74.600	1486	92667365
34692	23442	74.650	1487	92739707
34712	23398	74.700	1487	92812097
34732	23354	74.750	1488	92884535
34752	23309	74.800	1488	92957020
34772	23265	74.850	1489	93029551
34792	23221	74.900	1490	93102128
34812	23176	74.950	1490	93174750
34832	23131	75.000	1491	93247417
34852	23087	75.050	1491	93320128
34872	23042	75.100	1492	93392883
34892	22997	75.150	1492	93465680
34911	22952	75.200	1493	93538519
34931	22907	75.250	1494	93611399
34951	22862	75.300	1494	93684321
34971	22817	75.350	1495	93757282
34991	22772	75.400	1495	93830283
35011	22727	75.450	1496	93903323
35031	22681	75.500	1497	93976402
35050	22636	75.550	1497	94049517
35070	22591	75.600	1498	94122670
35090	22545	75.650	1498	94195859
35110	22499	75.700	1499	94269084
35130	22454	75.750	1499	94342343
35149	22408	75.800	1500	94415637
35169	22362	75.850	1501	94488965

35189	22316	75.900	1501	94562326
35209	22270	75.950	1502	94635719
35229	22224	76.000	1502	94709144
35248	22178	76.050	1503	94782600
35268	22132	76.100	1504	94856086
35288	22086	76.150	1504	94929602
35308	22040	76.200	1505	95003147
35328	21993	76.250	1505	95076720
35347	21947	76.300	1506	95150321
35367	21901	76.350	1506	95223949
35387	21854	76.400	1507	95297603
35407	21807	76.450	1508	95371284
35426	21761	76.500	1508	95444989
35446	21714	76.550	1509	95518718
35466	21667	76.600	1509	95592471
35485	21620	76.650	1510	95666247
35505	21573	76.700	1511	95740045
35525	21526	76.750	1511	95813865
35545	21479	76.800	1512	95887705
35564	21432	76.850	1512	95961566
35584	21385	76.900	1513	96035447
35604	21338	76.950	1513	96109346
35623	21290	77.000	1514	96183263
35643	21243	77.050	1515	96257197
35663	21195	77.100	1515	96331149
35682	21148	77.150	1516	96405116
35702	21100	77.200	1516	96479099
35722	21053	77.250	1517	96553096
35741	21005	77.300	1518	96627107
35761	20957	77.350	1518	96701131
35781	20909	77.400	1519	96775168
35800	20861	77.450	1519	96849216
35820	20813	77.500	1520	96923276
35840	20765	77.550	1520	96997345
35859	20717	77.600	1521	97071425
35879	20669	77.650	1522	97145513
35898	20620	77.700	1522	97219609
35918	20572	77.750	1523	97293713
35938	20524	77.800	1523	97367824
35957	20475	77.850	1524	97441940
35977	20427	77.900	1524	97516062
35996	20378	77.950	1525	97590188
36016	20329	78.000	1526	97664318
36035	20281	78.050	1526	97738452
36055	20232	78.100	1527	97812587
36075	20183	78.150	1527	97886724
36094	20134	78.200	1528	97960862

36114	20085	78.250	1529	98035000
36133	20036	78.300	1529	98109137
36153	19987	78.350	1530	98183273
36172	19937	78.400	1530	98257407
36192	19888	78.450	1531	98331538
36211	19839	78.500	1531	98405665
36231	19789	78.550	1532	98479788
36250	19740	78.600	1533	98553906
36270	19690	78.650	1533	98628018
36289	19641	78.700	1534	98702123
36309	19591	78.750	1534	98776221
36328	19541	78.800	1535	98850310
36348	19492	78.850	1535	98924391
36367	19442	78.900	1536	98998462
36387	19392	78.950	1537	99072522
36406	19342	79.000	1537	99146572
36425	19292	79.050	1538	99220609
36445	19242	79.100	1538	99294634
36464	19191	79.150	1539	99368645
36484	19141	79.200	1539	99442641
36503	19091	79.250	1540	99516623
36523	19041	79.300	1541	99590589
36542	18990	79.350	1541	99664538
36561	18940	79.400	1542	99738469
36581	18889	79.450	1542	99812383
36600	18838	79.500	1543	99886277
36620	18788	79.550	1543	99960152
36639	18737	79.600	1544	100034006
36658	18686	79.650	1545	100107838
36678	18635	79.700	1545	100181649
36697	18584	79.750	1546	100255437
36716	18533	79.800	1546	100329200
36736	18482	79.850	1547	100402940
36755	18431	79.900	1547	100476654
36774	18380	79.950	1548	100550341
36794	18328	80.000	1549	100624002
36813	18277	80.050	1549	100697635
36832	18226	80.100	1550	100771240
36852	18174	80.150	1550	100844815
36871	18123	80.200	1551	100918360
36890	18071	80.250	1551	100991875
36910	18019	80.300	1552	101065357
36929	17968	80.350	1553	101138807
36948	17916	80.400	1553	101212223
36967	17864	80.450	1554	101285605
36987	17812	80.500	1554	101358952
37006	17760	80.550	1555	101432263

