



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LSL24MFA-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] s14050047e-03
[TESTLAB] LEADING TESTING LABORATORIES
[TESTDATE] 2017-05-29
[ISSUEDATE] 2017-05-30
[NEARFIELD]
[LAMPPOSITION] 0,0
[LUMCAT] LSL24MFA-40
[LUMINAIRE] 2x4 Recessed Troffer with flat frosted acrylic lens, 4000K Med Power
[MANUFAC] LAMAR LIGHTING CO., INC.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	44.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.79 ft
Luminous Width (90-270)	3.79 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3165	3137	3006
55	2661	2594	2291
65	2156	1944	1847
75	2057	1770	1794
85	2232	2086	1948

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261
0.5	2214.511	2214.762	2214.532	2214.730	2214.720	2214.783	2214.501	2214.501	2214.522	2214.522
1.0	2214.981	2215.012	2214.542	2214.992	2214.992	2215.044	2214.751	2214.751	2214.772	2214.772
1.5	2214.772	2215.012	2214.793	2215.242	2215.242	2215.054	2215.002	2214.762	2215.023	2214.532
2.0	2214.762	2215.012	2214.793	2215.253	2215.253	2215.054	2215.012	2214.762	2214.313	2214.292
2.5	2214.532	2214.772	2214.553	2215.253	2215.253	2215.284	2214.762	2214.532	2214.041	2213.571
3.0	2214.281	2214.281	2214.302	2214.793	2215.012	2214.824	2214.302	2214.052	2213.561	2212.819
3.5	2213.321	2213.582	2213.331	2214.292	2214.292	2214.083	2213.561	2213.550	2212.809	2211.827
4.0	2212.068	2212.590	2212.621	2213.300	2213.300	2212.913	2212.799	2212.569	2211.869	2210.877
4.5	2211.128	2211.817	2211.399	2212.057	2212.047	2211.900	2211.410	2211.075	2210.376	2209.645
5.0	2210.125	2210.344	2210.626	2210.887	2210.887	2210.668	2210.146	2209.446	2208.882	2207.661
5.5	2208.412	2209.342	2209.394	2209.405	2209.384	2208.924	2208.402	2207.922	2206.658	2205.917
6.0	2206.909	2208.110	2208.151	2207.922	2207.901	2207.671	2206.428	2206.199	2204.987	2203.797
6.5	2205.186	2206.460	2206.178	2206.199	2206.178	2205.708	2204.935	2204.465	2203.034	2201.812
7.0	2203.671	2204.726	2204.538	2204.695	2203.922	2203.598	2202.930	2202.230	2200.800	2199.567
7.5	2202.042	2203.212	2202.564	2202.940	2201.823	2201.123	2200.591	2199.724	2198.053	2197.082
8.0	2199.828	2200.967	2200.549	2200.612	2199.348	2198.606	2198.105	2197.155	2195.787	2194.575
8.5	2197.353	2198.753	2198.074	2198.126	2196.852	2196.131	2195.380	2193.970	2192.779	2191.599
9.0	2194.837	2196.142	2195.557	2195.129	2194.356	2193.865	2192.382	2190.941	2189.761	2188.550
9.5	2192.142	2193.897	2193.103	2192.654	2191.662	2190.900	2189.166	2187.746	2186.576	2185.333
10.0	2189.385	2190.722	2190.127	2189.667	2188.675	2187.923	2186.179	2184.519	2183.339	2181.887
10.5	2186.639	2187.704	2186.837	2186.649	2185.427	2184.174	2182.232	2181.020	2179.611	2178.159
11.0	2183.819	2184.937	2183.809	2183.130	2182.169	2180.394	2178.692	2177.491	2175.851	2173.919
11.5	2179.872	2181.668	2180.070	2179.851	2178.911	2176.875	2174.943	2173.491	2171.402	2169.899
12.0	2176.373	2178.180	2176.833	2176.154	2175.183	2173.157	2170.985	2169.042	2166.724	2165.450
12.5	2172.645	2174.201	2173.314	2172.405	2171.465	2169.429	2167.006	2164.573	2161.983	2160.782
13.0	2168.677	2170.034	2169.617	2168.196	2167.507	2165.011	2162.098	2160.082	2157.534	2155.853
13.5	2164.949	2166.275	2165.178	2164.207	2163.048	2160.531	2157.357	2155.101	2152.595	2150.610
14.0	2160.751	2162.265	2161.356	2159.738	2158.589	2155.299	2152.219	2149.723	2147.342	2145.608
14.5	2156.250	2157.806	2156.647	2155.487	2153.837	2150.276	2147.394	2144.188	2141.588	2140.105
15.0	2151.488	2153.315	2151.905	2150.976	2148.835	2145.525	2141.911	2138.935	2136.408	2134.612
15.5	2146.559	2148.135	2146.757	2146.026	2143.635	2140.073	2136.450	2133.484	2130.445	2128.503
16.0	2141.086	2143.144	2141.755	2140.794	2138.121	2134.466	2130.925	2127.479	2124.722	2122.508
16.5	2136.095	2137.880	2136.533	2135.416	2132.638	2128.503	2125.056	2121.631	2118.718	2116.514
17.0	2130.455	2132.304	2131.260	2129.693	2126.999	2122.268	2119.041	2115.679	2112.452	2110.248
17.5	2124.357	2126.926	2125.370	2123.835	2120.649	2116.149	2112.462	2109.329	2106.238	2103.607
18.0	2118.362	2120.931	2119.584	2117.851	2114.133	2109.799	2105.852	2102.312	2099.012	2096.599
18.5	2113.392	2114.739	2113.642	2112.138	2107.721	2103.586	2099.356	2095.409	2091.608	2090.125
19.0	2107.314	2108.744	2107.658	2105.591	2101.142	2096.631	2092.422	2088.631	2085.070	2082.950
19.5	2100.745	2102.134	2101.079	2099.032	2094.333	2090.302	2085.363	2081.781	2077.990	2076.058
20.0	2094.469	2095.367	2094.563	2091.775	2087.357	2083.023	2077.844	2073.792	2070.325	2067.944
20.5	2087.744	2088.631	2087.368	2084.579	2079.922	2075.557	2069.938	2066.053	2062.837	2059.944
21.0	2080.454	2081.854	2080.298	2076.601	2072.403	2067.516	2062.190	2058.294	2054.827	2052.363
21.5	2072.935	2074.147	2073.029	2068.998	2064.873	2059.725	2054.848	2050.723	2046.838	2044.144
22.0	2065.208	2066.409	2065.584	2061.594	2057.156	2051.788	2046.734	2042.546	2038.421	2035.758
22.5	2057.522	2058.764	2057.636	2053.867	2049.261	2043.893	2038.390	2034.119	2029.806	2027.289
23.0	2049.115	2050.473	2049.188	2045.606	2040.468	2035.664	2029.816	2025.430	2021.222	2018.715
23.5	2040.593	2042.191	2040.656	2037.461	2032.270	2027.383	2021.441	2016.700	2012.502	2009.985
24.0	2032.062	2033.492	2032.323	2028.438	2023.488	2017.901	2012.356	2007.928	2003.114	2000.419
24.5	2023.248	2024.678	2022.694	2019.352	2014.413	2008.951	2003.082	1998.372	1993.777	1991.678
25.0	2014.068	2016.178	2014.152	2010.612	2005.233	1999.699	1993.610	1989.381	1984.253	1982.416
25.5	2005.411	2007.019	2004.951	2001.192	1995.574	1990.697	1984.619	1979.272	1974.583	1972.756
26.0	1995.751	1997.547	1995.292	1991.605	1985.935	1981.100	1974.155	1969.163	1964.861	1962.292
26.5	1985.789	1987.386	1985.507	1981.601	1975.680	1970.302	1964.036	1959.420	1954.533	1951.943

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27.0	1975.513	1977.403	1975.920	1971.377	1965.696	1960.360	1953.990	1949.102	1944.528	1941.468
27.5	1965.289	1967.179	1965.738	1960.903	1955.232	1950.074	1943.526	1938.440	1934.263	1930.524
28.0	1954.324	1956.653	1954.742	1950.126	1944.507	1939.265	1932.059	1927.715	1922.588	1919.538
28.5	1942.972	1945.802	1943.818	1939.704	1933.897	1927.934	1921.303	1916.364	1910.996	1908.322
29.0	1931.746	1934.336	1933.145	1928.070	1922.619	1916.531	1910.160	1904.855	1899.759	1897.211
29.5	1919.747	1922.702	1921.387	1916.520	1910.683	1905.231	1898.986	1892.731	1888.042	1885.076
30.0	1907.706	1910.630	1908.918	1905.221	1898.882	1893.138	1887.405	1881.275	1876.127	1872.910
30.5	1895.352	1897.556	1896.929	1892.888	1887.583	1881.150	1875.061	1869.005	1863.553	1860.619
31.0	1882.727	1885.619	1884.648	1880.972	1875.364	1869.172	1862.728	1856.149	1851.011	1847.920
31.5	1870.111	1872.398	1872.179	1867.908	1862.540	1856.828	1849.894	1843.116	1838.219	1835.127
32.0	1857.058	1859.648	1858.488	1855.063	1849.946	1843.691	1836.443	1830.449	1825.593	1821.593
32.5	1843.691	1845.978	1845.508	1841.853	1836.203	1830.710	1823.515	1817.176	1812.414	1808.790
33.0	1829.436	1832.496	1831.869	1828.235	1822.888	1816.842	1810.472	1803.955	1798.566	1795.757
33.5	1815.066	1818.878	1817.364	1814.670	1809.793	1803.276	1796.373	1789.460	1784.771	1781.283
34.0	1801.156	1804.373	1802.806	1800.175	1795.569	1788.761	1781.847	1775.790	1770.506	1766.820
34.5	1786.223	1789.753	1788.740	1786.557	1781.419	1775.174	1768.230	1761.264	1755.437	1752.576
35.0	1771.822	1774.798	1774.025	1771.091	1767.206	1760.303	1753.317	1746.080	1740.462	1736.995
35.5	1756.701	1759.666	1758.674	1756.262	1752.179	1745.568	1737.945	1730.624	1725.100	1721.591
36.0	1740.921	1744.378	1743.448	1741.224	1736.326	1730.071	1722.312	1715.482	1709.571	1705.739
36.5	1725.257	1728.755	1727.753	1725.100	1720.766	1714.291	1707.086	1698.658	1693.531	1689.771
37.0	1709.080	1712.318	1711.555	1709.352	1704.861	1698.408	1690.022	1682.409	1676.780	1673.564
37.5	1692.299	1696.089	1695.254	1692.998	1688.435	1681.636	1672.958	1665.544	1659.727	1656.364
38.0	1675.997	1679.266	1679.213	1676.624	1672.050	1665.105	1656.636	1649.336	1642.799	1639.248
38.5	1658.912	1662.390	1662.014	1659.863	1654.725	1648.302	1639.311	1631.531	1624.805	1620.743
39.0	1641.222	1645.201	1644.877	1642.903	1638.078	1631.029	1621.756	1613.339	1606.008	1602.029
39.5	1623.176	1627.897	1627.677	1625.202	1620.545	1612.796	1602.959	1594.740	1587.294	1583.785
40.0	1606.238	1609.747	1609.705	1606.687	1602.123	1594.531	1585.091	1576.204	1568.048	1564.518
40.5	1587.910	1591.649	1591.743	1588.589	1583.670	1576.454	1566.220	1556.801	1547.997	1543.736
41.0	1569.102	1573.583	1573.039	1570.669	1565.489	1557.271	1546.420	1535.560	1526.861	1522.464
41.5	1550.838	1554.994	1554.681	1550.859	1546.034	1537.669	1526.077	1515.781	1506.967	1502.173
42.0	1531.790	1536.050	1535.873	1532.124	1526.714	1518.527	1507.259	1496.315	1485.809	1480.901
42.5	1512.407	1516.449	1516.365	1512.982	1507.531	1498.738	1486.436	1474.259	1463.628	1458.010
43.0	1493.432	1497.443	1496.659	1493.192	1487.177	1478.666	1465.717	1451.942	1440.612	1434.931
43.5	1472.442	1477.434	1476.348	1472.526	1466.500	1456.715	1443.797	1430.221	1418.734	1412.583
44.0	1452.694	1457.362	1456.391	1452.538	1445.792	1436.664	1423.673	1407.915	1395.571	1389.180
44.5	1432.038	1436.675	1435.954	1431.391	1424.874	1415.987	1401.586	1385.347	1371.270	1364.514
45.0	1411.914	1416.092	1415.361	1411.580	1404.500	1394.297	1379.144	1362.655	1346.593	1341.038
45.5	1389.796	1395.049	1393.869	1389.608	1382.872	1372.670	1356.922	1338.396	1322.491	1315.881
46.0	1369.652	1373.735	1372.764	1368.743	1361.778	1351.324	1335.085	1315.045	1298.054	1291.026
46.5	1347.836	1351.679	1350.614	1346.771	1340.505	1329.394	1311.474	1289.679	1272.020	1264.250
47.0	1325.885	1329.812	1329.018	1325.050	1318.251	1306.837	1287.517	1264.689	1244.534	1237.443
47.5	1304.049	1308.111	1306.921	1302.514	1296.519	1285.304	1265.368	1239.741	1218.834	1210.834
48.0	1282.348	1286.170	1284.489	1281.137	1274.579	1263.384	1241.944	1213.821	1192.434	1183.672
48.5	1259.791	1264.094	1261.796	1258.475	1253.170	1240.597	1216.463	1187.996	1165.178	1155.904
49.0	1238.028	1240.493	1239.208	1235.647	1230.791	1217.038	1191.692	1161.188	1136.710	1128.878
49.5	1214.176	1217.487	1216.140	1212.808	1207.973	1193.948	1166.587	1134.110	1109.527	1100.442
50.0	1191.682	1194.773	1192.987	1191.452	1186.126	1171.485	1141.785	1106.833	1081.581	1072.935
50.5	1168.739	1171.955	1169.898	1168.530	1164.029	1146.568	1114.936	1079.493	1054.712	1045.908
51.0	1146.286	1148.156	1146.829	1146.401	1141.597	1122.810	1088.839	1052.456	1028.416	1019.581
51.5	1121.714	1125.567	1124.586	1124.440	1119.385	1098.395	1062.784	1025.931	1001.296	993.422
52.0	1100.003	1102.415	1101.528	1102.248	1095.867	1074.063	1035.966	998.643	975.522	967.325
52.5	1077.331	1078.616	1079.065	1079.556	1073.144	1048.874	1008.867	973.214	950.658	942.397
53.0	1053.281	1055.150	1055.558	1056.852	1049.323	1023.247	983.135	947.880	926.075	918.744
53.5	1030.014	1032.311	1033.408	1034.619	1026.526	998.131	957.696	922.827	902.004	894.568
54.0	1007.739	1008.282	1010.841	1012.052	1003.708	972.828	931.077	897.774	878.810	871.688
54.5	984.952	986.529	988.869	989.714	979.835	946.909	905.596	874.967	856.483	850.071

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55.0	962.719	964.213	966.552	967.868	955.649	921.449	881.702	852.034	834.970	828.965
55.5	939.682	941.875	944.340	945.175	931.818	895.999	858.237	829.080	813.040	806.878
56.0	917.209	918.117	922.117	922.597	907.267	871.207	833.330	806.617	792.049	786.441
56.5	895.341	897.085	900.270	899.550	883.175	845.893	810.366	785.794	771.717	766.245
57.0	873.975	875.875	878.674	877.651	858.853	822.250	788.572	765.315	751.489	747.364
57.5	852.650	854.603	856.733	854.874	835.116	798.555	767.331	744.387	731.783	725.694
58.0	831.075	832.213	835.022	832.986	810.941	775.716	745.171	720.682	713.518	707.889
58.5	810.345	812.152	814.324	810.554	788.060	753.254	720.222	702.501	695.264	690.105
59.0	790.232	791.224	793.376	788.467	764.250	732.315	701.582	684.497	677.009	672.310
59.5	769.921	770.766	771.706	766.015	741.213	711.847	683.150	666.493	658.755	654.525
60.0	750.079	749.860	750.987	743.562	732.180	691.400	664.718	648.500	640.500	637.378
60.5	731.668	732.409	731.125	725.830	708.401	670.952	646.286	631.593	623.760	621.306
61.0	713.393	713.842	711.868	704.370	683.922	650.505	628.355	614.424	607.897	605.360
61.5	695.117	695.190	692.622	682.732	659.444	630.047	610.226	597.528	591.471	589.758
62.0	676.832	676.550	673.365	661.105	634.976	611.208	592.504	581.487	576.443	574.856
62.5	658.556	657.909	654.118	639.467	615.354	592.839	576.025	566.052	561.374	559.933
63.0	640.281	639.268	634.861	620.084	596.703	576.088	559.870	550.607	547.297	545.584
63.5	623.176	621.954	616.607	600.431	578.260	558.471	543.589	535.726	532.948	531.925
64.0	606.352	604.848	599.115	582.093	560.559	541.772	528.207	521.816	519.591	518.746
64.5	590.552	588.599	581.122	564.413	543.287	525.450	513.848	507.989	506.287	505.493
65.0	574.845	572.652	565.165	547.057	526.327	510.308	499.123	494.131	493.181	492.356
65.5	559.296	557.030	548.686	530.222	510.569	494.936	484.921	481.172	480.556	479.950
66.0	544.279	541.960	533.073	513.994	494.685	479.866	471.031	468.577	468.264	467.888
66.5	529.920	527.027	517.503	498.622	479.699	465.507	458.333	456.140	456.223	455.826
67.0	515.884	512.929	503.165	483.720	465.225	451.963	444.799	444.015	444.423	443.932
67.5	501.932	499.102	488.680	469.549	451.117	438.512	432.643	432.465	433.207	432.831
68.0	488.628	485.787	475.240	455.607	437.593	425.657	420.654	421.156	422.284	421.970
68.5	475.961	472.546	461.560	442.533	424.591	413.177	409.282	410.201	411.287	411.235
69.0	463.366	459.878	449.268	429.834	412.175	401.011	397.575	399.580	400.771	400.687
69.5	450.960	447.462	436.423	417.354	399.768	389.106	386.715	389.284	390.641	390.798
70.0	439.222	435.713	424.675	405.721	388.104	377.890	376.000	379.008	380.773	380.731
70.5	427.766	424.289	413.188	394.693	376.971	367.197	366.090	369.254	371.029	371.113
71.0	416.864	413.021	402.400	383.091	366.351	356.733	356.054	360.022	361.913	361.954
71.5	406.097	402.108	391.518	372.982	355.991	346.561	346.770	351.052	352.890	353.120
72.0	395.288	391.425	380.929	362.560	345.747	336.724	337.497	341.841	343.742	343.867
72.5	384.898	381.065	370.580	352.796	336.097	327.440	328.495	332.923	335.022	335.137
73.0	374.831	370.873	360.680	342.771	326.793	318.511	319.692	324.621	326.887	326.772
73.5	365.045	360.597	350.885	333.748	317.885	309.760	311.692	316.454	318.438	318.574
74.0	355.240	350.895	341.465	324.662	309.092	301.510	303.453	308.162	309.969	309.823
74.5	345.569	341.309	332.077	315.775	300.508	293.407	295.359	300.006	301.489	301.291
75.0	335.826	331.555	322.323	306.732	292.331	285.512	287.381	291.830	293.313	292.905
75.5	326.312	321.895	313.039	298.471	284.279	277.732	279.862	283.507	284.707	284.300
76.0	316.976	312.486	303.944	289.751	276.499	270.181	271.946	274.996	275.935	275.371
76.5	307.515	303.087	294.795	281.470	268.782	262.829	263.926	266.516	267.466	266.934
77.0	297.594	293.584	285.397	272.813	261.211	255.561	256.073	258.391	258.892	258.245
77.5	287.966	284.248	276.228	264.782	253.619	248.073	248.053	249.546	250.152	249.421
78.0	278.275	274.734	267.121	256.052	246.037	240.450	239.750	240.753	241.139	240.356
78.5	268.364	264.970	259.362	247.781	238.382	232.712	231.292	231.939	232.273	231.855
79.0	257.900	258.454	249.619	238.748	230.686	224.671	222.781	223.449	223.355	222.707
79.5	247.812	249.055	239.343	230.592	222.927	216.671	214.311	214.269	214.290	213.706
80.0	237.578	236.148	230.028	221.997	214.875	208.453	205.570	205.226	205.111	204.599
80.5	226.989	225.840	220.619	213.058	206.416	199.806	196.694	196.318	196.109	195.670
81.0	216.191	215.815	211.001	203.910	197.978	191.086	187.661	187.180	186.627	186.345
81.5	205.476	207.816	201.435	195.044	188.736	182.147	178.534	177.667	177.072	176.863
82.0	194.156	197.070	191.577	185.729	179.369	173.020	169.020	167.850	167.464	167.078
82.5	182.638	184.737	181.499	176.017	169.365	163.266	159.277	158.191	157.721	157.428

