



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S-LED8-90PS-8CSA_54W_4K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] KT-MSLED90PS-8-8CSA-VDIM 4000K

[TESTLAB]

[TESTDATE] 2022-07-08

[ISSUEDATE] 2022-07-19

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] Lamar LED

[LUMCAT] S-LED8-90PS-8CSA_54W_4K

[LUMINAIRE]

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] Note: This file was prorated from measured data using a lumen factor of 1.235 to simulate the

[MORE] lumen output of an 8', 54W, 4000K luminaire.

[ISSUEDATE] Tuesday, July 19, 2022 4:22:40 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7728
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	7.85 ft
Luminous Height	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10995	16827	158837
55	7254	12112	163841
65	4365	8606	177740
75	2066	5905	218291
85	374	3737	402874

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91
0.5	2281.79	2280.67	2281.66	2282.65	2281.54	2281.29	2281.79	2280.55	2282.90	2281.91
1.0	2283.39	2278.95	2281.42	2284.01	2279.81	2280.30	2280.92	2279.44	2283.76	2281.42
1.5	2283.76	2278.08	2281.91	2283.89	2279.32	2280.18	2278.82	2278.08	2283.27	2281.17
2.0	2283.64	2277.96	2283.52	2283.89	2279.44	2281.42	2279.07	2276.85	2280.55	2280.06
2.5	2283.64	2277.83	2281.91	2281.66	2278.95	2281.54	2279.07	2275.61	2279.07	2279.07
3.0	2281.66	2277.34	2280.67	2280.18	2275.86	2281.42	2276.23	2274.99	2278.20	2277.59
3.5	2279.44	2274.50	2279.44	2278.33	2276.10	2276.97	2274.75	2271.54	2276.85	2276.48
4.0	2276.10	2271.91	2278.20	2278.82	2276.10	2275.86	2271.41	2268.94	2276.48	2273.88
4.5	2273.14	2269.44	2276.97	2279.19	2275.12	2274.99	2270.42	2265.85	2273.64	2271.29
5.0	2271.17	2267.46	2275.73	2278.45	2273.51	2274.62	2269.19	2265.11	2269.07	2268.94
5.5	2269.81	2266.10	2272.77	2273.76	2271.78	2271.04	2268.82	2264.13	2264.50	2264.37
6.0	2266.84	2263.01	2272.28	2270.18	2270.05	2268.82	2266.60	2261.66	2260.79	2260.79
6.5	2263.63	2258.57	2268.82	2268.94	2268.32	2265.73	2262.40	2257.83	2257.46	2257.95
7.0	2261.78	2254.74	2264.00	2265.73	2266.47	2263.14	2258.69	2255.11	2255.85	2256.22
7.5	2258.94	2252.39	2260.67	2262.64	2264.74	2261.28	2254.99	2251.28	2252.39	2253.63
8.0	2254.99	2249.06	2258.57	2260.67	2261.28	2258.57	2250.91	2246.22	2247.70	2250.17
8.5	2250.66	2245.11	2254.00	2257.95	2257.33	2256.10	2248.69	2242.39	2243.62	2246.71
9.0	2245.11	2241.40	2249.92	2254.86	2253.88	2253.13	2243.87	2238.19	2239.55	2242.02
9.5	2239.30	2236.46	2246.34	2249.80	2250.66	2249.31	2239.05	2233.37	2234.86	2237.33
10.0	2233.62	2230.29	2242.51	2245.35	2247.95	2245.60	2234.36	2227.45	2230.04	2232.63
10.5	2228.93	2224.36	2236.71	2241.65	2245.35	2241.77	2229.67	2220.78	2223.37	2230.16
11.0	2223.99	2219.91	2230.78	2238.93	2240.78	2237.08	2223.37	2214.35	2215.84	2224.98
11.5	2219.42	2215.22	2227.69	2235.72	2236.71	2234.36	2220.28	2207.93	2208.06	2220.04
12.0	2213.98	2209.04	2224.73	2233.25	2231.77	2230.66	2217.81	2201.88	2201.26	2212.63
12.5	2207.19	2204.23	2220.28	2228.56	2229.55	2226.83	2213.00	2196.20	2192.87	2204.97
13.0	2200.03	2198.30	2214.48	2222.51	2225.84	2219.91	2205.59	2189.41	2185.33	2199.91
13.5	2191.63	2191.88	2207.93	2217.07	2222.14	2215.34	2197.06	2182.25	2178.29	2194.47
14.0	2184.96	2187.06	2202.38	2214.73	2217.81	2208.67	2189.78	2174.09	2170.39	2188.05
14.5	2177.06	2179.78	2196.69	2210.40	2210.65	2205.96	2184.96	2166.93	2163.35	2182.37
15.0	2169.28	2172.86	2190.77	2205.59	2205.09	2201.39	2178.42	2160.51	2156.80	2174.71
15.5	2162.36	2165.08	2184.84	2198.18	2200.15	2195.09	2172.61	2153.22	2150.01	2166.56
16.0	2154.21	2157.79	2179.65	2192.25	2195.71	2188.42	2166.44	2144.21	2141.24	2157.17
16.5	2146.18	2150.63	2172.24	2185.95	2191.01	2183.11	2159.89	2134.94	2132.23	2149.15
17.0	2137.54	2144.33	2166.81	2181.26	2184.59	2175.82	2152.48	2125.68	2122.72	2141.86
17.5	2128.15	2136.80	2158.78	2176.19	2178.42	2171.01	2145.44	2116.30	2113.83	2133.46
18.0	2118.40	2128.52	2153.22	2169.03	2172.12	2165.33	2138.53	2108.64	2104.07	2126.05
18.5	2109.26	2121.48	2143.84	2163.10	2165.70	2159.40	2131.73	2099.87	2095.18	2118.15
19.0	2101.23	2113.46	2135.56	2155.57	2160.51	2150.01	2124.08	2090.48	2085.67	2110.00
19.5	2092.71	2103.70	2127.29	2149.64	2155.32	2142.35	2115.18	2081.35	2076.53	2100.86
20.0	2083.20	2094.07	2120.12	2142.73	2147.91	2136.67	2106.42	2071.84	2066.90	2091.72
20.5	2073.81	2086.29	2111.73	2136.18	2139.64	2129.88	2098.64	2061.96	2057.51	2082.83
21.0	2064.43	2076.28	2102.59	2128.89	2134.57	2122.35	2089.37	2051.95	2046.64	2073.07
21.5	2053.31	2066.90	2095.42	2119.75	2128.15	2114.20	2080.23	2041.21	2034.66	2061.59
22.0	2040.71	2056.77	2087.77	2111.97	2121.11	2107.77	2071.22	2030.71	2023.18	2050.96
22.5	2029.72	2047.14	2079.86	2105.06	2115.06	2099.75	2062.08	2019.84	2012.31	2041.46
23.0	2017.50	2037.87	2072.82	2095.42	2105.92	2093.57	2052.69	2009.22	2000.70	2031.95
23.5	2005.27	2027.13	2062.57	2088.39	2097.89	2084.19	2042.20	1998.23	1989.09	2022.31
24.0	1993.66	2017.25	2052.82	2079.86	2093.32	2075.66	2031.08	1986.50	1977.23	2009.84
24.5	1981.56	2006.50	2043.18	2070.23	2086.53	2066.28	2021.82	1975.26	1965.26	1998.11
25.0	1969.08	1995.88	2033.67	2060.23	2077.27	2057.02	2011.32	1963.03	1952.54	1988.72
25.5	1957.23	1984.77	2022.93	2057.02	2070.23	2047.88	2001.07	1950.44	1939.94	1979.09
26.0	1944.38	1973.41	2011.69	2049.11	2059.61	2038.98	1990.20	1938.09	1928.21	1969.21
26.5	1931.17	1961.67	2001.94	2040.34	2050.35	2032.81	1980.20	1926.72	1915.73	1955.13