37025	17708	80.600	1555	101505538
37045	17656	80.650	1556	101578775
37064	17604	80.700	1556	101651973
37083	17552	80.750	1557	101725133
37102	17499	80.800	1558	101798252
37121	17447	80.850	1558	101871331
37141	17394	80.900	1559	101944368
37160	17342	80.950	1559	102017362
37179	17289	81.000	1560	102090314
37198	17237	81.050	1560	102163221
37217	17184	81.100	1561	102236083
37237	17131	81.150	1562	102308899
37256	17079	81.200	1562	102381668
37275	17026	81.250	1563	102454390
37294	16973	81.300	1563	102527064
37313	16920	81.350	1564	102599689
37332	16867	81.400	1564	102672263
37352	16814	81.450	1565	102744786
37371	16760	81.500	1565	102817258
37390	16707	81.550	1566	102889677
37409	16654	81.600	1566	102962043
37428	16601	81.650	1567	103034354
37447	16547	81.700	1568	103106611
37466	16494	81.750	1568	103178811
37485	16440	81.800	1569	103250954
37505	16387	81.850	1569	103323040
37524	16333	81.900	1570	103395067
37543	16279	81.950	1570	103467034
37562	16225	82.000	1571	103538941
37581	16171	82.050	1571	103610787
37600	16118	82.100	1572	103682571
37619	16064	82.150	1572	103754292
37638	16010	82.200	1573	103825949
37657	15955	82.250	1574	103897542
37676	15901	82.300	1574	103969069
37695	15847	82.350	1575	104040529
37714	15793	82.400	1575	104111922
37733	15738	82.450	1576	104183247
37752	15684	82.500	1576	104254503
37771	15630	82.550	1577	104325689
37790	15575	82.600	1577	104396804
37809	15520	82.650	1578	104467847
37828	15466	82.700	1578	104538818
37847	15411	82.750	1579	104609715
37866	15356	82.800	1579	104680538
37885	15302	82.850	1580	104751286
37904	15247	82.900	1581	104821957

37923	15192	82.950	1581	104892552
37942	15137	83.000	1582	104963068
37961	15082	83.050	1582	105033506
37980	15027	83.100	1583	105103864
37999	14971	83.150	1583	105174141
38017	14916	83.200	1584	105244337
38036	14861	83.250	1584	105314450
38055	14805	83.300	1585	105384480
38074	14750	83.350	1585	105454426
38093	14695	83.400	1586	105524287
38112	14639	83.450	1586	105594061
38131	14583	83.500	1587	105663749
38150	14528	83.550	1587	105733348
38168	14472	83.600	1588	105802859
38187	14416	83.650	1588	105872281
38206	14360	83.700	1589	105941612
38225	14304	83.750	1590	106010851
38244	14249	83.800	1590	106079998
38263	14193	83.850	1591	106149051
38281	14136	83.900	1591	106218010
38300	14080	83.950	1592	106286874
38319	14024	84.000	1592	106355642
38338	13968	84.050	1593	106424313
38356	13912	84.100	1593	106492887
38375	13855	84.150	1594	106561361
38394	13799	84.200	1594	106629735
38413	13742	84.250	1595	106698009
38432	13686	84.300	1595	106766181
38450	13629	84.350	1596	106834251
38469	13572	84.400	1596	106902217
38488	13516	84.450	1597	106970079
38506	13459	84.500	1597	107037835
38525	13402	84.550	1598	107105486
38544	13345	84.600	1598	107173029
38563	13288	84.650	1599	107240464
38581	13231	84.700	1599	107307789
38600	13174	84.750	1600	107375005
38619	13117	84.800	1600	107442110
38637	13060	84.850	1601	107509103
38656	13003	84.900	1601	107575984
38675	12945	84.950	1602	107642750
38693	12888	85.000	1602	107709402
38712	12831	85.050	1603	107775939
38730	12773	85.100	1603	107842358
38749	12716	85.150	1604	107908661
38768	12658	85.200	1604	107974845
38786	12601	85.250	1605	108040909