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83.0	171.161	175.244	171.537	165.929	159.841	153.742	149.909	148.614	147.873	147.873
83.5	159.569	165.814	161.470	155.548	149.324	144.061	140.176	138.432	137.889	137.973
84.0	147.674	154.400	151.110	144.897	139.289	133.858	129.733	128.480	127.718	127.906
84.5	135.174	142.704	140.417	133.743	128.125	123.311	119.416	118.225	117.682	117.567
85.0	122.705	130.872	129.243	122.371	117.076	112.356	109.035	107.667	107.145	107.124
85.5	110.309	118.236	117.452	110.644	105.192	101.454	98.310	96.942	96.232	96.504
86.0	97.840	108.377	105.286	98.853	93.862	90.008	87.230	86.332	85.466	85.841
86.5	85.800	95.731	92.755	86.719	81.978	78.510	75.973	75.576	74.845	75.127
87.0	73.174	82.364	79.680	74.229	69.258	67.138	65.217	65.018	64.360	64.642
87.5	60.037	70.271	67.295	61.541	57.468	55.787	54.460	54.460	53.865	54.168
88.0	46.858	55.306	53.092	48.852	45.699	44.425	43.704	43.892	43.380	43.694
88.5	33.689	40.320	38.817	36.164	33.919	33.063	32.948	33.334	32.895	33.230
89.0	20.510	25.335	24.541	23.476	22.139	21.701	22.191	22.776	22.400	22.755
89.5	7.331	10.349	10.265	10.788	11.832	12.260	12.908	13.273	13.096	13.555
90.0	5.399	8.250	8.041	3.070	4.041	4.543	5.347	5.618	5.712	6.255
90.5	3.979	6.527	6.297	1.107	3.227	3.363	3.780	4.041	4.209	4.553
91.0	2.559	4.793	4.553	1.044	2.444	2.444	2.642	2.778	2.861	3.102
91.5	1.138	3.060	2.809	1.055	1.660	1.525	1.504	1.504	1.525	1.650
92.0	1.065	1.337	1.065	1.044	0.888	0.606	0.366	0.240	0.178	0.209
92.5	1.138	1.347	1.044	1.003	0.825	0.564	0.292	0.178	0.157	0.157
93.0	1.138	1.378	1.117	1.034	0.815	0.564	0.292	0.188	0.167	0.167
93.5	1.191	1.441	1.201	1.076	0.846	0.574	0.324	0.198	0.178	0.178
94.0	1.191	1.441	1.253	1.107	0.888	0.585	0.345	0.230	0.198	0.198
94.5	1.191	1.441	1.347	1.149	0.835	0.616	0.366	0.251	0.219	0.209
95.0	1.211	1.504	1.378	1.180	0.856	0.585	0.376	0.272	0.230	0.219
95.5	1.211	1.546	1.378	1.159	0.888	0.595	0.366	0.282	0.240	0.230
96.0	1.232	1.587	1.420	1.149	0.940	0.616	0.366	0.282	0.240	0.230
96.5	1.264	1.650	1.452	1.138	0.940	0.637	0.376	0.282	0.251	0.230
97.0	1.274	1.671	1.483	1.138	0.929	0.658	0.386	0.282	0.251	0.240
97.5	1.264	1.723	1.493	1.149	0.919	0.647	0.386	0.282	0.251	0.240
98.0	1.243	1.838	1.504	1.149	0.888	0.637	0.386	0.282	0.240	0.240
98.5	1.222	1.995	1.514	1.149	0.867	0.627	0.386	0.272	0.240	0.240
99.0	1.201	2.057	1.483	1.149	0.856	0.606	0.376	0.272	0.240	0.230
99.5	1.191	2.015	1.452	1.170	0.856	0.595	0.366	0.272	0.240	0.230
100.0	1.180	1.922	1.420	1.191	0.877	0.574	0.366	0.272	0.240	0.230
100.5	1.180	1.828	1.389	1.180	0.898	0.564	0.366	0.272	0.230	0.230
101.0	1.180	1.744	1.358	1.170	0.909	0.564	0.366	0.272	0.230	0.230
101.5	1.191	1.681	1.316	1.159	0.919	0.574	0.366	0.272	0.240	0.240
102.0	1.191	1.619	1.295	1.180	0.909	0.574	0.366	0.272	0.240	0.240
102.5	1.201	1.566	1.264	1.180	0.888	0.585	0.366	0.272	0.240	0.240
103.0	1.211	1.525	1.253	1.170	0.877	0.585	0.366	0.282	0.240	0.251
103.5	1.222	1.472	1.232	1.138	0.877	0.585	0.366	0.282	0.251	0.251
104.0	1.253	1.441	1.211	1.107	0.867	0.574	0.376	0.282	0.251	0.251
104.5	1.264	1.410	1.191	1.086	0.867	0.574	0.376	0.282	0.251	0.261
105.0	1.274	1.378	1.170	1.065	0.867	0.564	0.386	0.282	0.261	0.261
105.5	1.274	1.358	1.159	1.055	0.856	0.564	0.386	0.282	0.261	0.261
106.0	1.274	1.347	1.159	1.044	0.846	0.564	0.386	0.292	0.272	0.272
106.5	1.274	1.337	1.149	1.044	0.825	0.574	0.397	0.292	0.272	0.272
107.0	1.264	1.326	1.159	1.044	0.815	0.564	0.397	0.292	0.272	0.282
107.5	1.253	1.295	1.170	1.023	0.794	0.564	0.397	0.292	0.282	0.282
108.0	1.232	1.284	1.191	0.992	0.783	0.564	0.397	0.303	0.282	0.292
108.5	1.201	1.264	1.180	0.971	0.773	0.564	0.397	0.303	0.292	0.292
109.0	1.170	1.232	1.191	0.950	0.762	0.564	0.407	0.313	0.292	0.303
109.5	1.159	1.211	1.180	0.929	0.762	0.564	0.407	0.324	0.303	0.303
110.0	1.159	1.201	1.159	0.919	0.762	0.564	0.418	0.324	0.303	0.313
110.5	1.159	1.191	1.138	0.909	0.752	0.564	0.418	0.334	0.313	0.313

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111.0	1.149	1.191	1.117	0.888	0.752	0.564	0.428	0.345	0.313	0.324
111.5	1.138	1.180	1.097	0.877	0.741	0.564	0.439	0.345	0.324	0.334
112.0	1.128	1.159	1.076	0.867	0.741	0.564	0.439	0.355	0.334	0.334
112.5	1.117	1.138	1.055	0.867	0.741	0.574	0.449	0.366	0.334	0.345
113.0	1.097	1.117	1.044	0.877	0.731	0.564	0.449	0.366	0.345	0.345
113.5	1.107	1.097	1.013	0.877	0.721	0.564	0.449	0.376	0.345	0.355
114.0	1.117	1.086	0.992	0.877	0.721	0.564	0.449	0.386	0.355	0.366
114.5	1.117	1.097	0.971	0.877	0.721	0.574	0.449	0.386	0.366	0.376
115.0	1.128	1.097	0.971	0.877	0.731	0.585	0.449	0.397	0.366	0.376
115.5	1.128	1.097	0.950	0.877	0.731	0.585	0.459	0.407	0.376	0.386
116.0	1.128	1.086	0.950	0.867	0.731	0.595	0.459	0.407	0.386	0.397
116.5	1.138	1.097	0.961	0.856	0.731	0.595	0.459	0.418	0.397	0.407
117.0	1.138	1.086	0.961	0.856	0.721	0.595	0.470	0.428	0.407	0.418
117.5	1.138	1.076	0.961	0.856	0.721	0.595	0.470	0.428	0.407	0.418
118.0	1.128	1.065	0.950	0.856	0.731	0.595	0.480	0.439	0.418	0.428
118.5	1.138	1.055	0.950	0.856	0.731	0.606	0.491	0.439	0.428	0.439
119.0	1.128	1.055	0.940	0.856	0.741	0.606	0.501	0.449	0.449	0.449
119.5	1.117	1.055	0.950	0.856	0.752	0.606	0.512	0.449	0.449	0.449
120.0	1.128	1.034	0.950	0.867	0.752	0.606	0.512	0.459	0.449	0.459
120.5	1.128	1.034	0.950	0.867	0.752	0.606	0.522	0.459	0.459	0.470
121.0	1.107	1.055	0.961	0.867	0.762	0.616	0.522	0.470	0.470	0.480
121.5	1.128	1.044	0.950	0.867	0.762	0.616	0.533	0.480	0.480	0.491
122.0	1.117	1.044	0.940	0.867	0.773	0.616	0.533	0.480	0.491	0.491
122.5	1.117	1.034	0.950	0.877	0.773	0.627	0.533	0.491	0.491	0.501
123.0	1.107	1.034	0.961	0.888	0.773	0.637	0.543	0.501	0.501	0.512
123.5	1.097	1.044	0.950	0.898	0.773	0.647	0.543	0.501	0.512	0.522
124.0	1.097	1.034	0.950	0.898	0.773	0.647	0.553	0.512	0.522	0.533
124.5	1.117	1.034	0.940	0.919	0.773	0.658	0.564	0.512	0.533	0.543
125.0	1.107	1.044	0.940	0.919	0.773	0.658	0.564	0.522	0.533	0.553
125.5	1.107	1.044	0.950	0.919	0.783	0.668	0.574	0.533	0.543	0.564
126.0	1.107	1.044	0.961	0.909	0.783	0.668	0.574	0.533	0.553	0.574
126.5	1.097	1.044	0.961	0.919	0.794	0.668	0.585	0.543	0.553	0.574
127.0	1.097	1.034	0.961	0.919	0.804	0.679	0.595	0.553	0.564	0.585
127.5	1.117	1.023	0.971	0.919	0.804	0.679	0.595	0.564	0.564	0.585
128.0	1.097	1.034	0.971	0.929	0.804	0.689	0.606	0.574	0.574	0.595
128.5	1.086	1.034	0.982	0.919	0.804	0.689	0.606	0.585	0.574	0.606
129.0	1.117	1.034	0.992	0.919	0.804	0.689	0.616	0.595	0.585	0.616
129.5	1.117	1.044	0.992	0.929	0.815	0.700	0.627	0.606	0.585	0.616
130.0	1.097	1.034	0.982	0.919	0.815	0.700	0.627	0.616	0.595	0.627
130.5	1.086	1.023	0.982	0.940	0.815	0.710	0.637	0.627	0.606	0.637
131.0	1.107	1.034	0.982	0.929	0.825	0.710	0.647	0.637	0.616	0.647
131.5	1.107	1.013	0.971	0.940	0.825	0.710	0.658	0.637	0.627	0.668
132.0	1.097	1.013	0.971	0.950	0.825	0.710	0.668	0.647	0.627	0.668
132.5	1.097	1.003	0.982	0.950	0.825	0.700	0.668	0.658	0.637	0.679
133.0	1.107	1.003	0.971	0.940	0.825	0.700	0.679	0.658	0.647	0.689
133.5	1.097	0.992	0.982	0.940	0.835	0.710	0.679	0.658	0.647	0.689
134.0	1.076	1.003	0.982	0.940	0.825	0.710	0.689	0.668	0.647	0.689
134.5	1.086	1.003	0.992	0.929	0.815	0.710	0.689	0.668	0.658	0.700
135.0	1.086	1.013	0.982	0.929	0.815	0.710	0.710	0.668	0.658	0.700
135.5	1.086	1.013	0.982	0.929	0.815	0.710	0.721	0.668	0.658	0.700
136.0	1.086	1.023	0.992	0.929	0.815	0.710	0.721	0.679	0.658	0.700
136.5	1.086	1.023	0.992	0.929	0.815	0.721	0.731	0.679	0.668	0.710
137.0	1.086	1.023	1.003	0.940	0.825	0.731	0.731	0.689	0.668	0.710
137.5	1.086	1.013	1.003	0.940	0.825	0.731	0.741	0.700	0.679	0.710
138.0	1.086	1.003	1.013	0.940	0.825	0.731	0.741	0.700	0.679	0.721
138.5	1.086	1.013	1.013	0.929	0.825	0.731	0.741	0.710	0.689	0.731

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139.0	1.086	1.023	1.003	0.929	0.825	0.731	0.741	0.721	0.700	0.731
139.5	1.076	1.023	1.013	0.929	0.815	0.731	0.752	0.721	0.700	0.731
140.0	1.076	1.034	1.013	0.929	0.794	0.731	0.752	0.731	0.710	0.741
140.5	1.086	1.023	1.003	0.929	0.794	0.741	0.752	0.731	0.710	0.752
141.0	1.086	1.023	1.003	0.940	0.794	0.752	0.752	0.741	0.721	0.752
141.5	1.086	1.013	1.003	0.950	0.783	0.752	0.752	0.741	0.721	0.762
142.0	1.086	1.013	1.003	0.940	0.773	0.773	0.752	0.752	0.731	0.762
142.5	1.076	1.013	1.013	0.950	0.783	0.783	0.762	0.752	0.741	0.762
143.0	1.076	1.013	1.013	0.950	0.794	0.783	0.762	0.752	0.741	0.773
143.5	1.076	1.013	1.013	0.940	0.804	0.794	0.762	0.741	0.752	0.773
144.0	1.076	1.023	1.023	0.919	0.804	0.804	0.762	0.741	0.752	0.773
144.5	1.076	1.023	1.034	0.909	0.804	0.815	0.762	0.741	0.752	0.773
145.0	1.076	1.034	1.023	0.909	0.825	0.815	0.762	0.741	0.752	0.773
145.5	1.065	1.044	1.023	0.898	0.825	0.815	0.773	0.752	0.752	0.773
146.0	1.076	1.044	1.023	0.888	0.835	0.815	0.773	0.752	0.752	0.773
146.5	1.086	1.044	1.013	0.877	0.835	0.825	0.783	0.752	0.752	0.773
147.0	1.086	1.034	0.982	0.898	0.835	0.835	0.783	0.762	0.752	0.773
147.5	1.076	1.023	0.961	0.898	0.846	0.856	0.794	0.762	0.762	0.783
148.0	1.065	1.003	0.961	0.898	0.867	0.888	0.794	0.773	0.762	0.783
148.5	1.034	0.971	0.940	0.909	0.888	0.867	0.794	0.773	0.762	0.783
149.0	0.992	0.961	0.929	0.919	0.898	0.867	0.804	0.783	0.773	0.783
149.5	0.982	0.950	0.929	0.919	0.919	0.867	0.804	0.783	0.783	0.794
150.0	0.971	0.929	0.940	0.919	0.929	0.877	0.804	0.783	0.783	0.794
150.5	0.950	0.929	0.950	0.919	0.929	0.877	0.794	0.794	0.783	0.794
151.0	0.940	0.940	0.961	0.929	0.929	0.877	0.783	0.804	0.794	0.794
151.5	0.950	0.950	1.003	0.950	0.929	0.877	0.773	0.804	0.804	0.804
152.0	0.961	0.950	1.003	0.961	0.929	0.877	0.773	0.804	0.815	0.815
152.5	0.971	0.971	1.003	0.971	0.929	0.888	0.773	0.804	0.815	0.815
153.0	1.003	0.992	1.013	0.982	0.940	0.877	0.773	0.815	0.804	0.815
153.5	1.023	0.992	1.023	0.982	0.950	0.877	0.773	0.835	0.804	0.804
154.0	1.023	1.003	1.044	0.992	0.961	0.867	0.783	0.835	0.794	0.794
154.5	1.034	1.013	1.055	1.013	0.950	0.867	0.794	0.825	0.804	0.794
155.0	1.044	1.034	1.055	1.034	0.950	0.867	0.804	0.825	0.804	0.804
155.5	1.055	1.055	1.055	1.023	0.950	0.856	0.804	0.825	0.804	0.804
156.0	1.076	1.076	1.065	1.013	0.950	0.846	0.804	0.835	0.804	0.804
156.5	1.076	1.076	1.076	1.013	0.950	0.835	0.804	0.835	0.815	0.804
157.0	1.086	1.086	1.065	1.023	0.940	0.835	0.794	0.835	0.815	0.804
157.5	1.097	1.097	1.065	1.034	0.929	0.825	0.794	0.835	0.815	0.804
158.0	1.097	1.097	1.065	1.044	0.929	0.825	0.804	0.835	0.825	0.804
158.5	1.097	1.117	1.076	1.055	0.929	0.815	0.804	0.835	0.825	0.804
159.0	1.107	1.149	1.076	1.055	0.919	0.825	0.804	0.846	0.825	0.804
159.5	1.107	1.138	1.076	1.055	0.929	0.825	0.804	0.856	0.835	0.804
160.0	1.107	1.117	1.076	1.044	0.940	0.825	0.804	0.856	0.835	0.815
160.5	1.107	1.128	1.065	1.044	0.940	0.825	0.804	0.846	0.835	0.815
161.0	1.107	1.128	1.076	1.034	0.950	0.825	0.815	0.835	0.835	0.815
161.5	1.107	1.117	1.076	1.023	0.950	0.835	0.825	0.835	0.825	0.815
162.0	1.107	1.107	1.065	1.023	0.961	0.846	0.815	0.835	0.825	0.804
162.5	1.107	1.107	1.055	1.034	0.971	0.846	0.815	0.835	0.825	0.804
163.0	1.117	1.117	1.055	1.034	0.982	0.856	0.825	0.835	0.825	0.815
163.5	1.117	1.107	1.055	1.023	0.982	0.867	0.835	0.835	0.835	0.825
164.0	1.107	1.107	1.055	1.034	0.982	0.888	0.846	0.835	0.835	0.825
164.5	1.107	1.107	1.065	1.034	0.992	0.898	0.856	0.856	0.835	0.835
165.0	1.107	1.107	1.065	1.034	1.013	0.909	0.867	0.867	0.846	0.846
165.5	1.117	1.117	1.076	1.044	1.013	0.940	0.888	0.867	0.856	0.867
166.0	1.128	1.128	1.086	1.034	1.023	0.940	0.909	0.856	0.867	0.919
166.5	1.138	1.128	1.097	1.044	1.034	0.950	0.909	0.877	0.888	0.971

