



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : 770-48LED56DMV40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLI-15121-1  
 [TESTLAB] LightLab International (www.LightLabInt.com)  
 [MANUFAC] Mobern Lighting Company, Jessup, MD 20794  
 [LUMCAT] 770-48LED56DMV40  
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 770-48LED56DMV40  
 [MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.  
 [MORE] 128 LEDs with single row of 32 on each of four white PCBs. Marked "M10CC830D32N2S"  
 [MORE] One Universal Everline driver. Model: D10CC55UNVTZ-C with dimming disconnected. Marked "1050"  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 8m.  
 [MORE] This IES file was extrapolated from LLI-15121-1  
 [ISSUE DATE] This file created: June 15, 2016

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.04 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7108	6237	6010
55	5621	4391	3790
65	3515	2932	2378
75	2427	2112	2001
85	1728	1921	2425

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**CANDELA TABULATION**

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
<b>0.0</b>	2248.131	2248.131	2248.131	2248.131	2248.131	2248.131	2248.131	2248.131	2248.131	2248.131
<b>0.5</b>	2236.644	2246.562	2249.587	2252.089	2252.135	2249.474	2249.201	2249.837	2248.882	2249.474
<b>1.0</b>	2236.257	2246.858	2250.770	2252.112	2252.886	2249.655	2250.770	2251.680	2249.883	2251.362
<b>1.5</b>	2238.259	2248.541	2252.135	2254.000	2255.228	2251.407	2252.840	2253.454	2252.931	2254.091
<b>2.0</b>	2240.147	2251.134	2254.592	2255.797	2257.640	2255.024	2256.912	2256.821	2257.230	2259.960
<b>2.5</b>	2243.218	2253.955	2256.753	2258.686	2260.392	2258.550	2261.984	2262.098	2264.646	2265.669
<b>3.0</b>	2245.607	2255.911	2260.642	2262.326	2264.487	2263.554	2266.966	2268.649	2270.060	2272.744
<b>3.5</b>	2247.904	2258.368	2262.280	2264.191	2268.285	2269.195	2272.152	2274.222	2276.656	2278.885
<b>4.0</b>	2247.449	2258.663	2263.167	2267.034	2271.311	2274.018	2277.452	2279.386	2282.434	2284.345
<b>4.5</b>	2246.130	2257.253	2265.578	2267.398	2274.859	2278.521	2283.298	2284.913	2287.143	2290.987
<b>5.0</b>	2244.947	2256.184	2265.260	2268.012	2277.179	2281.911	2287.097	2290.395	2293.352	2296.219
<b>5.5</b>	2242.604	2254.296	2264.964	2269.491	2278.726	2284.709	2289.622	2294.717	2298.630	2302.861
<b>6.0</b>	2240.352	2252.453	2265.055	2269.354	2280.728	2287.325	2294.376	2298.243	2304.567	2308.661
<b>6.5</b>	2235.257	2248.882	2265.351	2270.287	2283.321	2289.781	2296.742	2302.747	2309.912	2312.847
<b>7.0</b>	2231.253	2244.856	2264.600	2268.490	2284.254	2293.466	2300.791	2306.136	2312.824	2314.621
<b>7.5</b>	2227.682	2241.762	2262.644	2267.626	2284.527	2294.672	2302.610	2309.435	2313.324	2314.553
<b>8.0</b>	2223.110	2238.464	2261.620	2267.580	2284.049	2297.219	2305.181	2308.911	2311.323	2310.731
<b>8.5</b>	2219.584	2235.279	2260.301	2266.625	2284.026	2298.653	2305.681	2308.866	2306.728	2305.522
<b>9.0</b>	2214.557	2232.277	2259.164	2265.829	2284.640	2297.470	2303.748	2305.113	2301.291	2296.423
<b>9.5</b>	2211.372	2229.092	2258.186	2264.305	2284.595	2296.583	2300.654	2301.200	2292.966	2287.279
<b>10.0</b>	2208.051	2226.817	2255.570	2264.214	2284.868	2295.195	2295.764	2295.036	2282.593	2274.859
<b>10.5</b>	2203.161	2222.837	2253.363	2260.392	2281.933	2291.828	2289.122	2286.437	2271.811	2260.301
<b>11.0</b>	2198.384	2219.129	2250.929	2258.504	2279.340	2286.164	2282.457	2276.747	2257.526	2243.650
<b>11.5</b>	2192.833	2215.717	2247.654	2255.024	2276.429	2279.704	2273.381	2265.510	2243.355	2226.567
<b>12.0</b>	2187.147	2211.986	2243.969	2252.977	2273.745	2270.901	2263.895	2253.386	2227.159	2210.963
<b>12.5</b>	2182.506	2207.915	2241.421	2249.997	2269.491	2262.030	2252.158	2241.808	2211.577	2195.859
<b>13.0</b>	2179.345	2205.958	2239.579	2247.244	2265.487	2252.317	2240.716	2227.500	2196.905	2183.371
<b>13.5</b>	2175.750	2202.683	2237.918	2246.289	2261.734	2241.671	2226.931	2212.123	2184.736	2172.520
<b>14.0</b>	2172.634	2201.068	2236.599	2245.470	2256.366	2229.957	2212.919	2198.043	2173.430	2164.968
<b>14.5</b>	2167.812	2198.611	2237.236	2244.901	2250.929	2217.946	2198.497	2184.599	2165.014	2158.872
<b>15.0</b>	2161.352	2194.540	2236.167	2242.922	2245.129	2205.936	2186.578	2171.702	2158.372	2157.121
<b>15.5</b>	2151.889	2190.763	2234.665	2240.238	2237.076	2192.924	2174.272	2161.966	2153.549	2158.008
<b>16.0</b>	2143.950	2184.417	2231.776	2236.098	2226.658	2181.233	2162.876	2152.412	2151.593	2161.579
<b>16.5</b>	2134.669	2179.845	2227.545	2231.185	2216.081	2168.130	2150.638	2143.404	2152.822	2167.061
<b>17.0</b>	2126.503	2174.477	2222.336	2223.838	2204.662	2154.891	2139.537	2135.989	2153.891	2173.157
<b>17.5</b>	2117.518	2168.744	2217.059	2217.400	2194.176	2142.494	2128.437	2129.438	2157.007	2181.142
<b>18.0</b>	2111.854	2163.376	2211.213	2209.985	2182.097	2130.689	2120.612	2125.070	2160.737	2186.737
<b>18.5</b>	2105.667	2158.213	2204.116	2201.022	2169.427	2119.747	2113.901	2122.545	2163.012	2189.831
<b>19.0</b>	2100.003	2154.073	2196.291	2191.105	2157.257	2110.808	2107.669	2120.339	2166.333	2190.036
<b>19.5</b>	2094.794	2149.114	2187.306	2181.619	2145.611	2102.414	2104.370	2120.544	2168.380	2186.487
<b>20.0</b>	2090.790	2143.154	2178.503	2169.973	2132.850	2095.636	2102.164	2122.659	2167.084	2180.072
<b>20.5</b>	2085.786	2137.922	2169.154	2160.010	2119.270	2090.586	2100.617	2125.434	2164.309	2169.563
<b>21.0</b>	2079.986	2131.030	2159.236	2148.022	2106.804	2086.014	2100.958	2126.822	2158.599	2156.302
<b>21.5</b>	2074.936	2125.684	2148.295	2136.444	2094.680	2081.555	2101.845	2126.776	2150.615	2141.357
<b>22.0</b>	2068.794	2119.315	2137.308	2124.911	2082.078	2078.166	2100.936	2124.934	2137.445	2124.501
<b>22.5</b>	2061.788	2114.516	2126.208	2111.149	2069.931	2074.253	2099.662	2119.065	2125.093	2106.122
<b>23.0</b>	2053.349	2107.737	2115.175	2100.299	2058.945	2069.522	2096.409	2112.309	2107.350	2086.127
<b>23.5</b>	2042.817	2101.618	2104.029	2087.196	2047.048	2065.860	2092.747	2103.711	2088.652	2067.156
<b>24.0</b>	2033.036	2096.363	2092.292	2075.300	2037.858	2063.267	2088.243	2094.180	2071.592	2051.302
<b>24.5</b>	2023.801	2088.197	2078.894	2062.129	2028.395	2058.581	2081.646	2081.669	2055.009	2037.835
<b>25.0</b>	2012.768	2080.213	2064.950	2048.595	2020.025	2054.827	2074.731	2068.521	2039.951	2026.007
<b>25.5</b>	2001.827	2070.341	2051.302	2035.720	2013.360	2050.506	2065.837	2054.350	2026.689	2017.591
<b>26.0</b>	1992.068	2059.127	2036.721	2022.436	2007.900	2046.957	2055.237	2039.541	2014.975	2011.767
<b>26.5</b>	1984.880	2047.935	2022.481	2009.151	2000.553	2041.429	2042.863	2023.892	2005.444	2005.694