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27.0	1918.45	1950.81	1992.30	2032.44	2041.46	2023.42	1969.95	1914.87	1902.52	1942.78
27.5	1905.85	1938.95	1982.79	2024.04	2030.09	2011.07	1959.57	1902.76	1888.69	1930.31
28.0	1892.88	1927.96	1972.54	2016.26	2022.31	2001.69	1949.20	1890.79	1875.84	1917.46
28.5	1878.44	1917.34	1959.33	2005.76	2013.54	1992.92	1937.47	1879.05	1864.23	1904.00
29.0	1864.73	1903.51	1946.73	1994.65	2007.62	1984.15	1925.36	1866.70	1851.39	1892.51
29.5	1851.39	1890.04	1936.97	1985.14	1997.24	1974.77	1912.77	1853.24	1837.31	1880.16
30.0	1837.56	1876.95	1925.49	1974.52	1988.97	1963.90	1900.54	1839.53	1823.23	1867.20
30.5	1824.09	1863.99	1915.24	1964.02	1979.71	1952.29	1888.56	1825.70	1808.04	1852.87
31.0	1810.02	1851.76	1903.26	1953.77	1970.32	1942.16	1877.32	1811.99	1793.84	1840.15
31.5	1795.57	1838.42	1892.27	1944.01	1962.17	1930.80	1865.34	1798.78	1779.26	1828.42
32.0	1781.49	1824.22	1878.68	1934.63	1948.83	1920.18	1853.61	1785.32	1764.82	1815.08
32.5	1767.29	1810.76	1866.58	1925.61	1938.33	1910.05	1842.13	1771.11	1749.13	1800.88
33.0	1753.58	1796.68	1855.34	1914.74	1928.82	1900.79	1829.41	1757.28	1733.32	1786.06
33.5	1738.39	1782.60	1842.74	1903.88	1919.44	1889.43	1816.44	1742.83	1717.64	1770.99
34.0	1722.58	1768.52	1831.13	1893.75	1910.92	1878.06	1803.47	1727.89	1703.44	1756.91
34.5	1706.89	1754.32	1818.29	1882.26	1897.70	1867.07	1790.13	1713.19	1689.48	1743.20
35.0	1690.84	1739.99	1805.45	1868.93	1886.71	1856.82	1777.04	1698.37	1675.03	1729.37
35.5	1675.77	1725.79	1793.10	1859.17	1877.45	1845.09	1764.57	1683.92	1659.59	1714.55
36.0	1660.58	1711.71	1780.62	1847.31	1865.34	1833.48	1751.11	1669.47	1643.54	1699.11
36.5	1646.26	1697.14	1766.54	1834.59	1856.08	1821.38	1737.52	1655.02	1627.48	1681.33
37.0	1630.94	1682.93	1752.09	1823.48	1845.58	1809.28	1725.05	1639.46	1612.05	1666.26
37.5	1615.38	1668.24	1738.14	1811.87	1834.84	1797.30	1711.71	1624.77	1596.36	1656.14
38.0	1598.58	1653.79	1725.42	1800.14	1823.97	1786.06	1698.13	1609.95	1581.66	1640.20
38.5	1582.41	1639.09	1713.07	1788.65	1812.98	1775.19	1684.29	1595.13	1564.99	1624.03
39.0	1566.35	1624.40	1698.87	1776.42	1800.88	1763.33	1670.46	1580.06	1549.80	1608.34
39.5	1550.05	1607.97	1684.05	1764.57	1789.52	1751.23	1656.51	1563.51	1534.49	1592.04
40.0	1533.38	1591.67	1668.61	1752.46	1778.65	1737.89	1642.06	1547.70	1517.82	1576.11
40.5	1517.32	1575.49	1654.65	1740.61	1767.78	1726.04	1628.10	1530.66	1500.90	1561.90
41.0	1500.90	1560.55	1641.19	1728.14	1756.66	1713.56	1614.39	1515.34	1484.35	1547.08
41.5	1485.09	1544.49	1627.73	1716.16	1744.31	1701.21	1600.81	1500.53	1468.42	1532.76
42.0	1468.17	1529.30	1614.64	1703.31	1732.71	1689.36	1586.60	1485.71	1452.36	1515.47
42.5	1451.13	1514.11	1600.44	1692.07	1720.23	1677.87	1572.65	1469.40	1435.56	1498.06
43.0	1434.82	1499.54	1586.73	1679.85	1708.01	1664.29	1558.20	1453.22	1418.64	1480.64
43.5	1418.40	1482.25	1573.27	1666.51	1695.16	1652.43	1543.75	1438.16	1402.34	1463.23
44.0	1399.50	1465.45	1559.93	1654.28	1683.68	1638.84	1529.92	1422.84	1385.18	1447.42
44.5	1383.82	1449.52	1545.60	1640.70	1672.44	1626.99	1515.34	1406.17	1367.52	1432.11
45.0	1365.66	1433.71	1531.28	1627.73	1660.09	1615.38	1500.53	1388.88	1350.10	1415.93
45.5	1348.62	1417.90	1516.70	1614.27	1647.61	1603.52	1484.84	1372.70	1332.44	1399.75
46.0	1331.33	1402.47	1502.38	1602.04	1635.02	1589.45	1470.02	1357.64	1315.28	1382.34
46.5	1314.53	1385.18	1487.19	1591.05	1622.54	1576.48	1454.95	1340.35	1298.48	1365.54
47.0	1297.61	1367.52	1473.11	1578.21	1609.58	1562.77	1440.26	1324.29	1281.81	1348.99
47.5	1280.32	1350.47	1459.52	1564.37	1597.10	1549.06	1425.68	1309.84	1265.13	1332.94
48.0	1262.91	1333.92	1445.44	1550.91	1584.51	1535.97	1410.00	1292.80	1248.09	1317.13
48.5	1245.13	1317.87	1429.76	1536.71	1571.78	1522.63	1394.69	1275.76	1232.09	1300.21
49.0	1227.70	1301.32	1414.45	1523.62	1559.56	1509.54	1379.99	1258.96	1214.80	1283.29
49.5	1211.46	1284.28	1399.75	1511.76	1546.96	1497.56	1364.92	1242.53	1196.83	1266.62
50.0	1194.06	1265.75	1384.81	1497.93	1533.99	1483.61	1349.85	1226.18	1179.15	1250.68
50.5	1176.12	1247.97	1369.00	1484.84	1522.14	1469.53	1335.04	1210.03	1161.91	1234.04
51.0	1158.10	1231.32	1353.81	1470.89	1510.41	1456.68	1320.59	1192.99	1144.77	1217.57
51.5	1140.76	1213.99	1338.74	1457.30	1497.68	1442.97	1304.90	1176.61	1127.51	1199.89
52.0	1122.80	1196.96	1323.55	1444.58	1485.46	1429.51	1290.82	1160.42	1110.02	1182.27
52.5	1105.34	1180.34	1309.22	1432.48	1472.24	1416.55	1277.11	1144.56	1093.70	1165.10
53.0	1087.64	1163.88	1294.65	1418.89	1458.78	1402.96	1262.05	1128.05	1076.65	1148.14
53.5	1070.65	1147.86	1279.83	1404.81	1444.83	1389.38	1246.98	1112.32	1059.70	1132.00
54.0	1052.97	1131.20	1265.13	1391.60	1432.11	1375.54	1232.84	1095.73	1043.08	1116.28
54.5	1035.62	1115.19	1250.19	1378.14	1419.02	1361.46	1217.66	1079.04	1025.56	1099.35

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CANDELA TABULATION - (Cont.)

55.0	1018.18	1098.98	1234.12	1364.18	1405.31	1347.39	1202.54	1061.77	1007.98	1082.49
55.5	1000.05	1081.82	1218.97	1350.97	1391.72	1333.31	1187.09	1045.97	989.68	1065.06
56.0	981.50	1065.15	1204.03	1337.63	1379.12	1320.34	1171.83	1028.38	971.60	1048.84
56.5	963.19	1048.29	1188.90	1324.04	1367.52	1307.25	1156.94	1011.95	953.96	1032.10
57.0	945.78	1031.05	1174.31	1310.58	1354.80	1293.79	1141.76	997.39	935.99	1015.31
57.5	928.34	1013.93	1159.29	1297.49	1341.83	1279.83	1126.67	981.48	918.77	998.63
58.0	911.00	997.53	1145.01	1283.54	1328.00	1266.37	1111.66	965.67	901.71	981.97
58.5	893.11	980.84	1130.75	1270.57	1314.66	1252.29	1096.38	948.46	883.69	965.77
59.0	875.86	963.89	1116.30	1257.23	1302.06	1238.95	1081.61	931.33	865.57	949.47
59.5	857.89	947.33	1101.26	1244.39	1288.97	1225.32	1066.87	914.94	848.84	932.42
60.0	840.53	930.92	1086.96	1230.76	1275.14	1211.67	1051.40	898.70	831.25	915.94
60.5	822.60	914.17	1072.80	1217.28	1262.91	1198.10	1036.57	881.46	814.48	898.61
61.0	804.68	897.65	1058.85	1204.61	1249.94	1185.61	1022.86	865.99	797.04	881.83
61.5	787.40	881.17	1044.13	1190.94	1237.47	1172.24	1008.85	850.26	779.42	865.27
62.0	770.26	864.03	1029.11	1177.15	1224.35	1158.85	994.89	833.40	761.98	849.06
62.5	752.76	846.88	1014.76	1163.84	1211.98	1145.85	980.44	816.67	744.48	832.18
63.0	735.05	829.64	1000.82	1150.90	1198.94	1133.57	965.51	800.55	726.77	816.72
63.5	718.07	812.48	986.65	1137.02	1184.91	1120.48	951.27	784.40	709.36	799.98
64.0	700.00	795.38	972.32	1123.69	1171.01	1107.77	937.16	767.94	692.50	783.98
64.5	681.88	780.14	957.94	1109.99	1158.13	1094.19	922.78	751.95	675.77	767.63
65.0	664.57	764.43	943.97	1096.11	1145.08	1081.44	909.68	736.95	658.11	751.53
65.5	647.51	748.71	930.58	1083.34	1132.82	1068.76	895.02	721.43	641.61	735.44
66.0	630.37	732.82	915.96	1070.33	1119.69	1055.75	881.15	706.06	624.54	719.55
66.5	613.21	717.74	902.12	1056.95	1107.88	1042.57	867.54	691.25	607.01	702.85
67.0	595.54	700.90	888.32	1043.44	1095.37	1029.20	854.26	676.63	589.43	687.28
67.5	578.45	684.67	874.55	1030.08	1082.21	1016.10	840.31	660.77	572.47	671.74
68.0	560.76	669.62	860.12	1016.96	1069.95	1003.02	828.06	645.84	556.43	656.44
68.5	543.70	654.55	846.68	1003.12	1057.52	989.82	814.43	630.23	539.26	640.72
69.0	526.54	638.96	833.29	989.58	1045.75	976.48	801.92	614.89	521.37	625.65
69.5	509.03	623.82	820.87	977.26	1033.50	963.77	787.62	599.54	503.87	609.67
70.0	492.49	608.37	806.66	963.91	1020.86	950.01	774.83	584.72	487.39	594.13
70.5	476.01	592.95	793.25	951.75	1007.90	935.98	761.22	569.57	470.89	578.61
71.0	459.44	577.52	779.54	940.30	995.21	922.98	748.69	554.39	454.15	564.69
71.5	442.49	562.96	766.79	927.46	982.91	910.73	736.08	539.62	437.86	550.54
72.0	426.37	548.33	752.73	914.25	970.14	898.54	723.46	525.48	421.68	536.53
72.5	409.59	534.06	740.32	901.02	958.46	885.99	710.84	510.82	405.69	521.99
73.0	393.17	519.80	726.25	888.30	945.69	873.94	699.02	497.12	390.05	507.87
73.5	377.13	505.77	713.41	876.87	933.50	861.92	685.91	483.18	374.50	493.79
74.0	361.40	491.27	699.97	864.30	921.64	849.35	672.31	469.18	358.78	479.61
74.5	345.66	477.53	687.35	851.32	909.40	837.23	659.14	455.67	342.63	465.53
75.0	329.49	464.06	674.03	838.92	897.57	825.51	646.36	442.34	326.99	451.28
75.5	313.68	450.10	661.56	827.10	884.90	812.41	633.10	428.59	311.32	437.73
76.0	297.77	436.51	649.23	814.94	872.89	799.88	620.70	414.98	294.52	423.95
76.5	282.51	422.84	635.95	803.07	861.36	787.66	608.58	401.44	279.28	410.29
77.0	267.64	409.64	623.51	790.66	849.93	775.85	596.51	388.44	264.80	396.62
77.5	252.53	396.53	611.28	779.62	837.98	763.25	584.22	375.40	250.05	383.88
78.0	237.90	383.74	599.74	767.53	825.87	751.71	572.88	363.19	234.77	371.56
78.5	223.20	370.60	588.39	756.24	815.21	740.16	561.43	351.11	220.84	359.34
79.0	208.96	357.94	575.98	744.21	803.74	728.45	549.85	339.07	206.81	347.08
79.5	194.91	345.17	563.31	732.24	792.29	716.89	538.66	327.68	192.81	334.70
80.0	180.83	332.97	551.70	720.93	781.01	705.98	527.38	315.81	179.59	322.50
80.5	166.74	321.36	539.23	708.93	770.42	693.19	516.32	303.80	166.00	310.79
81.0	153.56	309.17	526.59	696.52	759.76	681.11	504.50	291.90	151.87	299.25
81.5	140.01	297.26	514.46	683.78	748.51	669.25	491.93	280.01	139.32	288.10
82.0	127.54	285.79	502.19	673.51	736.64	657.98	479.90	269.04	126.96	275.95
82.5	115.49	274.29	490.80	661.49	725.83	646.50	467.63	257.68	114.63	264.39

