

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 16K 360P-4-URD-835-U10-CA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 13551818.07  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 11/9/2020  
 [MANUFAC] Lux Dynamics  
 [LUMCAT] 360P-4-URD-835-xxx-xx-CA (modified from 2' IES file)  
 [LUMINAIRE] Gray cylindrical metal housing with diffuse plastic lens  
 [LAMP] White 1836 LEDs  
 [BALLAST] Two (2) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB  
 [OTHER] 25.6 C, 276.983 V, 0.191393 A, 50.1656 W, 0.946299 PF, 59.9708  
 [MORE] Hz  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16258
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	100.3312
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.38 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12846	12637	12228
55	11012	10277	14210
65	7786	11531	12472
75	4022	11515	13582
85	1823	12602	13988

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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>
<b>0.0</b>	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
<b>0.5</b>	1953.8	1925.0	1924.2	1918.8	1922.6	1918.8	1924.2	1925.0	1953.8	1911.6
<b>1.0</b>	1953.6	1932.2	1938.8	1940.8	1947.2	1940.8	1938.8	1932.2	1953.6	1906.6
<b>1.5</b>	1953.8	1938.8	1952.4	1958.8	1965.4	1958.8	1952.4	1938.8	1953.8	1901.4
<b>2.0</b>	1952.0	1945.0	1963.4	1968.6	1975.8	1968.6	1963.4	1945.0	1952.0	1898.8
<b>2.5</b>	1953.6	1951.4	1973.0	1981.2	1988.6	1981.2	1973.0	1951.4	1953.6	1896.2
<b>3.0</b>	1951.8	1958.6	1979.2	1988.0	1991.4	1988.0	1979.2	1958.6	1951.8	1895.0
<b>3.5</b>	1951.6	1964.8	1983.6	1988.2	1993.6	1988.2	1983.6	1964.8	1951.6	1895.8
<b>4.0</b>	1950.2	1967.8	1986.4	1992.4	1999.2	1992.4	1986.4	1967.8	1950.2	1896.4
<b>4.5</b>	1949.0	1970.0	1989.0	1990.4	1988.4	1990.4	1989.0	1970.0	1949.0	1897.6
<b>5.0</b>	1948.4	1970.8	1989.0	1981.2	1980.0	1981.2	1989.0	1970.8	1948.4	1899.6
<b>5.5</b>	1946.2	1973.0	1986.6	1975.6	1981.6	1975.6	1986.6	1973.0	1946.2	1903.8
<b>6.0</b>	1945.0	1975.4	1983.2	1976.4	1981.2	1976.4	1983.2	1975.4	1945.0	1909.6
<b>6.5</b>	1943.0	1976.4	1976.6	1977.4	1987.6	1977.4	1976.6	1976.4	1943.0	1914.8
<b>7.0</b>	1940.6	1978.6	1974.0	1982.0	1994.4	1982.0	1974.0	1978.6	1940.6	1919.6
<b>7.5</b>	1939.6	1978.8	1972.8	1988.0	2002.0	1988.0	1972.8	1978.8	1939.6	1924.6
<b>8.0</b>	1935.0	1975.6	1975.6	1995.4	2020.0	1995.4	1975.6	1975.6	1935.0	1929.2
<b>8.5</b>	1933.2	1972.0	1977.8	2010.0	2028.0	2010.0	1977.8	1972.0	1933.2	1932.2
<b>9.0</b>	1930.4	1967.4	1980.4	2020.0	2036.0	2020.0	1980.4	1967.4	1930.4	1935.0
<b>9.5</b>	1927.4	1963.8	1985.8	2026.0	2066.0	2026.0	1985.8	1963.8	1927.4	1938.4
<b>10.0</b>	1924.6	1961.6	1994.4	2046.0	2086.0	2046.0	1994.4	1961.6	1924.6	1941.6
<b>10.5</b>	1920.8	1958.6	2004.0	2070.0	2086.0	2070.0	2004.0	1958.6	1920.8	1946.6
<b>11.0</b>	1917.8	1955.4	2010.0	2082.0	2074.0	2082.0	2010.0	1955.4	1917.8	1951.6
<b>11.5</b>	1913.8	1951.4	2018.0	2076.0	2062.0	2076.0	2018.0	1951.4	1913.8	1955.6
<b>12.0</b>	1909.6	1946.8	2028.0	2066.0	2074.0	2066.0	2028.0	1946.8	1909.6	1958.0
<b>12.5</b>	1905.6	1942.2	2040.0	2060.0	2108.0	2060.0	2040.0	1942.2	1905.6	1958.0
<b>13.0</b>	1901.4	1940.4	2050.0	2070.0	2150.0	2070.0	2050.0	1940.4	1901.4	1956.4
<b>13.5</b>	1896.2	1940.6	2062.0	2098.0	2186.0	2098.0	2062.0	1940.6	1896.2	1949.8
<b>14.0</b>	1892.2	1942.2	2068.0	2136.0	2208.0	2136.0	2068.0	1942.2	1892.2	1939.4
<b>14.5</b>	1886.6	1944.2	2066.0	2168.0	2232.0	2168.0	2066.0	1944.2	1886.6	1925.8
<b>15.0</b>	1881.6	1945.2	2060.0	2188.0	2244.0	2188.0	2060.0	1945.2	1881.6	1909.8
<b>15.5</b>	1877.0	1946.6	2052.0	2208.0	2248.0	2208.0	2052.0	1946.6	1877.0	1894.4
<b>16.0</b>	1871.2	1947.8	2052.0	2224.0	2244.0	2224.0	2052.0	1947.8	1871.2	1878.4
<b>16.5</b>	1864.6	1952.0	2056.0	2224.0	2240.0	2224.0	2056.0	1952.0	1864.6	1863.8
<b>17.0</b>	1858.6	1955.6	2068.0	2220.0	2238.0	2220.0	2068.0	1955.6	1858.6	1850.6
<b>17.5</b>	1850.6	1959.8	2086.0	2216.0	2218.0	2216.0	2086.0	1959.8	1850.6	1840.8
<b>18.0</b>	1844.6	1963.6	2106.0	2214.0	2188.0	2214.0	2106.0	1963.6	1844.6	1830.6
<b>18.5</b>	1836.6	1966.6	2122.0	2210.0	2176.0	2210.0	2122.0	1966.6	1836.6	1822.4
<b>19.0</b>	1828.6	1969.2	2138.0	2190.0	2198.0	2190.0	2138.0	1969.2	1828.6	1812.0
<b>19.5</b>	1821.8	1971.8	2146.0	2166.0	2226.0	2166.0	2146.0	1971.8	1821.8	1800.2
<b>20.0</b>	1813.0	1974.4	2148.0	2162.0	2226.0	2162.0	2148.0	1974.4	1813.0	1788.8
<b>20.5</b>	1804.8	1977.8	2146.0	2182.0	2220.0	2182.0	2146.0	1977.8	1804.8	1775.0
<b>21.0</b>	1797.4	1981.4	2140.0	2202.0	2234.0	2202.0	2140.0	1981.4	1797.4	1764.4
<b>21.5</b>	1788.6	1985.0	2130.0	2204.0	2250.0	2204.0	2130.0	1985.0	1788.6	1754.8
<b>22.0</b>	1781.2	1986.0	2120.0	2198.0	2240.0	2198.0	2120.0	1986.0	1781.2	1750.2
<b>22.5</b>	1773.2	1988.0	2114.0	2202.0	2200.0	2202.0	2114.0	1988.0	1773.2	1748.2
<b>23.0</b>	1764.8	1987.0	2112.0	2212.0	2172.0	2212.0	2112.0	1987.0	1764.8	1746.2
<b>23.5</b>	1755.0	1985.0	2112.0	2212.0	2196.0	2212.0	2112.0	1985.0	1755.0	1743.2
<b>24.0</b>	1748.0	1982.0	2108.0	2190.0	2252.0	2190.0	2108.0	1982.0	1748.0	1736.6
<b>24.5</b>	1739.2	1978.2	2106.0	2164.0	2288.0	2164.0	2106.0	1978.2	1739.2	1726.4
<b>25.0</b>	1731.6	1972.8	2102.0	2164.0	2294.0	2164.0	2102.0	1972.8	1731.6	1715.8
<b>25.5</b>	1723.4	1968.2	2100.0	2202.0	2290.0	2202.0	2100.0	1968.2	1723.4	1705.6
<b>26.0</b>	1715.6	1961.2	2094.0	2246.0	2280.0	2246.0	2094.0	1961.2	1715.6	1696.2
<b>26.5</b>	1707.8	1951.6	2088.0	2270.0	2292.0	2270.0	2088.0	1951.6	1707.8	1689.0