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167.0	1.138	1.128	1.107	1.076	1.034	0.961	0.909	0.888	0.909	0.982
167.5	1.138	1.149	1.117	1.076	1.044	0.971	0.940	0.898	0.919	0.961
168.0	1.159	1.170	1.117	1.086	1.044	0.982	0.940	0.909	0.929	0.940
168.5	1.170	1.170	1.128	1.107	1.044	0.982	0.950	0.909	0.929	0.919
169.0	1.180	1.180	1.138	1.107	1.055	0.971	0.940	0.929	0.929	0.909
169.5	1.180	1.180	1.149	1.107	1.065	0.971	0.929	0.929	0.950	0.919
170.0	1.180	1.180	1.149	1.107	1.065	0.961	0.919	0.929	0.971	0.929
170.5	1.170	1.180	1.149	1.107	1.065	0.971	0.909	0.940	0.971	0.961
171.0	1.170	1.170	1.159	1.117	1.065	0.971	0.898	0.940	0.982	1.003
171.5	1.180	1.191	1.170	1.117	1.076	0.971	0.909	0.940	0.982	0.961
172.0	1.191	1.201	1.180	1.128	1.086	0.982	0.919	0.950	0.982	0.929
172.5	1.201	1.201	1.180	1.149	1.097	1.013	0.929	0.961	0.992	0.929
173.0	1.211	1.211	1.191	1.159	1.107	1.034	0.961	0.992	0.992	0.940
173.5	1.222	1.222	1.211	1.180	1.138	1.065	0.982	1.023	1.013	0.950
174.0	1.232	1.243	1.232	1.201	1.170	1.097	1.023	1.055	1.034	0.971
174.5	1.243	1.243	1.243	1.222	1.191	1.128	1.055	1.076	1.055	0.992
175.0	1.243	1.243	1.243	1.232	1.211	1.149	1.055	1.086	1.065	1.013
175.5	1.243	1.243	1.243	1.232	1.222	1.159	1.065	1.097	1.076	1.023
176.0	1.232	1.243	1.243	1.232	1.232	1.170	1.076	1.107	1.086	1.023
176.5	1.232	1.243	1.243	1.232	1.232	1.180	1.097	1.128	1.097	1.034
177.0	1.232	1.243	1.232	1.232	1.222	1.180	1.117	1.138	1.097	1.055
177.5	1.222	1.232	1.222	1.222	1.211	1.180	1.128	1.149	1.107	1.076
178.0	1.211	1.232	1.222	1.211	1.211	1.180	1.138	1.138	1.107	1.097
178.5	1.201	1.211	1.211	1.201	1.201	1.180	1.159	1.138	1.117	1.117
179.0	1.191	1.211	1.201	1.191	1.191	1.170	1.170	1.128	1.128	1.138
179.5	1.191	1.211	1.211	1.191	1.180	1.170	1.180	1.117	1.128	1.149
180.0	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261
0.5	2214.490	2214.271	2214.261	2214.250	2214.250	2213.770	2213.770	2213.519	2213.509	2213.749
1.0	2214.741	2214.511	2214.501	2214.250	2213.999	2213.749	2213.509	2213.007	2212.767	2213.018
1.5	2214.751	2214.511	2214.261	2214.010	2213.770	2213.519	2213.258	2212.778	2212.276	2212.496
2.0	2214.020	2214.041	2214.020	2213.519	2213.519	2213.268	2212.799	2212.527	2211.733	2211.556
2.5	2213.310	2213.049	2213.289	2212.819	2212.537	2212.297	2211.587	2211.086	2210.564	2210.553
3.0	2212.569	2212.297	2212.308	2211.838	2211.827	2211.305	2210.344	2209.822	2209.321	2209.070
3.5	2211.347	2211.128	2210.814	2210.595	2210.386	2209.895	2209.112	2208.820	2207.828	2207.546
4.0	2210.574	2209.885	2209.394	2208.851	2208.621	2208.402	2207.859	2207.399	2206.574	2205.812
4.5	2208.955	2208.621	2207.671	2207.201	2206.856	2206.877	2206.219	2205.645	2204.580	2204.068
5.0	2206.982	2206.397	2206.157	2205.697	2205.217	2204.893	2204.486	2203.650	2202.345	2202.053
5.5	2205.206	2204.496	2204.402	2203.953	2203.473	2203.003	2202.251	2201.541	2200.340	2199.954
6.0	2203.233	2202.533	2202.188	2201.969	2201.489	2201.019	2200.476	2199.776	2198.471	2197.938
6.5	2201.019	2200.298	2199.954	2199.494	2199.264	2198.794	2198.512	2197.792	2196.225	2195.682
7.0	2198.502	2197.813	2197.614	2197.238	2196.998	2196.549	2195.766	2195.306	2193.730	2193.207
7.5	2196.017	2195.568	2194.878	2194.680	2194.429	2194.053	2193.187	2192.560	2190.994	2190.712
8.0	2193.207	2192.570	2192.132	2191.683	2191.463	2191.244	2190.430	2189.970	2188.007	2187.913
8.5	2190.941	2189.761	2189.636	2188.936	2188.477	2188.038	2187.683	2187.474	2185.219	2184.644
9.0	2187.714	2186.545	2186.388	2185.709	2185.480	2184.780	2184.195	2184.028	2181.908	2181.344
9.5	2184.519	2183.569	2182.932	2182.733	2182.295	2182.054	2180.958	2180.571	2178.890	2177.386
10.0	2181.041	2180.363	2179.903	2179.506	2178.838	2178.598	2177.731	2176.864	2174.932	2173.919
10.5	2177.282	2176.394	2176.206	2175.757	2175.329	2174.859	2173.971	2173.126	2171.173	2170.400
11.0	2173.052	2172.384	2172.165	2171.758	2171.340	2171.121	2170.212	2169.356	2167.183	2166.432
11.5	2168.813	2168.196	2167.685	2167.518	2167.131	2166.943	2166.202	2165.408	2163.205	2162.442
12.0	2164.092	2163.967	2163.706	2163.518	2162.912	2162.683	2162.234	2161.179	2158.913	2157.409

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12.5	2159.842	2159.487	2159.236	2158.819	2158.652	2158.223	2158.025	2156.678	2154.422	2152.647
13.0	2154.621	2154.339	2154.537	2154.109	2153.984	2153.545	2153.138	2152.260	2149.963	2147.927
13.5	2149.472	2149.107	2149.587	2149.399	2149.034	2148.814	2148.386	2147.540	2145.462	2143.227
14.0	2144.042	2144.084	2144.094	2144.230	2144.324	2143.802	2143.415	2142.768	2140.220	2138.267
14.5	2138.758	2138.423	2138.820	2139.196	2139.071	2139.029	2138.183	2137.609	2134.831	2133.787
15.0	2133.045	2132.659	2133.442	2133.724	2133.797	2133.661	2132.910	2132.346	2129.599	2127.751
15.5	2127.093	2126.717	2127.730	2127.542	2128.325	2127.939	2127.949	2126.894	2124.325	2122.164
16.0	2121.078	2120.942	2121.516	2122.007	2122.592	2122.435	2122.310	2121.380	2118.780	2116.086
16.5	2114.760	2114.927	2115.282	2116.159	2116.723	2116.441	2116.347	2115.647	2112.828	2110.374
17.0	2108.985	2108.609	2109.006	2109.945	2110.509	2110.562	2110.081	2109.768	2106.886	2104.150
17.5	2102.406	2101.998	2102.197	2103.335	2103.899	2104.693	2103.993	2103.460	2100.536	2098.134
18.0	2095.555	2094.991	2095.618	2096.286	2097.623	2098.228	2097.372	2096.913	2094.250	2091.440
18.5	2088.475	2088.046	2088.652	2089.300	2090.469	2091.493	2090.918	2089.999	2087.002	2084.621
19.0	2081.185	2081.102	2081.499	2081.603	2083.222	2084.517	2084.224	2083.222	2080.475	2077.060
19.5	2074.314	2073.499	2074.147	2074.512	2075.912	2077.666	2077.384	2075.901	2073.259	2070.116
20.0	2066.367	2066.053	2066.388	2067.275	2069.155	2070.440	2070.366	2068.424	2066.200	2062.660
20.5	2058.670	2058.085	2058.691	2059.558	2061.448	2062.733	2062.482	2061.229	2058.461	2054.921
21.0	2051.110	2050.305	2050.399	2051.548	2053.731	2054.953	2054.932	2053.522	2050.619	2047.037
21.5	2042.860	2042.317	2042.849	2043.288	2045.679	2047.005	2046.922	2045.241	2042.327	2038.808
22.0	2034.954	2033.899	2034.181	2035.090	2037.032	2038.787	2038.745	2037.053	2034.557	2030.568
22.5	2026.297	2025.096	2025.796	2026.182	2028.584	2030.171	2030.558	2029.378	2025.785	2022.005
23.0	2017.222	2016.742	2016.951	2017.201	2020.021	2021.399	2021.859	2020.606	2017.285	2013.525
23.5	2009.076	2008.220	2009.223	2009.150	2011.645	2012.867	2013.316	2011.823	2008.356	2004.367
24.0	1999.114	1998.832	1999.688	1999.981	2002.560	2003.939	2004.544	2003.364	1999.417	1995.427
24.5	1990.185	1989.496	1990.049	1990.895	1992.462	1994.446	1995.229	1993.840	1989.830	1985.778
25.0	1981.298	1979.972	1980.316	1981.423	1983.032	1984.859	1985.172	1984.358	1980.045	1976.003
25.5	1971.148	1969.873	1970.876	1972.254	1973.602	1975.001	1975.429	1974.635	1970.103	1966.218
26.0	1961.039	1959.650	1960.255	1962.240	1963.263	1964.537	1965.748	1964.715	1959.869	1955.640
26.5	1950.533	1949.489	1949.906	1951.431	1952.736	1954.418	1955.431	1953.676	1949.530	1945.573
27.0	1940.769	1939.025	1939.380	1940.884	1942.743	1944.205	1945.144	1943.348	1938.649	1934.660
27.5	1929.647	1928.310	1929.188	1930.221	1932.101	1933.678	1934.493	1932.456	1928.112	1923.245
28.0	1918.358	1917.042	1917.418	1919.737	1920.572	1921.763	1922.253	1920.697	1916.875	1911.779
28.5	1907.195	1905.879	1906.234	1908.281	1908.980	1910.630	1911.090	1909.534	1904.970	1900.490
29.0	1895.801	1894.778	1895.363	1896.397	1898.047	1899.174	1899.874	1897.629	1892.825	1887.938
29.5	1883.625	1883.092	1884.032	1884.899	1886.611	1887.248	1887.677	1885.536	1881.139	1876.022
30.0	1871.271	1871.020	1871.114	1873.119	1874.362	1874.748	1875.636	1873.192	1868.723	1863.887
30.5	1858.175	1858.729	1859.491	1860.775	1862.070	1862.676	1862.874	1860.420	1855.805	1850.886
31.0	1846.510	1846.019	1847.053	1848.380	1849.361	1850.155	1849.915	1847.701	1842.532	1837.352
31.5	1833.039	1832.966	1834.125	1835.535	1836.600	1837.122	1836.631	1835.221	1829.582	1823.953
32.0	1820.110	1820.058	1820.873	1822.878	1823.651	1824.027	1823.713	1821.364	1816.017	1810.597
32.5	1806.900	1806.858	1807.777	1809.594	1809.960	1811.046	1809.688	1808.038	1801.804	1795.987
33.0	1793.293	1793.084	1794.556	1796.102	1796.165	1797.042	1795.893	1793.773	1788.155	1782.317
33.5	1779.268	1778.798	1779.999	1781.941	1782.140	1782.756	1781.544	1779.487	1774.224	1767.958
34.0	1764.512	1764.533	1765.441	1767.405	1767.321	1768.177	1767.237	1764.439	1759.249	1752.429
34.5	1749.860	1750.539	1751.375	1752.931	1753.380	1753.776	1752.283	1750.017	1743.950	1737.224
35.0	1735.867	1735.386	1736.963	1738.697	1738.937	1739.083	1737.799	1735.083	1728.745	1721.915
35.5	1720.286	1719.617	1722.019	1723.262	1723.346	1723.732	1721.904	1719.241	1713.279	1706.104
36.0	1704.903	1704.308	1705.728	1706.981	1707.566	1708.193	1706.574	1703.608	1697.478	1690.231
36.5	1688.539	1688.852	1690.126	1691.150	1692.278	1692.152	1690.262	1687.568	1681.594	1673.689
37.0	1671.392	1671.924	1673.856	1675.506	1676.133	1675.632	1674.190	1670.734	1665.011	1657.440
37.5	1654.641	1654.725	1656.897	1658.453	1659.361	1658.589	1657.408	1654.255	1647.989	1640.627
38.0	1637.786	1638.193	1640.272	1641.420	1642.590	1642.151	1641.201	1637.494	1631.520	1623.698
38.5	1620.054	1620.325	1623.061	1624.785	1626.048	1625.547	1624.022	1620.252	1613.892	1606.509
39.0	1601.486	1601.998	1605.141	1607.585	1607.909	1607.668	1606.802	1602.562	1597.006	1588.683
39.5	1582.678	1583.921	1586.469	1589.790	1590.187	1589.466	1588.798	1585.331	1579.765	1571.515
40.0	1563.547	1565.521	1568.382	1571.452	1572.235	1571.786	1571.358	1567.546	1562.043	1553.469

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40.5	1543.402	1545.783	1549.094	1552.801	1554.190	1553.595	1552.592	1549.313	1543.642	1535.424
41.0	1522.725	1525.263	1529.471	1533.889	1534.829	1534.693	1534.024	1530.432	1525.231	1517.378
41.5	1502.737	1506.110	1510.444	1514.893	1515.822	1515.728	1515.175	1512.773	1506.831	1499.333
42.0	1481.454	1487.041	1491.720	1495.615	1497.108	1497.255	1496.691	1493.871	1488.420	1481.235
42.5	1459.597	1464.422	1470.750	1475.857	1477.643	1477.611	1477.215	1473.935	1469.988	1460.809
43.0	1436.946	1442.429	1449.791	1455.075	1457.247	1457.968	1456.913	1453.885	1450.178	1441.040
43.5	1414.483	1420.718	1428.874	1434.252	1436.706	1437.949	1437.030	1434.670	1430.774	1421.042
44.0	1391.906	1399.393	1408.406	1414.494	1416.739	1417.877	1416.635	1414.515	1410.285	1400.678
44.5	1367.929	1377.077	1386.496	1393.368	1396.292	1397.190	1396.887	1393.838	1389.932	1380.053
45.0	1344.108	1353.695	1364.785	1372.033	1374.884	1376.262	1376.220	1373.348	1369.161	1359.094
45.5	1320.392	1330.835	1343.043	1350.708	1354.405	1355.199	1355.021	1352.807	1348.954	1338.124
46.0	1296.070	1308.257	1321.457	1330.000	1333.728	1334.239	1333.978	1332.005	1327.901	1317.155
46.5	1269.984	1283.967	1298.671	1307.787	1311.996	1311.829	1312.789	1309.688	1306.670	1296.060
47.0	1243.751	1258.695	1275.633	1285.930	1288.875	1290.316	1290.389	1287.601	1284.593	1274.422
47.5	1217.936	1234.081	1253.139	1263.979	1267.728	1269.326	1269.399	1266.120	1262.945	1252.721
48.0	1191.755	1209.863	1230.332	1242.884	1246.288	1247.782	1247.072	1244.795	1241.224	1230.969
48.5	1164.092	1184.591	1206.313	1220.557	1224.463	1224.755	1224.859	1223.105	1219.617	1208.903
49.0	1136.961	1157.690	1181.845	1197.875	1201.321	1202.292	1202.417	1200.778	1197.394	1187.202
49.5	1109.955	1131.645	1157.523	1174.681	1180.278	1180.884	1179.965	1178.461	1174.984	1165.115
50.0	1082.051	1104.848	1133.316	1152.583	1158.724	1158.024	1157.627	1155.779	1152.876	1143.143
50.5	1054.451	1078.010	1107.658	1129.421	1136.052	1135.436	1134.715	1132.961	1130.528	1121.338
51.0	1027.800	1051.704	1082.344	1105.997	1112.785	1114.425	1112.597	1110.874	1107.856	1098.019
51.5	1001.693	1025.054	1056.926	1082.072	1092.035	1091.147	1089.915	1087.816	1085.696	1076.370
52.0	975.272	997.891	1030.609	1058.356	1069.927	1069.039	1067.327	1065.134	1063.150	1053.970
52.5	949.885	971.658	1004.042	1034.410	1047.130	1046.493	1044.509	1042.201	1040.697	1032.416
53.0	925.281	946.397	978.634	1010.099	1024.187	1025.231	1021.816	1019.373	1017.942	1009.483
53.5	901.701	921.720	953.321	985.777	1002.100	1002.204	999.938	997.286	995.876	987.521
54.0	877.640	896.542	926.921	960.035	979.188	980.963	977.037	975.094	973.643	965.278
54.5	855.417	872.857	901.586	935.202	956.130	958.406	955.159	952.172	950.720	943.013
55.0	833.330	849.820	877.609	911.100	932.946	936.768	932.967	930.523	929.458	921.250
55.5	812.215	827.336	853.162	886.423	910.462	914.253	911.246	908.238	907.204	900.072
56.0	790.044	804.654	828.819	860.722	886.924	891.916	888.073	885.796	886.203	878.747
56.5	769.910	782.922	805.448	836.265	863.302	870.069	867.249	864.273	863.333	856.702
57.0	749.943	762.318	783.695	812.518	840.432	848.974	846.071	842.698	842.646	835.607
57.5	731.302	741.631	762.610	789.637	816.663	827.148	824.987	821.718	820.997	815.034
58.0	712.745	729.370	740.398	765.618	793.334	805.510	802.931	800.529	800.320	794.347
58.5	694.178	708.631	731.407	743.604	770.495	783.820	783.068	780.395	779.518	773.931
59.0	675.610	687.431	709.174	725.444	747.552	762.360	762.610	760.083	759.572	753.776
59.5	657.042	666.232	686.032	704.098	724.170	740.785	742.288	739.396	739.678	734.320
60.0	638.485	645.033	662.901	682.534	703.002	716.379	722.791	729.245	720.097	714.688
60.5	622.298	627.530	639.769	660.969	681.970	696.705	703.211	708.464	700.610	695.337
61.0	605.851	610.508	621.264	639.404	660.937	677.041	683.630	687.087	681.834	676.779
61.5	589.674	593.152	603.491	620.304	639.905	657.387	664.049	665.710	663.527	658.337
62.0	574.428	577.258	585.946	601.130	620.178	637.723	644.469	644.333	645.837	640.626
62.5	559.619	561.207	569.112	583.148	600.817	618.675	626.705	625.922	628.272	623.040
63.0	544.895	545.991	552.696	565.697	582.437	600.117	609.151	609.641	610.853	606.070
63.5	530.463	530.692	536.446	548.529	564.131	581.633	591.638	592.515	594.510	589.570
64.0	517.346	516.814	521.168	532.081	546.670	563.671	574.814	576.276	578.396	573.446
64.5	503.958	502.736	506.402	515.801	529.638	546.691	558.513	560.006	562.658	557.625
65.0	490.737	488.952	491.803	500.418	513.806	530.149	542.451	545.386	547.547	542.556
65.5	478.133	475.668	477.590	485.370	497.661	514.057	526.912	530.202	532.718	528.029
66.0	465.800	463.168	463.888	470.656	482.341	498.423	511.874	515.602	518.495	513.775
66.5	453.801	450.615	450.897	456.631	467.836	483.991	497.954	501.442	504.522	499.666
67.0	441.927	438.585	438.021	443.023	453.978	469.757	484.085	488.701	491.239	486.811
67.5	430.753	426.670	425.364	429.886	440.152	456.129	470.499	475.386	478.216	473.705
68.0	419.934	415.610	413.438	417.250	427.244	443.420	457.706	463.168	465.831	461.226