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83.0	103.87	263.46	479.09	649.78	715.72	635.25	455.88	246.32	102.62	253.05
83.5	92.01	252.38	467.11	637.91	704.33	623.38	443.76	235.06	91.28	242.65
84.0	81.03	240.42	455.13	625.23	692.50	610.71	431.22	223.93	80.00	231.77
84.5	70.75	229.56	443.11	611.74	680.08	596.55	418.83	212.69	68.75	220.44
85.0	60.57	218.58	430.25	597.52	667.26	581.93	404.97	201.80	59.63	209.57
85.5	50.99	207.48	416.13	581.81	650.25	567.20	390.91	191.02	50.16	198.40
86.0	41.60	195.86	401.50	560.21	622.72	545.38	376.02	179.74	40.90	187.02
86.5	32.62	184.36	383.81	530.01	588.07	513.70	358.10	167.11	32.39	174.58
87.0	25.19	171.89	360.93	490.13	541.19	474.13	335.10	153.75	24.68	160.41
87.5	18.83	157.35	328.05	438.12	477.09	423.37	303.83	139.32	17.85	145.42
88.0	13.45	140.14	283.61	367.50	396.02	353.37	263.76	121.50	12.62	125.40
88.5	8.53	117.02	227.07	283.52	304.82	272.84	210.12	100.55	8.28	96.97
89.0	4.63	85.26	157.81	193.50	204.39	183.47	142.77	70.98	4.44	56.94
89.5	2.49	44.54	85.52	103.08	107.60	97.25	72.54	35.91	1.68	16.27
90.0	2.27	12.04	25.84	31.81	31.97	27.59	20.09	8.27	0.94	6.68
90.5	2.06	6.63	11.77	15.35	16.66	15.88	12.71	7.74	0.94	15.87
91.0	1.84	18.06	24.13	28.31	31.18	29.61	25.04	19.04	1.13	37.84
91.5	1.83	41.69	45.89	49.34	52.18	49.62	45.71	40.63	1.18	65.18
92.0	1.82	69.13	81.53	82.00	83.40	82.48	80.17	66.13	1.24	83.00
92.5	1.81	84.41	132.60	128.92	130.53	129.77	128.86	79.03	1.30	87.60
93.0	1.80	89.06	194.97	192.23	193.41	192.19	188.96	81.22	1.35	91.05
93.5	1.79	89.69	250.88	266.95	270.82	265.72	237.74	81.30	1.40	92.62
94.0	1.78	93.95	266.99	345.59	353.10	345.68	251.33	82.80	1.45	92.63
94.5	1.77	93.50	273.53	401.38	429.22	395.67	257.24	83.14	1.50	91.11
95.0	1.76	91.43	271.71	409.27	465.30	401.70	254.00	82.07	1.55	89.10
95.5	1.75	88.96	266.82	412.26	462.51	402.23	248.94	80.76	1.60	86.92
96.0	1.74	86.20	261.26	410.19	458.64	399.73	243.53	78.44	1.78	84.30
96.5	1.73	82.85	257.18	405.02	452.83	392.80	239.21	76.26	1.79	81.49
97.0	1.71	80.02	255.84	398.90	444.96	385.34	237.64	74.07	1.88	78.68
97.5	1.70	77.04	251.94	391.04	437.04	377.90	237.55	72.06	1.97	75.79
98.0	1.69	74.26	246.54	384.50	428.71	371.46	233.00	69.22	2.16	72.86
98.5	1.68	71.77	241.07	379.80	421.00	366.94	227.41	66.78	2.16	69.90
99.0	1.69	69.21	235.93	375.12	413.38	362.89	222.40	64.43	2.34	66.67
99.5	1.87	66.92	230.40	370.39	408.64	361.48	217.57	62.45	2.35	63.61
100.0	2.05	64.67	225.51	364.30	404.75	357.22	212.83	59.98	2.54	60.40
100.5	2.06	62.13	220.06	358.13	400.58	351.44	208.18	57.93	2.72	57.14
101.0	2.24	60.13	215.58	351.64	395.56	345.58	203.40	56.06	2.81	53.68
101.5	2.34	57.92	210.77	344.74	388.49	338.82	198.86	54.17	3.00	50.41
102.0	2.53	56.01	206.00	338.60	381.27	332.26	194.45	52.48	3.10	47.71
102.5	2.71	54.02	201.28	332.26	375.22	326.32	189.93	50.79	3.29	45.24
103.0	2.90	52.31	196.72	325.69	368.05	320.20	186.15	49.38	3.47	44.34
103.5	3.09	50.67	192.01	318.57	360.77	313.33	181.98	47.87	3.56	43.86
104.0	3.28	48.85	187.50	312.53	354.24	307.33	177.93	46.37	3.75	43.47
104.5	3.37	47.23	182.90	306.59	347.54	301.67	173.75	45.32	3.85	43.09
105.0	3.64	45.79	178.47	301.08	341.54	295.37	169.71	43.91	4.03	42.82
105.5	3.83	44.43	174.05	294.39	335.25	289.79	166.07	42.58	4.22	42.44
106.0	4.02	43.10	170.24	288.25	328.42	283.93	162.51	41.27	4.33	41.68
106.5	4.12	41.94	166.27	282.17	322.56	278.74	158.54	40.23	4.59	40.72
107.0	4.22	40.88	162.14	276.68	316.38	272.60	154.73	39.18	4.59	39.67
107.5	4.13	39.79	158.60	271.03	310.44	267.28	151.25	38.11	4.50	38.68
108.0	4.12	38.74	154.87	265.35	304.12	262.04	147.85	37.26	4.59	37.82
108.5	4.39	37.89	151.34	259.28	298.26	257.03	144.31	36.23	4.59	36.96
109.0	4.68	36.83	147.68	254.36	292.70	251.77	140.98	35.28	4.79	35.99
109.5	5.04	35.96	143.95	249.47	286.63	247.01	137.68	34.35	5.07	35.18
110.0	5.15	35.09	140.58	244.65	281.59	242.33	134.57	33.86	5.34	34.31
110.5	5.24	34.20	137.26	239.99	275.95	237.69	131.38	33.07	5.34	33.54