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27.0	1699.4	1939.0	2082.0	2270.0	2312.0	2270.0	2082.0	1939.0	1699.4	1684.0
27.5	1691.0	1923.8	2076.0	2260.0	2328.0	2260.0	2076.0	1923.8	1691.0	1680.4
28.0	1683.0	1909.0	2074.0	2254.0	2342.0	2254.0	2074.0	1909.0	1683.0	1678.0
28.5	1673.4	1893.4	2078.0	2264.0	2348.0	2264.0	2078.0	1893.4	1673.4	1675.2
29.0	1665.8	1880.2	2080.0	2284.0	2332.0	2284.0	2080.0	1880.2	1665.8	1671.4
29.5	1657.4	1865.8	2082.0	2300.0	2322.0	2300.0	2082.0	1865.8	1657.4	1666.2
30.0	1647.8	1854.4	2082.0	2312.0	2352.0	2312.0	2082.0	1854.4	1647.8	1659.2
30.5	1637.8	1841.2	2080.0	2316.0	2394.0	2316.0	2080.0	1841.2	1637.8	1651.4
31.0	1628.8	1828.0	2084.0	2302.0	2412.0	2302.0	2084.0	1828.0	1628.8	1643.6
31.5	1618.8	1816.0	2096.0	2284.0	2406.0	2284.0	2096.0	1816.0	1618.8	1637.2
32.0	1608.4	1802.8	2110.0	2294.0	2422.0	2294.0	2110.0	1802.8	1608.4	1631.8
32.5	1600.0	1793.8	2122.0	2332.0	2466.0	2332.0	2122.0	1793.8	1600.0	1625.2
33.0	1590.8	1790.4	2132.0	2368.0	2528.0	2368.0	2132.0	1790.4	1590.8	1615.8
33.5	1579.4	1786.6	2138.0	2380.0	2582.0	2380.0	2138.0	1786.6	1579.4	1605.0
34.0	1573.0	1782.6	2138.0	2392.0	2624.0	2392.0	2138.0	1782.6	1573.0	1591.0
34.5	1564.8	1774.0	2132.0	2424.0	2612.0	2424.0	2132.0	1774.0	1564.8	1579.4
35.0	1556.8	1764.2	2128.0	2470.0	2556.0	2470.0	2128.0	1764.2	1556.8	1568.4
35.5	1546.2	1755.8	2124.0	2518.0	2510.0	2518.0	2124.0	1755.8	1546.2	1556.4
36.0	1538.8	1747.0	2122.0	2552.0	2500.0	2552.0	2122.0	1747.0	1538.8	1543.6
36.5	1528.4	1738.4	2124.0	2556.0	2504.0	2556.0	2124.0	1738.4	1528.4	1532.8
37.0	1520.0	1728.4	2124.0	2516.0	2498.0	2516.0	2124.0	1728.4	1520.0	1522.8
37.5	1511.8	1716.2	2116.0	2460.0	2468.0	2460.0	2116.0	1716.2	1511.8	1509.2
38.0	1501.4	1703.2	2108.0	2420.0	2430.0	2420.0	2108.0	1703.2	1501.4	1498.8
38.5	1493.6	1693.0	2110.0	2412.0	2384.0	2412.0	2110.0	1693.0	1493.6	1485.4
39.0	1482.6	1686.8	2120.0	2408.0	2354.0	2408.0	2120.0	1686.8	1482.6	1475.6
39.5	1472.0	1679.0	2128.0	2398.0	2334.0	2398.0	2128.0	1679.0	1472.0	1464.2
40.0	1459.2	1670.2	2134.0	2372.0	2340.0	2372.0	2134.0	1670.2	1459.2	1451.8
40.5	1447.8	1662.0	2138.0	2330.0	2352.0	2330.0	2138.0	1662.0	1447.8	1438.6
41.0	1435.6	1653.6	2140.0	2298.0	2356.0	2298.0	2140.0	1653.6	1435.6	1423.0
41.5	1423.2	1647.8	2142.0	2284.0	2348.0	2284.0	2142.0	1647.8	1423.2	1405.6
42.0	1411.4	1640.8	2142.0	2274.0	2338.0	2274.0	2142.0	1640.8	1411.4	1385.4
42.5	1398.4	1633.8	2142.0	2256.0	2328.0	2256.0	2142.0	1633.8	1398.4	1365.6
43.0	1385.6	1624.8	2148.0	2224.0	2330.0	2224.0	2148.0	1624.8	1385.6	1345.8
43.5	1372.8	1620.6	2152.0	2196.0	2328.0	2196.0	2152.0	1620.6	1372.8	1327.8
44.0	1360.0	1614.2	2146.0	2192.0	2314.0	2192.0	2146.0	1614.2	1360.0	1310.4
44.5	1346.8	1607.2	2136.0	2202.0	2300.0	2202.0	2136.0	1607.2	1346.8	1293.8
45.0	1333.2	1596.4	2122.0	2206.0	2312.0	2206.0	2122.0	1596.4	1333.2	1276.8
45.5	1319.0	1587.8	2110.0	2200.0	2338.0	2200.0	2110.0	1587.8	1319.0	1258.6
46.0	1304.4	1579.4	2098.0	2196.0	2352.0	2196.0	2098.0	1579.4	1304.4	1240.0
46.5	1289.0	1577.4	2086.0	2194.0	2364.0	2194.0	2086.0	1577.4	1289.0	1221.8
47.0	1273.0	1578.2	2070.0	2192.0	2370.0	2192.0	2070.0	1578.2	1273.0	1203.8
47.5	1256.4	1578.4	2050.0	2198.0	2386.0	2198.0	2050.0	1578.4	1256.4	1185.0
48.0	1238.6	1576.6	2016.0	2202.0	2386.0	2202.0	2016.0	1576.6	1238.6	1164.0
48.5	1220.0	1570.6	1966.0	2188.0	2352.0	2188.0	1966.0	1570.6	1220.0	1143.4
49.0	1200.8	1566.2	1913.8	2168.0	2312.0	2168.0	1913.8	1566.2	1200.8	1125.0
49.5	1181.6	1561.8	1865.8	2180.0	2280.0	2180.0	1865.8	1561.8	1181.6	1108.0
50.0	1162.6	1559.4	1829.0	2208.0	2284.0	2208.0	1829.0	1559.4	1162.6	1093.4
50.5	1142.8	1553.0	1797.4	2230.0	2320.0	2230.0	1797.4	1553.0	1142.8	1078.8
51.0	1124.0	1542.4	1771.2	2216.0	2370.0	2216.0	1771.2	1542.4	1124.0	1068.0
51.5	1104.8	1524.8	1753.4	2178.0	2414.0	2178.0	1753.4	1524.8	1104.8	1057.6
52.0	1085.2	1499.8	1735.8	2156.0	2444.0	2156.0	1735.8	1499.8	1085.2	1046.4
52.5	1065.2	1473.6	1723.0	2164.0	2488.0	2164.0	1723.0	1473.6	1065.2	1033.0
53.0	1044.4	1448.4	1712.6	2196.0	2566.0	2196.0	1712.6	1448.4	1044.4	1018.0
53.5	1024.0	1423.8	1704.4	2238.0	2644.0	2238.0	1704.4	1423.8	1024.0	1000.4
54.0	1004.0	1398.6	1691.4	2282.0	2700.0	2282.0	1691.4	1398.6	1004.0	980.4
54.5	983.4	1373.0	1676.2	2330.0	2692.0	2330.0	1676.2	1373.0	983.4	960.6

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55.0	962.4	1350.0	1661.8	2398.0	2646.0	2398.0	1661.8	1350.0	962.4	941.4
55.5	941.6	1327.6	1652.6	2470.0	2574.0	2470.0	1652.6	1327.6	941.6	922.2
56.0	920.8	1306.8	1655.8	2516.0	2502.0	2516.0	1655.8	1306.8	920.8	902.6
56.5	900.4	1289.6	1663.0	2512.0	2450.0	2512.0	1663.0	1289.6	900.4	882.4
57.0	879.8	1274.0	1663.6	2474.0	2424.0	2474.0	1663.6	1274.0	879.8	862.8
57.5	859.0	1258.6	1669.0	2430.0	2404.0	2430.0	1669.0	1258.6	859.0	843.0
58.0	838.0	1244.4	1679.0	2392.0	2394.0	2392.0	1679.0	1244.4	838.0	822.8
58.5	817.2	1231.0	1693.2	2358.0	2384.0	2358.0	1693.2	1231.0	817.2	803.2
59.0	796.6	1217.8	1714.2	2324.0	2388.0	2324.0	1714.2	1217.8	796.6	784.2
59.5	775.6	1205.8	1742.0	2280.0	2404.0	2280.0	1742.0	1205.8	775.6	765.6
60.0	754.2	1195.2	1773.8	2238.0	2414.0	2238.0	1773.8	1195.2	754.2	748.2
60.5	733.0	1185.4	1805.6	2226.0	2412.0	2226.0	1805.6	1185.4	733.0	729.8
61.0	710.6	1169.8	1829.0	2248.0	2408.0	2248.0	1829.0	1169.8	710.6	712.2
61.5	688.0	1152.8	1836.0	2278.0	2388.0	2278.0	1836.0	1152.8	688.0	694.0
62.0	665.4	1134.4	1823.4	2280.0	2366.0	2280.0	1823.4	1134.4	665.4	674.8
62.5	642.2	1114.6	1799.2	2264.0	2358.0	2264.0	1799.2	1114.6	642.2	655.8
63.0	619.8	1093.6	1775.2	2252.0	2362.0	2252.0	1775.2	1093.6	619.8	637.4
63.5	597.8	1073.6	1754.2	2232.0	2350.0	2232.0	1754.2	1073.6	597.8	619.8
64.0	575.4	1051.4	1745.2	2226.0	2316.0	2226.0	1745.2	1051.4	575.4	603.2
64.5	554.2	1028.0	1738.6	2238.0	2264.0	2238.0	1738.6	1028.0	554.2	587.4
65.0	532.2	1003.0	1736.2	2242.0	2216.0	2242.0	1736.2	1003.0	532.2	573.0
65.5	510.2	977.6	1735.6	2216.0	2216.0	2216.0	1735.6	977.6	510.2	559.4
66.0	489.0	952.2	1738.0	2170.0	2254.0	2170.0	1738.0	952.2	489.0	546.8
66.5	467.6	929.0	1742.0	2128.0	2276.0	2128.0	1742.0	929.0	467.6	534.0
67.0	446.8	908.2	1749.4	2104.0	2258.0	2104.0	1749.4	908.2	446.8	521.4
67.5	426.2	888.8	1758.4	2102.0	2244.0	2102.0	1758.4	888.8	426.2	509.4
68.0	406.0	871.4	1765.0	2102.0	2256.0	2102.0	1765.0	871.4	406.0	496.8
68.5	386.0	855.8	1765.0	2086.0	2264.0	2086.0	1765.0	855.8	386.0	483.8
69.0	367.0	841.4	1755.8	2070.0	2258.0	2070.0	1755.8	841.4	367.0	470.6
69.5	348.6	828.2	1741.0	2066.0	2230.0	2066.0	1741.0	828.2	348.6	457.8
70.0	330.6	816.6	1726.2	2080.0	2216.0	2080.0	1726.2	816.6	330.6	444.8
70.5	314.0	805.6	1712.2	2100.0	2236.0	2100.0	1712.2	805.6	314.0	432.2
71.0	297.4	796.8	1691.0	2104.0	2278.0	2104.0	1691.0	796.8	297.4	421.2
71.5	281.8	786.2	1661.4	2092.0	2294.0	2092.0	1661.4	786.2	281.8	409.6
72.0	267.0	777.4	1634.4	2078.0	2282.0	2078.0	1634.4	777.4	267.0	398.6
72.5	252.8	769.8	1614.4	2064.0	2262.0	2064.0	1614.4	769.8	252.8	387.4
73.0	239.2	761.4	1598.4	2042.0	2254.0	2042.0	1598.4	761.4	239.2	377.4
73.5	226.0	753.2	1580.4	2024.0	2258.0	2024.0	1580.4	753.2	226.0	367.6
74.0	213.8	743.0	1563.0	2018.0	2256.0	2018.0	1563.0	743.0	213.8	358.4
74.5	201.6	731.6	1554.2	2028.0	2238.0	2028.0	1554.2	731.6	201.6	349.2
75.0	190.0	720.2	1552.8	2032.0	2224.0	2032.0	1552.8	720.2	190.0	340.4
75.5	179.0	709.4	1549.6	2024.0	2210.0	2024.0	1549.6	709.4	179.0	331.2
76.0	168.4	697.2	1544.6	2016.0	2184.0	2016.0	1544.6	697.2	168.4	321.8
76.5	158.2	685.4	1533.8	2022.0	2156.0	2022.0	1533.8	685.4	158.2	312.2
77.0	148.4	672.8	1524.4	2026.0	2138.0	2026.0	1524.4	672.8	148.4	302.2
77.5	139.2	660.2	1515.6	2018.0	2134.0	2018.0	1515.6	660.2	139.2	292.6
78.0	130.2	648.4	1504.6	2018.0	2154.0	2018.0	1504.6	648.4	130.2	282.0
78.5	121.8	636.6	1490.8	2040.0	2172.0	2040.0	1490.8	636.6	121.8	271.8
79.0	113.8	624.6	1479.0	2068.0	2160.0	2068.0	1479.0	624.6	113.8	261.6
79.5	106.0	613.0	1476.4	2080.0	2142.0	2080.0	1476.4	613.0	106.0	251.2
80.0	98.8	601.4	1483.2	2074.0	2134.0	2074.0	1483.2	601.4	98.8	241.4
80.5	91.8	588.2	1491.4	2062.0	2110.0	2062.0	1491.4	588.2	91.8	231.8
81.0	85.4	575.4	1496.8	2038.0	2064.0	2038.0	1496.8	575.4	85.4	223.0
81.5	79.2	563.2	1493.0	2004.0	2034.0	2004.0	1493.0	563.2	79.2	213.8
82.0	73.2	553.2	1490.8	1967.6	2016.0	1967.6	1490.8	553.2	73.2	204.8
82.5	67.8	544.2	1486.4	1937.0	2008.0	1937.0	1486.4	544.2	67.8	196.2