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27.0	1977.351	2035.038	2009.083	1995.662	1994.775	2033.991	2029.374	2007.946	1995.822	2002.054
27.5	1968.298	2022.618	1994.980	1982.833	1987.815	2024.642	2014.588	1994.639	1988.270	1995.594
28.0	1960.427	2010.357	1980.149	1969.299	1979.740	2013.542	1999.984	1981.514	1979.535	1990.635
28.5	1950.100	1997.732	1965.568	1955.719	1971.778	2001.167	1985.699	1969.708	1969.117	1981.810
29.0	1942.002	1984.471	1951.738	1942.184	1962.406	1986.495	1973.143	1958.357	1959.154	1971.096
29.5	1929.719	1972.961	1937.339	1930.015	1951.374	1972.665	1959.427	1947.962	1947.894	1957.902
30.0	1919.983	1961.155	1925.261	1917.504	1941.343	1956.037	1945.801	1937.862	1935.315	1944.436
30.5	1908.519	1949.736	1914.046	1906.926	1931.493	1941.229	1932.312	1926.694	1921.143	1930.993
31.0	1898.305	1939.182	1902.786	1897.873	1921.644	1926.580	1918.596	1913.455	1907.996	1918.095
31.5	1889.184	1926.807	1890.958	1887.682	1909.679	1910.930	1903.856	1900.057	1895.053	1906.153
32.0	1878.629	1915.388	1880.312	1876.605	1898.442	1896.599	1889.207	1885.499	1883.656	1896.850
32.5	1868.916	1901.490	1867.369	1866.460	1885.567	1880.244	1874.375	1872.055	1872.942	1885.135
33.0	1857.406	1889.684	1856.155	1854.472	1874.171	1864.503	1858.703	1858.407	1863.753	1874.785
33.5	1847.056	1875.240	1843.394	1842.712	1862.570	1848.353	1842.598	1846.306	1852.811	1864.117
34.0	1833.545	1859.999	1830.155	1830.565	1850.491	1831.998	1827.244	1834.227	1842.552	1854.517
34.5	1819.305	1844.986	1815.870	1817.190	1838.845	1816.985	1813.323	1821.398	1831.725	1844.054
35.0	1804.428	1830.019	1800.812	1802.904	1826.902	1801.062	1800.243	1808.682	1821.193	1831.952
35.5	1791.895	1813.618	1784.684	1787.073	1814.414	1785.503	1788.369	1794.261	1808.955	1817.963
36.0	1779.998	1797.036	1769.444	1773.220	1800.061	1768.397	1774.812	1781.818	1795.989	1803.041
36.5	1766.304	1780.908	1753.976	1759.503	1785.457	1753.248	1761.869	1768.374	1783.524	1785.185
37.0	1754.726	1766.759	1739.986	1744.763	1769.808	1737.734	1747.788	1753.816	1768.215	1763.802
37.5	1741.146	1752.429	1726.725	1731.297	1753.725	1722.880	1732.002	1739.963	1751.291	1741.328
38.0	1727.544	1736.984	1712.235	1717.558	1736.802	1708.027	1717.330	1724.450	1732.912	1719.855
38.5	1711.143	1719.377	1697.017	1703.364	1719.286	1692.968	1701.089	1710.188	1712.872	1695.994
39.0	1696.266	1701.658	1680.548	1689.056	1700.702	1678.342	1686.281	1693.992	1691.330	1674.771
39.5	1679.434	1684.802	1664.898	1672.723	1682.186	1662.851	1668.993	1678.228	1670.153	1655.731
40.0	1663.693	1666.331	1647.087	1656.732	1664.102	1645.905	1652.069	1661.623	1648.202	1635.145
40.5	1646.701	1648.452	1629.413	1639.854	1645.381	1629.163	1636.214	1644.699	1626.206	1615.242
41.0	1633.144	1631.506	1613.809	1623.931	1626.774	1611.648	1619.837	1626.774	1605.301	1594.974
41.5	1619.040	1613.831	1597.726	1605.870	1605.984	1593.928	1602.958	1606.484	1583.874	1574.798
42.0	1602.276	1597.772	1581.622	1588.696	1586.398	1576.140	1585.716	1584.556	1561.604	1553.415
42.5	1586.558	1578.983	1564.311	1570.089	1567.814	1558.738	1566.449	1562.560	1539.358	1532.261
43.0	1566.700	1559.307	1545.454	1550.936	1547.797	1538.812	1545.317	1537.856	1515.815	1510.355
43.5	1547.979	1539.585	1526.415	1530.213	1525.846	1519.136	1521.092	1512.175	1490.793	1487.881
44.0	1528.394	1517.270	1507.466	1511.424	1504.578	1498.208	1497.890	1486.221	1465.635	1465.612
44.5	1507.694	1496.821	1487.426	1491.362	1481.899	1473.278	1472.254	1459.175	1439.703	1442.592
45.0	1488.837	1476.644	1467.113	1472.300	1459.629	1449.098	1446.413	1429.808	1411.747	1417.093
45.5	1467.932	1454.921	1446.436	1451.759	1436.268	1424.690	1418.389	1400.715	1386.202	1391.889
46.0	1444.275	1432.697	1425.054	1431.196	1410.314	1398.122	1388.886	1370.097	1358.974	1364.433
46.5	1421.301	1408.904	1405.082	1409.472	1385.838	1372.076	1357.655	1339.457	1332.246	1335.567
47.0	1397.052	1384.769	1383.109	1386.270	1359.861	1343.984	1327.151	1310.705	1305.359	1306.747
47.5	1371.940	1360.862	1359.247	1363.933	1332.633	1314.640	1296.238	1281.066	1277.813	1276.789
48.0	1348.215	1339.571	1334.589	1338.775	1305.723	1283.522	1266.303	1251.927	1250.357	1246.990
48.5	1324.944	1315.732	1309.749	1313.048	1277.312	1252.518	1235.185	1223.629	1222.401	1217.283
49.0	1300.173	1292.484	1283.704	1286.366	1248.446	1223.265	1205.273	1196.037	1194.308	1186.620
49.5	1273.582	1270.124	1258.228	1257.909	1219.353	1193.148	1176.043	1169.446	1165.397	1155.002
50.0	1248.560	1246.422	1232.614	1228.725	1189.099	1164.191	1147.859	1141.217	1137.054	1124.020
50.5	1220.740	1222.287	1204.931	1199.017	1160.165	1134.552	1119.676	1113.784	1106.528	1090.423
51.0	1194.240	1197.652	1177.931	1169.150	1129.502	1106.346	1091.697	1086.601	1077.161	1058.600
51.5	1166.603	1171.448	1148.564	1139.465	1100.818	1077.366	1064.309	1057.781	1046.453	1026.686
52.0	1139.283	1144.174	1118.652	1110.054	1073.317	1048.250	1037.127	1030.348	1015.790	994.499
52.5	1111.987	1116.946	1088.057	1080.505	1045.043	1020.317	1009.171	1000.913	984.672	961.880
53.0	1084.076	1088.535	1059.487	1050.456	1017.132	991.724	980.782	971.684	954.032	929.715
53.5	1056.143	1059.942	1028.801	1021.613	988.903	963.813	953.031	943.227	922.391	898.802
54.0	1027.800	1030.803	999.230	992.315	961.766	935.402	926.212	914.884	892.319	868.594
54.5	998.502	1001.573	971.866	962.630	934.401	908.925	898.893	885.973	860.906	838.386