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111.0	5.15	33.34	133.79	235.28	270.32	232.91	128.63	32.22	5.53	32.67
111.5	5.15	32.86	130.96	230.64	265.13	228.23	125.29	31.66	5.71	31.87
112.0	5.33	32.10	127.79	226.09	260.44	223.70	122.37	31.00	5.71	31.10
112.5	5.43	31.52	124.75	221.42	254.81	218.88	119.67	30.42	5.62	30.79
113.0	5.71	30.98	121.69	217.03	249.70	214.53	117.02	29.53	5.62	30.50
113.5	5.89	30.02	118.81	212.40	244.90	210.22	114.18	29.05	5.72	29.95
114.0	6.17	29.45	116.13	208.27	240.32	206.02	111.63	28.58	5.91	29.39
114.5	6.36	28.97	113.38	204.22	235.50	201.51	109.11	28.02	6.19	28.81
115.0	6.46	28.40	110.70	200.30	230.82	197.35	106.49	27.56	6.38	28.24
115.5	6.65	27.95	107.99	195.92	226.05	193.39	103.90	27.02	6.56	27.75
116.0	6.83	27.56	105.54	192.04	221.41	189.36	101.59	26.45	6.84	27.27
116.5	6.93	27.08	103.07	188.09	216.66	185.06	99.34	26.07	6.85	26.82
117.0	6.84	26.70	100.86	184.25	212.63	181.24	97.18	25.50	7.13	26.43
117.5	6.84	26.43	98.58	180.58	208.13	177.46	95.02	24.94	7.31	25.96
118.0	7.01	26.14	96.39	176.60	203.90	173.76	92.86	24.40	7.40	25.76
118.5	6.94	25.86	94.13	173.31	199.56	169.82	90.72	23.85	7.49	25.31
119.0	7.20	25.48	90.96	168.97	195.36	166.48	88.53	23.47	7.50	25.01
119.5	7.21	25.19	89.13	165.21	191.12	162.91	85.71	23.18	7.68	24.73
120.0	7.40	24.89	87.09	162.02	186.90	159.46	83.81	22.81	7.74	24.34
120.5	7.59	24.53	84.93	158.28	183.15	155.89	81.87	22.54	7.79	24.06
121.0	7.76	24.24	83.18	154.79	179.12	152.49	80.13	22.25	7.85	23.77
121.5	7.95	23.96	81.29	151.60	175.14	149.23	78.20	21.98	7.91	23.50
122.0	8.14	23.67	80.13	148.16	171.25	145.92	76.62	21.88	7.96	23.21
122.5	8.34	23.48	78.32	144.87	167.53	142.75	75.74	21.60	7.96	23.01
123.0	8.60	23.30	76.58	141.12	163.87	139.49	74.12	21.51	8.06	22.83
123.5	8.62	23.11	74.95	138.07	160.36	136.44	72.52	21.23	8.25	22.64
124.0	8.89	22.82	73.31	135.20	156.52	133.13	70.83	20.95	8.45	22.54
124.5	8.99	22.63	71.69	132.12	153.12	130.35	69.31	20.76	8.71	22.45
125.0	9.08	22.54	70.26	129.26	149.93	127.46	67.72	20.58	8.81	22.26
125.5	9.18	22.45	68.81	124.57	146.24	123.70	66.48	20.40	8.99	22.08
126.0	9.27	22.16	67.55	121.29	142.98	119.50	65.06	20.35	9.00	22.07
126.5	9.33	22.06	66.21	118.59	140.10	116.65	63.55	20.30	9.09	21.79
127.0	9.38	21.78	64.77	115.61	136.81	114.06	62.13	20.26	9.18	21.58
127.5	9.44	21.60	63.32	112.81	132.90	111.37	60.81	20.21	9.28	21.37
128.0	9.50	21.50	62.07	110.30	128.27	108.92	59.58	20.18	9.37	21.16
128.5	9.56	21.31	60.93	107.83	125.14	106.62	58.16	20.15	9.47	20.95
129.0	9.65	21.11	59.69	106.67	122.36	104.18	56.84	20.12	9.57	20.74
129.5	9.91	20.72	58.61	104.63	119.50	103.36	55.70	20.09	9.74	19.68
130.0	9.93	20.18	57.16	102.41	116.62	101.17	54.19	20.06	9.75	16.94
130.5	10.11	18.85	55.26	99.97	113.85	98.84	52.67	20.02	9.83	13.42
131.0	10.02	15.85	54.10	97.57	111.46	96.63	50.70	19.45	9.74	10.33
131.5	10.20	11.55	53.04	95.81	110.66	94.43	49.57	18.49	9.84	9.97
132.0	10.30	8.26	52.09	93.36	108.20	92.26	48.54	16.15	9.85	9.61
132.5	10.40	6.44	51.04	91.43	105.80	90.27	47.60	11.55	10.12	9.25
133.0	10.58	6.44	50.13	89.44	103.46	88.37	46.80	7.29	10.21	8.89
133.5	10.68	6.46	49.17	87.59	100.95	86.26	45.86	6.15	10.21	8.68
134.0	10.77	6.48	48.41	85.51	98.50	84.39	45.20	6.15	10.40	8.48
134.5	11.04	6.50	47.94	83.61	96.32	82.30	44.27	6.15	10.49	8.27
135.0	11.05	6.52	47.54	81.98	94.12	80.40	43.89	6.15	10.50	8.07
135.5	11.33	6.53	46.82	80.06	91.95	78.52	43.45	6.15	10.68	7.86
136.0	11.33	6.54	46.04	78.41	89.64	76.77	42.69	6.15	10.68	7.86
136.5	11.51	6.54	45.28	76.67	87.62	74.95	41.93	6.15	10.78	7.87
137.0	11.61	6.64	44.70	75.06	85.35	73.27	41.28	6.25	10.87	9.69
137.5	11.71	6.93	44.04	73.41	83.38	71.64	40.53	6.53	10.96	11.70
138.0	11.80	7.29	43.32	70.60	81.49	68.70	39.91	6.98	11.06	13.55
138.5	12.07	8.25	42.64	68.65	79.66	66.53	39.15	7.75	11.15	14.91

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139.0	12.08	10.12	42.06	67.20	77.72	65.09	38.48	9.97	11.23	15.05
139.5	12.27	12.40	41.49	65.75	76.08	63.66	37.82	13.34	11.30	15.20
140.0	12.27	14.28	40.95	64.23	73.85	62.05	37.11	15.94	11.38	15.34
140.5	12.36	15.91	40.38	62.99	70.64	60.63	36.36	16.20	11.45	15.44
141.0	12.36	17.15	39.99	61.74	69.09	59.20	35.61	16.30	11.53	15.53
141.5	12.28	17.90	39.60	60.48	67.36	57.76	34.94	16.21	11.71	15.63
142.0	12.32	17.91	39.02	59.35	65.82	56.74	34.28	16.30	11.62	15.73
142.5	12.36	17.99	38.55	58.90	64.12	56.47	33.66	16.31	11.80	15.82
143.0	12.40	18.05	38.19	58.32	62.58	55.15	33.09	16.48	11.80	16.37
143.5	12.44	18.11	37.71	57.17	61.23	53.91	32.53	16.39	11.82	17.04
144.0	12.47	18.17	37.42	56.02	59.83	52.67	32.06	16.48	11.84	17.04
144.5	12.51	18.22	37.14	55.07	59.35	51.45	31.68	16.20	11.86	17.03
145.0	12.55	18.28	36.66	54.02	58.67	50.31	31.12	16.01	11.88	17.02
145.5	12.46	18.37	36.39	53.02	57.40	49.05	30.59	15.84	11.90	17.01
146.0	12.51	18.96	36.00	52.05	55.86	47.79	29.62	15.65	11.90	17.00
146.5	12.55	19.60	35.64	51.17	54.89	46.64	28.18	15.64	11.99	16.99
147.0	12.60	19.60	35.44	50.18	53.72	45.57	24.10	15.55	11.90	16.98
147.5	12.65	19.60	35.07	49.14	52.41	44.45	15.15	15.28	12.08	16.98
148.0	12.66	19.60	34.59	48.29	51.27	43.31	7.35	15.27	12.08	16.97
148.5	12.68	19.60	33.92	47.42	50.02	42.07	4.66	15.18	12.08	16.96
149.0	12.69	19.60	33.23	46.54	49.05	40.72	4.66	14.90	12.08	16.95
149.5	12.71	19.60	32.01	45.78	47.87	39.49	4.75	14.81	12.08	16.94
150.0	12.73	19.60	28.67	44.97	46.82	38.32	4.66	14.72	12.08	16.94
150.5	12.73	19.60	23.33	44.19	45.68	37.18	4.76	14.43	12.08	16.93
151.0	12.74	19.60	16.74	43.52	44.63	36.32	5.14	14.25	12.08	16.92
151.5	12.74	19.60	11.92	42.66	43.68	35.65	5.99	14.15	12.08	16.91
152.0	12.75	19.60	7.29	41.88	42.72	34.87	9.48	13.97	12.08	16.90
152.5	12.75	19.60	4.64	41.03	41.87	33.49	14.75	13.87	12.08	16.89
153.0	12.76	19.70	4.55	40.31	40.97	30.81	18.82	13.60	12.08	16.88
153.5	12.76	19.70	4.55	39.53	40.00	23.52	18.65	13.32	12.08	16.88
154.0	12.77	19.70	4.36	38.83	38.95	12.54	18.44	13.23	12.08	16.87
154.5	12.78	19.70	4.35	37.67	37.98	5.67	18.23	13.32	12.08	16.86
155.0	12.78	19.70	4.08	36.34	36.72	5.39	18.03	13.31	12.08	16.77
155.5	12.79	19.70	4.17	33.03	34.94	5.11	17.82	13.13	12.08	16.67
156.0	12.79	19.70	4.46	25.74	29.91	4.82	17.62	13.22	12.08	16.67
156.5	12.80	19.70	4.75	16.47	19.69	4.54	17.42	13.03	12.08	16.57
157.0	12.81	19.70	5.20	8.06	9.14	4.26	16.95	12.45	12.08	16.39
157.5	12.81	19.70	6.15	4.38	4.02	4.89	16.50	11.92	12.08	16.48
158.0	12.82	19.70	9.27	4.17	3.87	8.36	15.94	11.92	12.08	16.39
158.5	12.82	19.70	13.98	3.98	3.87	14.54	15.93	11.89	11.99	16.39
159.0	12.83	19.70	18.21	3.61	3.78	18.93	15.92	11.86	12.08	16.37
159.5	12.83	19.70	21.54	3.70	3.96	19.02	15.90	11.83	12.18	16.36
160.0	12.93	19.70	22.07	3.82	4.33	19.11	15.89	11.80	12.27	16.35
160.5	13.10	19.70	22.17	4.27	5.09	19.20	15.88	11.80	12.46	16.33
161.0	13.29	19.51	22.04	6.46	9.62	19.29	15.81	11.81	12.65	16.32
161.5	13.48	19.31	21.91	11.98	16.40	19.38	15.75	11.81	12.83	16.30
162.0	13.76	19.14	21.78	17.37	21.05	19.00	15.69	11.81	12.93	16.29
162.5	13.86	19.12	21.65	21.02	21.12	18.64	15.63	11.82	13.12	16.10
163.0	14.04	19.10	21.51	20.97	21.20	18.26	15.57	11.82	13.21	15.73
163.5	14.23	19.08	21.32	20.91	21.28	18.16	15.66	11.83	13.30	15.72
164.0	14.33	19.06	20.84	20.86	21.10	18.06	15.66	11.83	13.41	15.63
164.5	14.61	19.04	20.57	20.80	20.92	17.76	15.48	11.94	13.68	15.34
165.0	14.71	19.04	20.19	20.74	20.74	17.23	15.38	12.38	13.96	15.27
165.5	14.80	18.85	19.71	20.69	20.56	17.32	15.38	12.57	14.05	15.19
166.0	14.80	18.84	19.52	20.63	20.38	17.30	15.47	12.76	14.24	15.12
166.5	14.89	18.56	19.33	20.58	19.81	17.29	15.36	13.04	14.62	15.09