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68.5	409.021	404.583	402.149	405.178	414.765	430.826	445.749	450.605	453.738	449.321
69.0	398.588	394.067	390.819	393.398	402.964	418.597	433.771	439.253	442.230	437.697
69.5	388.511	383.540	379.676	381.754	390.986	407.089	422.106	427.610	430.962	426.210
70.0	378.768	373.703	369.233	370.873	380.010	396.301	411.130	417.052	419.704	415.099
70.5	369.170	364.001	359.469	360.659	369.661	385.535	400.635	405.930	409.031	404.530
71.0	359.887	355.020	349.903	350.425	359.542	375.290	390.359	395.988	398.943	394.244
71.5	350.927	346.112	340.463	340.557	349.465	365.359	380.386	385.942	389.169	383.885
72.0	342.008	337.069	331.294	331.074	339.920	355.908	370.486	376.303	379.185	374.120
72.5	333.236	328.422	322.898	322.281	330.897	346.499	361.025	366.382	369.505	364.179
73.0	324.756	320.464	314.313	313.582	322.073	337.622	351.616	357.245	360.252	354.602
73.5	316.778	312.559	306.512	305.332	313.635	328.767	342.603	347.867	351.021	344.974
74.0	308.413	304.727	298.618	297.364	305.646	320.329	333.737	338.907	341.904	335.742
74.5	299.683	296.727	291.161	289.584	297.563	311.964	324.579	329.915	332.923	326.479
75.0	291.663	289.010	283.454	281.982	289.731	303.432	315.640	320.997	324.119	317.248
75.5	283.183	281.032	276.071	274.599	282.107	295.443	306.763	311.807	315.295	308.058
76.0	274.599	272.959	268.803	267.581	274.839	287.256	298.179	303.098	306.366	298.973
76.5	265.858	264.845	261.493	260.448	267.539	279.141	289.355	294.305	297.406	289.637
77.0	257.535	256.480	253.587	253.378	260.031	270.923	280.332	285.261	288.425	280.436
77.5	248.961	248.261	245.985	246.350	252.825	262.788	271.696	276.395	279.444	271.330
78.0	240.220	239.740	238.090	239.385	245.536	254.506	262.903	267.351	270.265	262.297
78.5	231.354	231.302	229.965	232.023	238.236	246.142	254.172	261.075	260.897	255.269
79.0	222.770	222.436	221.381	224.222	230.613	237.578	245.097	251.948	251.373	246.643
79.5	213.800	213.758	213.392	216.462	222.874	229.245	240.116	239.729	241.641	236.743
80.0	205.090	204.986	205.080	208.588	215.220	220.807	230.853	230.028	231.647	226.425
80.5	195.952	195.973	196.172	200.286	207.283	211.962	221.339	220.159	221.726	217.820
81.0	186.773	186.846	187.107	191.921	198.762	203.137	211.993	212.035	211.398	209.894
81.5	177.333	177.374	178.377	183.181	190.021	194.177	202.438	203.137	201.038	199.514
82.0	167.965	167.903	169.208	174.315	180.800	185.175	190.585	190.689	190.188	188.099
82.5	158.117	158.222	159.684	164.832	171.067	175.808	181.854	179.964	179.108	177.803
83.0	148.499	148.761	150.024	155.642	161.282	166.169	170.137	169.417	168.028	167.495
83.5	138.547	138.934	140.479	145.920	151.549	156.530	160.049	158.974	156.948	157.198
84.0	128.438	128.658	130.558	135.999	141.315	146.453	150.202	149.011	145.857	146.881
84.5	118.183	118.476	120.230	125.337	130.381	136.772	140.385	138.318	134.579	135.592
85.0	107.803	108.263	109.798	114.622	118.977	124.606	131.979	126.705	122.726	124.303
85.5	96.723	97.663	99.094	103.469	107.834	112.607	120.972	114.424	111.218	112.983
86.0	86.144	86.604	88.024	92.337	96.232	101.005	108.398	102.665	99.052	100.796
86.5	75.597	75.931	76.881	80.442	84.442	89.183	95.355	90.969	87.324	87.805
87.0	65.102	65.405	66.177	68.527	72.161	77.048	82.427	79.147	75.137	76.850
87.5	54.606	54.888	55.494	57.384	60.580	64.381	69.352	68.402	62.971	65.937
88.0	44.122	44.362	44.811	46.231	49.009	51.693	55.494	54.502	50.158	52.977
88.5	33.626	33.846	34.128	35.088	37.438	39.005	41.594	40.373	40.383	40.018
89.0	23.131	23.330	23.445	23.946	25.867	26.316	27.695	26.243	30.608	27.058
89.5	14.025	14.380	14.265	14.150	14.286	13.628	13.795	12.103	20.834	14.098
90.0	6.621	6.757	6.569	6.161	5.430	4.188	2.882	9.775	11.059	1.566
90.5	4.783	5.034	4.825	4.532	4.250	3.258	1.995	7.644	1.556	1.619
91.0	3.269	3.436	3.352	3.269	3.164	2.559	1.754	5.514	1.483	1.640
91.5	1.754	1.838	1.880	2.005	2.078	1.859	1.504	3.384	1.452	1.629
92.0	0.251	0.251	0.407	0.741	0.992	1.159	1.264	1.253	1.452	1.671
92.5	0.167	0.230	0.366	0.689	0.971	1.086	1.295	1.337	1.462	1.650
93.0	0.178	0.251	0.386	0.710	0.971	1.128	1.264	1.274	1.483	1.692
93.5	0.188	0.261	0.386	0.710	0.961	1.107	1.316	1.347	1.504	1.734
94.0	0.198	0.272	0.386	0.689	1.023	1.170	1.378	1.483	1.514	1.754
94.5	0.219	0.282	0.386	0.700	0.950	1.211	1.389	1.556	1.535	1.796
95.0	0.219	0.282	0.386	0.700	0.982	1.253	1.410	1.546	1.556	1.859
95.5	0.219	0.282	0.397	0.679	1.003	1.222	1.452	1.525	1.577	1.922
96.0	0.230	0.292	0.386	0.700	1.055	1.201	1.472	1.483	1.598	2.036

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96.5	0.240	0.292	0.376	0.710	1.055	1.201	1.514	1.504	1.619	2.141
97.0	0.240	0.303	0.376	0.741	1.034	1.232	1.546	1.546	1.629	2.224
97.5	0.240	0.303	0.397	0.752	1.013	1.264	1.556	1.535	1.629	2.287
98.0	0.240	0.303	0.407	0.731	0.982	1.284	1.546	1.472	1.619	2.350
98.5	0.240	0.303	0.418	0.721	0.961	1.284	1.535	1.420	1.619	2.371
99.0	0.240	0.292	0.418	0.710	0.961	1.305	1.535	1.399	1.619	2.360
99.5	0.240	0.292	0.407	0.689	0.961	1.326	1.514	1.399	1.619	2.308
100.0	0.240	0.292	0.397	0.679	0.982	1.305	1.483	1.399	1.629	2.277
100.5	0.240	0.292	0.397	0.668	1.003	1.305	1.462	1.399	1.629	2.256
101.0	0.240	0.292	0.397	0.668	1.013	1.316	1.431	1.389	1.640	2.224
101.5	0.240	0.292	0.397	0.668	1.013	1.337	1.431	1.389	1.650	2.193
102.0	0.240	0.303	0.397	0.679	1.023	1.305	1.452	1.389	1.660	2.130
102.5	0.251	0.303	0.407	0.679	1.034	1.264	1.452	1.389	1.660	2.078
103.0	0.251	0.313	0.407	0.700	1.034	1.232	1.431	1.368	1.660	2.005
103.5	0.251	0.313	0.418	0.700	1.034	1.222	1.431	1.358	1.660	1.974
104.0	0.261	0.313	0.418	0.700	1.023	1.201	1.410	1.378	1.681	1.922
104.5	0.261	0.324	0.418	0.700	1.023	1.191	1.410	1.378	1.681	1.880
105.0	0.272	0.324	0.418	0.710	1.034	1.180	1.410	1.358	1.702	1.859
105.5	0.272	0.324	0.428	0.710	1.034	1.180	1.410	1.337	1.713	1.828
106.0	0.282	0.334	0.428	0.700	1.003	1.149	1.420	1.326	1.702	1.786
106.5	0.282	0.334	0.439	0.700	0.950	1.117	1.410	1.295	1.681	1.765
107.0	0.282	0.345	0.439	0.700	0.919	1.086	1.420	1.274	1.671	1.754
107.5	0.292	0.345	0.439	0.689	0.919	1.065	1.431	1.264	1.650	1.734
108.0	0.303	0.345	0.449	0.689	0.919	1.044	1.441	1.253	1.629	1.692
108.5	0.303	0.355	0.449	0.689	0.919	1.034	1.452	1.243	1.598	1.660
109.0	0.303	0.355	0.449	0.679	0.919	1.023	1.441	1.243	1.577	1.640
109.5	0.303	0.366	0.449	0.689	0.919	1.013	1.441	1.232	1.546	1.640
110.0	0.313	0.366	0.449	0.689	0.909	1.003	1.441	1.211	1.525	1.629
110.5	0.324	0.376	0.459	0.689	0.898	0.992	1.378	1.201	1.504	1.619
111.0	0.334	0.376	0.470	0.710	0.888	0.982	1.337	1.159	1.483	1.608
111.5	0.334	0.376	0.470	0.721	0.877	0.982	1.316	1.149	1.472	1.598
112.0	0.345	0.386	0.491	0.731	0.867	0.992	1.264	1.138	1.452	1.556
112.5	0.355	0.386	0.491	0.731	0.867	0.982	1.243	1.149	1.431	1.514
113.0	0.366	0.397	0.512	0.721	0.867	0.992	1.211	1.128	1.420	1.493
113.5	0.366	0.407	0.522	0.710	0.877	0.982	1.180	1.128	1.389	1.462
114.0	0.376	0.407	0.533	0.710	0.888	0.982	1.159	1.138	1.368	1.472
114.5	0.386	0.418	0.533	0.700	0.877	0.992	1.149	1.149	1.358	1.441
115.0	0.397	0.428	0.533	0.710	0.888	0.992	1.128	1.138	1.347	1.431
115.5	0.407	0.428	0.533	0.710	0.888	0.992	1.128	1.138	1.326	1.410
116.0	0.418	0.439	0.533	0.710	0.877	0.992	1.107	1.149	1.305	1.378
116.5	0.418	0.439	0.533	0.721	0.877	0.992	1.117	1.138	1.295	1.399
117.0	0.428	0.449	0.543	0.741	0.877	1.003	1.117	1.149	1.305	1.378
117.5	0.439	0.459	0.553	0.741	0.888	1.003	1.117	1.149	1.295	1.347
118.0	0.449	0.470	0.564	0.762	0.888	0.992	1.128	1.138	1.264	1.347
118.5	0.459	0.480	0.574	0.762	0.888	0.992	1.107	1.149	1.274	1.316
119.0	0.459	0.501	0.585	0.752	0.898	0.992	1.097	1.138	1.274	1.305
119.5	0.470	0.512	0.595	0.752	0.898	0.992	1.097	1.138	1.243	1.305
120.0	0.480	0.533	0.595	0.752	0.909	0.992	1.107	1.128	1.222	1.284
120.5	0.491	0.533	0.606	0.752	0.909	1.003	1.107	1.117	1.243	1.264
121.0	0.501	0.543	0.606	0.752	0.909	1.003	1.107	1.107	1.211	1.274
121.5	0.512	0.553	0.606	0.762	0.919	1.003	1.097	1.117	1.191	1.253
122.0	0.512	0.564	0.616	0.773	0.919	1.013	1.097	1.117	1.191	1.264
122.5	0.522	0.574	0.627	0.783	0.929	1.013	1.086	1.117	1.191	1.253
123.0	0.533	0.585	0.637	0.794	0.929	1.023	1.086	1.107	1.180	1.243
123.5	0.543	0.585	0.647	0.794	0.929	1.023	1.076	1.117	1.159	1.222
124.0	0.553	0.595	0.658	0.794	0.929	1.023	1.076	1.128	1.170	1.222

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124.5	0.564	0.606	0.668	0.804	0.919	1.023	1.076	1.138	1.159	1.211
125.0	0.564	0.616	0.668	0.794	0.929	1.013	1.076	1.138	1.138	1.211
125.5	0.574	0.627	0.668	0.815	0.929	1.023	1.065	1.138	1.128	1.201
126.0	0.585	0.658	0.679	0.804	0.940	1.034	1.076	1.117	1.128	1.191
126.5	0.595	0.689	0.689	0.815	0.929	1.034	1.076	1.128	1.128	1.170
127.0	0.595	0.668	0.700	0.815	0.940	1.044	1.086	1.117	1.107	1.170
127.5	0.606	0.679	0.700	0.815	0.940	1.044	1.086	1.128	1.086	1.149
128.0	0.606	0.679	0.710	0.815	0.950	1.055	1.065	1.107	1.107	1.138
128.5	0.616	0.679	0.721	0.815	0.950	1.055	1.076	1.107	1.076	1.159
129.0	0.627	0.679	0.731	0.815	0.950	1.065	1.086	1.107	1.065	1.138
129.5	0.637	0.689	0.731	0.804	0.950	1.044	1.086	1.117	1.076	1.138
130.0	0.647	0.700	0.731	0.804	0.940	1.044	1.086	1.138	1.076	1.159
130.5	0.658	0.710	0.731	0.804	0.940	1.044	1.097	1.138	1.065	1.128
131.0	0.668	0.721	0.731	0.815	0.940	1.044	1.076	1.138	1.055	1.117
131.5	0.679	0.721	0.731	0.815	0.940	1.055	1.097	1.138	1.055	1.128
132.0	0.700	0.721	0.741	0.815	0.940	1.086	1.107	1.138	1.055	1.107
132.5	0.700	0.731	0.731	0.825	0.940	1.076	1.097	1.138	1.044	1.097
133.0	0.700	0.731	0.731	0.835	0.929	1.086	1.086	1.128	1.023	1.086
133.5	0.710	0.731	0.741	0.835	0.919	1.086	1.086	1.117	1.034	1.086
134.0	0.710	0.741	0.741	0.825	0.929	1.065	1.065	1.138	1.034	1.055
134.5	0.710	0.741	0.752	0.825	0.929	1.044	1.076	1.138	1.023	1.055
135.0	0.710	0.752	0.762	0.825	0.919	1.034	1.065	1.149	1.023	1.065
135.5	0.710	0.752	0.773	0.825	0.919	1.034	1.065	1.128	1.044	1.055
136.0	0.710	0.762	0.794	0.825	0.919	1.023	1.055	1.138	1.044	1.034
136.5	0.721	0.773	0.804	0.835	0.909	1.034	1.055	1.117	1.034	1.034
137.0	0.721	0.773	0.815	0.835	0.909	1.034	1.055	1.128	1.023	1.055
137.5	0.721	0.773	0.815	0.835	0.909	1.013	1.044	1.128	1.023	1.034
138.0	0.731	0.773	0.825	0.825	0.898	1.003	1.044	1.117	1.034	1.034
138.5	0.741	0.783	0.825	0.846	0.909	1.003	1.044	1.128	1.023	1.013
139.0	0.741	0.783	0.825	0.846	0.909	1.003	1.044	1.097	1.023	1.023
139.5	0.741	0.783	0.825	0.846	0.888	0.992	1.055	1.097	1.013	1.055
140.0	0.752	0.794	0.825	0.856	0.867	0.982	1.044	1.086	1.013	1.055
140.5	0.752	0.794	0.825	0.856	0.867	0.971	1.034	1.076	1.023	1.044
141.0	0.752	0.794	0.825	0.856	0.867	0.982	1.034	1.086	1.013	1.044
141.5	0.752	0.794	0.825	0.835	0.877	0.961	1.023	1.086	1.013	1.034
142.0	0.752	0.794	0.815	0.835	0.888	0.971	1.013	1.086	1.013	1.034
142.5	0.762	0.794	0.815	0.835	0.888	0.971	1.013	1.065	1.003	1.034
143.0	0.762	0.794	0.825	0.835	0.888	0.950	0.992	1.044	0.992	1.034
143.5	0.773	0.794	0.825	0.835	0.888	0.919	0.992	1.034	0.971	1.023
144.0	0.773	0.794	0.835	0.846	0.909	0.909	0.982	1.034	0.961	1.003
144.5	0.773	0.794	0.835	0.867	0.909	0.919	0.971	1.023	0.961	0.992
145.0	0.773	0.794	0.835	0.898	0.909	0.929	0.992	1.003	0.961	0.971
145.5	0.762	0.804	0.846	0.909	0.919	0.929	0.992	0.961	0.950	0.961
146.0	0.762	0.804	0.856	0.909	0.919	0.940	0.950	0.961	0.909	0.961
146.5	0.773	0.804	0.867	0.919	0.919	0.950	0.961	0.961	0.919	0.950
147.0	0.773	0.804	0.867	0.919	0.919	0.961	0.961	0.940	0.919	0.919
147.5	0.783	0.815	0.867	0.940	0.919	0.971	0.971	0.909	0.877	0.909
148.0	0.783	0.825	0.877	0.950	0.909	0.992	0.982	0.909	0.846	0.909
148.5	0.783	0.825	0.888	0.940	0.909	0.992	1.003	0.909	0.856	0.909
149.0	0.794	0.825	0.888	0.940	0.919	0.982	0.992	0.919	0.867	0.919
149.5	0.794	0.835	0.888	0.971	0.929	0.992	1.003	0.961	0.867	0.950
150.0	0.794	0.846	0.888	1.003	0.961	0.982	1.044	0.982	0.909	0.950
150.5	0.804	0.846	0.888	0.982	0.982	0.961	1.055	0.992	0.919	0.940
151.0	0.825	0.856	0.877	0.961	0.992	0.961	1.065	1.023	0.919	0.961
151.5	0.835	0.867	0.877	0.950	0.992	0.961	1.055	1.034	0.961	0.961
152.0	0.835	0.867	0.877	0.950	0.992	0.961	1.055	1.044	0.971	0.961