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**CANDELA TABULATION - (Cont.)**

55.0	968.090	969.841	942.545	933.264	908.083	881.856	870.391	857.243	832.244	810.066
55.5	938.154	938.996	915.135	905.535	881.037	855.856	843.345	830.516	802.582	782.383
56.0	907.742	908.947	886.178	875.850	853.945	828.832	816.435	803.447	774.740	757.225
56.5	876.214	878.466	858.381	849.123	829.515	804.470	790.413	778.175	748.672	731.111
57.0	845.756	848.190	830.993	821.781	804.334	779.107	764.595	752.789	723.491	707.818
57.5	816.390	818.346	803.970	796.190	779.380	755.792	740.597	728.291	699.607	685.276
58.0	784.135	788.752	778.175	770.896	756.292	732.294	716.576	705.748	677.155	663.439
58.5	755.837	759.977	752.016	745.601	733.500	709.297	693.761	682.478	655.364	642.034
59.0	725.766	732.021	727.654	722.013	710.298	687.437	672.310	660.960	635.756	622.449
59.5	697.332	704.042	703.201	698.560	688.643	665.122	651.520	639.122	616.171	602.136
60.0	670.559	678.293	679.999	676.655	667.488	644.673	630.661	620.606	597.814	583.324
60.5	644.036	651.997	656.319	654.613	646.834	624.906	611.803	601.180	578.433	564.899
61.0	618.559	627.658	634.755	633.117	625.565	606.139	593.810	582.573	561.441	546.724
61.5	595.448	603.410	612.759	611.963	606.208	587.805	575.340	566.082	544.313	528.140
62.0	573.338	580.503	591.308	590.944	586.759	570.040	558.029	548.589	527.708	511.102
62.5	550.614	558.917	570.222	571.837	568.038	551.728	541.856	532.666	510.852	495.794
63.0	530.415	537.944	550.227	551.933	550.295	534.896	525.433	516.425	494.929	479.962
63.5	509.942	517.494	530.506	532.962	532.644	519.678	509.647	500.548	479.871	464.425
64.0	490.835	498.728	511.648	514.696	515.583	503.687	494.702	485.330	464.607	448.548
64.5	473.502	479.984	493.041	496.726	498.842	488.697	478.938	469.521	449.936	433.399
65.0	455.986	462.401	474.707	478.893	482.782	474.411	464.812	455.577	435.423	418.727
65.5	440.814	444.454	457.283	462.765	467.314	459.057	450.755	440.678	421.138	406.330
66.0	423.140	427.757	441.519	445.909	451.869	445.591	436.629	426.461	407.990	393.136
66.5	407.262	411.698	425.414	430.146	436.879	431.715	423.276	414.746	394.205	381.262
67.0	393.205	395.730	409.924	414.564	422.730	418.386	410.242	400.529	381.194	370.116
67.5	377.828	381.399	394.478	399.983	408.536	404.806	397.663	387.768	369.821	358.652
68.0	363.611	365.908	380.717	385.653	394.933	392.477	385.084	374.939	357.560	347.779
68.5	349.735	351.828	365.203	371.709	382.195	379.784	373.028	362.724	347.483	336.428
69.0	335.336	338.521	351.828	358.606	368.046	367.819	360.699	350.145	336.747	326.442
69.5	323.599	324.918	339.067	345.026	355.945	356.059	349.530	340.682	325.578	315.956
70.0	310.883	311.406	325.783	331.742	342.524	344.208	337.543	329.308	315.819	306.357
70.5	297.303	299.123	314.386	318.822	331.810	331.742	325.964	318.276	306.402	297.531
71.0	285.816	286.794	301.443	308.085	320.141	320.460	315.137	308.950	296.985	287.977
71.5	273.760	274.693	289.410	294.938	308.495	308.768	306.015	299.100	287.613	279.674
72.0	262.705	263.092	278.992	284.178	297.826	299.237	295.484	289.888	278.651	271.918
72.5	251.900	252.173	267.823	272.623	286.339	287.841	284.861	280.289	270.712	264.161
73.0	241.528	239.981	256.700	262.523	275.216	276.945	275.398	271.576	263.092	258.110
73.5	229.904	231.087	246.600	252.082	264.411	267.778	266.208	262.455	256.359	251.946
74.0	220.282	220.509	236.751	242.347	255.540	257.724	257.564	255.426	249.921	246.236
74.5	209.659	210.069	226.901	232.179	245.144	248.625	248.647	246.646	243.871	239.935
75.0	202.244	202.084	217.439	222.352	235.227	238.116	240.731	239.890	236.978	235.409
75.5	192.758	192.986	208.817	213.344	225.741	230.040	232.588	232.975	232.042	230.609
76.0	184.046	184.273	199.355	205.223	216.984	222.102	224.308	226.492	226.401	226.651
76.5	175.493	176.130	191.894	196.739	208.203	213.822	217.325	219.872	222.147	223.580
77.0	166.076	168.578	182.977	188.254	200.424	206.111	210.160	214.072	217.984	220.691
77.5	160.389	160.912	175.630	180.452	191.916	199.650	202.494	207.908	213.799	218.963
78.0	152.132	152.769	167.941	172.786	184.637	192.326	195.852	201.766	210.728	216.392
78.5	144.307	145.376	160.207	165.371	177.495	184.137	189.710	195.715	207.475	215.619
79.0	138.143	138.757	153.474	158.183	170.784	177.586	182.954	191.575	204.973	214.368
79.5	131.318	132.251	146.695	150.722	163.301	170.830	177.336	187.140	203.722	213.594
80.0	123.562	125.950	138.529	143.670	156.477	165.325	172.104	183.364	201.720	212.684
80.5	118.125	118.671	132.501	137.415	149.448	158.933	166.690	178.427	198.854	211.593
81.0	111.642	112.097	125.404	130.249	142.373	153.383	162.550	175.698	197.216	209.818
81.5	105.501	105.978	119.285	123.744	136.482	147.833	158.478	171.990	194.714	208.704
82.0	98.608	98.517	112.120	116.988	129.180	141.759	153.701	168.328	192.303	206.816
82.5	92.853	93.968	106.228	110.255	123.493	137.142	149.630	164.461	190.324	203.790