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167.0	15.17	18.47	19.04	20.38	19.14	17.27	15.25	13.33	14.81	15.07
167.5	15.18	18.29	18.95	20.20	18.60	17.25	15.13	13.52	15.18	15.04
168.0	15.44	18.12	18.95	20.01	18.31	17.24	15.02	13.88	15.37	15.02
168.5	15.55	17.94	18.85	19.73	18.21	17.22	14.91	14.16	15.65	14.99
169.0	15.64	17.76	18.66	19.63	17.92	17.20	14.45	14.45	15.93	14.97
169.5	15.73	17.58	18.48	19.45	17.47	17.18	14.36	14.80	16.11	14.77
170.0	15.92	17.40	18.20	19.35	17.18	17.16	14.36	15.17	16.30	14.68
170.5	16.01	17.23	18.01	18.97	16.71	17.15	14.36	15.36	16.30	14.59
171.0	16.20	17.05	18.00	18.68	16.33	17.13	14.36	15.55	16.39	14.49
171.5	16.30	16.29	17.91	18.20	15.75	16.84	14.36	15.75	16.49	14.49
172.0	16.48	16.20	18.00	18.02	15.30	16.47	14.36	16.02	16.49	14.40
172.5	16.49	15.63	18.00	17.93	14.82	15.63	14.36	16.11	16.58	14.30
173.0	16.57	15.44	17.63	17.92	14.63	15.62	14.36	16.30	16.58	14.40
173.5	16.58	15.37	16.39	17.91	14.25	14.96	14.36	16.48	16.77	14.59
174.0	16.85	15.31	15.72	17.13	13.88	14.49	14.36	16.67	16.86	15.24
174.5	16.77	15.25	15.26	16.10	13.96	14.30	14.36	16.77	16.88	15.91
175.0	16.78	15.19	15.39	15.64	13.97	14.21	14.36	16.78	16.90	16.01
175.5	16.79	15.12	15.52	15.08	13.97	14.21	14.36	16.79	16.92	16.40
176.0	16.80	15.06	15.65	14.79	13.97	14.12	14.36	16.80	16.95	17.24
176.5	16.82	15.06	15.78	14.60	13.97	14.33	14.56	16.81	16.97	17.71
177.0	16.83	15.20	15.91	14.31	13.97	14.53	15.13	16.82	16.99	18.00
177.5	16.84	16.10	16.04	14.04	13.97	14.74	15.75	16.84	17.01	18.28
178.0	16.85	16.48	16.17	13.75	13.87	14.95	16.13	16.85	17.03	18.28
178.5	16.86	16.60	16.30	13.06	14.36	15.16	16.23	16.86	17.05	18.28
179.0	16.86	18.09	16.51	11.95	15.58	15.82	16.42	16.95	17.05	18.38
179.5	16.86	18.19	17.63	11.95	16.11	16.33	16.91	16.94	16.96	18.57
180.0	10.62	10.62	10.62	10.62	10.62	10.62	10.62	10.62	10.62	10.62

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91	2281.91
0.5	2281.04	2283.64	2283.27	2282.16	2283.14	2280.30	2281.79
1.0	2282.40	2285.74	2282.16	2282.53	2283.27	2278.82	2283.39
1.5	2283.52	2285.74	2282.03	2282.53	2283.27	2279.19	2283.76
2.0	2282.28	2285.37	2281.42	2281.79	2283.02	2279.32	2283.64
2.5	2278.70	2283.27	2281.42	2281.42	2282.40	2278.95	2283.64
3.0	2279.07	2283.52	2282.03	2281.04	2280.30	2276.23	2281.66
3.5	2279.56	2282.03	2281.54	2279.93	2279.44	2274.50	2279.44
4.0	2276.48	2280.80	2280.06	2277.59	2278.08	2272.89	2276.10
4.5	2272.52	2276.60	2279.19	2275.36	2274.13	2271.54	2273.14
5.0	2274.38	2273.39	2276.85	2274.25	2273.26	2268.94	2271.17
5.5	2272.40	2273.26	2275.86	2269.44	2272.77	2265.48	2269.81
6.0	2268.94	2271.29	2275.86	2268.82	2272.28	2261.66	2266.84
6.5	2265.11	2270.92	2273.88	2268.70	2270.05	2257.83	2263.63
7.0	2261.53	2268.82	2270.67	2268.70	2265.98	2253.88	2261.78
7.5	2259.93	2263.76	2268.20	2266.10	2263.14	2251.28	2258.94
8.0	2257.95	2261.66	2266.72	2260.05	2260.05	2247.95	2254.99
8.5	2252.02	2258.69	2262.40	2254.86	2256.84	2244.37	2250.66
9.0	2246.09	2255.11	2260.54	2253.01	2253.26	2241.15	2245.11
9.5	2243.25	2251.03	2257.09	2250.54	2249.92	2237.70	2239.30
10.0	2239.55	2248.07	2252.39	2247.21	2245.60	2233.87	2233.62
10.5	2235.35	2247.45	2250.91	2246.22	2240.04	2228.43	2228.93
11.0	2231.40	2244.86	2247.33	2243.38	2235.23	2221.52	2223.99
11.5	2224.36	2239.43	2244.24	2239.92	2229.42	2216.21	2219.42
12.0	2221.02	2233.99	2240.29	2234.11	2224.11	2211.27	2213.98

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12.5	2216.33	2230.16	2235.47	2229.79	2219.42	2206.08	2207.19
13.0	2210.90	2225.96	2231.03	2225.10	2214.11	2201.14	2200.03
13.5	2205.34	2223.49	2226.58	2219.67	2208.43	2194.97	2191.63
14.0	2199.91	2218.31	2222.14	2215.96	2203.24	2185.95	2184.96
14.5	2194.10	2212.75	2217.44	2211.51	2196.82	2178.05	2177.06
15.0	2187.93	2208.30	2214.11	2206.45	2191.26	2170.88	2169.28
15.5	2181.63	2202.13	2209.54	2201.02	2185.09	2162.73	2162.36
16.0	2176.93	2196.45	2204.72	2195.46	2179.40	2154.33	2154.21
16.5	2171.99	2189.53	2200.52	2191.14	2172.86	2147.17	2146.18
17.0	2163.97	2182.99	2195.58	2183.97	2167.18	2140.13	2137.54
17.5	2154.83	2176.07	2189.04	2177.68	2158.41	2131.86	2128.15
18.0	2146.31	2171.01	2183.60	2170.88	2150.51	2124.20	2118.40
18.5	2139.27	2166.07	2178.79	2164.09	2141.74	2115.18	2109.26
19.0	2134.08	2159.52	2170.76	2159.64	2133.09	2105.68	2101.23
19.5	2125.19	2153.96	2164.96	2154.33	2125.81	2096.78	2092.71
20.0	2117.04	2147.91	2160.14	2146.92	2119.75	2088.26	2083.20
20.5	2109.26	2138.16	2151.99	2138.28	2113.08	2080.11	2073.81
21.0	2102.34	2132.35	2145.20	2130.62	2103.82	2070.85	2064.43
21.5	2094.44	2126.18	2139.02	2124.82	2094.93	2060.35	2053.31
22.0	2085.54	2119.01	2132.47	2117.16	2086.78	2048.86	2040.71
22.5	2076.78	2110.61	2125.31	2110.12	2078.01	2037.01	2029.72
23.0	2067.02	2102.71	2117.78	2102.09	2069.00	2026.76	2017.50
23.5	2057.26	2096.04	2109.63	2093.70	2060.23	2014.29	2005.27
24.0	2048.12	2088.63	2101.72	2085.17	2050.47	2002.80	1993.66
24.5	2038.49	2080.36	2095.55	2077.27	2040.96	1992.06	1981.56
25.0	2029.10	2071.59	2087.03	2069.74	2029.48	1980.32	1969.08
25.5	2018.48	2062.33	2078.38	2060.47	2018.61	1969.45	1957.23
26.0	2008.73	2052.94	2070.72	2053.06	2009.84	1958.83	1944.38
26.5	1999.09	2044.30	2063.93	2043.31	1999.09	1946.73	1931.17
27.0	1989.21	2037.63	2056.65	2032.44	1988.84	1933.64	1918.45
27.5	1978.59	2028.24	2047.26	2022.68	1976.62	1922.65	1905.85
28.0	1965.01	2018.85	2038.12	2015.77	1964.64	1910.30	1892.88
28.5	1954.51	2009.47	2028.98	2006.01	1953.28	1896.71	1878.44
29.0	1945.25	2000.21	2020.21	1998.48	1942.16	1883.87	1864.73
29.5	1933.52	1989.21	2012.31	1988.72	1932.03	1870.78	1851.39
30.0	1923.51	1979.21	2004.03	1977.36	1922.28	1857.44	1837.56
30.5	1911.78	1969.21	1994.40	1967.73	1910.30	1843.61	1824.09
31.0	1902.27	1959.33	1984.52	1957.85	1896.84	1830.89	1810.02
31.5	1890.66	1949.32	1975.14	1947.84	1883.25	1817.18	1795.57
32.0	1877.69	1938.58	1965.75	1937.22	1871.64	1803.59	1781.49
32.5	1864.36	1929.07	1955.25	1924.87	1859.91	1789.76	1767.29
33.0	1851.76	1917.71	1943.52	1913.63	1847.31	1775.44	1753.58
33.5	1838.92	1906.59	1932.16	1903.88	1833.97	1760.99	1738.39
34.0	1825.70	1896.22	1923.27	1893.75	1821.87	1746.17	1722.58
34.5	1813.60	1884.98	1913.39	1882.26	1807.55	1731.22	1706.89
35.0	1801.12	1873.74	1903.88	1872.63	1794.83	1716.28	1690.84
35.5	1787.91	1861.64	1894.49	1863.24	1781.49	1701.71	1675.77
36.0	1774.70	1849.91	1885.23	1851.51	1769.51	1687.13	1660.58
36.5	1762.96	1838.30	1874.85	1840.64	1755.80	1674.66	1646.26
37.0	1749.13	1828.05	1862.13	1828.54	1742.21	1661.57	1630.94
37.5	1735.42	1816.19	1850.40	1816.31	1729.12	1644.03	1615.38
38.0	1721.34	1803.59	1840.27	1803.22	1715.79	1628.35	1598.58
38.5	1709.12	1791.86	1828.79	1791.61	1701.71	1613.65	1582.41
39.0	1695.41	1779.51	1816.19	1779.76	1688.12	1598.83	1566.35
39.5	1681.95	1768.03	1804.58	1769.26	1676.51	1585.12	1550.05
40.0	1669.72	1756.66	1795.44	1757.78	1662.80	1569.81	1533.38