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**CANDELA TABULATION - (Cont.)**

83.0	62.6	536.6	1478.0	1925.4	2004.0	1925.4	1478.0	536.6	62.6	188.0
83.5	57.6	529.2	1463.4	1915.8	2014.0	1915.8	1463.4	529.2	57.6	180.6
84.0	53.2	523.4	1452.8	1912.4	2042.0	1912.4	1452.8	523.4	53.2	173.8
84.5	49.0	518.2	1447.8	1908.8	2046.0	1908.8	1447.8	518.2	49.0	167.4
85.0	45.0	512.8	1449.8	1897.0	2026.0	1897.0	1449.8	512.8	45.0	161.8
85.5	41.4	507.2	1446.8	1896.6	2022.0	1896.6	1446.8	507.2	41.4	156.8
86.0	38.0	502.4	1440.2	1888.4	2032.0	1888.4	1440.2	502.4	38.0	152.2
86.5	35.0	498.6	1431.4	1866.2	2034.0	1866.2	1431.4	498.6	35.0	148.4
87.0	32.2	495.4	1426.8	1851.4	2020.0	1851.4	1426.8	495.4	32.2	144.8
87.5	29.8	492.6	1430.0	1845.8	1990.6	1845.8	1430.0	492.6	29.8	142.0
88.0	28.0	490.4	1438.4	1854.2	1983.6	1854.2	1438.4	490.4	28.0	139.8
88.5	26.0	488.8	1451.4	1879.8	2002.0	1879.8	1451.4	488.8	26.0	138.2
89.0	24.6	488.0	1457.2	1890.2	2012.0	1890.2	1457.2	488.0	24.6	137.2
89.5	23.0	486.4	1455.8	1874.8	2006.0	1874.8	1455.8	486.4	23.0	136.6
90.0	22.2	484.2	1456.8	1864.8	2012.0	1864.8	1456.8	484.2	22.2	136.6
90.5	17.8	483.6	1455.0	1877.8	2006.0	1877.8	1455.0	483.6	17.8	134.8
91.0	19.0	484.0	1458.0	1886.6	2012.0	1886.6	1458.0	484.0	19.0	137.0
91.5	20.4	486.2	1468.6	1899.6	2032.0	1899.6	1468.6	486.2	20.4	140.0
92.0	22.0	487.8	1472.6	1885.2	2018.0	1885.2	1472.6	487.8	22.0	143.2
92.5	23.8	489.2	1462.8	1861.6	1997.8	1861.6	1462.8	489.2	23.8	147.0
93.0	25.8	491.8	1453.8	1862.0	2010.0	1862.0	1453.8	491.8	25.8	151.8
93.5	28.2	494.8	1449.2	1878.8	2050.0	1878.8	1449.2	494.8	28.2	157.0
94.0	30.8	498.6	1452.4	1894.2	2070.0	1894.2	1452.4	498.6	30.8	163.0
94.5	33.8	502.4	1464.4	1913.4	2074.0	1913.4	1464.4	502.4	33.8	169.0
95.0	37.0	506.6	1474.2	1923.6	2080.0	1923.6	1474.2	506.6	37.0	175.4
95.5	40.4	511.8	1474.4	1924.6	2084.0	1924.6	1474.4	511.8	40.4	182.4
96.0	44.4	516.8	1470.2	1932.8	2104.0	1932.8	1470.2	516.8	44.4	189.8
96.5	48.6	522.4	1473.8	1936.4	2102.0	1936.4	1473.8	522.4	48.6	197.4
97.0	53.4	527.6	1486.4	1940.8	2084.0	1940.8	1486.4	527.6	53.4	205.8
97.5	58.2	534.6	1501.4	1942.0	2086.0	1942.0	1501.4	534.6	58.2	214.4
98.0	63.4	542.2	1514.2	1946.4	2088.0	1946.4	1514.2	542.2	63.4	223.6
98.5	69.0	551.2	1521.2	1982.6	2092.0	1982.6	1521.2	551.2	69.0	233.2
99.0	74.8	561.2	1522.2	2020.0	2110.0	2020.0	1522.2	561.2	74.8	242.8
99.5	81.0	572.8	1526.2	2042.0	2132.0	2042.0	1526.2	572.8	81.0	252.8
100.0	87.6	586.4	1520.2	2054.0	2164.0	2054.0	1520.2	586.4	87.6	262.4
100.5	94.8	600.0	1509.0	2060.0	2178.0	2060.0	1509.0	600.0	94.8	272.6
101.0	102.0	613.4	1500.4	2062.0	2176.0	2062.0	1500.4	613.4	102.0	282.8
101.5	109.8	625.2	1509.8	2052.0	2196.0	2052.0	1509.8	625.2	109.8	293.6
102.0	118.2	637.4	1527.6	2026.0	2212.0	2026.0	1527.6	637.4	118.2	305.2
102.5	127.2	649.8	1538.8	2010.0	2194.0	2010.0	1538.8	649.8	127.2	316.6
103.0	136.2	660.4	1543.4	2012.0	2172.0	2012.0	1543.4	660.4	136.2	328.6
103.5	146.0	672.2	1550.8	2014.0	2166.0	2014.0	1550.8	672.2	146.0	339.8
104.0	156.2	683.2	1558.2	2010.0	2180.0	2010.0	1558.2	683.2	156.2	350.4
104.5	166.8	694.0	1568.6	2018.0	2202.0	2018.0	1568.6	694.0	166.8	360.6
105.0	177.8	704.6	1572.8	2040.0	2210.0	2040.0	1572.8	704.6	177.8	370.6
105.5	189.6	713.6	1572.8	2062.0	2210.0	2062.0	1572.8	713.6	189.6	379.4
106.0	201.8	723.6	1580.6	2074.0	2214.0	2074.0	1580.6	723.6	201.8	387.4
106.5	214.6	734.4	1592.0	2078.0	2234.0	2078.0	1592.0	734.4	214.6	394.4
107.0	227.6	745.0	1607.0	2088.0	2250.0	2088.0	1607.0	745.0	227.6	400.8
107.5	241.6	755.2	1622.8	2098.0	2260.0	2098.0	1622.8	755.2	241.6	407.0
108.0	256.0	764.2	1631.0	2098.0	2272.0	2098.0	1631.0	764.2	256.0	414.2
108.5	270.8	774.4	1645.2	2108.0	2280.0	2108.0	1645.2	774.4	270.8	422.2
109.0	286.4	784.8	1673.2	2134.0	2282.0	2134.0	1673.2	784.8	286.4	430.4
109.5	303.0	796.8	1701.4	2154.0	2276.0	2154.0	1701.4	796.8	303.0	439.8
110.0	319.6	809.0	1712.8	2150.0	2266.0	2150.0	1712.8	809.0	319.6	450.0
110.5	337.4	821.4	1718.6	2144.0	2270.0	2144.0	1718.6	821.4	337.4	461.0

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**CANDELA TABULATION - (Cont.)**