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	85.551	86.370	99.700	104.295	116.578	131.842	143.920	160.548	187.413	200.469
83.5	78.659	79.683	93.172	97.471	110.300	127.156	139.917	156.613	183.159	195.442
84.0	70.766	74.155	86.962	90.988	104.955	121.810	135.345	151.995	178.587	189.437
84.5	64.124	67.126	80.411	84.460	98.949	117.261	130.772	148.083	173.696	181.112
85.0	59.370	60.348	73.950	78.568	92.558	111.165	126.792	142.669	166.986	173.446
85.5	50.407	54.547	67.536	71.972	86.666	107.070	121.037	137.824	159.843	163.687
86.0	43.697	47.973	61.053	65.625	80.888	101.907	116.715	131.250	151.245	154.338
86.5	35.713	41.923	54.411	58.710	74.223	96.948	110.368	125.313	142.305	144.921
87.0	29.321	35.121	47.518	53.114	68.127	92.307	105.182	118.853	132.706	136.778
87.5	21.541	28.775	41.013	45.812	62.850	87.257	100.110	111.938	123.675	129.499
88.0	14.990	22.702	35.667	40.558	57.118	82.435	95.196	103.954	116.214	124.085
88.5	8.371	16.924	28.570	34.030	52.273	77.613	89.987	98.722	110.846	119.581
89.0	4.026	10.759	25.113	29.935	48.406	74.337	85.188	93.831	106.274	115.578
89.5	0.000	7.461	22.588	26.887	45.335	70.925	81.139	88.008	102.043	112.962
90.0	0.000	5.982	21.246	25.022	43.924	68.992	77.249	85.142	99.905	111.870
90.5	0.000	6.665	21.177	25.090	43.037	67.217	75.952	82.481	99.632	111.688
91.0	0.000	6.119	20.995	25.090	43.561	67.240	74.269	82.026	99.427	113.735
91.5	0.000	6.073	20.723	25.750	43.902	65.398	72.745	81.707	100.451	117.625
92.0	0.000	5.459	21.200	26.159	44.971	64.988	72.836	80.661	102.998	121.037
92.5	0.000	6.278	21.223	25.886	43.424	64.351	72.244	81.116	105.387	124.017
93.0	0.000	6.392	22.383	26.546	44.857	62.964	72.131	82.367	107.889	127.679
93.5	0.000	5.414	21.701	26.910	45.153	63.737	72.586	83.618	111.574	132.706
94.0	0.000	6.142	21.951	26.955	43.879	63.396	73.109	84.528	115.054	136.346
94.5	0.000	6.597	22.383	27.478	43.924	63.805	74.474	87.098	118.171	139.189
95.0	0.000	5.755	22.724	27.797	44.038	64.761	75.566	89.760	121.310	142.146
95.5	0.000	6.597	22.679	27.956	44.584	65.056	77.203	91.693	124.358	145.558
96.0	0.000	5.982	22.429	26.932	44.175	66.398	78.978	94.332	127.520	147.583
96.5	0.000	6.392	22.656	27.933	44.743	67.695	81.457	97.334	129.794	152.109
97.0	2.798	6.233	22.520	28.388	44.675	68.696	83.254	99.928	132.342	152.701
97.5	0.000	6.983	23.270	28.161	45.562	69.674	85.688	101.520	134.003	153.588
98.0	0.000	6.938	23.316	28.388	45.949	71.494	86.552	103.499	136.004	151.904
98.5	0.000	6.642	23.429	28.638	46.631	73.086	88.850	106.069	136.778	151.654
99.0	0.000	6.915	24.453	29.071	47.769	74.451	90.761	106.274	137.506	150.426
99.5	0.000	7.620	23.634	29.071	48.087	75.566	92.148	109.891	136.323	148.492
100.0	0.000	6.824	24.862	29.275	49.497	76.908	93.558	110.641	135.117	145.126
100.5	0.000	7.234	24.362	30.163	48.974	78.864	94.446	110.710	134.071	141.828
101.0	0.000	7.779	25.932	30.231	49.839	80.456	94.696	110.937	131.819	139.394
101.5	0.000	7.507	25.818	30.959	50.112	81.184	96.220	110.277	128.794	135.458
102.0	0.000	8.189	26.296	30.299	51.840	81.048	95.606	109.686	126.564	131.546
102.5	0.000	8.212	26.773	32.164	51.636	81.684	95.947	108.276	123.266	128.339
103.0	0.000	8.280	26.478	32.210	51.727	82.071	95.697	107.070	118.899	123.903
103.5	0.000	7.916	27.205	32.596	52.659	82.367	93.968	104.318	116.419	120.468
104.0	0.000	8.507	27.501	33.233	53.546	81.639	94.059	102.748	113.462	117.147
104.5	0.000	9.099	28.002	33.324	52.910	81.093	91.807	99.723	110.004	113.780
105.0	0.000	9.053	27.160	33.688	54.252	79.273	90.351	97.926	106.615	110.732
105.5	0.000	8.917	27.706	34.257	54.479	79.342	88.850	94.946	103.931	107.548
106.0	2.821	8.598	28.047	34.871	55.139	78.750	86.530	92.921	101.474	105.068
106.5	0.000	9.349	28.707	34.120	54.616	78.136	85.233	91.079	99.359	102.976
107.0	3.003	10.373	28.616	35.326	54.661	76.339	83.368	89.578	97.152	101.770
107.5	2.730	9.781	29.662	35.804	54.820	75.042	82.936	88.395	96.152	100.223
108.0	0.000	10.600	30.481	36.077	54.957	73.996	81.798	87.690	95.492	98.767
108.5	3.003	11.010	30.777	35.303	54.001	73.336	80.138	85.756	93.991	98.267
109.0	0.000	10.623	30.868	36.509	54.252	72.290	79.774	85.028	93.604	97.425
109.5	3.116	10.600	31.436	35.667	54.252	71.699	78.545	84.482	93.649	96.902
110.0	0.000	11.874	31.345	37.533	53.706	71.972	78.500	83.754	92.398	96.015
110.5	0.000	11.237	32.005	37.442	54.252	71.403	78.727	84.778	92.353	95.651