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40.5	1655.15	1745.06	1783.71	1744.68	1646.87	1551.04	1517.32
41.0	1641.44	1732.09	1772.35	1732.21	1632.42	1536.71	1500.90
41.5	1625.51	1721.22	1758.64	1720.35	1618.96	1521.77	1485.09
42.0	1611.30	1708.75	1747.28	1707.76	1604.27	1505.71	1468.17
42.5	1599.57	1697.14	1736.53	1695.28	1589.57	1489.04	1451.13
43.0	1585.25	1684.29	1724.68	1682.44	1575.00	1473.60	1434.82
43.5	1569.93	1670.46	1711.59	1668.48	1561.16	1456.56	1418.40
44.0	1555.11	1658.98	1698.13	1655.02	1547.08	1439.27	1399.50
44.5	1542.02	1646.38	1686.02	1642.18	1531.28	1424.20	1383.82
45.0	1528.56	1632.18	1674.41	1628.84	1516.09	1407.04	1365.66
45.5	1513.99	1619.46	1661.45	1616.49	1502.13	1392.83	1348.62
46.0	1498.92	1606.98	1649.10	1603.03	1486.69	1375.54	1331.33
46.5	1482.99	1594.14	1637.61	1590.31	1471.87	1358.25	1314.53
47.0	1466.44	1580.43	1624.52	1577.59	1455.45	1342.07	1297.61
47.5	1450.26	1567.21	1612.42	1563.63	1440.63	1326.14	1280.32
48.0	1435.32	1553.51	1599.57	1550.17	1427.04	1309.72	1262.91
48.5	1421.11	1540.54	1586.73	1537.58	1413.21	1293.79	1245.13
49.0	1407.04	1528.44	1573.39	1523.62	1397.16	1275.38	1227.70
49.5	1392.46	1514.23	1559.43	1510.53	1382.71	1260.19	1211.46
50.0	1377.64	1500.77	1547.46	1498.06	1366.65	1242.66	1194.06
50.5	1362.82	1487.43	1534.86	1484.22	1351.21	1227.02	1176.12
51.0	1347.76	1473.85	1521.52	1470.27	1335.65	1211.05	1158.10
51.5	1330.84	1460.14	1508.06	1455.94	1319.35	1193.92	1140.76
52.0	1316.14	1446.68	1494.97	1441.99	1305.02	1176.87	1122.80
52.5	1301.57	1432.72	1482.00	1428.52	1290.20	1159.55	1105.34
53.0	1286.13	1418.77	1468.17	1414.57	1274.52	1142.50	1087.64
53.5	1270.57	1405.80	1454.95	1400.86	1259.08	1126.34	1070.65
54.0	1255.50	1392.34	1441.49	1387.28	1243.77	1109.43	1052.97
54.5	1240.31	1378.14	1428.65	1373.20	1227.68	1094.14	1035.62
55.0	1225.29	1363.93	1415.43	1358.87	1212.41	1076.62	1018.18
55.5	1209.86	1349.24	1400.74	1344.79	1198.48	1059.14	1000.05
56.0	1195.00	1336.64	1387.65	1330.71	1183.81	1042.25	981.50
56.5	1180.10	1322.93	1374.93	1316.26	1169.13	1025.59	963.19
57.0	1166.09	1308.48	1362.20	1301.81	1153.66	1009.53	945.78
57.5	1150.44	1294.28	1348.99	1287.61	1137.39	993.15	928.34
58.0	1135.37	1281.31	1335.16	1274.27	1122.00	975.84	911.00
58.5	1119.85	1267.60	1321.20	1260.07	1106.15	959.53	893.11
59.0	1106.00	1253.77	1308.73	1246.11	1091.58	942.86	875.86
59.5	1091.12	1239.94	1295.39	1232.25	1076.12	925.99	857.89
60.0	1076.64	1224.93	1281.19	1217.97	1060.00	909.69	840.53
60.5	1061.84	1211.76	1267.60	1203.90	1044.98	893.10	822.60
61.0	1047.93	1198.10	1254.02	1189.77	1030.01	876.43	804.68
61.5	1032.86	1183.99	1241.30	1175.92	1015.61	858.76	787.40
62.0	1017.71	1171.30	1227.48	1161.83	1000.24	843.47	770.26
62.5	1002.26	1157.31	1213.72	1147.83	984.69	826.68	752.76
63.0	987.58	1143.28	1201.79	1134.57	969.31	810.01	735.05
63.5	973.56	1129.53	1188.28	1121.05	955.77	792.88	718.07
64.0	959.40	1115.29	1174.08	1106.62	941.39	777.14	700.00
64.5	944.92	1100.63	1160.00	1092.75	926.81	760.30	681.88
65.0	929.84	1086.43	1147.50	1080.19	912.21	745.03	664.57
65.5	915.81	1072.78	1134.16	1067.08	898.04	729.40	647.51
66.0	901.85	1059.75	1121.40	1053.12	882.80	713.22	630.37
66.5	887.58	1046.56	1107.60	1040.78	868.69	697.12	613.21
67.0	873.42	1033.44	1094.27	1027.68	854.56	681.05	595.54
67.5	859.50	1019.83	1080.43	1014.53	840.66	664.59	578.45
68.0	845.43	1006.80	1067.55	1001.70	826.73	649.21	560.76

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68.5	832.01	993.35	1054.46	989.30	813.04	633.67	543.70
69.0	818.05	980.16	1042.65	976.12	799.33	618.66	526.54
69.5	803.89	966.35	1028.92	964.02	785.19	603.51	509.03
70.0	790.04	953.05	1016.02	949.55	771.41	587.79	492.49
70.5	776.44	939.98	1003.87	937.56	758.08	572.24	476.01
71.0	762.95	927.55	990.78	924.48	745.10	557.07	459.44
71.5	749.26	915.17	978.94	910.80	731.73	541.73	442.49
72.0	736.10	902.04	965.10	896.99	718.41	526.65	426.37
72.5	721.99	889.72	952.67	884.06	705.88	512.25	409.59
73.0	709.16	877.15	941.05	872.00	692.96	497.48	393.17
73.5	696.35	863.75	928.84	859.12	679.79	482.60	377.13
74.0	683.56	850.59	916.32	846.58	666.38	467.89	361.40
74.5	670.07	838.69	904.13	833.58	653.92	453.85	345.66
75.0	657.34	826.62	891.84	821.04	641.31	439.92	329.49
75.5	645.51	814.66	879.88	808.46	628.41	425.49	313.68
76.0	632.70	801.14	867.30	796.34	615.78	411.84	297.77
76.5	619.91	789.14	855.57	785.15	603.38	397.68	282.51
77.0	607.22	776.25	843.26	771.36	590.95	383.95	267.64
77.5	595.18	764.08	831.24	758.99	577.07	371.33	252.53
78.0	583.27	752.55	819.48	747.72	565.54	358.59	237.90
78.5	571.60	740.98	808.33	735.96	554.76	345.49	223.20
79.0	559.73	728.81	796.95	723.15	543.20	333.44	208.96
79.5	548.09	716.98	785.21	711.30	532.12	321.32	194.91
80.0	535.51	704.86	773.79	698.90	520.50	308.66	180.83
80.5	523.28	693.17	762.41	686.64	509.15	297.15	166.74
81.0	511.91	681.03	751.37	674.43	496.99	285.45	153.56
81.5	500.43	669.51	740.12	662.59	485.84	274.11	140.01
82.0	488.16	657.70	729.26	651.23	474.59	262.77	127.54
82.5	475.98	646.56	718.60	638.87	463.13	251.50	115.49
83.0	463.88	634.77	707.86	626.28	450.87	240.89	103.87
83.5	452.52	622.27	695.84	613.93	438.76	229.67	92.01
84.0	440.17	609.06	682.70	600.25	426.24	218.97	81.03
84.5	426.89	595.50	669.91	586.80	412.82	207.91	70.75
85.0	412.60	581.03	654.90	572.89	399.32	196.82	60.57
85.5	398.94	561.69	630.78	554.77	384.62	185.82	50.99
86.0	382.75	531.82	596.85	526.85	368.19	174.76	41.60
86.5	361.76	493.17	549.59	488.69	348.64	162.67	32.62
87.0	330.72	438.70	484.16	438.68	320.32	149.90	25.19
87.5	289.53	366.02	400.05	371.04	282.02	135.17	18.83
88.0	231.51	280.70	304.97	288.29	234.25	117.21	13.45
88.5	161.72	187.82	202.43	196.80	169.66	92.03	8.53
89.0	84.09	96.21	106.43	107.56	100.19	59.32	4.63
89.5	22.62	25.55	27.82	31.72	36.24	23.77	2.49
90.0	12.29	15.79	16.12	14.02	10.39	5.50	2.27
90.5	23.58	28.41	29.61	24.71	17.73	9.10	2.06
91.0	45.46	50.04	50.31	45.02	35.68	23.38	1.84
91.5	82.61	85.63	84.59	76.58	65.75	48.68	1.83
92.0	136.67	139.57	137.95	126.71	113.68	70.37	1.82
92.5	201.39	207.10	205.87	192.28	176.68	79.30	1.81
93.0	249.54	284.91	284.24	264.87	231.77	81.27	1.80
93.5	265.18	364.87	368.91	344.06	253.56	82.78	1.79
94.0	272.42	405.18	445.34	391.94	263.34	84.29	1.78
94.5	270.59	410.77	464.45	399.55	261.57	84.18	1.77
95.0	267.44	412.30	462.71	402.00	256.97	82.66	1.76
95.5	263.51	408.96	459.54	400.02	251.67	79.79	1.75
96.0	258.77	403.09	453.24	395.25	247.16	77.03	1.74

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CANDELA TABULATION - (Cont.)