111.0	355.8	832.8	1730.0	2156.0	2292.0	2156.0	1730.0	832.8	355.8	472.2
111.5	375.0	844.8	1743.8	2186.0	2312.0	2186.0	1743.8	844.8	375.0	484.6
112.0	394.0	858.8	1750.2	2206.0	2318.0	2206.0	1750.2	858.8	394.0	497.0
112.5	413.8	873.2	1748.8	2206.0	2316.0	2206.0	1748.8	873.2	413.8	510.0
113.0	434.2	889.4	1748.2	2198.0	2320.0	2198.0	1748.2	889.4	434.2	524.0
113.5	455.2	906.2	1754.4	2192.0	2338.0	2192.0	1754.4	906.2	455.2	538.0
114.0	476.2	923.8	1760.8	2208.0	2354.0	2208.0	1760.8	923.8	476.2	552.0
114.5	497.6	944.2	1762.8	2232.0	2350.0	2232.0	1762.8	944.2	497.6	567.6
115.0	519.4	966.4	1761.8	2260.0	2334.0	2260.0	1761.8	966.4	519.4	583.0
115.5	540.6	989.6	1760.8	2270.0	2346.0	2270.0	1760.8	989.6	540.6	598.6
116.0	561.8	1013.0	1756.6	2264.0	2386.0	2264.0	1756.6	1013.0	561.8	614.8
116.5	583.6	1034.8	1751.4	2266.0	2404.0	2266.0	1751.4	1034.8	583.6	630.8
117.0	605.2	1055.2	1745.4	2284.0	2400.0	2284.0	1745.4	1055.2	605.2	645.8
117.5	627.0	1075.0	1745.2	2312.0	2396.0	2312.0	1745.2	1075.0	627.0	660.2
118.0	649.4	1094.6	1747.2	2348.0	2386.0	2348.0	1747.2	1094.6	649.4	675.8
118.5	671.4	1115.4	1748.6	2386.0	2400.0	2386.0	1748.6	1115.4	671.4	691.8
119.0	693.2	1134.8	1744.2	2392.0	2436.0	2392.0	1744.2	1134.8	693.2	709.0
119.5	715.0	1153.4	1731.8	2380.0	2484.0	2380.0	1731.8	1153.4	715.0	725.6
120.0	736.2	1170.6	1711.2	2372.0	2520.0	2372.0	1711.2	1170.6	736.2	742.2
120.5	757.0	1186.4	1697.0	2380.0	2542.0	2380.0	1697.0	1186.4	757.0	759.4
121.0	778.0	1201.6	1691.0	2388.0	2548.0	2388.0	1691.0	1201.6	778.0	776.6
121.5	799.4	1215.6	1693.4	2382.0	2526.0	2382.0	1693.4	1215.6	799.4	794.2
122.0	820.0	1231.4	1699.2	2382.0	2520.0	2382.0	1699.2	1231.4	820.0	812.6
122.5	841.4	1246.0	1698.0	2392.0	2554.0	2392.0	1698.0	1246.0	841.4	831.8
123.0	861.2	1261.6	1694.6	2406.0	2580.0	2406.0	1694.6	1261.6	861.2	851.0
123.5	881.2	1278.6	1688.2	2418.0	2582.0	2418.0	1688.2	1278.6	881.2	871.2
124.0	901.6	1296.2	1685.2	2430.0	2558.0	2430.0	1685.2	1296.2	901.6	891.6
124.5	921.4	1316.0	1676.8	2416.0	2568.0	2416.0	1676.8	1316.0	921.4	911.8
125.0	941.0	1336.6	1668.0	2366.0	2596.0	2366.0	1668.0	1336.6	941.0	931.2
125.5	960.4	1357.2	1671.6	2288.0	2624.0	2288.0	1671.6	1357.2	960.4	948.4
126.0	980.0	1380.2	1687.0	2216.0	2624.0	2216.0	1687.0	1380.2	980.0	965.4
126.5	999.2	1401.2	1711.6	2172.0	2584.0	2172.0	1711.6	1401.2	999.2	981.4
127.0	1020.0	1425.4	1731.8	2160.0	2500.0	2160.0	1731.8	1425.4	1020.0	997.6
127.5	1040.6	1448.4	1743.6	2160.0	2410.0	2160.0	1743.6	1448.4	1040.6	1013.6
128.0	1061.4	1472.2	1752.4	2166.0	2354.0	2166.0	1752.4	1472.2	1061.4	1030.0
128.5	1082.2	1496.2	1759.8	2174.0	2320.0	2174.0	1759.8	1496.2	1082.2	1044.4
129.0	1103.2	1515.8	1771.2	2178.0	2304.0	2178.0	1771.2	1515.8	1103.2	1058.4
129.5	1124.4	1530.8	1785.4	2180.0	2300.0	2180.0	1785.4	1530.8	1124.4	1072.6
130.0	1144.2	1544.6	1811.0	2180.0	2304.0	2180.0	1811.0	1544.6	1144.2	1088.8
130.5	1164.0	1555.4	1839.4	2182.0	2314.0	2182.0	1839.4	1555.4	1164.0	1105.8
131.0	1182.6	1562.0	1880.6	2182.0	2328.0	2182.0	1880.6	1562.0	1182.6	1123.0
131.5	1201.0	1564.6	1933.8	2192.0	2340.0	2192.0	1933.8	1564.6	1201.0	1138.0
132.0	1218.2	1563.0	1991.8	2212.0	2338.0	2212.0	1991.8	1563.0	1218.2	1151.6
132.5	1235.0	1564.8	2044.0	2230.0	2330.0	2230.0	2044.0	1564.8	1235.0	1163.6
133.0	1251.2	1570.0	2082.0	2244.0	2326.0	2244.0	2082.0	1570.0	1251.2	1174.4
133.5	1267.6	1577.8	2096.0	2252.0	2348.0	2252.0	2096.0	1577.8	1267.6	1187.6
134.0	1282.4	1586.4	2102.0	2252.0	2384.0	2252.0	2102.0	1586.4	1282.4	1201.6
134.5	1298.4	1595.6	2102.0	2250.0	2396.0	2250.0	2102.0	1595.6	1298.4	1219.8
135.0	1313.6	1606.4	2104.0	2250.0	2380.0	2250.0	2104.0	1606.4	1313.6	1238.0
135.5	1328.4	1619.0	2106.0	2258.0	2370.0	2258.0	2106.0	1619.0	1328.4	1257.2
136.0	1342.8	1631.4	2108.0	2262.0	2388.0	2262.0	2108.0	1631.4	1342.8	1274.6
136.5	1356.8	1642.2	2114.0	2272.0	2406.0	2272.0	2114.0	1642.2	1356.8	1288.8
137.0	1370.6	1650.2	2116.0	2294.0	2420.0	2294.0	2116.0	1650.2	1370.6	1301.2
137.5	1384.0	1657.8	2112.0	2326.0	2422.0	2326.0	2112.0	1657.8	1384.0	1313.2
138.0	1397.6	1668.6	2106.0	2350.0	2414.0	2350.0	2106.0	1668.6	1397.6	1326.4
138.5	1409.8	1678.4	2102.0	2348.0	2408.0	2348.0	2102.0	1678.4	1409.8	1341.4

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**CANDELA TABULATION - (Cont.)**

139.0	1422.0	1687.8	2102.0	2338.0	2418.0	2338.0	2102.0	1687.8	1422.0	1356.4
139.5	1433.0	1699.2	2102.0	2342.0	2448.0	2342.0	2102.0	1699.2	1433.0	1374.2
140.0	1442.8	1710.2	2098.0	2384.0	2462.0	2384.0	2098.0	1710.2	1442.8	1389.2
140.5	1453.8	1722.4	2088.0	2440.0	2450.0	2440.0	2088.0	1722.4	1453.8	1401.6
141.0	1465.4	1733.6	2084.0	2482.0	2436.0	2482.0	2084.0	1733.6	1465.4	1408.6
141.5	1475.4	1744.0	2082.0	2506.0	2422.0	2506.0	2082.0	1744.0	1475.4	1415.6
142.0	1484.0	1754.0	2084.0	2510.0	2440.0	2510.0	2084.0	1754.0	1484.0	1423.2
142.5	1496.8	1762.8	2094.0	2502.0	2490.0	2502.0	2094.0	1762.8	1496.8	1434.6
143.0	1504.8	1773.4	2106.0	2492.0	2542.0	2492.0	2106.0	1773.4	1504.8	1448.6
143.5	1512.6	1784.2	2120.0	2476.0	2576.0	2476.0	2120.0	1784.2	1512.6	1463.4
144.0	1520.6	1796.8	2128.0	2452.0	2596.0	2452.0	2128.0	1796.8	1520.6	1478.6
144.5	1531.8	1809.0	2134.0	2422.0	2610.0	2422.0	2134.0	1809.0	1531.8	1495.0
145.0	1540.8	1819.6	2144.0	2404.0	2606.0	2404.0	2144.0	1819.6	1540.8	1513.2
145.5	1551.4	1824.8	2156.0	2386.0	2572.0	2386.0	2156.0	1824.8	1551.4	1535.0
146.0	1560.6	1827.4	2164.0	2374.0	2528.0	2374.0	2164.0	1827.4	1560.6	1562.0
146.5	1571.6	1828.0	2168.0	2360.0	2478.0	2360.0	2168.0	1828.0	1571.6	1588.6
147.0	1581.6	1828.4	2162.0	2338.0	2434.0	2338.0	2162.0	1828.4	1581.6	1615.4
147.5	1591.0	1830.8	2154.0	2310.0	2418.0	2310.0	2154.0	1830.8	1591.0	1635.4
148.0	1600.6	1836.4	2138.0	2284.0	2420.0	2284.0	2138.0	1836.4	1600.6	1650.4
148.5	1610.6	1845.0	2126.0	2280.0	2402.0	2280.0	2126.0	1845.0	1610.6	1662.6
149.0	1620.0	1854.0	2124.0	2302.0	2386.0	2302.0	2124.0	1854.0	1620.0	1677.2
149.5	1628.4	1864.2	2124.0	2318.0	2362.0	2318.0	2124.0	1864.2	1628.4	1693.4
150.0	1638.2	1875.0	2126.0	2316.0	2348.0	2316.0	2126.0	1875.0	1638.2	1710.2
150.5	1645.6	1884.8	2128.0	2300.0	2340.0	2300.0	2128.0	1884.8	1645.6	1729.4
151.0	1654.0	1894.2	2130.0	2288.0	2352.0	2288.0	2130.0	1894.2	1654.0	1748.6
151.5	1661.8	1901.2	2124.0	2292.0	2362.0	2292.0	2124.0	1901.2	1661.8	1766.8
152.0	1669.8	1907.4	2118.0	2308.0	2348.0	2308.0	2118.0	1907.4	1669.8	1781.0
152.5	1677.6	1914.0	2116.0	2332.0	2318.0	2332.0	2116.0	1914.0	1677.6	1790.8
153.0	1684.8	1921.8	2112.0	2356.0	2306.0	2356.0	2112.0	1921.8	1684.8	1800.0
153.5	1693.2	1930.4	2110.0	2364.0	2320.0	2364.0	2110.0	1930.4	1693.2	1807.2
154.0	1700.0	1938.4	2112.0	2350.0	2338.0	2350.0	2112.0	1938.4	1700.0	1813.0
154.5	1708.8	1943.4	2114.0	2320.0	2368.0	2320.0	2114.0	1943.4	1708.8	1817.0
155.0	1716.6	1942.4	2116.0	2298.0	2396.0	2298.0	2116.0	1942.4	1716.6	1820.8
155.5	1723.8	1938.0	2114.0	2298.0	2398.0	2298.0	2114.0	1938.0	1723.8	1821.0
156.0	1731.4	1932.0	2110.0	2300.0	2364.0	2300.0	2110.0	1932.0	1731.4	1818.8
156.5	1739.2	1926.2	2098.0	2286.0	2334.0	2286.0	2098.0	1926.2	1739.2	1816.6
157.0	1746.4	1922.4	2082.0	2270.0	2332.0	2270.0	2082.0	1922.4	1746.4	1813.2
157.5	1753.4	1920.2	2076.0	2260.0	2340.0	2260.0	2076.0	1920.2	1753.4	1806.0
158.0	1759.4	1919.2	2080.0	2262.0	2332.0	2262.0	2080.0	1919.2	1759.4	1797.8
158.5	1764.4	1918.0	2088.0	2250.0	2306.0	2250.0	2088.0	1918.0	1764.4	1791.0
159.0	1769.8	1915.4	2100.0	2222.0	2290.0	2222.0	2100.0	1915.4	1769.8	1787.2
159.5	1776.8	1913.4	2114.0	2194.0	2288.0	2194.0	2114.0	1913.4	1776.8	1790.4
160.0	1783.2	1910.8	2126.0	2184.0	2272.0	2184.0	2126.0	1910.8	1783.2	1797.4
160.5	1790.0	1910.4	2132.0	2190.0	2238.0	2190.0	2132.0	1910.4	1790.0	1806.0
161.0	1797.6	1909.8	2132.0	2198.0	2200.0	2198.0	2132.0	1909.8	1797.6	1813.6
161.5	1804.8	1911.2	2130.0	2190.0	2186.0	2190.0	2130.0	1911.2	1804.8	1817.2
162.0	1811.4	1912.2	2126.0	2178.0	2202.0	2178.0	2126.0	1912.2	1811.4	1816.6
162.5	1818.0	1915.8	2122.0	2162.0	2214.0	2162.0	2122.0	1915.8	1818.0	1816.8
163.0	1824.4	1920.6	2126.0	2152.0	2208.0	2152.0	2126.0	1920.6	1824.4	1820.2
163.5	1830.0	1924.8	2134.0	2160.0	2192.0	2160.0	2134.0	1924.8	1830.0	1830.8
164.0	1835.2	1927.0	2144.0	2184.0	2170.0	2184.0	2144.0	1927.0	1835.2	1845.4
164.5	1839.6	1928.4	2156.0	2200.0	2162.0	2200.0	2156.0	1928.4	1839.6	1861.6
165.0	1843.8	1929.6	2160.0	2194.0	2184.0	2194.0	2160.0	1929.6	1843.8	1875.0
165.5	1848.2	1931.8	2154.0	2180.0	2208.0	2180.0	2154.0	1931.8	1848.2	1883.8
166.0	1852.0	1937.4	2140.0	2166.0	2204.0	2166.0	2140.0	1937.4	1852.0	1889.8
166.5	1856.0	1944.4	2114.0	2160.0	2188.0	2160.0	2114.0	1944.4	1856.0	1892.8