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

111.0	2.866	11.897	31.960	37.260	54.115	71.357	78.568	83.163	92.330	95.765
111.5	2.730	11.601	32.301	37.305	53.956	71.721	78.750	84.141	92.512	95.583
112.0	3.731	12.420	32.483	37.942	53.865	72.313	79.182	84.346	93.740	96.197
112.5	4.072	12.033	33.825	37.715	53.842	71.972	78.773	84.755	93.991	97.130
113.0	0.000	12.920	33.324	39.307	54.365	72.677	80.069	84.801	93.490	96.834
113.5	3.185	12.602	33.893	39.102	55.230	73.450	80.843	85.688	95.401	97.676
114.0	0.000	12.647	33.461	39.557	55.343	73.678	80.547	87.007	95.606	98.517
114.5	2.934	12.875	34.621	39.762	55.685	74.519	81.412	87.690	96.129	98.927
115.0	3.116	13.421	34.803	40.421	56.003	74.542	82.344	88.986	97.380	100.110
115.5	0.000	13.216	35.440	40.490	56.390	75.975	82.435	88.895	97.653	100.337
116.0	4.117	13.762	35.918	40.103	56.799	76.339	84.141	89.350	97.949	101.634
116.5	2.843	13.421	35.645	41.036	56.686	76.407	84.505	90.533	99.723	102.361
117.0	3.094	14.080	35.713	41.036	57.732	78.159	85.006	91.966	99.905	103.340
117.5	0.000	13.967	35.667	40.672	58.073	77.363	86.643	92.626	100.974	104.363
118.0	3.640	12.784	36.259	40.399	58.710	78.568	86.803	93.285	101.088	104.181
118.5	3.321	14.945	36.372	41.923	59.097	79.501	87.007	93.490	102.066	105.523
119.0	3.662	14.604	36.918	43.128	60.280	79.796	87.098	94.059	102.976	105.865
119.5	0.000	14.513	36.600	42.537	59.620	80.615	88.190	94.559	103.681	107.593
120.0	4.868	14.240	37.032	42.127	60.029	80.911	88.395	95.879	103.795	107.207
120.5	4.686	13.603	36.941	42.560	60.712	80.820	89.236	96.311	104.386	108.412
121.0	4.436	14.444	36.441	41.673	60.484	81.275	89.509	96.447	105.478	108.935
121.5	4.709	14.854	35.622	42.537	59.984	80.797	90.078	96.607	105.796	109.345
122.0	4.367	14.695	36.168	41.923	59.802	81.412	89.805	97.312	106.206	109.686
122.5	3.776	14.649	36.782	42.196	60.189	80.365	88.895	96.811	105.455	109.709
123.0	4.527	14.535	36.486	42.036	59.188	80.957	89.896	97.039	106.069	109.709
123.5	4.026	13.557	36.190	41.309	59.870	80.729	89.555	95.856	106.297	109.504
124.0	4.754	13.944	35.281	41.559	59.370	79.751	89.714	95.401	105.614	110.004
124.5	4.572	13.876	34.917	40.512	58.028	79.705	88.554	96.061	105.114	109.686
125.0	5.232	13.762	34.393	40.353	57.755	79.751	87.326	95.014	105.296	109.618
125.5	3.890	13.762	33.688	39.625	56.253	79.296	86.848	94.468	104.977	109.732
126.0	5.550	13.967	33.324	38.988	56.322	77.704	86.439	93.672	104.727	108.776
126.5	4.458	14.308	33.666	38.852	55.639	77.294	85.597	92.671	103.886	108.685
127.0	4.800	13.193	33.825	37.919	55.161	76.748	85.142	92.785	102.657	107.457
127.5	4.982	13.603	31.937	37.100	53.728	76.020	84.164	91.670	101.611	106.570
128.0	4.777	13.193	31.687	37.078	53.296	74.019	83.095	89.737	100.678	105.592
128.5	4.504	12.989	31.232	35.758	51.749	73.518	81.935	88.486	99.950	104.818
129.0	4.800	12.920	30.822	35.326	51.567	72.108	80.388	87.530	99.427	103.635
129.5	5.619	12.465	30.413	34.871	50.316	71.357	78.659	86.666	97.789	102.316
130.0	4.891	12.875	29.548	34.757	50.658	70.356	77.931	85.210	96.265	100.928
130.5	4.140	12.556	28.889	33.324	48.497	68.537	76.999	84.778	94.264	99.859
131.0	5.573	12.488	28.980	32.596	46.722	67.058	74.951	82.845	92.512	98.563
131.5	5.300	12.670	27.342	32.255	46.700	66.035	73.587	80.479	91.557	97.016
132.0	5.459	11.055	26.659	31.072	44.721	64.147	72.563	79.728	90.533	94.900
132.5	5.846	11.942	27.205	31.004	44.812	63.032	70.743	78.682	88.645	93.649
133.0	5.846	11.555	26.273	30.003	43.902	61.644	69.424	76.612	87.348	92.580
133.5	5.846	10.577	25.090	29.298	42.241	60.825	67.627	75.270	85.301	91.329
134.0	6.460	12.033	24.931	28.456	41.263	58.733	66.285	73.177	83.550	89.032
134.5	6.756	11.214	24.203	28.616	39.966	58.323	64.397	72.176	82.094	87.394
135.0	5.323	10.782	24.771	27.774	39.580	55.821	62.645	69.811	79.705	86.052
135.5	5.846	10.691	22.861	27.387	38.988	54.911	61.394	67.900	78.477	83.641
136.0	6.142	10.782	22.406	26.455	37.987	53.001	60.075	66.489	77.704	81.775
136.5	5.209	10.600	22.156	25.545	36.350	51.613	58.551	64.965	75.088	79.842
137.0	5.118	9.736	22.565	25.659	36.099	49.588	56.390	63.123	72.631	77.522
137.5	6.028	10.327	21.109	24.521	35.940	48.724	55.025	61.167	70.834	76.020
138.0	5.414	10.373	21.359	23.771	34.302	47.746	53.592	59.392	68.446	73.746
138.5	6.437	10.828	20.199	22.883	33.393	46.563	52.386	58.164	66.694	72.131