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152.5	0.846	0.867	0.877	0.950	0.992	0.971	1.055	1.044	0.971	0.950
153.0	0.846	0.877	0.877	0.950	0.992	0.992	1.044	1.044	0.971	0.950
153.5	0.835	0.898	0.888	0.950	0.982	1.013	1.034	1.034	0.961	0.950
154.0	0.835	0.898	0.898	0.961	0.982	1.023	1.034	1.034	0.961	0.940
154.5	0.846	0.898	0.909	0.961	1.003	1.034	1.034	1.034	0.961	0.929
155.0	0.846	0.898	0.909	0.971	1.013	1.044	1.055	1.034	0.950	0.929
155.5	0.846	0.919	0.919	0.961	1.003	1.065	1.076	1.044	0.950	0.929
156.0	0.856	0.919	0.929	0.961	0.992	1.076	1.076	1.065	0.961	0.940
156.5	0.867	0.919	0.929	0.961	0.992	1.065	1.086	1.097	0.982	0.971
157.0	0.867	0.919	0.940	0.961	0.992	1.055	1.086	1.107	1.013	0.992
157.5	0.877	0.919	0.961	0.971	1.003	1.044	1.097	1.117	1.023	1.013
158.0	0.877	0.919	0.961	0.982	1.013	1.044	1.097	1.128	1.023	1.023
158.5	0.877	0.919	0.961	0.982	1.023	1.034	1.107	1.128	1.023	1.023
159.0	0.877	0.929	0.961	0.982	1.023	1.044	1.128	1.128	1.023	1.013
159.5	0.877	0.940	0.961	0.982	1.023	1.044	1.128	1.128	1.023	1.013
160.0	0.877	0.929	0.961	0.992	1.013	1.055	1.117	1.138	1.023	1.003
160.5	0.877	0.929	0.971	0.992	1.023	1.065	1.097	1.149	1.013	1.003
161.0	0.877	0.919	0.961	0.992	1.034	1.076	1.086	1.149	1.013	0.992
161.5	0.867	0.929	0.961	1.003	1.044	1.076	1.086	1.159	1.013	0.992
162.0	0.867	0.929	0.971	1.013	1.044	1.076	1.097	1.159	1.013	0.992
162.5	0.877	0.940	0.982	1.013	1.055	1.086	1.117	1.149	1.013	1.003
163.0	0.877	0.950	0.992	1.023	1.065	1.097	1.128	1.159	1.013	1.003
163.5	0.877	0.950	1.003	1.034	1.076	1.107	1.138	1.170	1.023	1.013
164.0	0.877	0.950	1.013	1.044	1.086	1.117	1.149	1.159	1.023	1.013
164.5	0.888	0.961	1.023	1.065	1.097	1.128	1.159	1.159	1.023	1.023
165.0	0.898	0.982	1.034	1.076	1.117	1.138	1.170	1.170	1.034	1.034
165.5	0.919	0.992	1.055	1.086	1.138	1.149	1.170	1.170	1.044	1.044
166.0	0.929	1.003	1.065	1.097	1.138	1.149	1.170	1.180	1.055	1.055
166.5	0.940	1.013	1.086	1.107	1.138	1.159	1.170	1.191	1.065	1.065
167.0	0.950	1.023	1.086	1.117	1.149	1.170	1.180	1.191	1.065	1.065
167.5	0.961	1.023	1.097	1.138	1.159	1.170	1.191	1.211	1.076	1.086
168.0	0.971	1.023	1.097	1.138	1.159	1.180	1.201	1.222	1.097	1.097
168.5	0.971	1.023	1.097	1.128	1.159	1.191	1.201	1.232	1.107	1.107
169.0	0.971	1.034	1.097	1.128	1.159	1.191	1.201	1.232	1.117	1.107
169.5	0.971	1.044	1.097	1.128	1.159	1.191	1.201	1.232	1.117	1.117
170.0	0.971	1.044	1.097	1.128	1.159	1.180	1.201	1.232	1.128	1.117
170.5	0.961	1.044	1.097	1.128	1.149	1.170	1.191	1.222	1.138	1.138
171.0	0.961	1.034	1.097	1.128	1.159	1.159	1.191	1.222	1.159	1.149
171.5	0.961	1.034	1.097	1.128	1.170	1.159	1.191	1.211	1.170	1.159
172.0	0.982	1.034	1.097	1.128	1.170	1.159	1.201	1.211	1.170	1.170
172.5	0.992	1.044	1.107	1.149	1.159	1.159	1.211	1.211	1.170	1.170
173.0	1.003	1.055	1.117	1.170	1.159	1.170	1.211	1.222	1.180	1.180
173.5	1.023	1.065	1.128	1.170	1.159	1.170	1.222	1.232	1.180	1.180
174.0	1.034	1.076	1.149	1.159	1.149	1.180	1.222	1.232	1.191	1.191
174.5	1.055	1.076	1.149	1.159	1.149	1.180	1.222	1.232	1.191	1.191
175.0	1.055	1.076	1.149	1.159	1.149	1.180	1.222	1.232	1.180	1.191
175.5	1.044	1.076	1.149	1.159	1.159	1.180	1.211	1.222	1.180	1.180
176.0	1.044	1.086	1.149	1.159	1.159	1.180	1.201	1.211	1.180	1.180
176.5	1.044	1.086	1.149	1.159	1.159	1.180	1.201	1.211	1.180	1.180
177.0	1.044	1.086	1.159	1.159	1.159	1.170	1.191	1.211	1.180	1.180
177.5	1.055	1.086	1.159	1.159	1.149	1.159	1.180	1.201	1.180	1.180
178.0	1.055	1.086	1.149	1.149	1.138	1.149	1.170	1.191	1.180	1.180
178.5	1.065	1.086	1.149	1.138	1.128	1.138	1.159	1.191	1.180	1.180
179.0	1.076	1.097	1.149	1.128	1.117	1.128	1.149	1.180	1.180	1.180
179.5	1.086	1.097	1.149	1.128	1.107	1.107	1.138	1.170	1.180	1.180
180.0	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200	210	220	230	240	250	260	270	280	290
0.0	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261
0.5	2213.550	2213.509	2213.749	2213.321	2213.509	2213.519	2213.738	2213.791	2213.999	2214.010
1.0	2212.569	2212.778	2212.757	2212.579	2212.517	2212.767	2212.736	2212.799	2213.248	2213.728
1.5	2212.057	2212.235	2211.765	2211.577	2211.514	2211.744	2211.566	2212.047	2212.235	2212.705
2.0	2211.055	2210.752	2210.741	2210.313	2210.470	2210.250	2210.324	2210.553	2210.992	2211.545
2.5	2210.052	2209.728	2209.467	2209.060	2208.768	2209.029	2209.091	2209.311	2209.968	2210.543
3.0	2208.778	2208.099	2207.744	2207.598	2207.535	2208.005	2208.078	2208.308	2208.580	2209.300
3.5	2207.034	2206.574	2206.105	2206.272	2206.345	2206.355	2206.815	2207.024	2207.316	2208.277
4.0	2205.165	2204.611	2204.131	2203.943	2204.120	2204.611	2204.841	2205.050	2205.823	2206.554
4.5	2203.181	2202.627	2202.387	2202.209	2201.886	2202.136	2202.846	2203.076	2203.598	2204.569
5.0	2201.437	2200.862	2200.371	2199.975	2199.630	2199.860	2200.559	2201.196	2201.572	2202.784
5.5	2199.170	2198.815	2197.886	2197.458	2197.082	2197.343	2197.802	2198.408	2199.056	2200.434
6.0	2196.936	2196.361	2195.860	2195.192	2194.106	2194.816	2194.753	2195.662	2196.570	2197.708
6.5	2194.669	2194.012	2193.270	2192.194	2191.296	2191.557	2191.537	2192.414	2193.761	2194.972
7.0	2192.090	2190.983	2190.294	2189.145	2188.780	2188.289	2188.289	2189.156	2190.273	2191.965
7.5	2189.124	2188.038	2187.057	2186.179	2186.023	2185.553	2185.062	2185.699	2187.286	2189.009
8.0	2186.346	2184.999	2183.307	2182.932	2182.044	2182.044	2181.741	2182.399	2183.777	2186.148
8.5	2182.827	2181.229	2180.018	2179.412	2178.253	2177.992	2177.741	2178.378	2180.028	2181.939
9.0	2179.068	2177.480	2176.509	2175.809	2174.483	2173.763	2173.700	2174.358	2176.499	2178.619
9.5	2175.329	2174.243	2172.739	2171.361	2170.024	2169.752	2169.439	2170.066	2172.238	2174.400
10.0	2171.340	2170.264	2168.520	2167.163	2165.784	2165.064	2165.189	2165.408	2167.789	2170.222
10.5	2167.852	2166.254	2164.521	2162.902	2161.064	2160.291	2160.249	2160.698	2163.278	2165.920
11.0	2163.904	2162.296	2160.072	2158.464	2156.584	2155.352	2155.289	2156.250	2158.787	2161.200
11.5	2159.591	2157.555	2155.477	2153.910	2151.321	2150.778	2149.994	2151.467	2153.743	2156.500
12.0	2155.310	2153.545	2150.569	2148.438	2146.151	2145.368	2144.961	2146.172	2148.344	2151.456
12.5	2150.840	2148.292	2145.786	2144.178	2140.878	2140.105	2139.457	2141.003	2142.820	2146.444
13.0	2145.640	2143.551	2140.366	2138.235	2135.385	2134.654	2134.131	2135.291	2137.337	2140.982
13.5	2140.909	2138.810	2135.134	2132.555	2129.975	2128.732	2128.701	2129.129	2131.907	2135.291
14.0	2135.687	2132.555	2129.390	2126.571	2123.939	2122.665	2121.934	2123.104	2125.620	2129.390
14.5	2130.163	2127.260	2123.396	2120.806	2117.694	2116.431	2115.532	2116.890	2119.657	2123.668
15.0	2124.419	2121.213	2117.318	2114.311	2111.376	2110.144	2109.277	2110.551	2113.611	2117.182
15.5	2118.571	2115.146	2111.011	2107.731	2104.828	2103.366	2102.500	2103.533	2106.583	2110.614
16.0	2112.828	2108.870	2104.724	2101.476	2098.552	2096.370	2095.545	2096.756	2099.325	2103.878
16.5	2106.593	2102.458	2098.020	2094.260	2091.326	2089.874	2088.391	2089.790	2092.412	2097.101
17.0	2100.380	2096.014	2091.305	2087.587	2084.297	2082.407	2081.342	2082.355	2085.488	2089.947
17.5	2093.884	2089.164	2084.256	2080.548	2076.580	2074.659	2073.896	2075.055	2078.178	2082.668
18.0	2087.326	2082.418	2077.217	2073.217	2068.884	2067.171	2066.168	2067.275	2070.189	2075.191
18.5	2080.078	2074.899	2069.447	2064.978	2060.801	2059.328	2058.357	2059.516	2062.691	2067.902
19.0	2072.998	2067.599	2061.928	2056.728	2052.519	2051.005	2049.804	2051.527	2054.410	2060.289
19.5	2065.510	2059.903	2054.451	2049.021	2044.144	2042.578	2041.627	2043.037	2046.170	2052.154
20.0	2058.012	2052.196	2046.452	2040.834	2036.103	2034.390	2033.189	2034.349	2037.701	2043.914
20.5	2050.253	2044.249	2038.014	2032.772	2027.623	2025.660	2024.751	2025.566	2029.440	2035.215
21.0	2041.982	2035.863	2029.148	2023.039	2018.788	2017.055	2015.875	2016.867	2020.689	2025.911
21.5	2034.129	2027.320	2020.606	2014.737	2010.006	2007.740	2007.061	2008.022	2011.593	2017.337
22.0	2025.326	2018.527	2011.907	2005.703	2001.161	1998.613	1997.662	1998.539	2002.330	2008.669
22.5	2016.115	2010.225	2002.821	1996.430	1991.522	1989.266	1988.556	1989.214	1993.339	1999.511
23.0	2007.667	2001.035	1993.631	1987.000	1982.019	1979.335	1978.572	1980.087	1983.846	1989.590
23.5	1998.644	1991.543	1984.139	1977.027	1971.805	1969.310	1968.537	1969.560	1973.622	1979.857
24.0	1989.840	1981.747	1974.385	1967.273	1961.979	1959.493	1958.428	1959.618	1963.576	1969.978
24.5	1979.439	1971.816	1964.213	1956.841	1951.389	1948.956	1947.766	1948.925	1953.353	1959.326
25.0	1969.696	1961.770	1953.426	1946.084	1940.048	1938.085	1936.884	1938.618	1942.304	1948.883
25.5	1959.274	1951.254	1942.743	1935.902	1929.386	1926.754	1925.491	1926.911	1931.088	1938.806
26.0	1948.737	1940.059	1931.767	1924.373	1918.651	1915.695	1914.390	1916.165	1920.113	1927.287

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26.5	1938.095	1929.490	1920.687	1913.325	1907.779	1904.375	1903.331	1904.782	1909.022	1915.758
27.0	1926.723	1918.546	1909.952	1901.910	1895.613	1892.407	1891.133	1892.386	1897.117	1904.166
27.5	1916.061	1907.048	1898.193	1890.705	1884.377	1880.534	1879.448	1880.293	1885.129	1893.222
28.0	1904.281	1895.342	1885.860	1878.414	1872.043	1869.057	1866.947	1868.274	1873.025	1880.450
28.5	1892.606	1883.186	1873.892	1866.060	1859.637	1856.149	1854.061	1855.376	1860.306	1868.023
29.0	1880.753	1870.842	1862.196	1853.476	1846.980	1842.761	1841.216	1842.427	1847.711	1855.199
29.5	1868.817	1858.353	1849.069	1840.777	1834.000	1829.572	1828.068	1828.862	1834.334	1842.302
30.0	1855.491	1845.518	1836.443	1827.452	1820.894	1817.176	1814.889	1815.714	1821.708	1829.426
30.5	1842.511	1832.538	1822.763	1814.053	1806.764	1803.266	1801.156	1802.378	1807.485	1815.401
31.0	1829.279	1819.338	1809.741	1800.822	1793.053	1788.802	1786.526	1787.998	1793.282	1801.731
31.5	1815.787	1805.292	1795.872	1786.985	1779.696	1774.464	1772.167	1774.151	1779.257	1787.695
32.0	1801.887	1791.329	1781.962	1772.177	1765.232	1760.564	1758.079	1759.029	1764.345	1773.065
32.5	1787.716	1776.939	1767.248	1757.400	1749.881	1745.339	1743.260	1744.242	1749.077	1758.643
33.0	1773.138	1762.789	1752.680	1743.041	1735.000	1729.705	1727.867	1728.243	1734.342	1742.968
33.5	1758.789	1747.960	1737.371	1727.878	1720.662	1714.177	1712.224	1713.038	1718.542	1728.128
34.0	1743.354	1731.940	1721.351	1712.203	1704.339	1698.878	1696.142	1696.664	1702.240	1712.370
34.5	1728.045	1717.069	1706.271	1696.319	1687.463	1681.542	1679.537	1679.850	1685.887	1695.505
35.0	1712.537	1700.883	1690.753	1680.644	1671.151	1664.092	1662.223	1662.870	1668.614	1679.213
35.5	1696.110	1685.208	1673.794	1663.946	1654.860	1647.613	1644.616	1645.399	1651.863	1662.254
36.0	1680.373	1668.426	1657.596	1647.362	1637.180	1630.560	1627.082	1627.677	1634.591	1645.462
36.5	1663.904	1652.438	1640.888	1629.839	1619.271	1611.971	1608.838	1608.640	1615.783	1627.280
37.0	1647.279	1634.966	1624.210	1612.848	1601.392	1592.745	1589.633	1590.124	1597.309	1610.008
37.5	1629.891	1617.391	1605.737	1594.437	1583.065	1573.885	1570.356	1570.826	1578.230	1591.242
38.0	1613.266	1599.711	1587.963	1576.350	1563.787	1553.877	1549.449	1549.981	1558.242	1572.517
38.5	1595.241	1583.065	1570.136	1557.720	1544.206	1533.857	1528.542	1529.137	1538.254	1552.874
39.0	1577.697	1564.351	1551.506	1538.003	1524.626	1513.838	1507.645	1508.293	1518.276	1533.220
39.5	1560.059	1545.668	1532.876	1518.287	1505.056	1493.819	1486.739	1487.438	1498.288	1513.567
40.0	1541.408	1526.975	1514.245	1498.570	1485.475	1473.789	1465.821	1466.552	1478.290	1493.923
40.5	1522.746	1508.293	1495.615	1479.000	1465.863	1451.817	1443.776	1444.309	1455.232	1474.217
41.0	1504.084	1489.610	1476.922	1461.769	1444.914	1429.908	1421.104	1421.835	1433.082	1452.893
41.5	1485.423	1470.886	1456.412	1440.163	1423.370	1407.591	1397.294	1398.339	1409.774	1430.931
42.0	1466.719	1451.660	1436.529	1420.227	1401.691	1384.857	1374.487	1374.884	1386.517	1408.656
42.5	1446.763	1432.330	1416.311	1399.613	1380.283	1361.945	1350.750	1350.541	1363.219	1385.995
43.0	1426.952	1411.549	1395.602	1378.685	1358.457	1339.075	1326.783	1326.888	1340.443	1364.211
43.5	1406.307	1390.757	1374.581	1356.587	1335.639	1315.494	1301.960	1302.305	1316.016	1340.965
44.0	1387.144	1369.860	1353.987	1335.660	1312.894	1291.799	1277.941	1277.012	1290.797	1317.478
44.5	1365.704	1349.705	1333.268	1313.886	1290.838	1267.248	1252.429	1251.938	1266.402	1293.689
45.0	1344.160	1328.109	1311.119	1291.663	1267.467	1242.581	1226.781	1226.395	1241.767	1269.973
45.5	1323.243	1307.161	1289.888	1269.461	1243.855	1218.218	1201.008	1200.485	1216.505	1245.735
46.0	1303.433	1286.421	1269.169	1248.158	1220.338	1193.134	1176.132	1174.764	1190.815	1221.914
46.5	1281.179	1264.574	1247.959	1225.747	1197.342	1167.726	1150.307	1149.524	1165.721	1196.924
47.0	1259.227	1242.832	1225.643	1202.637	1172.728	1142.234	1124.575	1123.364	1140.114	1171.799
47.5	1237.548	1221.528	1203.754	1179.568	1147.049	1116.576	1098.134	1097.037	1114.091	1146.245
48.0	1217.570	1200.350	1182.252	1157.137	1123.040	1091.252	1073.258	1071.661	1088.307	1121.818
48.5	1194.167	1178.137	1160.311	1133.619	1098.812	1066.648	1048.091	1047.558	1063.651	1096.275
49.0	1172.446	1156.604	1138.423	1110.268	1073.948	1041.512	1024.155	1023.404	1039.026	1071.911
49.5	1150.641	1135.373	1116.482	1086.312	1048.989	1016.511	999.520	998.873	1014.548	1046.775
50.0	1128.408	1113.809	1093.946	1063.181	1024.427	992.492	976.170	975.199	990.153	1021.754
50.5	1106.404	1091.628	1071.629	1039.298	1000.126	969.559	953.133	952.276	966.865	997.223
51.0	1084.380	1069.488	1048.508	1014.767	975.575	945.906	930.565	929.761	943.494	973.465
51.5	1062.805	1048.039	1026.881	990.769	951.650	922.712	908.207	907.800	921.146	950.062
52.0	1040.572	1026.244	1003.718	967.513	928.675	900.176	886.611	886.391	898.819	927.015
52.5	1018.923	1004.293	980.744	943.546	905.857	879.374	865.819	865.505	877.807	904.030
53.0	996.837	982.258	957.529	919.611	882.433	857.203	844.880	845.068	856.295	881.901
53.5	975.522	960.505	935.265	896.563	859.950	835.597	823.775	824.141	835.471	859.939
54.0	953.958	938.304	911.789	873.922	838.573	815.160	803.808	804.445	815.713	838.416