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**CANDELA TABULATION - (Cont.)**

167.0	1861.2	1950.6	2080.0	2160.0	2170.0	2160.0	2080.0	1950.6	1861.2	1896.4
167.5	1866.2	1955.8	2050.0	2168.0	2164.0	2168.0	2050.0	1955.8	1866.2	1901.4
168.0	1870.4	1959.2	2026.0	2186.0	2164.0	2186.0	2026.0	1959.2	1870.4	1906.6
168.5	1875.2	1964.4	2006.0	2202.0	2170.0	2202.0	2006.0	1964.4	1875.2	1913.8
169.0	1880.0	1971.0	1991.2	2194.0	2192.0	2194.0	1991.2	1971.0	1880.0	1918.8
169.5	1884.4	1980.6	1985.0	2158.0	2216.0	2158.0	1985.0	1980.6	1884.4	1922.8
170.0	1889.0	1989.6	1981.6	2110.0	2196.0	2110.0	1981.6	1989.6	1889.0	1925.2
170.5	1891.8	1997.0	1979.6	2064.0	2142.0	2064.0	1979.6	1997.0	1891.8	1927.0
171.0	1895.4	2004.0	1981.8	2030.0	2090.0	2030.0	1981.8	2004.0	1895.4	1928.8
171.5	1897.4	2010.0	1985.2	2008.0	2040.0	2008.0	1985.2	2010.0	1897.4	1925.6
172.0	1898.8	2016.0	1985.6	1996.6	2012.0	1996.6	1985.6	2016.0	1898.8	1921.6
172.5	1901.0	2024.0	1985.4	1993.6	1998.0	1993.6	1985.4	2024.0	1901.0	1915.2
173.0	1904.2	2028.0	1985.8	1993.4	1991.2	1993.4	1985.8	2028.0	1904.2	1907.4
173.5	1904.8	2030.0	1985.8	1995.8	1992.4	1995.8	1985.8	2030.0	1904.8	1902.8
174.0	1906.4	2028.0	1991.6	1997.2	1995.4	1997.2	1991.6	2028.0	1906.4	1897.6
174.5	1908.6	2022.0	2002.0	1994.0	1998.4	1994.0	2002.0	2022.0	1908.6	1896.4
175.0	1910.6	2018.0	2016.0	1993.0	1992.6	1993.0	2016.0	2018.0	1910.6	1899.0
175.5	1912.4	2012.0	2028.0	1999.0	1991.2	1999.0	2028.0	2012.0	1912.4	1903.2
176.0	1913.6	2008.0	2038.0	2012.0	1999.4	2012.0	2038.0	2008.0	1913.6	1908.0
176.5	1914.8	2002.0	2042.0	2032.0	2016.0	2032.0	2042.0	2002.0	1914.8	1914.4
177.0	1916.4	1990.6	2038.0	2044.0	2036.0	2044.0	2038.0	1990.6	1916.4	1919.0
177.5	1916.6	1980.8	2028.0	2046.0	2046.0	2046.0	2028.0	1980.8	1916.6	1923.4
178.0	1918.0	1972.0	2012.0	2038.0	2046.0	2038.0	2012.0	1972.0	1918.0	1927.0
178.5	1918.4	1962.8	1993.0	2016.0	2026.0	2016.0	1993.0	1962.8	1918.4	1929.0
179.0	1920.0	1953.8	1974.4	1992.2	1996.2	1992.2	1974.4	1953.8	1920.0	1933.2
179.5	1919.2	1947.2	1958.0	1969.6	1974.0	1969.6	1958.0	1947.2	1919.2	1937.4
180.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0

**Vert. Horizontal Angles**  
**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	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
0.5	1905.2	1904.8	1908.2	1904.8	1905.2	1911.6	1953.8
1.0	1903.0	1903.6	1905.6	1903.6	1903.0	1906.6	1953.6
1.5	1902.4	1908.6	1915.4	1908.6	1902.4	1901.4	1953.8
2.0	1906.8	1928.0	1938.6	1928.0	1906.8	1898.8	1952.0
2.5	1915.0	1950.4	1958.4	1950.4	1915.0	1896.2	1953.6
3.0	1927.6	1962.8	1969.6	1962.8	1927.6	1895.0	1951.8
3.5	1942.0	1974.2	1984.4	1974.2	1942.0	1895.8	1951.6
4.0	1954.0	1991.0	2004.0	1991.0	1954.0	1896.4	1950.2
4.5	1963.4	2008.0	2014.0	2008.0	1963.4	1897.6	1949.0
5.0	1972.0	2010.0	2006.0	2010.0	1972.0	1899.6	1948.4
5.5	1983.4	1993.2	1975.0	1993.2	1983.4	1903.8	1946.2
6.0	1995.4	1964.0	1944.0	1964.0	1995.4	1909.6	1945.0
6.5	2002.0	1937.0	1927.2	1937.0	2002.0	1914.8	1943.0
7.0	1997.8	1923.2	1920.0	1923.2	1997.8	1919.6	1940.6
7.5	1983.0	1917.2	1910.0	1917.2	1983.0	1924.6	1939.6
8.0	1960.6	1907.8	1898.6	1907.8	1960.6	1929.2	1935.0
8.5	1939.4	1896.6	1898.2	1896.6	1939.4	1932.2	1933.2
9.0	1921.8	1893.4	1898.8	1893.4	1921.8	1935.0	1930.4
9.5	1912.2	1895.2	1899.2	1895.2	1912.2	1938.4	1927.4
10.0	1902.8	1894.8	1911.6	1894.8	1902.8	1941.6	1924.6
10.5	1895.0	1900.0	1935.4	1900.0	1895.0	1946.6	1920.8
11.0	1884.6	1915.8	1963.0	1915.8	1884.6	1951.6	1917.8
11.5	1875.6	1937.8	1995.4	1937.8	1875.6	1955.6	1913.8
12.0	1874.0	1963.8	2026.0	1963.8	1874.0	1958.0	1909.6



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**CANDELA TABULATION - (Cont.)**

12.5	1875.6	1993.0	2030.0	1993.0	1875.6	1958.0	1905.6
13.0	1874.6	2020.0	1999.2	2020.0	1874.6	1956.4	1901.4
13.5	1872.4	2022.0	1971.4	2022.0	1872.4	1949.8	1896.2
14.0	1874.8	1994.0	1953.6	1994.0	1874.8	1939.4	1892.2
14.5	1882.8	1967.4	1939.4	1967.4	1882.8	1925.8	1886.6
15.0	1895.8	1948.4	1928.8	1948.4	1895.8	1909.8	1881.6
15.5	1911.6	1935.8	1924.4	1935.8	1911.6	1894.4	1877.0
16.0	1928.8	1924.6	1916.6	1924.6	1928.8	1878.4	1871.2
16.5	1944.4	1916.0	1899.0	1916.0	1944.4	1863.8	1864.6
17.0	1959.0	1909.4	1864.4	1909.4	1959.0	1850.6	1858.6
17.5	1964.8	1899.8	1844.8	1899.8	1964.8	1840.8	1850.6
18.0	1954.4	1876.2	1841.6	1876.2	1954.4	1830.6	1844.6
18.5	1932.6	1845.6	1841.0	1845.6	1932.6	1822.4	1836.6
19.0	1910.0	1832.2	1848.4	1832.2	1910.0	1812.0	1828.6
19.5	1893.0	1827.6	1840.4	1827.6	1893.0	1800.2	1821.8
20.0	1881.8	1827.0	1811.8	1827.0	1881.8	1788.8	1813.0
20.5	1874.4	1832.8	1789.2	1832.8	1874.4	1775.0	1804.8
21.0	1864.4	1826.4	1796.2	1826.4	1864.4	1764.4	1797.4
21.5	1850.8	1801.4	1814.0	1801.4	1850.8	1754.8	1788.6
22.0	1839.2	1783.2	1824.0	1783.2	1839.2	1750.2	1781.2
22.5	1831.6	1785.4	1812.2	1785.4	1831.6	1748.2	1773.2
23.0	1820.0	1800.8	1806.4	1800.8	1820.0	1746.2	1764.8
23.5	1797.0	1809.0	1826.2	1809.0	1797.0	1743.2	1755.0
24.0	1771.2	1801.2	1841.0	1801.2	1771.2	1736.6	1748.0
24.5	1751.6	1789.6	1830.8	1789.6	1751.6	1726.4	1739.2
25.0	1740.0	1797.0	1810.4	1797.0	1740.0	1715.8	1731.6
25.5	1731.8	1806.6	1799.4	1806.6	1731.8	1705.6	1723.4
26.0	1727.2	1799.0	1789.0	1799.0	1727.2	1696.2	1715.6
26.5	1728.0	1780.2	1769.2	1780.2	1728.0	1689.0	1707.8
27.0	1727.0	1768.6	1741.4	1768.6	1727.0	1684.0	1699.4
27.5	1720.4	1763.0	1703.0	1763.0	1720.4	1680.4	1691.0
28.0	1708.4	1747.8	1674.6	1747.8	1708.4	1678.0	1683.0
28.5	1698.6	1725.0	1653.2	1725.0	1698.6	1675.2	1673.4
29.0	1698.2	1701.6	1635.2	1701.6	1698.2	1671.4	1665.8
29.5	1699.4	1666.0	1632.4	1666.0	1699.4	1666.2	1657.4
30.0	1698.6	1641.4	1631.2	1641.4	1698.6	1659.2	1647.8
30.5	1695.0	1628.6	1610.2	1628.6	1695.0	1651.4	1637.8
31.0	1687.8	1613.6	1586.0	1613.6	1687.8	1643.6	1628.8
31.5	1672.2	1604.8	1575.8	1604.8	1672.2	1637.2	1618.8
32.0	1644.2	1594.2	1573.8	1594.2	1644.2	1631.8	1608.4
32.5	1610.2	1574.0	1557.2	1574.0	1610.2	1625.2	1600.0
33.0	1581.8	1547.0	1533.2	1547.0	1581.8	1615.8	1590.8
33.5	1571.4	1532.2	1512.0	1532.2	1571.4	1605.0	1579.4
34.0	1570.2	1528.8	1485.2	1528.8	1570.2	1591.0	1573.0
34.5	1567.6	1521.4	1458.2	1521.4	1567.6	1579.4	1564.8
35.0	1561.0	1494.8	1449.6	1494.8	1561.0	1568.4	1556.8
35.5	1547.8	1473.4	1449.8	1473.4	1547.8	1556.4	1546.2
36.0	1530.4	1459.6	1461.8	1459.6	1530.4	1543.6	1538.8
36.5	1509.6	1446.6	1476.6	1446.6	1509.6	1532.8	1528.4
37.0	1497.2	1432.2	1480.0	1432.2	1497.2	1522.8	1520.0
37.5	1492.4	1421.2	1480.2	1421.2	1492.4	1509.2	1511.8
38.0	1483.2	1416.8	1469.4	1416.8	1483.2	1498.8	1501.4
38.5	1466.6	1420.0	1434.8	1420.0	1466.6	1485.4	1493.6
39.0	1443.2	1429.6	1387.4	1429.6	1443.2	1475.6	1482.6
39.5	1418.0	1431.0	1365.8	1431.0	1418.0	1464.2	1472.0
40.0	1392.2	1429.8	1380.0	1429.8	1392.2	1451.8	1459.2