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**CANDELA TABULATION - (Cont.)**

139.0	6.870	9.940	20.563	22.883	32.119	45.221	50.294	56.413	65.830	70.470
139.5	5.960	9.895	19.744	22.065	31.755	43.561	48.906	55.161	63.737	68.196
140.0	7.006	9.213	19.221	21.792	30.526	43.333	47.268	53.819	61.804	66.148
140.5	6.346	9.713	18.562	21.018	29.753	41.809	46.290	51.454	60.507	64.647
141.0	5.073	9.872	18.857	21.177	29.366	41.127	44.834	50.134	58.983	62.850
141.5	6.233	9.167	18.311	20.654	28.570	38.988	44.493	49.134	56.822	60.371
142.0	6.597	9.395	17.106	19.995	28.547	38.124	42.560	46.472	56.185	59.165
142.5	5.960	8.712	17.743	19.699	27.183	37.078	41.832	46.131	53.615	57.823
143.0	6.301	9.440	17.197	18.721	27.592	36.941	41.149	44.880	52.022	55.503
143.5	6.051	9.622	16.537	18.766	26.591	35.326	39.580	43.447	49.975	54.502
144.0	6.551	8.780	16.878	17.743	25.477	35.053	38.306	43.128	49.338	52.796
144.5	5.550	8.462	16.446	18.084	24.021	33.688	37.146	41.491	48.656	51.158
145.0	6.756	7.893	16.423	17.856	24.430	33.097	36.987	39.966	46.427	50.362
145.5	5.800	9.372	16.037	17.538	24.612	32.778	35.485	39.239	45.630	49.134
146.0	6.301	8.166	15.150	17.151	23.520	32.528	34.462	37.987	44.266	47.837
146.5	6.665	9.395	15.150	16.605	23.293	31.277	33.529	36.213	42.628	45.949
147.0	6.437	8.098	15.059	16.378	22.997	29.321	33.188	36.077	42.264	44.470
147.5	6.005	8.894	14.649	16.014	22.542	29.366	32.847	34.917	40.444	44.948
148.0	6.665	8.394	14.331	15.673	21.860	28.297	31.368	34.007	39.489	42.833
148.5	7.211	8.416	14.444	15.627	21.883	27.319	30.344	34.098	38.897	41.650
149.0	6.551	8.280	14.467	15.354	20.950	27.979	30.413	32.756	37.555	40.421
149.5	7.848	8.621	13.489	14.649	20.654	26.841	28.820	31.459	36.668	38.920
150.0	7.097	8.758	13.512	14.717	19.835	27.023	28.297	31.277	35.758	37.851
150.5	6.574	7.848	13.239	14.786	18.744	25.363	28.320	30.708	34.325	37.032
151.0	7.529	8.439	13.330	14.126	19.358	25.090	27.205	30.731	33.324	35.690
151.5	7.438	8.416	12.738	14.035	19.267	24.317	26.659	28.593	32.255	35.645
152.0	7.097	8.758	12.374	13.807	18.766	24.271	26.182	27.683	31.891	33.916
152.5	7.256	8.098	12.374	13.648	18.243	23.975	24.544	27.547	31.391	33.188
153.0	6.483	8.325	12.465	12.920	17.060	22.565	24.840	26.773	30.686	33.415
153.5	6.619	7.711	11.874	13.011	16.469	21.746	23.589	26.273	30.094	31.368
154.0	6.847	7.984	12.170	13.080	16.401	22.315	23.111	25.477	28.320	31.527
154.5	6.824	8.007	11.373	12.852	16.583	22.315	23.020	24.794	27.774	30.208
155.0	7.097	8.075	10.896	11.828	15.400	21.041	22.042	23.953	27.729	29.867
155.5	6.847	8.371	11.373	12.716	15.536	20.882	21.041	24.157	26.341	28.184
156.0	6.278	7.711	11.464	12.215	15.172	19.904	20.973	23.202	26.500	27.410
156.5	6.756	7.279	11.419	11.919	13.921	19.631	20.723	22.178	25.545	27.251
157.0	7.370	7.507	10.600	10.077	14.376	18.630	21.086	21.996	25.135	26.478
157.5	6.961	7.802	9.872	10.486	14.444	18.903	19.358	21.655	24.066	25.135
158.0	7.688	7.552	10.623	11.192	14.399	18.107	19.358	21.018	22.542	25.613
158.5	6.642	6.915	9.599	10.850	13.307	17.424	18.835	20.268	22.474	24.180
159.0	6.346	7.529	10.009	10.464	13.171	17.219	18.129	20.609	22.497	23.680
159.5	5.528	7.347	10.259	9.849	13.239	16.173	17.652	19.562	22.201	23.816
160.0	6.528	7.211	8.826	9.918	12.397	15.877	17.128	18.311	21.473	22.588
160.5	6.665	6.779	8.940	10.031	12.602	15.150	15.627	18.516	20.518	22.224
161.0	5.823	6.483	9.372	8.894	11.646	15.127	15.923	16.947	19.926	21.405
161.5	6.301	6.847	8.371	8.849	11.760	14.695	15.309	17.333	19.312	20.609
162.0	6.870	6.961	8.234	9.031	11.351	14.035	15.968	16.901	19.062	20.404
162.5	5.687	7.575	7.984	9.190	11.897	14.262	14.740	15.786	18.493	19.426
163.0	6.437	7.325	8.280	8.576	10.213	13.443	14.262	15.422	17.424	19.312
163.5	6.324	6.892	8.462	8.758	10.805	13.580	13.534	15.240	16.878	18.926
164.0	6.870	6.756	8.507	8.325	10.122	13.557	12.966	14.672	17.265	18.744
164.5	5.891	6.051	8.462	8.143	10.987	13.057	12.670	13.898	17.128	17.743
165.0	7.529	6.096	8.712	8.212	9.667	12.511	11.988	13.603	15.718	16.856
165.5	6.324	7.143	8.689	8.052	9.690	11.646	12.033	12.579	14.604	16.264
166.0	7.029	7.325	8.098	6.961	9.326	11.806	12.215	12.829	14.626	15.400
166.5	6.779	6.733	7.347	7.802	8.780	11.487	11.078	11.828	13.671	15.059