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54.5	932.100	916.237	888.741	850.363	817.133	795.558	784.499	785.011	795.193	817.530
55.0	910.295	894.923	866.309	827.775	795.642	774.923	765.461	765.890	775.675	797.939
55.5	889.221	873.139	843.679	806.576	775.309	755.008	746.340	746.591	756.251	779.476
56.0	868.377	851.334	821.321	785.616	756.042	736.576	728.253	729.141	737.829	757.243
56.5	846.718	829.268	799.067	763.644	735.365	718.478	710.145	710.928	719.857	737.840
57.0	825.498	808.215	777.513	742.362	715.638	699.430	692.350	693.185	702.407	718.739
57.5	804.685	786.316	756.042	722.645	696.903	680.779	675.244	675.662	684.016	700.193
58.0	783.758	765.033	734.394	703.023	678.858	664.217	658.483	659.663	666.702	682.022
58.5	763.300	744.377	713.925	683.275	660.342	647.550	642.109	643.508	650.286	664.760
59.0	743.489	723.867	694.073	664.499	642.631	630.371	626.058	627.551	633.890	647.341
59.5	723.763	703.420	674.388	646.369	625.619	613.819	610.759	612.033	617.850	630.486
60.0	703.827	683.693	654.630	627.781	609.213	598.593	595.345	597.005	602.467	613.871
60.5	684.110	663.663	635.258	610.059	591.920	583.085	580.526	582.103	587.210	597.736
61.0	665.501	644.688	617.265	592.974	576.057	567.493	565.687	567.577	572.318	581.999
61.5	647.268	625.828	599.543	576.725	560.737	552.863	551.766	553.531	558.116	567.149
62.0	629.076	607.668	582.291	560.100	545.751	539.078	537.877	539.882	544.268	552.069
62.5	611.323	589.601	565.092	544.132	530.222	524.688	524.437	526.233	529.930	537.345
63.0	594.040	572.830	548.717	528.614	515.863	510.610	510.819	512.595	516.657	522.975
63.5	577.373	556.142	532.583	514.067	502.037	497.431	497.640	499.562	503.394	509.232
64.0	561.029	539.276	516.908	498.653	488.043	484.618	484.691	486.874	490.403	495.531
64.5	545.333	523.852	501.870	484.534	474.331	471.669	472.452	474.342	477.485	482.404
65.0	530.369	509.065	487.584	470.802	461.591	458.939	459.857	462.155	465.382	469.705
65.5	515.372	494.319	473.193	457.748	449.070	446.741	448.005	449.958	453.111	456.975
66.0	500.898	479.960	459.137	444.026	436.403	435.316	436.329	438.303	441.185	444.548
66.5	487.323	466.363	445.895	431.317	424.007	423.328	424.654	427.192	429.583	432.622
67.0	474.311	453.351	433.562	419.088	412.509	412.008	413.564	415.976	418.649	421.135
67.5	461.048	440.371	420.466	407.256	401.199	401.022	402.807	405.053	407.434	409.710
68.0	448.725	428.121	408.373	395.247	389.921	390.767	392.333	394.432	396.625	398.421
68.5	436.987	416.571	396.991	384.167	379.018	380.198	382.203	384.574	386.485	387.957
69.0	425.563	404.959	386.005	373.264	368.857	370.079	371.948	374.402	376.501	377.598
69.5	414.107	393.565	374.423	362.560	358.675	360.054	362.121	364.471	366.351	367.385
70.0	403.204	382.882	363.959	351.846	348.608	350.770	352.577	354.550	356.357	357.422
70.5	392.667	372.711	353.913	342.259	339.157	341.215	343.397	345.517	347.052	347.752
71.0	382.433	362.675	344.212	332.798	330.187	332.202	334.197	336.306	337.894	338.698
71.5	372.293	352.587	334.374	323.441	321.310	323.461	325.122	327.252	328.746	329.675
72.0	362.518	343.136	325.393	314.397	312.632	314.867	316.475	318.438	319.723	320.788
72.5	352.733	333.978	316.318	305.896	304.225	306.105	307.713	309.656	310.878	312.047
73.0	343.126	324.746	307.672	297.469	295.861	297.719	299.004	300.696	302.294	303.369
73.5	333.591	315.661	298.941	289.250	287.621	289.323	290.399	291.997	293.626	294.921
74.0	324.360	306.951	290.911	281.220	279.590	281.094	281.961	283.402	284.833	286.577
74.5	315.243	298.398	282.922	273.565	271.612	272.416	273.262	274.588	276.176	278.306
75.0	305.823	289.699	274.891	265.889	263.466	264.156	264.490	265.513	267.330	269.680
75.5	296.633	281.105	266.766	257.859	255.290	255.363	255.739	256.678	258.402	260.887
76.0	287.506	272.615	259.153	250.214	246.831	246.517	246.799	247.698	249.431	252.104
76.5	278.275	264.083	251.384	242.319	238.664	237.683	237.881	238.769	240.492	243.447
77.0	269.085	255.310	243.385	234.372	229.997	229.099	228.984	229.830	231.615	234.665
77.5	259.770	246.685	235.208	226.248	221.037	219.971	220.003	220.650	222.436	225.391
78.0	250.716	238.100	227.386	218.029	212.484	210.928	210.949	211.408	213.340	216.316
78.5	242.549	229.245	219.146	209.685	204.004	202.041	201.748	202.438	204.359	207.377
79.0	232.117	220.128	210.458	200.955	194.814	192.893	192.611	193.227	195.169	198.521
79.5	222.874	211.210	201.780	192.047	185.551	183.400	183.087	183.713	185.677	188.768
80.0	213.424	202.145	192.809	182.732	176.278	173.907	173.563	174.210	176.132	179.108
80.5	204.067	192.882	183.034	173.427	166.994	164.415	164.039	164.707	166.587	169.459
81.0	194.804	182.993	173.260	164.122	157.721	154.911	154.525	155.204	157.042	159.799
81.5	185.520	173.103	163.485	154.807	148.437	145.398	145.001	145.690	147.486	150.139
82.0	175.578	163.214	153.711	145.481	138.652	135.540	135.174	135.947	137.576	140.479

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82.5	165.636	153.324	143.915	135.216	128.679	125.807	125.201	125.807	127.624	130.266
83.0	155.695	143.424	133.232	124.857	118.215	115.500	114.915	115.520	117.358	120.491
83.5	145.743	133.180	122.622	114.079	108.158	105.276	104.545	105.307	106.811	109.610
84.0	135.435	122.288	111.980	103.532	97.914	95.386	94.373	95.209	96.765	99.376
84.5	124.794	111.448	100.827	92.588	87.408	85.069	84.087	84.975	86.541	89.131
85.0	113.139	100.127	89.173	81.602	76.464	74.573	73.654	74.323	76.161	78.939
85.5	101.610	89.016	77.978	70.386	66.083	64.402	63.556	64.318	66.000	68.203
86.0	89.559	77.195	66.605	59.368	55.672	54.492	53.583	54.638	55.880	58.449
86.5	77.268	65.561	55.170	48.643	45.448	44.414	43.568	44.748	45.939	48.487
87.0	65.091	53.489	44.143	40.644	37.010	36.122	35.527	36.477	37.553	38.942
87.5	52.622	43.004	35.538	32.645	28.572	27.831	27.476	28.217	29.157	31.339
88.0	42.242	32.509	26.932	24.645	20.134	19.528	19.434	19.957	20.771	23.747
88.5	31.872	22.024	18.327	16.657	11.696	11.237	11.393	11.686	12.375	16.155
89.0	21.492	11.540	9.722	8.657	3.446	3.248	3.373	3.509	4.198	8.553
89.5	11.111	1.713	1.211	0.919	0.752	0.564	0.616	0.658	0.950	1.107
90.0	1.358	1.326	1.013	0.773	0.533	0.386	0.366	0.366	0.366	0.418
90.5	1.295	1.358	1.044	0.794	0.543	0.397	0.366	0.366	0.376	0.428
91.0	1.274	1.368	1.055	0.804	0.553	0.407	0.376	0.386	0.386	0.449
91.5	1.274	1.347	1.055	0.804	0.553	0.418	0.397	0.407	0.418	0.480
92.0	1.316	1.326	1.055	0.815	0.574	0.439	0.407	0.418	0.428	0.501
92.5	1.326	1.399	1.128	0.825	0.595	0.459	0.428	0.439	0.449	0.522
93.0	1.431	1.358	1.117	0.856	0.606	0.470	0.439	0.439	0.449	0.522
93.5	1.472	1.420	1.076	0.835	0.627	0.480	0.439	0.439	0.449	0.522
94.0	1.566	1.462	1.117	0.835	0.616	0.480	0.439	0.439	0.449	0.533
94.5	1.629	1.462	1.159	0.856	0.616	0.480	0.449	0.449	0.459	0.533
95.0	1.660	1.452	1.201	0.877	0.627	0.491	0.449	0.449	0.459	0.543
95.5	1.681	1.452	1.180	0.898	0.637	0.491	0.459	0.459	0.470	0.533
96.0	1.681	1.472	1.170	0.898	0.647	0.491	0.459	0.470	0.470	0.533
96.5	1.702	1.504	1.159	0.888	0.658	0.501	0.470	0.470	0.480	0.543
97.0	1.734	1.556	1.138	0.877	0.658	0.512	0.470	0.470	0.480	0.543
97.5	1.723	1.598	1.128	0.867	0.668	0.512	0.480	0.480	0.491	0.543
98.0	1.723	1.566	1.138	0.856	0.668	0.522	0.480	0.480	0.491	0.553
98.5	1.713	1.566	1.170	0.856	0.668	0.522	0.491	0.491	0.501	0.553
99.0	1.692	1.566	1.201	0.856	0.668	0.533	0.501	0.501	0.501	0.564
99.5	1.660	1.556	1.222	0.856	0.679	0.533	0.501	0.501	0.512	0.564
100.0	1.650	1.546	1.243	0.877	0.679	0.543	0.512	0.512	0.512	0.564
100.5	1.640	1.535	1.232	0.888	0.679	0.553	0.512	0.512	0.522	0.574
101.0	1.629	1.556	1.222	0.909	0.689	0.564	0.522	0.522	0.522	0.585
101.5	1.640	1.587	1.201	0.919	0.700	0.564	0.533	0.533	0.533	0.585
102.0	1.629	1.587	1.191	0.919	0.710	0.574	0.533	0.533	0.543	0.595
102.5	1.619	1.546	1.191	0.909	0.731	0.585	0.543	0.543	0.553	0.616
103.0	1.598	1.504	1.201	0.909	0.741	0.595	0.564	0.564	0.564	0.627
103.5	1.577	1.493	1.211	0.909	0.741	0.616	0.574	0.574	0.574	0.637
104.0	1.556	1.483	1.222	0.909	0.752	0.627	0.585	0.585	0.585	0.647
104.5	1.535	1.483	1.232	0.909	0.752	0.627	0.595	0.595	0.595	0.647
105.0	1.514	1.462	1.232	0.919	0.752	0.637	0.606	0.606	0.606	0.647
105.5	1.504	1.462	1.211	0.919	0.752	0.637	0.606	0.606	0.606	0.658
106.0	1.504	1.462	1.180	0.919	0.762	0.637	0.606	0.616	0.606	0.658
106.5	1.504	1.452	1.149	0.919	0.762	0.637	0.606	0.616	0.606	0.658
107.0	1.504	1.410	1.128	0.909	0.762	0.637	0.616	0.616	0.606	0.658
107.5	1.514	1.378	1.117	0.909	0.752	0.627	0.616	0.616	0.606	0.658
108.0	1.514	1.347	1.117	0.898	0.752	0.627	0.616	0.616	0.606	0.658
108.5	1.493	1.326	1.128	0.888	0.752	0.627	0.606	0.616	0.606	0.647
109.0	1.483	1.295	1.128	0.877	0.752	0.627	0.606	0.606	0.606	0.647
109.5	1.462	1.274	1.117	0.877	0.741	0.627	0.606	0.606	0.606	0.647
110.0	1.431	1.264	1.107	0.867	0.741	0.627	0.606	0.606	0.606	0.637

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110.5	1.410	1.253	1.086	0.856	0.741	0.627	0.606	0.606	0.595	0.637
111.0	1.399	1.232	1.065	0.856	0.731	0.627	0.595	0.595	0.595	0.627
111.5	1.358	1.201	1.055	0.856	0.721	0.616	0.595	0.595	0.595	0.627
112.0	1.326	1.191	1.034	0.856	0.710	0.616	0.585	0.595	0.585	0.616
112.5	1.295	1.170	1.013	0.835	0.710	0.616	0.585	0.585	0.585	0.616
113.0	1.284	1.149	0.992	0.825	0.700	0.606	0.574	0.585	0.585	0.616
113.5	1.243	1.149	0.982	0.815	0.689	0.606	0.574	0.574	0.574	0.606
114.0	1.222	1.128	0.961	0.804	0.689	0.595	0.564	0.574	0.574	0.606
114.5	1.201	1.107	0.961	0.783	0.689	0.595	0.564	0.564	0.564	0.595
115.0	1.191	1.097	0.950	0.773	0.668	0.595	0.564	0.564	0.564	0.585
115.5	1.170	1.086	0.940	0.762	0.658	0.585	0.553	0.553	0.553	0.585
116.0	1.159	1.055	0.919	0.752	0.647	0.585	0.553	0.553	0.553	0.574
116.5	1.159	1.044	0.909	0.741	0.637	0.574	0.553	0.543	0.553	0.564
117.0	1.149	1.023	0.888	0.731	0.637	0.574	0.543	0.543	0.543	0.564
117.5	1.128	1.013	0.888	0.721	0.627	0.564	0.543	0.533	0.543	0.564
118.0	1.117	1.003	0.877	0.710	0.616	0.564	0.533	0.533	0.533	0.564
118.5	1.117	0.992	0.877	0.710	0.616	0.553	0.533	0.522	0.533	0.553
119.0	1.107	0.992	0.867	0.700	0.606	0.543	0.522	0.522	0.522	0.553
119.5	1.117	0.982	0.867	0.679	0.606	0.543	0.522	0.512	0.522	0.543
120.0	1.117	0.992	0.867	0.679	0.595	0.533	0.512	0.512	0.512	0.543
120.5	1.107	1.003	0.856	0.668	0.585	0.533	0.512	0.501	0.512	0.543
121.0	1.097	1.003	0.856	0.658	0.585	0.533	0.501	0.491	0.501	0.543
121.5	1.097	1.003	0.846	0.658	0.574	0.522	0.501	0.491	0.501	0.543
122.0	1.097	0.992	0.856	0.668	0.574	0.522	0.491	0.491	0.501	0.543
122.5	1.097	0.992	0.846	0.668	0.574	0.522	0.491	0.480	0.501	0.543
123.0	1.086	0.992	0.846	0.668	0.574	0.533	0.491	0.480	0.491	0.543
123.5	1.086	0.992	0.835	0.668	0.574	0.522	0.501	0.480	0.491	0.543
124.0	1.076	0.992	0.835	0.668	0.574	0.533	0.501	0.480	0.501	0.543
124.5	1.076	1.003	0.835	0.668	0.574	0.533	0.501	0.491	0.501	0.543
125.0	1.076	1.003	0.846	0.689	0.585	0.533	0.512	0.501	0.501	0.553
125.5	1.086	1.013	0.856	0.679	0.585	0.543	0.512	0.501	0.501	0.553
126.0	1.076	1.003	0.867	0.679	0.595	0.543	0.522	0.512	0.512	0.574
126.5	1.086	1.013	0.877	0.679	0.595	0.553	0.533	0.522	0.522	0.564
127.0	1.076	1.003	0.877	0.679	0.606	0.553	0.543	0.533	0.522	0.564
127.5	1.055	1.013	0.877	0.679	0.606	0.564	0.543	0.533	0.533	0.574
128.0	1.086	1.013	0.877	0.679	0.606	0.574	0.553	0.543	0.543	0.585
128.5	1.086	1.003	0.867	0.679	0.606	0.585	0.564	0.553	0.553	0.585
129.0	1.097	1.013	0.867	0.689	0.606	0.595	0.574	0.564	0.564	0.595
129.5	1.086	1.013	0.867	0.710	0.616	0.606	0.585	0.585	0.574	0.606
130.0	1.055	1.003	0.867	0.721	0.616	0.616	0.595	0.595	0.585	0.616
130.5	1.055	0.992	0.877	0.731	0.627	0.627	0.606	0.606	0.595	0.616
131.0	1.065	0.971	0.877	0.741	0.637	0.637	0.616	0.616	0.606	0.627
131.5	1.055	0.992	0.877	0.741	0.658	0.647	0.637	0.627	0.616	0.637
132.0	1.055	0.992	0.888	0.752	0.679	0.647	0.647	0.637	0.627	0.637
132.5	1.076	0.982	0.877	0.752	0.689	0.658	0.647	0.647	0.637	0.647
133.0	1.055	1.003	0.877	0.762	0.710	0.668	0.658	0.658	0.637	0.658
133.5	1.044	1.003	0.888	0.773	0.721	0.679	0.668	0.668	0.647	0.668
134.0	1.055	0.992	0.888	0.783	0.731	0.689	0.679	0.679	0.658	0.689
134.5	1.044	0.992	0.888	0.794	0.741	0.710	0.689	0.679	0.668	0.700
135.0	1.044	0.992	0.888	0.794	0.762	0.721	0.700	0.689	0.689	0.710
135.5	1.044	0.992	0.867	0.804	0.783	0.731	0.721	0.700	0.700	0.710
136.0	1.044	0.992	0.856	0.815	0.783	0.741	0.731	0.721	0.710	0.721
136.5	1.023	0.992	0.856	0.825	0.783	0.752	0.752	0.731	0.721	0.741
137.0	1.034	0.992	0.856	0.825	0.794	0.762	0.762	0.741	0.731	0.752
137.5	1.055	0.992	0.835	0.835	0.804	0.773	0.773	0.752	0.741	0.752
138.0	1.044	0.982	0.815	0.835	0.804	0.783	0.783	0.773	0.752	0.773

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CANDELA TABULATION - (Cont.)

138.5	1.044	0.971	0.815	0.835	0.815	0.783	0.794	0.783	0.762	0.783
139.0	1.055	0.950	0.835	0.846	0.815	0.804	0.804	0.794	0.762	0.783
139.5	1.055	0.940	0.825	0.846	0.825	0.804	0.804	0.794	0.773	0.783
140.0	1.044	0.940	0.835	0.835	0.835	0.815	0.815	0.815	0.783	0.794
140.5	1.044	0.929	0.856	0.815	0.846	0.825	0.825	0.825	0.783	0.804
141.0	1.034	0.940	0.867	0.815	0.846	0.825	0.835	0.835	0.794	0.804
141.5	1.034	0.940	0.877	0.825	0.856	0.835	0.835	0.835	0.804	0.815
142.0	1.013	0.919	0.898	0.846	0.867	0.846	0.846	0.846	0.815	0.815
142.5	1.013	0.909	0.919	0.856	0.877	0.846	0.846	0.846	0.815	0.815
143.0	1.013	0.909	0.929	0.877	0.856	0.856	0.856	0.856	0.825	0.825
143.5	0.982	0.898	0.929	0.888	0.856	0.856	0.856	0.867	0.835	0.825
144.0	0.982	0.898	0.929	0.898	0.856	0.867	0.867	0.867	0.846	0.815
144.5	0.992	0.909	0.919	0.898	0.856	0.867	0.877	0.877	0.846	0.804
145.0	0.961	0.929	0.929	0.909	0.856	0.856	0.888	0.888	0.846	0.804
145.5	0.940	0.929	0.929	0.919	0.867	0.856	0.888	0.888	0.825	0.794
146.0	0.940	0.929	0.929	0.940	0.867	0.856	0.867	0.877	0.825	0.794
146.5	0.940	0.940	0.919	0.971	0.877	0.856	0.867	0.877	0.815	0.794
147.0	0.950	0.950	0.919	0.961	0.877	0.856	0.867	0.877	0.804	0.794
147.5	0.950	0.961	0.919	0.950	0.877	0.867	0.877	0.888	0.794	0.794
148.0	0.971	0.961	0.919	0.950	0.888	0.877	0.877	0.877	0.794	0.794
148.5	0.971	0.961	0.940	0.940	0.898	0.877	0.888	0.877	0.794	0.794
149.0	0.971	0.971	0.961	0.940	0.898	0.877	0.888	0.877	0.794	0.794
149.5	0.982	0.961	0.982	0.940	0.909	0.877	0.888	0.867	0.794	0.804
150.0	0.982	0.961	0.982	0.940	0.919	0.898	0.877	0.846	0.794	0.804
150.5	0.971	0.940	0.971	0.940	0.909	0.909	0.877	0.846	0.804	0.815
151.0	0.982	0.940	0.971	0.950	0.898	0.940	0.877	0.835	0.825	0.815
151.5	0.982	0.950	0.971	0.950	0.888	0.971	0.888	0.846	0.835	0.825
152.0	0.992	0.950	0.982	0.940	0.888	0.992	0.898	0.856	0.846	0.825
152.5	0.982	0.950	1.003	0.940	0.898	0.992	0.898	0.856	0.856	0.825
153.0	0.982	0.961	1.013	0.950	0.898	0.971	0.898	0.867	0.856	0.835
153.5	0.992	0.961	0.982	0.950	0.909	0.971	0.888	0.867	0.856	0.835
154.0	0.992	0.961	0.971	0.950	0.909	0.950	0.877	0.867	0.856	0.846
154.5	1.003	0.961	0.971	0.950	0.909	0.929	0.877	0.867	0.867	0.846
155.0	1.013	0.961	0.992	0.950	0.919	0.929	0.888	0.877	0.877	0.846
155.5	1.023	0.961	1.023	0.950	0.929	0.919	0.888	0.877	0.877	0.846
156.0	1.023	0.961	1.023	0.950	0.929	0.909	0.888	0.888	0.877	0.856
156.5	1.023	0.961	0.992	0.950	0.929	0.919	0.877	0.877	0.877	0.867
157.0	1.034	0.961	0.971	0.961	0.940	0.919	0.888	0.867	0.877	0.877
157.5	1.044	0.971	0.961	0.971	0.940	0.919	0.898	0.877	0.888	0.888
158.0	1.044	0.971	0.961	0.982	0.940	0.919	0.898	0.877	0.888	0.888
158.5	1.034	0.982	0.971	0.982	0.950	0.919	0.898	0.877	0.898	0.898
159.0	1.023	0.992	0.971	0.982	0.950	0.929	0.898	0.877	0.898	0.898
159.5	1.013	1.013	0.961	0.982	0.961	0.940	0.909	0.877	0.909	0.909
160.0	1.013	1.034	0.961	0.982	0.961	0.950	0.909	0.877	0.909	0.919
160.5	1.023	1.044	0.971	0.982	0.971	0.950	0.919	0.888	0.919	0.919
161.0	1.044	1.034	0.971	0.982	0.971	0.940	0.929	0.898	0.919	0.919
161.5	1.044	1.023	0.992	0.982	0.961	0.950	0.929	0.909	0.919	0.919
162.0	1.034	1.023	1.003	0.982	0.961	0.961	0.929	0.909	0.919	0.919
162.5	1.023	1.023	1.013	0.982	0.961	0.961	0.940	0.909	0.909	0.909
163.0	1.013	1.034	1.034	0.992	0.971	0.961	0.940	0.919	0.909	0.898
163.5	1.003	1.044	1.044	0.992	0.971	0.971	0.929	0.919	0.898	0.888
164.0	1.003	1.044	1.044	1.003	0.982	0.971	0.929	0.929	0.898	0.888
164.5	1.013	1.044	1.055	1.023	0.992	0.982	0.940	0.971	0.898	0.888
165.0	1.034	1.044	1.055	1.044	1.003	0.992	0.950	0.992	0.898	0.898
165.5	1.044	1.055	1.076	1.065	1.023	0.992	0.950	0.971	0.909	0.898
166.0	1.065	1.065	1.097	1.086	1.044	1.003	0.961	0.961	0.919	0.909

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CANDELA TABULATION - (Cont.)