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**CANDELA TABULATION - (Cont.)**

40.5	1372.8	1421.6	1390.0	1421.6	1372.8	1438.6	1447.8
41.0	1357.2	1381.0	1384.6	1381.0	1357.2	1423.0	1435.6
41.5	1340.2	1328.4	1370.6	1328.4	1340.2	1405.6	1423.2
42.0	1322.4	1300.8	1359.0	1300.8	1322.4	1385.4	1411.4
42.5	1303.0	1300.2	1345.4	1300.2	1303.0	1365.6	1398.4
43.0	1283.0	1301.8	1339.6	1301.8	1283.0	1345.8	1385.6
43.5	1269.2	1301.0	1342.8	1301.0	1269.2	1327.8	1372.8
44.0	1268.0	1296.4	1340.6	1296.4	1268.0	1310.4	1360.0
44.5	1268.2	1282.0	1331.8	1282.0	1268.2	1293.8	1346.8
45.0	1263.2	1265.6	1312.6	1265.6	1263.2	1276.8	1333.2
45.5	1249.0	1255.0	1288.0	1255.0	1249.0	1258.6	1319.0
46.0	1232.0	1245.0	1271.2	1245.0	1232.0	1240.0	1304.4
46.5	1212.8	1234.8	1269.6	1234.8	1212.8	1221.8	1289.0
47.0	1192.8	1225.6	1258.8	1225.6	1192.8	1203.8	1273.0
47.5	1172.4	1211.8	1235.4	1211.8	1172.4	1185.0	1256.4
48.0	1157.6	1192.2	1209.6	1192.2	1157.6	1164.0	1238.6
48.5	1147.4	1177.8	1187.8	1177.8	1147.4	1143.4	1220.0
49.0	1134.4	1172.0	1177.0	1172.0	1134.4	1125.0	1200.8
49.5	1114.4	1163.6	1173.4	1163.6	1114.4	1108.0	1181.6
50.0	1088.4	1145.0	1170.2	1145.0	1088.4	1093.4	1162.6
50.5	1066.8	1123.2	1159.8	1123.2	1066.8	1078.8	1142.8
51.0	1048.2	1099.6	1146.6	1099.6	1048.2	1068.0	1124.0
51.5	1030.6	1082.8	1123.0	1082.8	1030.6	1057.6	1104.8
52.0	1012.8	1079.4	1098.0	1079.4	1012.8	1046.4	1085.2
52.5	995.2	1079.2	1078.6	1079.2	995.2	1033.0	1065.2
53.0	980.2	1070.8	1067.0	1070.8	980.2	1018.0	1044.4
53.5	965.0	1055.2	1061.2	1055.2	965.0	1000.4	1024.0
54.0	944.4	1041.4	1059.8	1041.4	944.4	980.4	1004.0
54.5	922.6	1026.8	1058.4	1026.8	922.6	960.6	983.4
55.0	904.0	1012.8	1068.8	1012.8	904.0	941.4	962.4
55.5	887.8	1008.0	1084.8	1008.0	887.8	922.2	941.6
56.0	875.0	1015.2	1092.8	1015.2	875.0	902.6	920.8
56.5	864.6	1025.6	1097.8	1025.6	864.6	882.4	900.4
57.0	855.6	1026.0	1103.0	1026.0	855.6	862.8	879.8
57.5	844.6	1019.2	1108.2	1019.2	844.6	843.0	859.0
58.0	832.0	1016.6	1109.8	1016.6	832.0	822.8	838.0
58.5	819.4	1012.2	1090.4	1012.2	819.4	803.2	817.2
59.0	808.4	1007.0	1069.0	1007.0	808.4	784.2	796.6
59.5	797.4	1001.4	1053.0	1001.4	797.4	765.6	775.6
60.0	786.0	995.2	1035.2	995.2	786.0	748.2	754.2
60.5	776.8	994.2	1017.6	994.2	776.8	729.8	733.0
61.0	772.4	991.0	1001.2	991.0	772.4	712.2	710.6
61.5	775.0	975.2	980.6	975.2	775.0	694.0	688.0
62.0	780.8	955.0	954.8	955.0	780.8	674.8	665.4
62.5	785.4	935.4	925.8	935.4	785.4	655.8	642.2
63.0	784.6	915.8	893.4	915.8	784.6	637.4	619.8
63.5	781.8	894.4	862.2	894.4	781.8	619.8	597.8
64.0	779.6	873.0	836.0	873.0	779.6	603.2	575.4
64.5	776.4	853.6	818.8	853.6	776.4	587.4	554.2
65.0	771.2	833.2	809.2	833.2	771.2	573.0	532.2
65.5	763.0	810.6	799.4	810.6	763.0	559.4	510.2
66.0	753.6	788.8	779.4	788.8	753.6	546.8	489.0
66.5	740.2	769.2	746.6	769.2	740.2	534.0	467.6
67.0	725.0	750.6	712.6	750.6	725.0	521.4	446.8
67.5	709.6	731.0	686.2	731.0	709.6	509.4	426.2
68.0	694.4	712.8	670.6	712.8	694.4	496.8	406.0

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**CANDELA TABULATION - (Cont.)**

68.5	679.4	692.4	657.4	692.4	679.4	483.8	386.0
69.0	666.0	669.8	639.6	669.8	666.0	470.6	367.0
69.5	655.4	645.0	618.2	645.0	655.4	457.8	348.6
70.0	647.4	620.4	596.6	620.4	647.4	444.8	330.6
70.5	640.2	600.6	576.4	600.6	640.2	432.2	314.0
71.0	630.6	586.0	555.8	586.0	630.6	421.2	297.4
71.5	618.4	573.8	532.0	573.8	618.4	409.6	281.8
72.0	602.8	560.2	508.8	560.2	602.8	398.6	267.0
72.5	585.2	541.8	490.0	541.8	585.2	387.4	252.8
73.0	568.2	523.4	473.2	523.4	568.2	377.4	239.2
73.5	551.4	507.6	454.0	507.6	551.4	367.6	226.0
74.0	534.6	492.8	436.6	492.8	534.6	358.4	213.8
74.5	518.6	476.2	421.4	476.2	518.6	349.2	201.6
75.0	502.2	456.6	406.6	456.6	502.2	340.4	190.0
75.5	486.6	436.2	393.4	436.2	486.6	331.2	179.0
76.0	472.4	414.8	383.0	414.8	472.4	321.8	168.4
76.5	458.8	394.6	375.2	394.6	458.8	312.2	158.2
77.0	447.0	376.0	370.4	376.0	447.0	302.2	148.4
77.5	436.0	360.6	365.4	360.6	436.0	292.6	139.2
78.0	425.0	349.0	358.0	349.0	425.0	282.0	130.2
78.5	414.0	339.0	349.8	339.0	414.0	271.8	121.8
79.0	402.2	329.8	341.6	329.8	402.2	261.6	113.8
79.5	391.2	322.0	334.2	322.0	391.2	251.2	106.0
80.0	380.2	314.0	326.6	314.0	380.2	241.4	98.8
80.5	370.0	307.4	318.2	307.4	370.0	231.8	91.8
81.0	360.8	300.6	310.4	300.6	360.8	223.0	85.4
81.5	352.2	294.0	304.0	294.0	352.2	213.8	79.2
82.0	344.4	288.4	298.0	288.4	344.4	204.8	73.2
82.5	337.4	282.8	292.2	282.8	337.4	196.2	67.8
83.0	331.0	277.2	287.0	277.2	331.0	188.0	62.6
83.5	324.2	271.8	282.0	271.8	324.2	180.6	57.6
84.0	318.6	266.8	275.0	266.8	318.6	173.8	53.2
84.5	312.8	262.6	266.8	262.6	312.8	167.4	49.0
85.0	308.2	259.0	258.0	259.0	308.2	161.8	45.0
85.5	304.0	255.0	249.6	255.0	304.0	156.8	41.4
86.0	300.0	251.4	244.2	251.4	300.0	152.2	38.0
86.5	296.2	247.6	240.2	247.6	296.2	148.4	35.0
87.0	292.0	244.6	237.2	244.6	292.0	144.8	32.2
87.5	288.0	242.0	234.4	242.0	288.0	142.0	29.8
88.0	284.2	240.0	230.8	240.0	284.2	139.8	28.0
88.5	282.6	238.4	227.8	238.4	282.6	138.2	26.0
89.0	280.8	237.0	224.6	237.0	280.8	137.2	24.6
89.5	278.0	235.0	221.0	235.0	278.0	136.6	23.0
90.0	276.6	232.8	217.4	232.8	276.6	136.6	22.2
90.5	271.0	224.8	200.6	224.8	271.0	134.8	17.8
91.0	271.8	225.2	199.2	225.2	271.8	137.0	19.0
91.5	273.0	224.4	199.8	224.4	273.0	140.0	20.4
92.0	276.0	228.0	200.4	228.0	276.0	143.2	22.0
92.5	279.6	234.6	200.4	234.6	279.6	147.0	23.8
93.0	283.0	235.0	202.6	235.0	283.0	151.8	25.8
93.5	285.4	236.4	206.4	236.4	285.4	157.0	28.2
94.0	288.0	239.4	206.6	239.4	288.0	163.0	30.8
94.5	291.2	245.0	207.8	245.0	291.2	169.0	33.8
95.0	295.8	249.4	212.2	249.4	295.8	175.4	37.0
95.5	300.8	254.6	219.4	254.6	300.8	182.4	40.4
96.0	305.0	261.2	224.4	261.2	305.0	189.8	44.4

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**CANDELA TABULATION - (Cont.)**