96.5	253.95	397.19	446.21	388.12	244.12	74.28	1.73
97.0	249.21	391.73	439.39	382.02	241.80	71.59	1.71
97.5	244.23	386.93	432.71	376.30	237.97	69.04	1.70
98.0	239.31	382.27	427.12	371.77	233.42	66.53	1.69
98.5	234.00	375.81	421.02	367.54	228.39	64.11	1.68
99.0	228.44	369.39	414.56	364.19	223.08	61.74	1.69
99.5	222.95	363.66	408.32	359.11	217.98	59.58	1.87
100.0	217.94	357.54	402.88	352.32	212.64	57.48	2.05
100.5	212.90	351.35	395.71	346.26	208.06	55.39	2.06
101.0	207.62	344.58	388.72	339.70	203.34	53.50	2.24
101.5	202.40	338.37	381.94	333.34	198.33	51.51	2.34
102.0	197.79	332.47	375.16	326.92	193.40	49.71	2.53
102.5	193.03	326.36	368.09	320.07	188.78	48.10	2.71
103.0	188.36	319.94	361.68	313.96	184.14	46.51	2.90
103.5	183.57	313.62	355.20	307.77	179.52	44.91	3.09
104.0	178.78	307.40	348.38	302.24	174.93	43.58	3.28
104.5	173.85	301.30	341.63	296.23	170.97	42.19	3.37
105.0	168.95	295.21	335.64	290.36	166.77	40.85	3.64
105.5	163.79	288.71	329.46	284.52	162.54	39.62	3.83
106.0	158.77	282.62	323.98	278.71	158.64	38.48	4.02
106.5	153.76	276.52	317.39	273.42	154.73	37.25	4.12
107.0	148.99	270.79	311.20	267.93	151.08	36.22	4.22
107.5	144.30	265.19	305.35	262.64	147.62	35.15	4.13
108.0	139.60	259.56	299.25	257.15	143.88	34.12	4.12
108.5	134.84	253.84	293.45	252.03	140.38	33.27	4.39
109.0	130.47	248.40	287.79	246.86	136.86	32.32	4.68
109.5	126.95	242.53	281.60	241.76	133.48	31.52	5.04
110.0	124.46	237.13	276.57	236.81	130.23	30.39	5.15
110.5	122.26	231.39	270.82	231.64	126.91	29.44	5.24
111.0	119.77	225.39	265.38	226.60	123.51	28.78	5.15
111.5	117.51	220.06	260.02	221.56	120.60	28.03	5.15
112.0	115.30	214.58	255.09	216.89	117.75	27.40	5.33
112.5	113.02	208.75	249.83	212.26	115.01	26.84	5.43
113.0	110.95	203.06	244.49	207.31	112.06	26.26	5.71
113.5	109.14	197.69	239.27	202.70	109.29	25.73	5.89
114.0	107.34	192.29	234.35	198.12	106.59	25.26	6.17
114.5	105.41	187.44	229.55	193.40	103.85	24.70	6.36
115.0	103.68	182.83	224.31	188.93	101.21	24.22	6.46
115.5	101.76	178.11	219.31	184.43	98.63	23.75	6.65
116.0	99.42	173.97	214.45	180.15	96.07	23.31	6.83
116.5	97.20	170.18	209.86	175.93	93.42	23.10	6.93
117.0	95.16	167.06	205.05	171.79	91.12	22.73	6.84
117.5	93.06	163.91	200.29	167.63	88.87	22.54	6.84
118.0	90.91	160.72	195.48	163.40	86.11	22.35	7.01
118.5	87.95	158.02	190.76	159.48	83.35	22.09	6.94
119.0	85.99	155.05	186.03	155.47	80.99	21.80	7.20
119.5	83.98	152.36	181.47	151.94	79.19	21.52	7.21
120.0	81.97	149.85	176.69	148.21	77.29	21.33	7.40
120.5	80.16	147.09	172.12	144.63	75.52	21.05	7.59
121.0	78.53	144.49	168.29	141.10	73.82	20.77	7.76
121.5	77.36	141.86	164.05	137.69	72.75	20.59	7.95
122.0	75.63	138.89	160.01	134.13	71.06	20.40	8.14
122.5	73.89	135.78	156.05	130.86	69.26	20.11	8.34
123.0	72.27	132.74	152.16	127.55	67.75	19.83	8.60
123.5	70.56	129.86	148.68	124.32	66.24	19.66	8.62
124.0	69.19	126.62	145.11	121.17	64.55	19.47	8.89

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CANDELA TABULATION - (Cont.)

124.5	68.05	123.92	141.59	118.33	62.86	19.36	8.99
125.0	66.89	119.86	137.95	113.84	61.34	19.25	9.08
125.5	65.53	116.17	134.80	110.79	59.65	19.13	9.18
126.0	64.19	113.42	131.56	108.20	58.22	19.02	9.27
126.5	62.94	110.74	128.50	105.82	56.71	18.91	9.33
127.0	61.69	108.05	124.53	103.45	55.48	18.72	9.38
127.5	60.44	105.26	120.70	100.95	54.25	18.34	9.44
128.0	59.27	102.91	118.27	98.62	53.10	17.72	9.50
128.5	58.11	101.97	115.76	98.17	51.96	16.24	9.56
129.0	56.85	99.85	112.97	95.88	50.91	13.14	9.65
129.5	55.61	97.50	110.50	94.00	49.03	9.76	9.91
130.0	53.60	95.38	107.86	91.91	48.04	7.64	9.93
130.5	52.61	93.08	106.30	90.09	47.10	7.36	10.11
131.0	51.46	91.05	104.95	88.18	46.24	7.36	10.02
131.5	50.40	89.03	102.64	86.45	45.48	7.36	10.20
132.0	49.39	87.21	100.09	84.46	44.59	7.27	10.30
132.5	48.42	85.46	97.88	82.54	43.92	7.26	10.40
133.0	47.48	83.58	95.71	80.57	43.17	7.68	10.58
133.5	46.52	81.66	93.71	78.86	42.33	8.09	10.68
134.0	45.71	80.03	91.42	77.14	42.23	8.51	10.77
134.5	45.67	78.23	89.45	75.26	41.52	8.92	11.04
135.0	44.94	76.41	87.26	73.65	40.86	9.34	11.05
135.5	44.07	74.75	85.33	72.00	40.10	9.75	11.33
136.0	43.30	73.03	83.25	70.29	39.53	10.16	11.33
136.5	42.63	71.41	81.35	68.68	39.06	12.12	11.51
137.0	41.90	69.05	79.45	65.62	38.62	13.89	11.61
137.5	41.13	66.44	77.52	63.82	37.96	14.06	11.71
138.0	40.46	64.87	75.49	62.28	37.38	14.22	11.80
138.5	39.83	63.33	73.70	60.85	36.85	14.39	12.07
139.0	39.15	61.77	72.04	59.59	36.28	14.55	12.08
139.5	38.47	60.32	68.61	58.44	35.71	14.72	12.27
140.0	37.99	58.88	66.71	57.09	35.24	14.81	12.27
140.5	37.36	57.61	65.25	55.92	34.79	14.90	12.36
141.0	36.77	56.35	63.71	54.58	34.22	14.99	12.36
141.5	36.19	55.58	62.18	54.20	33.84	15.47	12.28
142.0	35.65	55.49	61.01	53.57	33.39	16.27	12.32
142.5	35.17	54.27	59.67	52.44	32.92	16.30	12.36
143.0	34.68	53.12	58.14	51.30	32.63	16.33	12.40
143.5	34.21	52.06	57.10	50.35	32.07	16.36	12.44
144.0	33.66	50.98	56.92	49.39	31.71	16.39	12.47
144.5	33.18	49.92	55.81	48.31	30.88	16.42	12.51
145.0	32.70	48.96	54.37	47.25	30.03	16.45	12.55
145.5	31.93	47.90	53.23	46.30	28.63	16.48	12.46
146.0	30.51	46.86	52.19	45.46	25.10	16.52	12.51
146.5	27.59	45.89	51.04	44.59	19.73	16.52	12.55
147.0	22.65	44.91	49.79	43.62	13.01	16.53	12.60
147.5	16.49	43.94	48.81	42.83	7.57	16.53	12.65
148.0	10.78	43.15	47.56	41.97	7.35	16.54	12.66
148.5	7.53	42.25	46.57	41.07	7.12	16.54	12.68
149.0	7.30	41.38	45.53	40.21	6.89	16.55	12.69
149.5	7.30	40.52	44.48	39.45	6.66	16.55	12.71
150.0	7.20	39.75	43.51	38.68	6.43	16.56	12.73
150.5	7.20	38.98	42.47	37.92	7.34	16.56	12.73
151.0	7.09	38.12	41.61	37.30	8.24	16.57	12.74
151.5	6.11	37.40	40.63	36.37	9.15	16.57	12.74
152.0	6.07	36.26	39.76	35.04	10.05	16.58	12.75

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CANDELA TABULATION - (Cont.)