166.5	1.076	1.076	1.117	1.107	1.055	1.023	0.971	0.950	0.929	0.898
167.0	1.086	1.086	1.138	1.117	1.076	1.034	0.982	0.950	0.940	0.909
167.5	1.097	1.097	1.138	1.128	1.097	1.055	1.003	0.961	0.940	0.929
168.0	1.107	1.107	1.149	1.149	1.107	1.076	1.013	0.982	0.950	0.950
168.5	1.107	1.117	1.159	1.170	1.117	1.097	1.034	1.003	0.971	0.961
169.0	1.107	1.128	1.159	1.180	1.128	1.107	1.055	1.023	0.992	0.971
169.5	1.117	1.128	1.159	1.180	1.149	1.117	1.076	1.065	1.023	0.982
170.0	1.117	1.138	1.159	1.180	1.170	1.138	1.086	1.097	1.044	1.013
170.5	1.138	1.159	1.159	1.180	1.180	1.149	1.107	1.107	1.044	1.055
171.0	1.149	1.170	1.159	1.180	1.180	1.149	1.117	1.097	1.055	1.076
171.5	1.170	1.180	1.170	1.180	1.180	1.159	1.117	1.055	1.065	1.076
172.0	1.180	1.180	1.170	1.170	1.180	1.159	1.107	1.044	1.086	1.086
172.5	1.191	1.180	1.170	1.170	1.170	1.149	1.107	1.055	1.076	1.086
173.0	1.191	1.180	1.180	1.180	1.170	1.149	1.107	1.055	1.065	1.097
173.5	1.191	1.191	1.180	1.180	1.170	1.149	1.097	1.065	1.076	1.117
174.0	1.201	1.191	1.191	1.191	1.180	1.149	1.107	1.055	1.076	1.128
174.5	1.201	1.201	1.191	1.191	1.191	1.159	1.107	1.065	1.055	1.138
175.0	1.201	1.201	1.191	1.191	1.201	1.170	1.117	1.076	1.055	1.149
175.5	1.201	1.201	1.191	1.191	1.201	1.180	1.128	1.076	1.065	1.138
176.0	1.201	1.201	1.191	1.191	1.201	1.191	1.128	1.076	1.065	1.128
176.5	1.201	1.201	1.201	1.191	1.201	1.191	1.128	1.076	1.076	1.117
177.0	1.201	1.201	1.201	1.191	1.191	1.191	1.128	1.076	1.097	1.128
177.5	1.191	1.201	1.191	1.191	1.191	1.191	1.128	1.086	1.117	1.128
178.0	1.191	1.201	1.191	1.180	1.180	1.201	1.138	1.097	1.128	1.128
178.5	1.191	1.201	1.191	1.180	1.180	1.201	1.149	1.107	1.138	1.117
179.0	1.201	1.201	1.191	1.191	1.180	1.201	1.149	1.107	1.149	1.097
179.5	1.201	1.201	1.191	1.191	1.180	1.201	1.149	1.117	1.149	1.097
180.0	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191

Vert. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261	2214.261
0.5	2214.261	2214.490	2214.490	2214.501	2214.490	2214.741	2214.511
1.0	2214.010	2213.999	2214.490	2214.730	2214.741	2214.992	2214.981
1.5	2213.258	2213.728	2214.449	2214.490	2214.730	2215.211	2214.772
2.0	2212.245	2212.715	2213.446	2213.989	2214.469	2214.950	2214.762
2.5	2211.253	2211.723	2212.464	2213.488	2213.958	2214.459	2214.532
3.0	2210.240	2210.720	2211.524	2212.725	2213.206	2213.947	2214.281
3.5	2208.747	2209.540	2210.522	2211.493	2212.255	2213.237	2213.321
4.0	2207.347	2207.817	2209.279	2210.250	2211.023	2211.984	2212.068
4.5	2205.614	2206.324	2207.535	2209.018	2209.770	2210.501	2211.128
5.0	2203.859	2204.580	2205.770	2207.734	2208.506	2209.227	2210.125
5.5	2201.583	2202.815	2203.891	2206.084	2206.971	2207.567	2208.412
6.0	2199.337	2200.779	2202.147	2203.859	2205.102	2205.823	2206.909
6.5	2196.591	2198.210	2199.891	2201.865	2203.118	2204.079	2205.186
7.0	2193.771	2195.463	2197.625	2199.619	2201.102	2202.324	2203.671
7.5	2191.056	2192.748	2195.139	2197.604	2198.888	2200.309	2202.042
8.0	2187.808	2189.740	2192.341	2194.805	2196.403	2197.813	2199.828
8.5	2184.300	2186.681	2189.062	2191.756	2193.886	2195.474	2197.353
9.0	2180.739	2183.433	2185.793	2188.727	2191.129	2192.946	2194.837
9.5	2176.781	2179.903	2182.796	2185.720	2187.902	2190.200	2192.142
10.0	2173.052	2175.695	2179.350	2182.462	2184.707	2187.025	2189.385
10.5	2168.792	2171.935	2175.830	2178.911	2181.668	2184.237	2186.639
11.0	2164.353	2168.228	2171.862	2175.235	2178.222	2180.791	2183.819
11.5	2159.853	2163.904	2167.841	2171.705	2174.734	2177.303	2179.872

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CANDELA TABULATION - (Cont.)

12.0	2155.028	2159.435	2163.372	2167.674	2171.434	2174.024	2176.373
12.5	2150.109	2154.433	2159.153	2163.675	2167.424	2170.296	2172.645
13.0	2144.909	2149.190	2154.641	2159.487	2163.434	2166.285	2168.677
13.5	2139.687	2143.770	2149.472	2155.028	2159.226	2162.087	2164.949
14.0	2133.912	2138.486	2144.679	2150.328	2154.485	2158.077	2160.751
14.5	2127.928	2133.024	2139.196	2145.117	2149.733	2154.036	2156.250
15.0	2122.153	2127.406	2133.818	2140.147	2144.428	2148.543	2151.488
15.5	2115.679	2121.631	2128.492	2134.873	2139.489	2143.833	2146.559
16.0	2109.820	2115.438	2122.258	2129.161	2133.975	2138.601	2141.086
16.5	2103.116	2109.413	2116.013	2123.459	2128.680	2134.058	2136.095
17.0	2096.401	2102.479	2109.674	2117.684	2122.717	2128.085	2130.455
17.5	2088.882	2095.941	2103.157	2111.366	2116.660	2122.174	2124.357
18.0	2081.614	2089.101	2097.163	2104.881	2110.582	2115.971	2118.362
18.5	2074.356	2081.384	2089.623	2097.894	2104.515	2109.904	2113.392
19.0	2066.565	2073.907	2082.553	2090.824	2098.009	2103.387	2107.314
19.5	2057.856	2066.670	2074.815	2083.650	2091.054	2097.038	2100.745
20.0	2049.909	2059.360	2067.902	2076.883	2084.036	2090.344	2094.469
20.5	2041.899	2050.661	2060.634	2069.625	2076.517	2083.337	2087.744
21.0	2033.346	2042.097	2051.966	2061.469	2069.239	2075.536	2080.454
21.5	2024.616	2034.025	2043.528	2053.407	2061.657	2068.215	2072.935
22.0	2015.781	2025.012	2035.570	2044.948	2053.804	2060.435	2065.208
22.5	2007.040	2016.272	2026.976	2036.865	2045.627	2052.561	2057.522
23.0	1997.798	2007.531	2018.047	2028.354	2037.377	2044.405	2049.115
23.5	1987.825	1998.466	2009.066	2019.133	2028.636	2035.946	2040.593
24.0	1978.071	1988.640	1999.939	2010.403	2019.687	2027.749	2032.062
24.5	1967.670	1978.301	1989.559	2001.255	2011.405	2018.193	2023.248
25.0	1957.331	1968.213	1979.596	1991.658	2001.672	2009.379	2014.068
25.5	1946.899	1958.240	1969.947	1981.141	1991.950	1999.991	2005.411
26.0	1936.111	1947.045	1959.618	1971.106	1982.196	1990.206	1995.751
26.5	1925.219	1936.456	1948.559	1961.279	1971.868	1980.348	1985.789
27.0	1913.335	1925.052	1937.156	1950.366	1961.216	1969.706	1975.513
27.5	1902.088	1913.795	1925.700	1939.683	1950.763	1959.472	1965.289
28.0	1890.319	1902.161	1914.463	1928.195	1939.672	1948.737	1954.324
28.5	1877.954	1889.765	1902.788	1916.520	1927.840	1937.260	1942.972
29.0	1865.151	1877.850	1890.152	1904.438	1916.207	1925.616	1931.746
29.5	1852.818	1865.684	1878.006	1892.522	1904.302	1914.191	1919.747
30.0	1840.161	1852.901	1866.133	1880.335	1892.940	1902.307	1907.706
30.5	1826.689	1839.378	1853.152	1867.563	1879.719	1889.347	1895.352
31.0	1813.281	1826.460	1839.931	1854.071	1866.822	1876.555	1882.727
31.5	1799.454	1812.957	1826.679	1841.195	1853.758	1863.762	1870.111
32.0	1785.064	1798.796	1812.884	1827.870	1840.265	1850.291	1857.058
32.5	1770.558	1784.416	1798.744	1814.429	1826.428	1836.652	1843.691
33.0	1755.531	1770.141	1784.782	1799.559	1812.320	1823.390	1829.436
33.5	1740.817	1755.823	1770.934	1785.168	1798.253	1808.832	1815.066
34.0	1725.142	1740.263	1755.635	1770.663	1783.278	1794.024	1801.156
34.5	1708.924	1724.181	1740.378	1755.458	1768.156	1778.986	1786.223
35.0	1692.716	1709.383	1724.400	1739.407	1753.213	1764.261	1771.822
35.5	1676.718	1693.197	1708.924	1723.701	1737.277	1749.464	1756.701
36.0	1659.904	1676.122	1692.977	1708.214	1721.842	1734.457	1740.921
36.5	1642.454	1659.320	1676.415	1691.641	1705.624	1717.769	1725.257
37.0	1625.140	1642.726	1659.685	1674.692	1689.489	1701.614	1709.080
37.5	1607.564	1625.286	1642.391	1657.952	1672.728	1684.800	1692.299
38.0	1588.913	1607.324	1625.223	1640.783	1655.675	1669.115	1675.997
38.5	1570.658	1589.759	1606.990	1623.364	1638.747	1651.456	1658.912
39.0	1551.694	1572.016	1589.613	1605.517	1621.286	1633.745	1641.222
39.5	1532.729	1555.474	1571.713	1588.130	1604.024	1615.950	1623.176

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40.0	1513.775	1536.144	1553.114	1570.168	1585.561	1599.408	1606.238
40.5	1494.811	1516.814	1534.505	1551.443	1568.006	1580.851	1587.910
41.0	1475.700	1497.484	1515.895	1532.719	1549.000	1562.419	1569.102
41.5	1454.386	1478.144	1497.286	1513.995	1529.993	1543.465	1550.838
42.0	1433.093	1456.684	1478.656	1495.281	1510.987	1524.521	1531.790
42.5	1412.207	1436.946	1457.717	1476.536	1491.981	1505.567	1512.407
43.0	1391.237	1416.123	1438.408	1456.798	1472.975	1486.624	1493.432
43.5	1369.411	1394.851	1416.948	1436.654	1453.467	1467.586	1472.442
44.0	1346.896	1374.121	1396.198	1415.705	1433.270	1446.888	1452.694
44.5	1325.112	1353.026	1375.479	1394.892	1412.165	1426.545	1432.038
45.0	1302.722	1330.950	1354.749	1374.205	1391.446	1406.265	1411.914
45.5	1280.072	1309.427	1333.279	1353.590	1370.727	1385.441	1389.796
46.0	1257.598	1288.384	1311.985	1332.370	1349.862	1364.493	1369.652
46.5	1235.657	1266.892	1290.640	1310.628	1329.321	1342.813	1347.836
47.0	1211.054	1244.221	1269.639	1289.042	1306.336	1321.645	1325.885
47.5	1187.024	1221.507	1246.936	1267.436	1284.907	1299.464	1304.049
48.0	1163.058	1200.360	1225.632	1245.610	1263.321	1277.576	1282.348
48.5	1139.697	1178.033	1204.255	1223.617	1242.059	1255.562	1259.791
49.0	1114.738	1154.609	1182.576	1202.135	1219.293	1233.172	1238.028
49.5	1090.093	1131.781	1160.019	1180.351	1197.165	1210.803	1214.176
50.0	1065.886	1109.913	1138.350	1158.452	1174.796	1188.539	1191.682
50.5	1041.627	1088.975	1116.566	1136.574	1153.408	1165.783	1168.739
51.0	1017.044	1062.795	1094.322	1115.323	1130.068	1142.663	1146.286
51.5	992.544	1039.747	1072.287	1092.494	1108.430	1120.127	1121.714
52.0	968.902	1015.759	1049.887	1071.191	1086.270	1097.643	1100.003
52.5	945.102	991.834	1028.186	1049.438	1063.713	1075.149	1077.331
53.0	921.616	967.899	1005.682	1028.333	1041.146	1052.383	1053.281
53.5	898.202	945.133	984.044	1005.337	1019.560	1029.795	1030.014
54.0	875.531	921.511	961.236	984.180	997.891	1007.311	1007.739
54.5	852.535	897.764	938.189	961.999	975.752	984.827	984.952
55.0	830.657	874.580	915.600	940.361	953.999	962.657	962.719
55.5	809.155	852.410	893.952	918.827	932.664	941.060	939.682
56.0	789.125	829.916	871.594	897.482	911.246	919.360	917.209
56.5	767.926	807.087	848.891	875.468	889.295	896.939	895.341
57.0	747.353	785.376	825.853	853.976	868.377	875.719	873.975
57.5	729.078	765.085	805.093	832.631	847.230	854.927	852.650
58.0	709.591	748.063	782.765	811.525	826.219	833.435	831.075
58.5	688.497	726.446	761.681	790.963	805.813	812.914	810.345
59.0	669.772	703.451	740.920	769.889	785.888	792.592	790.232
59.5	651.549	683.014	724.713	749.306	765.764	772.886	769.921
60.0	633.692	663.632	702.793	729.088	745.682	752.564	750.079
60.5	616.158	644.333	679.453	709.205	725.893	733.203	731.668
61.0	599.480	626.037	658.922	691.045	706.751	714.353	713.393
61.5	583.513	608.639	640.281	670.399	687.933	695.754	695.117
62.0	567.086	591.648	621.891	651.382	669.772	677.427	676.832
62.5	551.014	573.603	603.344	632.720	651.581	659.935	658.556
63.0	536.018	558.993	585.424	614.529	633.817	642.025	640.281
63.5	521.513	543.370	571.055	597.204	616.544	625.003	623.176
64.0	506.642	528.552	557.844	579.680	599.637	608.388	606.352
64.5	492.241	510.036	535.559	564.538	583.148	591.773	590.552
65.0	478.749	495.959	519.644	551.892	567.191	576.067	574.845
65.5	465.664	481.443	504.157	531.946	551.443	560.653	559.296
66.0	452.213	467.669	489.150	515.978	536.238	545.762	544.279
66.5	439.577	453.341	474.979	500.992	521.617	531.037	529.920
67.0	427.150	440.799	464.275	486.665	507.394	516.741	515.884
67.5	414.973	427.756	448.015	475.010	493.599	503.196	501.932

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68.0	403.173	415.558	434.471	463.022	480.263	489.745	488.628
68.5	392.385	402.964	422.022	446.532	467.042	476.838	475.961
69.0	381.034	391.769	410.076	433.886	454.490	464.003	463.366
69.5	370.100	379.885	398.306	421.772	442.292	451.785	450.960
70.0	359.438	368.680	388.814	414.608	430.137	439.692	439.222
70.5	349.987	358.278	375.603	400.468	418.493	428.079	427.766
71.0	340.296	348.389	365.150	387.540	407.507	416.989	416.864
71.5	330.719	338.186	354.968	377.107	396.354	406.024	406.097
72.0	321.582	328.474	344.838	371.259	385.556	395.132	395.288
72.5	313.196	319.368	335.116	356.346	375.102	384.689	384.898
73.0	304.351	310.491	325.654	346.008	364.596	374.382	374.831
73.5	295.934	301.385	316.287	337.058	354.362	364.252	365.045
74.0	287.569	292.947	307.254	327.534	347.668	354.185	355.240
74.5	279.695	284.875	298.586	317.321	334.134	344.452	345.569
75.0	271.309	276.646	289.887	308.852	326.062	334.761	335.826
75.5	263.143	268.145	281.105	298.503	314.627	325.101	326.312
76.0	254.736	260.156	272.521	289.167	305.061	315.504	316.976
76.5	246.643	252.251	264.020	280.092	296.153	305.813	307.515
77.0	237.808	244.053	255.498	270.474	285.741	296.143	297.594
77.5	228.984	235.740	246.883	261.357	275.988	286.504	287.966
78.0	220.024	227.469	238.341	252.021	270.975	276.802	278.275
78.5	211.335	219.136	229.777	242.549	256.626	268.208	268.364
79.0	202.187	210.124	220.901	233.192	247.478	260.511	257.900
79.5	192.966	201.028	211.847	223.961	245.484	247.708	247.812
80.0	183.421	192.015	203.022	214.269	233.714	236.659	237.578
80.5	173.886	182.303	193.843	204.714	222.143	226.415	226.989
81.0	164.352	172.602	183.692	195.086	212.964	217.622	216.191
81.5	154.817	162.890	173.542	184.987	201.654	207.962	205.476
82.0	145.262	153.188	163.391	174.899	187.964	195.315	194.156
82.5	135.206	143.476	153.241	164.811	177.364	184.215	182.638
83.0	124.752	132.835	143.059	154.713	166.775	173.124	171.161
83.5	114.340	122.183	132.167	144.636	156.175	162.034	159.569
84.0	103.824	111.636	121.379	134.767	145.565	150.933	147.674
84.5	93.183	100.441	109.850	122.883	134.600	139.842	135.174
85.0	82.145	88.797	98.446	110.821	124.836	129.525	122.705
85.5	71.451	77.612	86.677	99.052	113.735	115.938	110.309
86.0	61.133	66.522	74.949	86.813	100.921	103.887	97.840
86.5	50.857	55.713	62.971	74.521	86.771	90.938	85.800
87.0	41.041	45.678	52.069	61.969	74.041	78.500	73.174
87.5	33.157	37.073	41.250	49.824	60.246	66.188	60.037
88.0	25.283	28.468	33.198	40.153	46.377	51.943	46.858
88.5	17.398	19.852	25.157	30.473	37.355	41.814	33.689
89.0	9.524	11.247	17.106	20.792	28.342	31.695	20.510
89.5	1.890	3.018	9.054	11.122	19.320	21.565	7.331
90.0	0.522	0.815	1.180	1.650	10.307	11.435	5.399
90.5	0.533	0.846	1.149	1.326	1.389	1.535	3.979
91.0	0.553	0.867	1.159	1.358	1.483	1.629	2.559
91.5	0.606	0.898	1.180	1.337	1.462	1.598	1.138
92.0	0.627	0.940	1.201	1.326	1.462	1.556	1.065
92.5	0.637	0.929	1.201	1.389	1.504	1.681	1.138
93.0	0.627	0.898	1.274	1.389	1.546	1.640	1.138
93.5	0.616	0.898	1.191	1.452	1.587	1.692	1.191
94.0	0.627	0.898	1.222	1.514	1.598	1.702	1.191
94.5	0.616	0.929	1.253	1.493	1.640	1.692	1.191
95.0	0.616	0.940	1.305	1.483	1.681	1.681	1.211
95.5	0.627	0.961	1.305	1.483	1.713	1.671	1.211