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**CANDELA TABULATION - (Cont.)**

167.0	6.506	6.506	7.757	7.256	8.234	10.464	10.691	11.646	13.694	14.513
167.5	6.233	7.143	8.030	6.688	8.098	9.940	11.283	11.533	13.262	14.535
168.0	7.165	6.779	7.461	7.302	8.644	10.646	10.714	11.328	13.148	13.512
168.5	6.551	6.142	7.779	7.552	8.871	9.554	10.122	10.759	12.238	13.330
169.0	6.164	6.415	7.825	7.393	8.826	8.576	9.508	9.940	10.213	12.079
169.5	6.642	6.619	8.166	7.120	8.325	9.417	9.099	9.554	10.828	12.192
170.0	7.347	6.369	7.802	7.006	7.984	9.235	8.462	9.395	10.600	10.577
170.5	7.120	7.052	7.370	6.415	7.916	8.416	9.440	10.304	10.623	9.940
171.0	7.188	6.915	6.938	7.074	7.688	8.962	8.598	8.849	9.440	10.395
171.5	7.711	6.756	7.256	6.369	6.938	8.143	8.962	9.258	9.304	10.213
172.0	7.188	6.688	6.938	7.438	7.893	8.075	8.075	8.598	9.281	9.872
172.5	6.051	6.551	6.369	6.437	6.938	7.234	7.461	8.212	8.803	8.667
173.0	6.460	6.756	6.824	6.983	7.939	7.393	7.552	7.961	8.485	8.303
173.5	5.619	6.551	6.688	7.529	6.369	7.643	7.575	7.507	8.507	7.870
174.0	7.097	6.142	7.552	5.619	6.847	6.483	7.279	6.961	7.006	8.030
174.5	7.074	6.255	6.528	5.960	6.301	7.188	7.438	6.938	8.052	7.688
175.0	6.733	5.619	6.665	6.619	6.665	6.551	7.325	6.847	7.438	7.666
175.5	7.006	6.483	6.733	6.119	6.415	6.005	6.142	6.187	7.302	7.256
176.0	6.710	6.528	6.460	5.709	5.891	7.074	6.779	6.710	7.188	7.347
176.5	7.757	5.550	6.346	5.755	6.164	6.233	6.688	6.301	6.961	7.143
177.0	5.732	6.255	5.846	6.528	7.302	6.233	6.369	6.005	7.325	7.325
177.5	6.119	6.119	6.369	5.937	5.573	5.960	5.346	5.800	7.234	6.278
178.0	6.847	5.755	6.665	5.914	6.824	6.574	6.096	5.482	6.028	6.142
178.5	5.982	5.459	6.369	6.164	6.346	6.551	6.415	5.528	6.073	7.234
179.0	6.551	5.846	6.892	5.482	6.915	6.301	5.800	5.209	5.619	6.119
179.5	7.256	6.574	5.846	5.709	5.732	6.005	6.119	5.869	4.754	6.642
180.0	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005

**Vert. Horizontal Angles**  
**Angles**

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	2248.131	2248.131	2248.131
0.5	2247.381	2248.177	2251.885
1.0	2249.155	2249.405	2252.089
1.5	2252.340	2254.341	2257.435
2.0	2257.116	2259.141	2262.166
2.5	2264.396	2265.487	2269.104
3.0	2270.287	2272.835	2277.157
3.5	2277.088	2278.794	2282.479
4.0	2282.593	2285.255	2288.280
4.5	2287.870	2290.350	2294.308
5.0	2294.103	2296.310	2301.041
5.5	2300.472	2300.995	2305.681
6.0	2305.841	2304.089	2307.183
6.5	2309.685	2305.932	2308.547
7.0	2310.822	2305.158	2306.273
7.5	2310.162	2303.156	2302.201
8.0	2306.910	2296.969	2296.628
8.5	2301.064	2290.122	2288.485
9.0	2291.487	2279.022	2276.815
9.5	2281.410	2267.808	2262.985
10.0	2268.968	2252.795	2247.062
10.5	2253.409	2236.394	2229.547
11.0	2236.098	2220.972	2213.010
11.5	2219.584	2206.209	2198.406
12.0	2204.207	2191.582	2184.849