152.5	6.72	34.65	38.90	32.49	10.95	16.58	12.75
153.0	10.53	30.61	37.94	26.89	14.91	16.59	12.76
153.5	14.47	22.60	37.04	18.20	18.91	16.59	12.76
154.0	17.70	14.46	35.54	10.43	19.83	16.60	12.77
154.5	19.97	8.45	32.49	7.10	19.86	16.60	12.78
155.0	19.91	6.64	25.30	6.96	19.90	16.61	12.78
155.5	19.85	6.45	16.03	6.96	19.93	16.61	12.79
156.0	19.79	6.26	8.87	6.76	19.97	16.62	12.79
156.5	19.73	6.07	6.22	6.14	20.00	16.62	12.80
157.0	19.67	5.88	5.95	5.56	20.04	16.63	12.81
157.5	19.62	5.69	5.76	5.46	20.04	16.63	12.81
158.0	19.61	6.21	5.56	8.17	20.14	16.64	12.82
158.5	19.52	10.30	4.93	12.95	20.05	16.64	12.82
159.0	19.61	15.21	4.91	17.39	20.14	16.65	12.83
159.5	19.52	19.61	6.20	21.40	20.14	16.65	12.83
160.0	19.52	20.05	10.86	21.40	20.05	16.66	12.93
160.5	19.43	20.49	15.82	21.41	19.86	16.66	13.10
161.0	19.34	20.93	16.37	21.42	19.67	16.67	13.29
161.5	19.24	21.37	16.92	21.43	19.58	16.57	13.48
162.0	19.14	21.81	17.47	21.44	19.49	16.04	13.76
162.5	19.14	21.70	18.02	21.44	19.49	15.56	13.86
163.0	19.04	21.59	18.58	21.45	19.39	15.46	14.04
163.5	18.95	21.48	19.13	21.18	19.32	15.37	14.23
164.0	18.77	21.37	19.68	20.71	19.24	15.37	14.33
164.5	18.67	21.26	20.23	20.33	19.17	15.27	14.61
165.0	18.57	21.15	20.78	20.05	19.07	15.18	14.71
165.5	18.48	20.58	21.33	19.85	18.97	15.18	14.80
166.0	18.38	20.04	21.24	19.50	18.87	15.09	14.80
166.5	18.35	19.74	21.05	19.39	18.78	15.09	14.89
167.0	18.32	19.26	20.77	19.39	18.68	15.00	15.17
167.5	18.29	18.97	20.57	19.31	18.58	14.90	15.18
168.0	18.26	18.87	20.39	19.24	18.48	14.81	15.44
168.5	18.23	18.51	20.20	19.16	18.39	14.72	15.55
169.0	18.20	18.12	20.20	19.09	18.29	14.62	15.64
169.5	18.19	17.84	19.98	18.94	18.19	14.62	15.73
170.0	17.72	17.55	19.77	18.78	16.97	14.53	15.92
170.5	17.45	17.36	19.55	18.63	16.16	14.53	16.01
171.0	16.51	17.26	19.34	18.48	16.04	14.62	16.20
171.5	15.84	16.80	19.12	18.32	15.85	14.98	16.30
172.0	15.54	15.58	18.91	18.17	15.67	15.18	16.48
172.5	15.45	15.18	18.69	16.85	15.48	15.37	16.49
173.0	15.26	14.45	17.73	16.22	15.30	16.12	16.57
173.5	14.89	14.14	16.56	15.91	15.02	17.01	16.58
174.0	14.78	13.95	16.06	15.63	14.92	17.68	16.85
174.5	14.50	13.85	15.76	15.34	14.73	18.25	16.77
175.0	14.12	13.75	15.57	15.15	14.82	18.29	16.78
175.5	14.12	13.75	15.30	14.88	15.44	18.34	16.79
176.0	14.03	13.66	15.02	14.87	15.75	18.39	16.80
176.5	14.86	13.38	14.87	15.05	17.04	18.44	16.82
177.0	15.35	14.22	14.72	15.90	17.80	18.48	16.83
177.5	16.40	15.08	14.56	17.51	18.18	18.53	16.84
178.0	17.25	16.89	14.41	18.26	18.37	18.58	16.85
178.5	17.61	17.62	14.26	18.26	18.37	18.63	16.86
179.0	17.91	17.73	13.88	18.26	18.27	18.63	16.86
179.5	18.10	17.74	12.27	18.26	18.27	18.63	16.86
180.0	10.62	10.62	10.62	10.62	10.62	10.62	10.62

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	832.97	N.A.	10.80
0-30	1765.63	N.A.	22.80
0-40	2887.82	N.A.	37.40
0-60	5148.00	N.A.	66.60
0-80	6729.54	N.A.	87.10
0-90	7104.87	N.A.	91.90
10-90	6889.00	N.A.	89.10
20-40	2054.85	N.A.	26.60
20-50	3225.86	N.A.	41.70
40-70	3168.41	N.A.	41.00
60-80	1581.54	N.A.	20.50
70-80	673.32	N.A.	8.70
80-90	375.33	N.A.	4.90
90-110	375.91	N.A.	4.90
90-120	486.71	N.A.	6.30
90-130	551.70	N.A.	7.10
90-150	608.00	N.A.	7.90
90-180	622.77	N.A.	8.10
110-180	246.86	N.A.	3.20
0-180	7727.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.87
10-20	617.10
20-30	932.66
30-40	1122.19
40-50	1171.01
50-60	1089.17
60-70	908.22
70-80	673.32
80-90	375.33
90-100	194.47
100-110	181.44
110-120	110.80
120-130	64.99
130-140	35.80
140-150	20.51
150-160	8.32
160-170	4.91
170-180	1.54

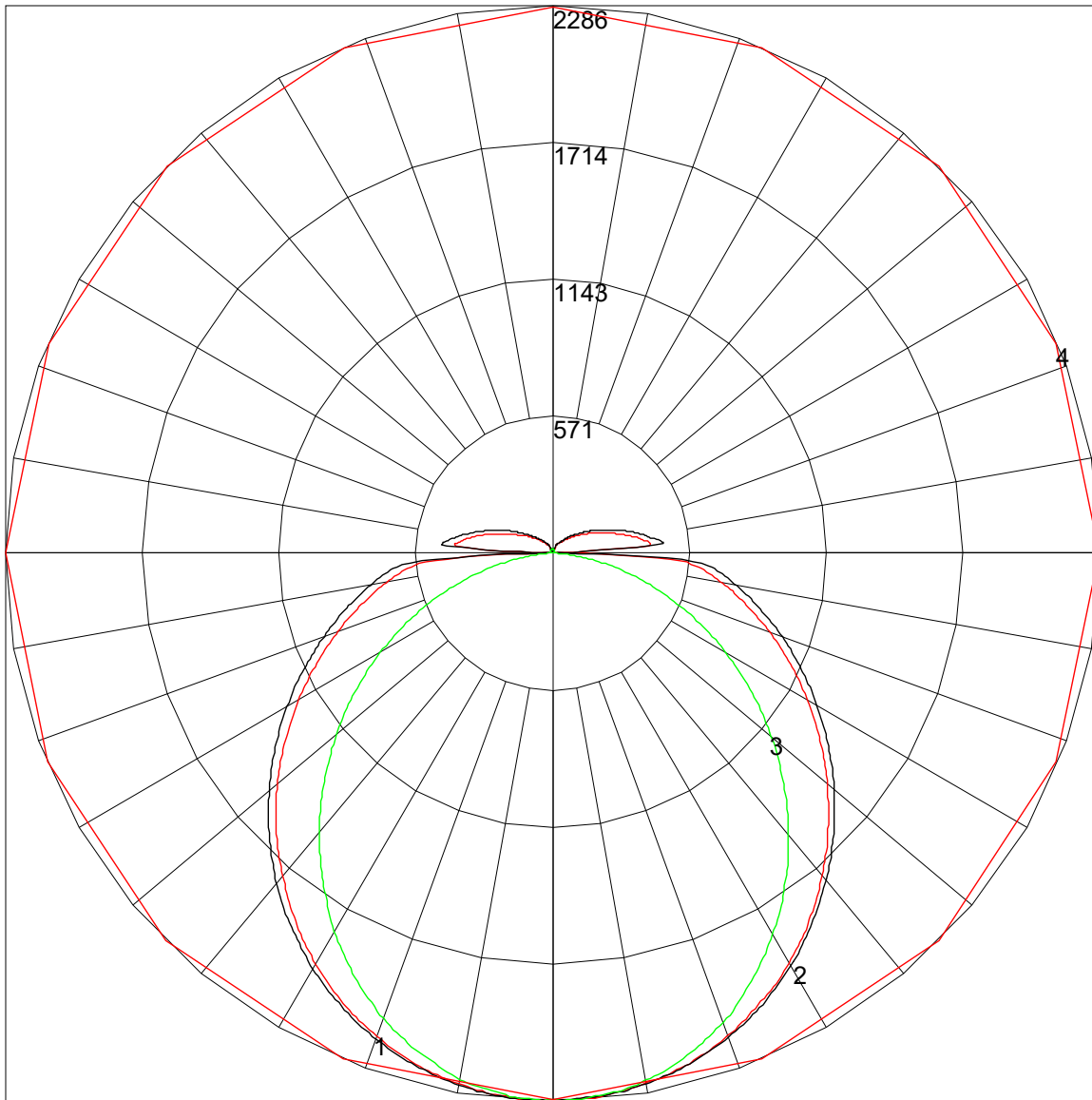
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	78	76	73
2	95	86	79	73	92	84	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	61	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	58	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	28
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

POLAR GRAPH



Maximum Candela = 2285.74 Located At Horizontal Angle = 247.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (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 (1) (Through Max. Cd.)