38805	12543	85.300	1605	108106853
38823	12485	85.350	1606	108172676
38842	12427	85.400	1606	108238377
38861	12369	85.450	1607	108303954
38879	12312	85.500	1607	108369408
38898	12254	85.550	1608	108434736
38916	12196	85.600	1608	108499939
38935	12138	85.650	1609	108565014
38953	12079	85.700	1609	108629962
38972	12021	85.750	1609	108694780
38990	11963	85.800	1610	108759469
39009	11905	85.850	1610	108824027
39027	11846	85.900	1611	108888454
39046	11788	85.950	1611	108952748
39064	11729	86.000	1612	109016908
39083	11671	86.050	1612	109080933
39101	11612	86.100	1613	109144823
39120	11554	86.150	1613	109208577
39138	11495	86.200	1614	109272193
39157	11436	86.250	1614	109335671
39175	11377	86.300	1615	109399009
39194	11319	86.350	1615	109462207
39212	11260	86.400	1616	109525264
39230	11201	86.450	1616	109588179
39249	11142	86.500	1617	109650950
39267	11083	86.550	1617	109713578
39286	11023	86.600	1617	109776060
39304	10964	86.650	1618	109838396
39322	10905	86.700	1618	109900585
39341	10846	86.750	1619	109962626
39359	10786	86.800	1619	110024518
39377	10727	86.850	1620	110086260
39396	10668	86.900	1620	110147852
39414	10608	86.950	1621	110209291
39432	10549	87.000	1621	110270578
39451	10489	87.050	1622	110331711
39469	10429	87.100	1622	110392689
39487	10370	87.150	1622	110453512
39506	10310	87.200	1623	110514177
39524	10250	87.250	1623	110574686
39542	10190	87.300	1624	110635035
39560	10130	87.350	1624	110695225
39579	10070	87.400	1625	110755255
39597	10010	87.450	1625	110815123
39615	9950	87.500	1626	110874828
39633	9890	87.550	1626	110934370
39652	9830	87.600	1626	110993748

39670	9769	87.650	1627	111052960
39688	9709	87.700	1627	111112007
39706	9649	87.750	1628	111170885
39724	9588	87.800	1628	111229596
39743	9528	87.850	1629	111288137
39761	9467	87.900	1629	111346508
39779	9407	87.950	1629	111404708
39797	9346	88.000	1630	111462736
39815	9286	88.050	1630	111520591
39833	9225	88.100	1631	111578272
39851	9164	88.150	1631	111635777
39870	9103	88.200	1632	111693107
39888	9042	88.250	1632	111750260
39906	8982	88.300	1632	111807235
39924	8921	88.350	1633	111864031
39942	8860	88.400	1633	111920647
39960	8799	88.450	1634	111977082
39978	8737	88.500	1634	112033336
39996	8676	88.550	1634	112089406
40014	8615	88.600	1635	112145294
40032	8554	88.650	1635	112200996
40050	8492	88.700	1636	112256513
40068	8431	88.750	1636	112311843
40086	8370	88.800	1636	112366986
40104	8308	88.850	1637	112421940
40122	8247	88.900	1637	112476705
40140	8185	88.950	1638	112531279
40158	8123	89.000	1638	112585662
40176	8062	89.050	1638	112639852
40194	8000	89.100	1639	112693849
40212	7938	89.150	1639	112747652
40230	7876	89.200	1640	112801260
40248	7815	89.250	1640	112854671
40266	7753	89.300	1640	112907885
40284	7691	89.350	1641	112960902
40302	7629	89.400	1641	113013719
40320	7567	89.450	1642	113066336
40338	7504	89.500	1642	113118752
40355	7442	89.550	1642	113170966
40373	7380	89.600	1643	113222977
40391	7318	89.650	1643	113274785
40409	7255	89.700	1643	113326387
40427	7193	89.750	1644	113377784
40445	7131	89.800	1644	113428974
40463	7068	89.850	1645	113479957
40480	7006	89.900	1645	113530731
40498	6943	89.950	1645	113581295