96.5	309.6	268.8	227.4	268.8	309.6	197.4	48.6
97.0	314.8	274.8	231.2	274.8	314.8	205.8	53.4
97.5	320.4	281.8	236.4	281.8	320.4	214.4	58.2
98.0	326.8	290.0	243.8	290.0	326.8	223.6	63.4
98.5	334.2	299.2	254.2	299.2	334.2	233.2	69.0
99.0	341.8	310.2	265.4	310.2	341.8	242.8	74.8
99.5	350.0	321.8	275.6	321.8	350.0	252.8	81.0
100.0	361.2	332.6	284.2	332.6	361.2	262.4	87.6
100.5	374.0	341.6	291.0	341.6	374.0	272.6	94.8
101.0	388.2	349.6	302.0	349.6	388.2	282.8	102.0
101.5	403.4	356.8	314.8	356.8	403.4	293.6	109.8
102.0	418.0	363.2	327.0	363.2	418.0	305.2	118.2
102.5	432.2	368.6	343.6	368.6	432.2	316.6	127.2
103.0	444.0	375.4	362.8	375.4	444.0	328.6	136.2
103.5	455.6	383.6	381.8	383.6	455.6	339.8	146.0
104.0	469.4	394.6	400.6	394.6	469.4	350.4	156.2
104.5	485.2	409.2	418.8	409.2	485.2	360.6	166.8
105.0	502.0	428.8	433.6	428.8	502.0	370.6	177.8
105.5	520.2	452.8	442.6	452.8	520.2	379.4	189.6
106.0	540.4	477.8	449.8	477.8	540.4	387.4	201.8
106.5	563.0	493.4	455.4	493.4	563.0	394.4	214.6
107.0	587.4	498.2	461.2	498.2	587.4	400.8	227.6
107.5	611.4	498.4	474.4	498.4	611.4	407.0	241.6
108.0	634.4	499.8	490.0	499.8	634.4	414.2	256.0
108.5	656.6	507.4	500.8	507.4	656.6	422.2	270.8
109.0	671.8	522.8	515.4	522.8	671.8	430.4	286.4
109.5	682.4	540.6	533.2	540.6	682.4	439.8	303.0
110.0	689.8	561.2	555.2	561.2	689.8	450.0	319.6
110.5	695.0	584.6	575.8	584.6	695.0	461.0	337.4
111.0	698.4	614.0	587.6	614.0	698.4	472.2	355.8
111.5	702.2	647.4	593.4	647.4	702.2	484.6	375.0
112.0	708.8	683.0	597.0	683.0	708.8	497.0	394.0
112.5	720.4	713.6	604.0	713.6	720.4	510.0	413.8
113.0	734.8	739.4	624.0	739.4	734.8	524.0	434.2
113.5	751.6	759.8	655.8	759.8	751.6	538.0	455.2
114.0	771.2	773.8	697.2	773.8	771.2	552.0	476.2
114.5	796.2	784.6	734.0	784.6	796.2	567.6	497.6
115.0	824.8	793.4	764.8	793.4	824.8	583.0	519.4
115.5	855.4	801.2	786.2	801.2	855.4	598.6	540.6
116.0	881.6	811.8	799.2	811.8	881.6	614.8	561.8
116.5	902.4	818.0	806.8	818.0	902.4	630.8	583.6
117.0	915.0	821.0	815.4	821.0	915.0	645.8	605.2
117.5	916.2	834.0	826.0	834.0	916.2	660.2	627.0
118.0	904.2	863.8	838.0	863.8	904.2	675.8	649.4
118.5	883.8	904.4	851.8	904.4	883.8	691.8	671.4
119.0	862.4	945.4	871.2	945.4	862.4	709.0	693.2
119.5	843.0	981.6	892.4	981.6	843.0	725.6	715.0
120.0	829.6	1018.6	905.0	1018.6	829.6	742.2	736.2
120.5	825.6	1054.2	919.6	1054.2	825.6	759.4	757.0
121.0	826.6	1082.4	952.0	1082.4	826.6	776.6	778.0
121.5	833.0	1108.0	1000.4	1108.0	833.0	794.2	799.4
122.0	844.0	1128.0	1048.4	1128.0	844.0	812.6	820.0
122.5	856.2	1141.0	1088.4	1141.0	856.2	831.8	841.4
123.0	868.4	1154.2	1128.8	1154.2	868.4	851.0	861.2
123.5	879.6	1171.6	1169.4	1171.6	879.6	871.2	881.2
124.0	888.0	1177.6	1202.8	1177.6	888.0	891.6	901.6

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**CANDELA TABULATION - (Cont.)**

124.5	891.8	1179.0	1234.4	1179.0	891.8	911.8	921.4
125.0	896.2	1173.0	1256.4	1173.0	896.2	931.2	941.0
125.5	909.0	1153.4	1261.4	1153.4	909.0	948.4	960.4
126.0	932.6	1143.6	1263.2	1143.6	932.6	965.4	980.0
126.5	958.0	1148.8	1263.2	1148.8	958.0	981.4	999.2
127.0	979.0	1155.6	1254.4	1155.6	979.0	997.6	1020.0
127.5	992.4	1152.0	1235.8	1152.0	992.4	1013.6	1040.6
128.0	1005.6	1130.2	1211.6	1130.2	1005.6	1030.0	1061.4
128.5	1024.0	1112.2	1186.6	1112.2	1024.0	1044.4	1082.2
129.0	1040.0	1110.4	1180.8	1110.4	1040.0	1058.4	1103.2
129.5	1050.2	1115.6	1196.6	1115.6	1050.2	1072.6	1124.4
130.0	1062.0	1125.4	1221.8	1125.4	1062.0	1088.8	1144.2
130.5	1078.6	1135.4	1229.2	1135.4	1078.6	1105.8	1164.0
131.0	1099.0	1146.2	1212.4	1146.2	1099.0	1123.0	1182.6
131.5	1125.6	1159.6	1194.2	1159.6	1125.6	1138.0	1201.0
132.0	1158.8	1171.0	1192.6	1171.0	1158.8	1151.6	1218.2
132.5	1193.8	1183.4	1208.0	1183.4	1193.8	1163.6	1235.0
133.0	1223.4	1193.8	1222.8	1193.8	1223.4	1174.4	1251.2
133.5	1244.4	1191.0	1225.8	1191.0	1244.4	1187.6	1267.6
134.0	1256.0	1179.0	1226.8	1179.0	1256.0	1201.6	1282.4
134.5	1259.4	1181.2	1228.2	1181.2	1259.4	1219.8	1298.4
135.0	1258.6	1200.0	1244.2	1200.0	1258.6	1238.0	1313.6
135.5	1257.8	1214.8	1269.2	1214.8	1257.8	1257.2	1328.4
136.0	1270.0	1222.8	1285.2	1222.8	1270.0	1274.6	1342.8
136.5	1300.4	1224.0	1277.4	1224.0	1300.4	1288.8	1356.8
137.0	1333.4	1224.8	1265.0	1224.8	1333.4	1301.2	1370.6
137.5	1354.0	1232.4	1269.8	1232.4	1354.0	1313.2	1384.0
138.0	1371.4	1244.6	1279.0	1244.6	1371.4	1326.4	1397.6
138.5	1390.0	1254.6	1285.2	1254.6	1390.0	1341.4	1409.8
139.0	1413.4	1267.8	1287.2	1267.8	1413.4	1356.4	1422.0
139.5	1433.8	1290.2	1289.0	1290.2	1433.8	1374.2	1433.0
140.0	1443.8	1332.2	1295.0	1332.2	1443.8	1389.2	1442.8
140.5	1442.8	1406.2	1311.4	1406.2	1442.8	1401.6	1453.8
141.0	1448.0	1489.4	1328.4	1489.4	1448.0	1408.6	1465.4
141.5	1462.0	1545.6	1339.2	1545.6	1462.0	1415.6	1475.4
142.0	1473.4	1553.8	1354.2	1553.8	1473.4	1423.2	1484.0
142.5	1477.4	1541.6	1396.8	1541.6	1477.4	1434.6	1496.8
143.0	1491.4	1521.0	1473.8	1521.0	1491.4	1448.6	1504.8
143.5	1513.0	1513.0	1558.4	1513.0	1513.0	1463.4	1512.6
144.0	1529.4	1528.4	1602.4	1528.4	1529.4	1478.6	1520.6
144.5	1536.0	1553.6	1607.0	1553.6	1536.0	1495.0	1531.8
145.0	1532.0	1561.0	1588.8	1561.0	1532.0	1513.2	1540.8
145.5	1526.6	1545.0	1562.4	1545.0	1526.6	1535.0	1551.4
146.0	1530.4	1538.6	1555.0	1538.6	1530.4	1562.0	1560.6
146.5	1544.0	1567.4	1579.2	1567.4	1544.0	1588.6	1571.6
147.0	1572.4	1608.0	1610.2	1608.0	1572.4	1615.4	1581.6
147.5	1605.0	1635.0	1605.2	1635.0	1605.0	1635.4	1591.0
148.0	1626.6	1641.2	1586.0	1641.2	1626.6	1650.4	1600.6
148.5	1633.0	1640.8	1592.6	1640.8	1633.0	1662.6	1610.6
149.0	1633.8	1632.0	1631.4	1632.0	1633.8	1677.2	1620.0
149.5	1636.8	1614.6	1665.2	1614.6	1636.8	1693.4	1628.4
150.0	1647.4	1612.6	1671.8	1612.6	1647.4	1710.2	1638.2
150.5	1667.2	1634.8	1676.2	1634.8	1667.2	1729.4	1645.6
151.0	1689.4	1657.8	1668.8	1657.8	1689.4	1748.6	1654.0
151.5	1705.4	1671.2	1651.4	1671.2	1705.4	1766.8	1661.8
152.0	1713.6	1670.8	1647.0	1670.8	1713.6	1781.0	1669.8

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**CANDELA TABULATION - (Cont.)**