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96.0	0.637	0.982	1.295	1.525	1.754	1.671	1.232
96.5	0.658	0.982	1.274	1.556	1.765	1.702	1.264
97.0	0.658	0.982	1.253	1.587	1.765	1.713	1.274
97.5	0.658	0.971	1.264	1.629	1.744	1.692	1.264
98.0	0.658	0.961	1.264	1.608	1.744	1.692	1.243
98.5	0.647	0.950	1.284	1.598	1.754	1.681	1.222
99.0	0.647	0.950	1.337	1.587	1.765	1.713	1.201
99.5	0.647	0.961	1.368	1.577	1.775	1.723	1.191
100.0	0.647	0.982	1.358	1.577	1.775	1.692	1.180
100.5	0.658	1.013	1.337	1.577	1.786	1.692	1.180
101.0	0.679	1.003	1.326	1.577	1.765	1.713	1.180
101.5	0.700	1.013	1.305	1.566	1.754	1.734	1.191
102.0	0.710	1.013	1.295	1.535	1.744	1.744	1.191
102.5	0.721	1.003	1.284	1.493	1.754	1.754	1.201
103.0	0.721	0.992	1.284	1.472	1.765	1.765	1.211
103.5	0.731	0.992	1.295	1.462	1.796	1.723	1.222
104.0	0.731	1.003	1.295	1.462	1.796	1.692	1.253
104.5	0.731	0.992	1.295	1.472	1.807	1.671	1.264
105.0	0.731	0.992	1.305	1.483	1.775	1.650	1.274
105.5	0.731	0.992	1.305	1.472	1.754	1.650	1.274
106.0	0.731	0.992	1.274	1.452	1.744	1.660	1.274
106.5	0.731	0.992	1.243	1.420	1.734	1.660	1.274
107.0	0.731	0.992	1.211	1.378	1.692	1.629	1.264
107.5	0.741	0.982	1.191	1.347	1.660	1.587	1.253
108.0	0.741	0.971	1.180	1.326	1.619	1.556	1.232
108.5	0.731	0.961	1.180	1.305	1.587	1.514	1.201
109.0	0.731	0.950	1.191	1.284	1.546	1.472	1.170
109.5	0.721	0.929	1.170	1.253	1.504	1.431	1.159
110.0	0.721	0.929	1.149	1.232	1.483	1.410	1.159
110.5	0.721	0.919	1.128	1.211	1.441	1.378	1.159
111.0	0.710	0.919	1.107	1.191	1.420	1.347	1.149
111.5	0.700	0.909	1.086	1.170	1.399	1.316	1.138
112.0	0.700	0.909	1.065	1.159	1.368	1.295	1.128
112.5	0.689	0.898	1.055	1.138	1.347	1.264	1.117
113.0	0.689	0.888	1.034	1.128	1.337	1.253	1.097
113.5	0.689	0.888	1.023	1.117	1.316	1.232	1.107
114.0	0.679	0.867	1.013	1.097	1.284	1.211	1.117
114.5	0.679	0.856	0.992	1.076	1.253	1.211	1.117
115.0	0.668	0.846	0.982	1.076	1.232	1.201	1.128
115.5	0.658	0.846	0.961	1.055	1.201	1.180	1.128
116.0	0.647	0.835	0.950	1.044	1.180	1.159	1.128
116.5	0.647	0.825	0.940	1.023	1.180	1.159	1.138
117.0	0.637	0.815	0.929	1.023	1.159	1.159	1.138
117.5	0.627	0.804	0.919	1.013	1.138	1.149	1.138
118.0	0.616	0.794	0.909	1.003	1.117	1.149	1.128
118.5	0.616	0.783	0.909	1.013	1.107	1.128	1.138
119.0	0.606	0.773	0.898	1.023	1.097	1.117	1.128
119.5	0.595	0.762	0.898	1.013	1.076	1.128	1.117
120.0	0.595	0.762	0.888	1.003	1.076	1.117	1.128
120.5	0.574	0.752	0.888	0.992	1.055	1.117	1.128
121.0	0.574	0.752	0.888	0.992	1.055	1.128	1.107
121.5	0.574	0.752	0.877	0.992	1.055	1.128	1.128
122.0	0.574	0.752	0.877	0.992	1.055	1.117	1.117
122.5	0.574	0.741	0.867	0.992	1.044	1.128	1.117
123.0	0.574	0.741	0.867	0.982	1.044	1.117	1.107
123.5	0.574	0.731	0.867	0.982	1.055	1.117	1.097

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124.0	0.574	0.731	0.877	0.982	1.055	1.117	1.097
124.5	0.574	0.731	0.877	0.992	1.055	1.117	1.117
125.0	0.585	0.721	0.877	0.992	1.055	1.117	1.107
125.5	0.585	0.721	0.877	0.982	1.044	1.107	1.107
126.0	0.585	0.721	0.877	0.992	1.034	1.107	1.107
126.5	0.585	0.721	0.867	0.971	1.023	1.107	1.097
127.0	0.585	0.721	0.867	0.971	1.023	1.086	1.097
127.5	0.595	0.721	0.877	0.961	1.013	1.076	1.117
128.0	0.595	0.731	0.867	0.940	1.013	1.076	1.097
128.5	0.606	0.731	0.867	0.940	1.013	1.076	1.086
129.0	0.606	0.731	0.856	0.929	1.003	1.055	1.117
129.5	0.616	0.731	0.856	0.929	1.003	1.065	1.117
130.0	0.616	0.731	0.856	0.919	1.003	1.065	1.097
130.5	0.616	0.731	0.856	0.940	0.992	1.055	1.086
131.0	0.627	0.731	0.856	0.929	0.992	1.055	1.107
131.5	0.647	0.741	0.856	0.929	0.982	1.055	1.107
132.0	0.647	0.752	0.867	0.929	0.982	1.034	1.097
132.5	0.658	0.762	0.877	0.950	0.982	1.055	1.097
133.0	0.668	0.762	0.877	0.940	0.982	1.055	1.107
133.5	0.679	0.773	0.877	0.940	0.992	1.055	1.097
134.0	0.689	0.773	0.867	0.950	1.003	1.034	1.076
134.5	0.700	0.773	0.856	0.940	1.003	1.055	1.086
135.0	0.721	0.773	0.856	0.950	0.992	1.055	1.086
135.5	0.741	0.773	0.846	0.950	0.992	1.065	1.086
136.0	0.752	0.773	0.846	0.950	0.982	1.055	1.086
136.5	0.762	0.773	0.835	0.940	0.992	1.065	1.086
137.0	0.773	0.783	0.846	0.940	0.982	1.055	1.086
137.5	0.783	0.762	0.846	0.950	0.971	1.044	1.086
138.0	0.794	0.752	0.856	0.950	0.971	1.044	1.086
138.5	0.794	0.741	0.867	0.940	0.961	1.013	1.086
139.0	0.794	0.741	0.867	0.940	0.971	1.023	1.086
139.5	0.804	0.741	0.867	0.929	0.961	1.023	1.076
140.0	0.804	0.741	0.867	0.919	0.950	1.023	1.076
140.5	0.815	0.741	0.867	0.909	0.950	1.013	1.086
141.0	0.815	0.762	0.856	0.919	0.940	0.992	1.086
141.5	0.815	0.773	0.835	0.929	0.929	0.971	1.086
142.0	0.794	0.762	0.825	0.940	0.919	0.961	1.086
142.5	0.794	0.773	0.815	0.940	0.898	0.961	1.076
143.0	0.794	0.783	0.804	0.940	0.909	0.961	1.076
143.5	0.794	0.794	0.794	0.940	0.919	0.950	1.076
144.0	0.794	0.804	0.794	0.929	0.909	0.929	1.076
144.5	0.794	0.835	0.804	0.929	0.919	0.929	1.076
145.0	0.804	0.846	0.804	0.909	0.929	0.929	1.076
145.5	0.804	0.856	0.804	0.877	0.929	0.929	1.065
146.0	0.815	0.867	0.815	0.867	0.929	0.929	1.076
146.5	0.825	0.867	0.835	0.856	0.929	0.929	1.086
147.0	0.825	0.877	0.835	0.835	0.929	0.919	1.086
147.5	0.835	0.888	0.825	0.835	0.888	0.909	1.076
148.0	0.835	0.898	0.835	0.835	0.867	0.909	1.065
148.5	0.846	0.919	0.835	0.846	0.867	0.877	1.034
149.0	0.846	0.909	0.846	0.835	0.856	0.835	0.992
149.5	0.825	0.888	0.867	0.835	0.846	0.825	0.982
150.0	0.825	0.877	0.888	0.856	0.846	0.804	0.971
150.5	0.825	0.877	0.898	0.856	0.856	0.794	0.950
151.0	0.825	0.888	0.919	0.867	0.867	0.794	0.940
151.5	0.825	0.888	0.919	0.877	0.877	0.804	0.950

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CANDELA TABULATION - (Cont.)

152.0	0.825	0.888	0.929	0.888	0.929	0.815	0.961
152.5	0.825	0.898	0.929	0.909	0.919	0.815	0.971
153.0	0.835	0.898	0.950	0.929	0.929	0.856	1.003
153.5	0.835	0.898	0.961	0.940	0.929	0.877	1.023
154.0	0.846	0.898	0.950	0.940	0.940	0.888	1.023
154.5	0.856	0.898	0.950	0.950	0.950	0.898	1.034
155.0	0.856	0.898	0.950	0.961	0.971	0.898	1.044
155.5	0.856	0.898	0.971	0.971	0.982	0.909	1.055
156.0	0.856	0.898	0.971	0.982	0.992	0.929	1.076
156.5	0.856	0.898	0.961	1.003	0.992	0.940	1.076
157.0	0.856	0.898	0.950	1.013	0.992	0.961	1.086
157.5	0.856	0.898	0.950	1.013	1.003	0.971	1.097
158.0	0.867	0.909	0.950	1.023	1.013	0.982	1.097
158.5	0.877	0.898	0.961	1.023	1.003	0.982	1.097
159.0	0.888	0.898	0.950	1.013	1.003	0.982	1.107
159.5	0.888	0.898	0.950	1.023	1.013	0.992	1.107
160.0	0.898	0.898	0.940	1.023	1.013	0.992	1.107
160.5	0.898	0.898	0.940	1.023	1.003	0.992	1.107
161.0	0.898	0.898	0.940	1.023	1.003	0.992	1.107
161.5	0.898	0.898	0.950	1.013	1.003	0.992	1.107
162.0	0.888	0.898	0.961	1.013	0.992	0.982	1.107
162.5	0.888	0.898	0.971	1.013	0.971	0.982	1.107
163.0	0.888	0.898	0.971	1.003	0.971	0.982	1.117
163.5	0.898	0.909	0.961	1.003	0.971	0.982	1.117
164.0	0.909	0.919	0.971	0.992	0.971	0.982	1.107
164.5	0.898	0.929	0.982	0.982	0.971	0.982	1.107
165.0	0.909	0.940	0.982	0.982	0.982	0.982	1.107
165.5	0.909	0.940	0.982	0.982	0.971	0.982	1.117
166.0	0.919	0.950	1.003	1.003	0.971	0.992	1.128
166.5	0.940	0.971	1.013	1.003	0.982	1.003	1.138
167.0	0.950	0.982	1.023	1.013	0.992	1.003	1.138
167.5	0.950	1.003	1.003	1.023	1.013	1.003	1.138
168.0	0.961	1.013	1.013	1.044	1.023	1.023	1.159
168.5	0.971	1.013	1.044	1.044	1.044	1.034	1.170
169.0	0.982	1.023	1.044	1.044	1.044	1.044	1.180
169.5	0.992	1.013	1.023	1.044	1.055	1.044	1.180
170.0	1.003	1.003	1.023	1.055	1.055	1.055	1.180
170.5	1.003	0.992	1.023	1.065	1.076	1.065	1.170
171.0	1.013	0.992	1.034	1.086	1.086	1.086	1.170
171.5	1.023	0.992	1.034	1.097	1.086	1.107	1.180
172.0	1.013	0.992	1.034	1.097	1.097	1.117	1.191
172.5	1.003	0.992	1.044	1.107	1.097	1.117	1.201
173.0	1.003	0.982	1.055	1.107	1.097	1.128	1.211
173.5	1.023	0.992	1.065	1.107	1.107	1.128	1.222
174.0	1.044	1.013	1.076	1.117	1.107	1.128	1.232
174.5	1.065	1.044	1.086	1.117	1.117	1.138	1.243
175.0	1.086	1.044	1.097	1.128	1.128	1.138	1.243
175.5	1.086	1.044	1.107	1.138	1.138	1.138	1.243
176.0	1.097	1.044	1.117	1.149	1.138	1.149	1.232
176.5	1.097	1.055	1.128	1.149	1.149	1.149	1.232
177.0	1.107	1.065	1.149	1.149	1.138	1.149	1.232
177.5	1.107	1.076	1.149	1.138	1.128	1.138	1.222
178.0	1.107	1.086	1.149	1.138	1.128	1.128	1.211
178.5	1.117	1.086	1.149	1.128	1.117	1.128	1.201
179.0	1.117	1.097	1.138	1.128	1.117	1.128	1.191
179.5	1.107	1.097	1.138	1.128	1.117	1.128	1.191

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CANDELA TABULATION - (Cont.)

180.0	1.191	1.191	1.191	1.191	1.191	1.191	1.191
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	811.26	N.A.	14.60
0-30	1722.05	N.A.	30.90
0-40	2798.48	N.A.	50.20
0-60	4626.2	N.A.	83.00
0-80	5451.05	N.A.	97.80
0-90	5565.25	N.A.	99.90
10-90	5355.59	N.A.	96.10
20-40	1987.22	N.A.	35.70
20-50	3021.54	N.A.	54.20
40-70	2341.04	N.A.	42.00
60-80	824.85	N.A.	14.80
70-80	311.52	N.A.	5.60
80-90	114.20	N.A.	2.00
90-110	2.31	N.A.	0.00
90-120	3.13	N.A.	0.10
90-130	3.85	N.A.	0.10
90-150	5.07	N.A.	0.10
90-180	5.89	N.A.	0.10
110-180	3.58	N.A.	0.10
0-180	5571.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	209.66
10-20	601.60
20-30	910.79
30-40	1076.44
40-50	1034.32
50-60	793.39
60-70	513.32
70-80	311.53
80-90	114.20
90-100	1.30
100-110	1.01
110-120	0.82
120-130	0.72
130-140	0.66
140-150	0.55
150-160	0.43
160-170	0.28
170-180	0.11

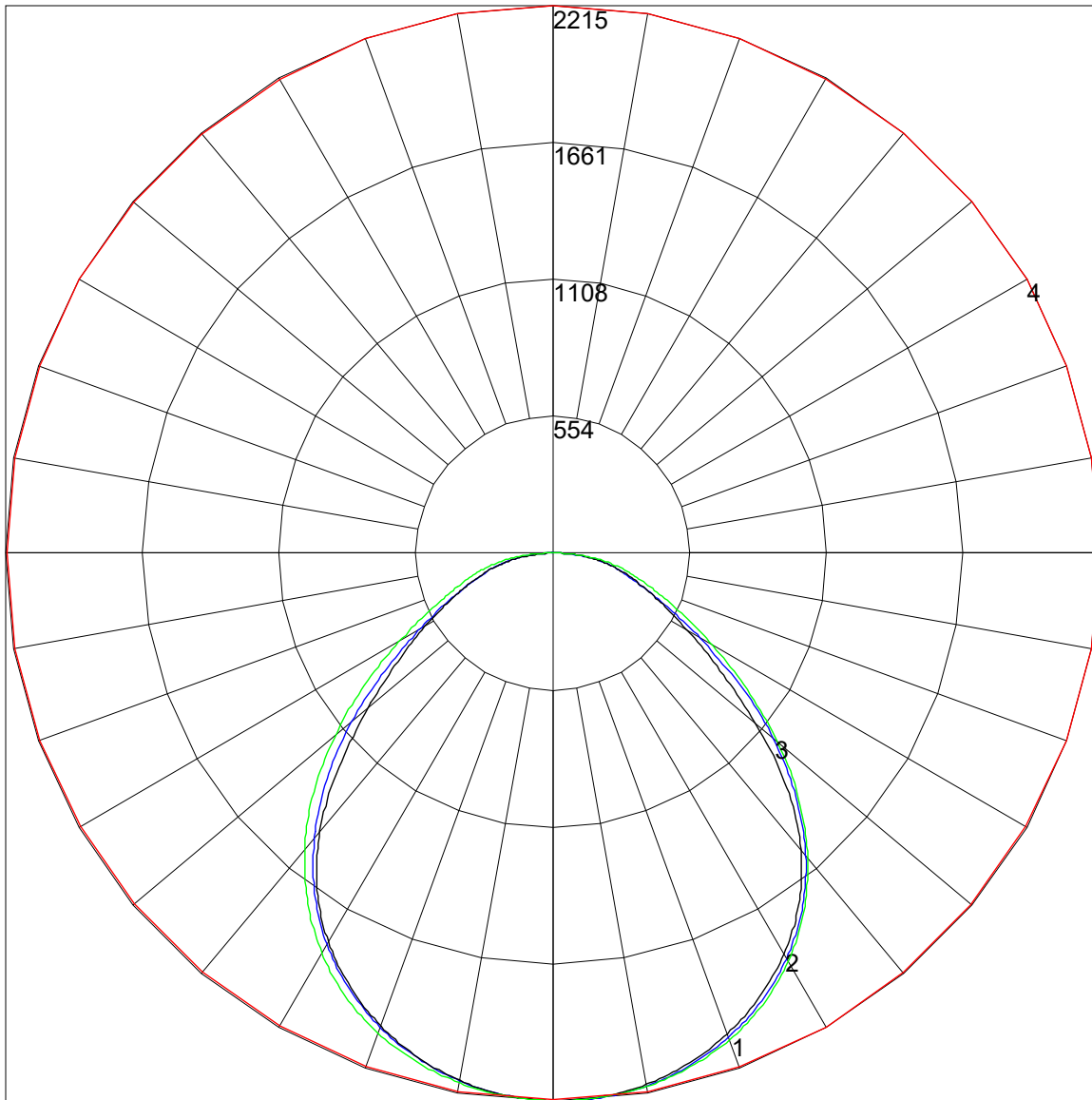
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 2215.284 Located At Horizontal Angle = 50, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)