40516	6881	90.000	1646	113631649
40534	6818	90.050	1646	113681792
40551	6755	90.100	1646	113731722
40569	6693	90.150	1647	113781439
40587	6630	90.200	1647	113830941
40605	6567	90.250	1647	113880228
40622	6504	90.300	1648	113929300
40640	6441	90.350	1648	113978154
40658	6378	90.400	1649	114026790
40676	6315	90.450	1649	114075207
40693	6252	90.500	1649	114123404
40711	6189	90.550	1650	114171380
40729	6126	90.600	1650	114219135
40746	6063	90.650	1650	114266667
40764	5999	90.700	1651	114313975
40782	5936	90.750	1651	114361059
40799	5873	90.800	1651	114407917
40817	5809	90.850	1652	114454548
40835	5746	90.900	1652	114500953
40852	5682	90.950	1652	114547129
40870	5619	91.000	1653	114593076
40887	5555	91.050	1653	114638793
40905	5492	91.100	1653	114684278
40923	5428	91.150	1654	114729532
40940	5364	91.200	1654	114774553
40958	5300	91.250	1654	114819340
40975	5237	91.300	1655	114863893
40993	5173	91.350	1655	114908209
41010	5109	91.400	1655	114952290
41028	5045	91.450	1655	114996133
41045	4981	91.500	1656	115039737
41063	4917	91.550	1656	115083102
41080	4853	91.600	1656	115126227
41098	4789	91.650	1657	115169111
41115	4725	91.700	1657	115211753
41133	4660	91.750	1657	115254152
41150	4596	91.800	1658	115296308
41168	4532	91.850	1658	115338219
41185	4467	91.900	1658	115379884
41203	4403	91.950	1659	115421302
41220	4339	92.000	1659	115462474
41237	4274	92.050	1659	115503397
41255	4210	92.100	1659	115544071
41272	4145	92.150	1660	115584495
41289	4081	92.200	1660	115624668
41307	4016	92.250	1660	115664590
41324	3951	92.300	1661	115704259

41342	3886	92.350	1661	115743674
41359	3822	92.400	1661	115782835
41376	3757	92.450	1661	115821741
41393	3692	92.500	1662	115860390
41411	3627	92.550	1662	115898783
41428	3562	92.600	1662	115936918
41445	3497	92.650	1663	115974794
41463	3432	92.700	1663	116012410
41480	3367	92.750	1663	116049766
41497	3302	92.800	1663	116086861
41514	3237	92.850	1664	116123693
41532	3172	92.900	1664	116160263
41549	3107	92.950	1664	116196569
41566	3041	93.000	1664	116232610
41583	2976	93.050	1665	116268386
41600	2911	93.100	1665	116303895
41618	2845	93.150	1665	116339137
41635	2780	93.200	1665	116374111
41652	2714	93.250	1666	116408816
41669	2649	93.300	1666	116443251
41686	2583	93.350	1666	116477416
41703	2518	93.400	1666	116511310
41720	2452	93.450	1667	116544931
41737	2386	93.500	1667	116578279
41755	2321	93.550	1667	116611354
41772	2255	93.600	1667	116644154
41789	2189	93.650	1668	116676678
41806	2123	93.700	1668	116708927
41823	2057	93.750	1668	116740898
41840	1991	93.800	1668	116772591
41857	1926	93.850	1668	116804006
41874	1860	93.900	1669	116835141
41891	1793	93.950	1669	116865996
41908	1727	94.000	1669	116896570
41925	1661	94.050	1669	116926863
41942	1595	94.100	1670	116956872
41959	1529	94.150	1670	116986599
41976	1463	94.200	1670	117016041
41993	1397	94.250	1670	117045198
42010	1330	94.300	1670	117074069
42027	1264	94.350	1671	117102654
42043	1198	94.400	1671	117130952
42060	1131	94.450	1671	117158962
42077	1065	94.500	1671	117186683
42094	998	94.550	1671	117214115
42111	932	94.600	1672	117241256
42128	865	94.650	1672	117268107

42145	799	94.700	1672	117294665
42162	732	94.750	1672	117320931
42178	665	94.800	1672	117346904
42195	599	94.850	1673	117372583
42212	532	94.900	1673	117397967
42229	465	94.950	1673	117423056
42246	398	95.000	1673	117447849
42262	331	95.050	1673	117472345
42279	264	95.100	1673	117496543
42296	198	95.150	1674	117520443
42312	131	95.200	1674	117544045
42329	64	95.250	1674	117567346
42345	-1	95.298	1674	117589433

Table 1 Forty-Five Degrees Elevation