152.5	1716.2	1660.2	1665.4	1660.2	1716.2	1790.8	1677.6
153.0	1724.0	1660.8	1688.8	1660.8	1724.0	1800.0	1684.8
153.5	1735.8	1697.8	1697.8	1697.8	1735.8	1807.2	1693.2
154.0	1752.2	1745.2	1693.6	1745.2	1752.2	1813.0	1700.0
154.5	1769.8	1765.8	1683.6	1765.8	1769.8	1817.0	1708.8
155.0	1782.4	1757.4	1693.4	1757.4	1782.4	1820.8	1716.6
155.5	1790.6	1750.6	1741.8	1750.6	1790.6	1821.0	1723.8
156.0	1797.8	1770.2	1786.2	1770.2	1797.8	1818.8	1731.4
156.5	1811.6	1798.8	1785.6	1798.8	1811.6	1816.6	1739.2
157.0	1825.4	1812.4	1771.4	1812.4	1825.4	1813.2	1746.4
157.5	1831.6	1809.0	1778.4	1809.0	1831.6	1806.0	1753.4
158.0	1831.8	1805.0	1812.2	1805.0	1831.8	1797.8	1759.4
158.5	1831.0	1823.4	1833.8	1823.4	1831.0	1791.0	1764.4
159.0	1833.6	1856.8	1829.8	1856.8	1833.6	1787.2	1769.8
159.5	1839.8	1884.4	1819.8	1884.4	1839.8	1790.4	1776.8
160.0	1847.8	1898.8	1836.4	1898.8	1847.8	1797.4	1783.2
160.5	1849.4	1902.2	1876.0	1902.2	1849.4	1806.0	1790.0
161.0	1851.4	1903.8	1906.6	1903.8	1851.4	1813.6	1797.6
161.5	1856.4	1908.4	1918.8	1908.4	1856.4	1817.2	1804.8
162.0	1869.8	1914.2	1923.4	1914.2	1869.8	1816.6	1811.4
162.5	1891.0	1911.8	1923.8	1911.8	1891.0	1816.8	1818.0
163.0	1917.2	1909.6	1925.8	1909.6	1917.2	1820.2	1824.4
163.5	1937.8	1911.8	1927.2	1911.8	1937.8	1830.8	1830.0
164.0	1939.4	1914.2	1923.6	1914.2	1939.4	1845.4	1835.2
164.5	1930.6	1912.4	1923.8	1912.4	1930.6	1861.6	1839.6
165.0	1928.8	1905.4	1927.0	1905.4	1928.8	1875.0	1843.8
165.5	1938.8	1902.8	1925.8	1902.8	1938.8	1883.8	1848.2
166.0	1944.4	1912.0	1915.2	1912.0	1944.4	1889.8	1852.0
166.5	1933.6	1931.0	1911.4	1931.0	1933.6	1892.8	1856.0
167.0	1916.0	1955.8	1917.2	1955.8	1916.0	1896.4	1861.2
167.5	1901.8	1964.8	1936.0	1964.8	1901.8	1901.4	1866.2
168.0	1893.6	1951.6	1963.6	1951.6	1893.6	1906.6	1870.4
168.5	1886.2	1950.8	1968.4	1950.8	1886.2	1913.8	1875.2
169.0	1886.4	1960.2	1953.8	1960.2	1886.4	1918.8	1880.0
169.5	1891.8	1950.4	1957.6	1950.4	1891.8	1922.8	1884.4
170.0	1895.6	1927.0	1965.6	1927.0	1895.6	1925.2	1889.0
170.5	1901.2	1913.4	1941.8	1913.4	1901.2	1927.0	1891.8
171.0	1917.8	1903.2	1922.2	1903.2	1917.8	1928.8	1895.4
171.5	1938.4	1902.6	1910.6	1902.6	1938.4	1925.6	1897.4
172.0	1946.2	1908.2	1902.4	1908.2	1946.2	1921.6	1898.8
172.5	1943.4	1916.4	1909.8	1916.4	1943.4	1915.2	1901.0
173.0	1942.4	1934.2	1916.6	1934.2	1942.4	1907.4	1904.2
173.5	1947.0	1954.2	1933.0	1954.2	1947.0	1902.8	1904.8
174.0	1952.4	1955.2	1958.6	1955.2	1952.4	1897.6	1906.4
174.5	1954.8	1951.2	1958.0	1951.2	1954.8	1896.4	1908.6
175.0	1951.2	1957.0	1952.4	1957.0	1951.2	1899.0	1910.6
175.5	1942.0	1961.6	1961.6	1961.6	1942.0	1903.2	1912.4
176.0	1923.4	1959.0	1961.6	1959.0	1923.4	1908.0	1913.6
176.5	1906.0	1947.0	1955.6	1947.0	1906.0	1914.4	1914.8
177.0	1901.0	1920.2	1934.0	1920.2	1901.0	1919.0	1916.4
177.5	1908.4	1902.2	1904.0	1902.2	1908.4	1923.4	1916.6
178.0	1920.2	1910.8	1904.8	1910.8	1920.2	1927.0	1918.0
178.5	1927.0	1927.0	1926.4	1927.0	1927.0	1929.0	1918.4
179.0	1929.0	1931.6	1930.8	1931.6	1929.0	1933.2	1920.0
179.5	1932.6	1933.4	1930.4	1933.4	1932.6	1937.4	1919.2
180.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 16K 360P-4-URD-835-U10-CA.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	747.35	N.A.	4.60
0-30	1630.77	N.A.	10.00
0-40	2763.25	N.A.	17.00
0-60	5239.13	N.A.	32.20
0-80	7324.65	N.A.	45.10
0-90	8121.83	N.A.	50.00
10-90	7934.96	N.A.	48.80
20-40	2015.9	N.A.	12.40
20-50	3255.78	N.A.	20.00
40-70	3615.89	N.A.	22.20
60-80	2085.53	N.A.	12.80
70-80	945.51	N.A.	5.80
80-90	797.17	N.A.	4.90
90-110	1744.83	N.A.	10.70
90-120	2887.51	N.A.	17.80
90-130	4131.45	N.A.	25.40
90-150	6501.13	N.A.	40.00
90-180	8136.49	N.A.	50.00
110-180	6391.66	N.A.	39.30
0-180	16258.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	186.86
10-20	560.49
20-30	883.43
30-40	1132.48
40-50	1239.88
50-60	1236.00
60-70	1140.02
70-80	945.51
80-90	797.17
90-100	797.85
100-110	946.98
110-120	1142.68
120-130	1243.94
130-140	1233.29
140-150	1136.39
150-160	888.74
160-170	559.45
170-180	187.17

**IES INDOOR REPORT**  
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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	90	86	81	88	83	79	75	70	67	64	57	55	53	46	44	43	38
2	86	78	71	65	79	72	65	60	60	55	51	49	46	43	39	37	35	30
3	78	68	59	53	71	62	55	49	52	47	42	43	39	35	34	31	29	24
4	71	59	51	44	65	55	47	41	46	40	35	38	33	30	30	27	24	20
5	65	53	44	37	59	49	41	35	41	35	30	34	29	25	27	23	21	17
6	60	47	38	32	55	43	36	30	37	30	26	30	25	22	24	21	18	15
7	55	42	34	28	50	39	32	26	33	27	23	27	23	19	22	18	16	13
8	51	38	30	25	47	35	28	23	30	24	20	25	20	17	20	17	14	11
9	48	35	27	22	44	32	25	20	27	22	18	23	18	15	19	15	12	10
10	44	32	24	19	41	30	23	18	25	20	16	21	17	13	17	14	11	9



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 16K 360P-4-URD-835-U10-CA.IES**

**UGR TABLE - CORRECTED**

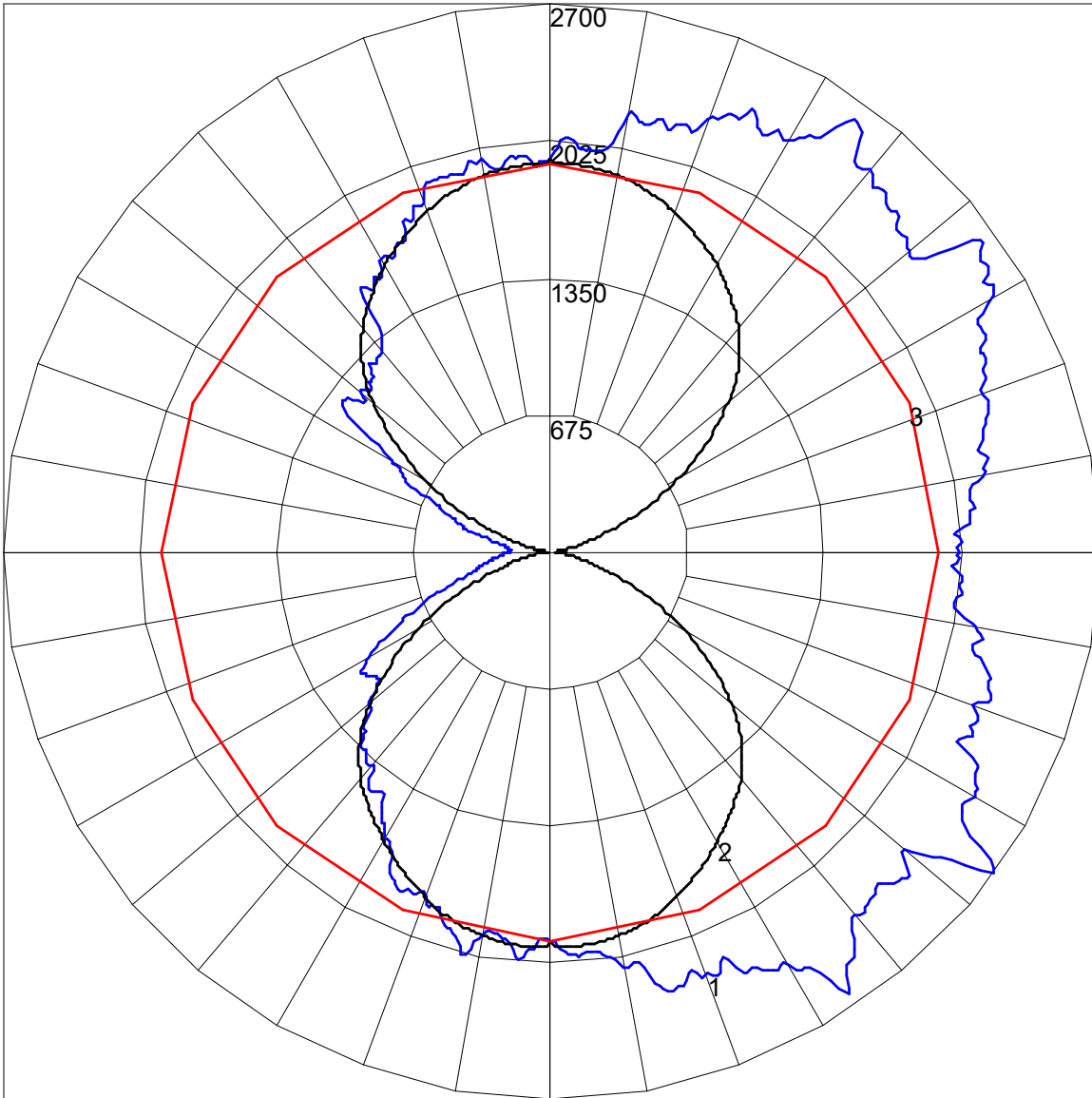
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.4	14.3	14.3	15.3	16.6	20.9	21.8	21.8	22.8	24.0
	3H	14.3	15.2	15.3	16.1	17.4	23.8	24.7	24.8	25.6	26.9
	4H	14.6	15.4	15.5	16.3	17.6	25.5	26.3	26.4	27.3	28.6
	6H	14.6	15.4	15.6	16.4	17.7	27.2	28.0	28.2	29.0	30.3
	8H	14.6	15.4	15.6	16.4	17.7	28.1	28.8	29.1	29.8	31.1
	12H	14.6	15.3	15.6	16.3	17.6	29.1	29.8	30.1	30.8	32.1
4H	2H	15.1	15.9	16.1	16.9	18.2	21.1	21.9	22.0	22.9	24.2
	3H	16.5	17.1	17.4	18.2	19.5	24.3	25.0	25.3	26.0	27.3
	4H	16.8	17.5	17.8	18.5	19.8	26.1	26.8	27.1	27.8	29.1
	6H	17.1	17.6	18.1	18.7	20.0	28.1	28.7	29.1	29.7	31.0
	8H	17.1	17.7	18.1	18.7	20.0	29.1	29.6	30.1	30.7	32.0
	12H	17.1	17.6	18.1	18.6	20.0	30.2	30.7	31.2	31.7	33.1
8H	4H	18.5	19.0	19.5	20.0	21.4	26.3	26.8	27.3	27.8	29.2
	6H	19.0	19.5	20.1	20.5	21.9	28.5	28.9	29.5	30.0	31.3
	8H	19.2	19.6	20.2	20.6	22.0	29.6	30.0	30.6	31.0	32.4
	12H	19.3	19.6	20.3	20.7	22.1	30.9	31.2	31.9	32.3	33.7
12H	4H	19.0	19.5	20.0	20.5	21.9	26.2	26.7	27.3	27.8	29.1
	6H	19.8	20.2	20.9	21.3	22.6	28.5	28.9	29.5	29.9	31.3
	8H	20.1	20.5	21.2	21.5	22.9	29.7	30.0	30.7	31.1	32.5

Maximum UGR = 33.7

POLAR GRAPH



Maximum Candela = 2700 Located At Horizontal Angle = 90, Vertical Angle = 54  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Horizontal Cone Through Vertical Angle (0)