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**CANDELA TABULATION - (Cont.)**

12.5	2190.536	2179.481	2174.226
13.0	2178.480	2170.109	2166.720
13.5	2169.245	2162.785	2160.851
14.0	2161.329	2158.122	2157.735
14.5	2157.598	2158.827	2158.213
15.0	2156.256	2162.398	2161.579
15.5	2158.326	2168.790	2168.380
16.0	2163.626	2178.799	2177.729
16.5	2170.177	2187.533	2185.509
17.0	2178.890	2195.381	2193.379
17.5	2186.351	2201.955	2200.158
18.0	2191.446	2206.186	2203.411
18.5	2194.380	2205.253	2201.500
19.0	2192.583	2198.611	2194.380
19.5	2188.125	2188.170	2182.529
20.0	2179.481	2174.841	2167.266
20.5	2167.129	2157.849	2150.342
21.0	2151.934	2139.605	2132.372
21.5	2134.578	2120.316	2111.536
22.0	2116.108	2101.277	2092.951
22.5	2098.001	2083.648	2076.505
23.0	2078.712	2068.430	2060.241
23.5	2061.470	2054.714	2048.618
24.0	2046.457	2045.023	2038.450
24.5	2034.583	2037.517	2033.172
25.0	2023.846	2032.854	2028.896
25.5	2016.430	2029.851	2028.919
26.0	2011.927	2025.575	2027.349
26.5	2007.127	2020.434	2022.117
27.0	2003.578	2011.995	2014.179
27.5	1999.575	2002.396	2003.442
28.0	1992.796	1989.293	1989.657
28.5	1983.038	1976.009	1975.668
29.0	1972.279	1963.908	1962.816
29.5	1959.176	1951.147	1950.464
30.0	1945.892	1940.547	1938.795
30.5	1932.858	1930.515	1928.855
31.0	1921.007	1921.462	1924.942
31.5	1909.542	1913.091	1920.415
32.0	1899.875	1905.311	1914.478
32.5	1889.798	1897.577	1908.132
33.0	1879.562	1887.842	1900.512
33.5	1869.280	1875.740	1885.112
34.0	1857.816	1860.500	1867.187
34.5	1845.987	1841.870	1846.124
35.0	1832.680	1821.580	1822.399
35.5	1816.484	1799.219	1798.287
36.0	1799.629	1778.019	1774.766
36.5	1779.066	1756.592	1755.249
37.0	1757.092	1737.621	1738.735
37.5	1735.573	1720.310	1721.425
38.0	1713.418	1702.681	1705.866
38.5	1693.036	1686.440	1688.419
39.0	1673.792	1669.789	1670.585
39.5	1653.639	1652.046	1653.320
40.0	1633.758	1633.212	1635.009

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**CANDELA TABULATION - (Cont.)**

40.5	1613.513	1614.241	1617.380
41.0	1593.609	1594.678	1599.342
41.5	1573.615	1575.480	1583.214
42.0	1552.483	1558.169	1566.927
42.5	1530.350	1538.971	1547.660
43.0	1508.695	1518.999	1529.008
43.5	1486.471	1497.367	1506.852
44.0	1463.929	1473.960	1483.673
44.5	1440.067	1449.052	1455.308
45.0	1415.705	1421.574	1426.396
45.5	1389.296	1392.662	1396.643
46.0	1362.204	1361.590	1361.635
46.5	1333.520	1330.290	1327.538
47.0	1304.836	1296.420	1292.462
47.5	1275.038	1263.528	1257.704
48.0	1243.578	1228.338	1220.877
48.5	1212.825	1193.239	1186.279
49.0	1181.024	1158.186	1151.271
49.5	1148.473	1123.543	1115.126
50.0	1116.127	1089.922	1081.347
50.5	1083.326	1055.347	1046.658
51.0	1050.024	1021.090	1013.811
51.5	1017.064	988.880	981.215
52.0	984.422	957.194	948.140
52.5	951.803	925.826	917.136
53.0	919.843	895.208	885.632
53.5	890.409	866.297	857.130
54.0	860.655	837.704	829.242
54.5	831.312	810.498	801.491
55.0	803.174	784.180	775.149
55.5	776.605	759.431	750.378
56.0	751.015	736.025	725.402
56.5	726.630	712.914	703.383
57.0	703.883	690.371	679.885
57.5	681.318	668.307	658.958
58.0	659.481	646.606	637.462
58.5	637.940	626.612	615.511
59.0	618.309	605.548	594.925
59.5	598.223	585.167	576.250
60.0	578.888	565.968	555.391
60.5	560.532	546.906	537.421
61.0	542.106	527.912	519.450
61.5	524.318	509.783	501.480
62.0	508.054	493.155	484.670
62.5	491.608	476.322	466.746
63.0	474.616	459.125	450.755
63.5	459.671	443.294	434.240
64.0	443.385	427.780	419.500
64.5	428.349	413.950	404.783
65.0	414.632	401.212	393.432
65.5	401.758	388.541	379.966
66.0	388.337	375.621	368.752
66.5	376.599	364.612	358.197
67.0	365.362	353.147	347.165
67.5	354.876	342.797	336.656
68.0	343.389	331.833	326.283

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**CANDELA TABULATION - (Cont.)**

68.5	332.493	322.098	317.548
69.0	322.666	311.520	307.835
69.5	312.794	302.649	298.668
70.0	302.740	293.254	290.411
70.5	293.777	285.316	282.882
71.0	285.043	277.240	275.239
71.5	276.331	270.371	268.483
72.0	268.892	264.002	263.979
72.5	262.660	258.429	260.112
73.0	257.087	253.356	255.244
73.5	250.695	248.056	251.718
74.0	245.235	244.189	246.395
74.5	239.276	240.117	244.621
75.0	234.908	237.479	242.938
75.5	230.040	234.431	240.800
76.0	226.992	232.679	239.822
76.5	224.263	231.132	239.753
77.0	222.716	231.473	241.323
77.5	219.782	232.770	241.459
78.0	219.509	232.497	242.915
78.5	218.348	232.042	242.710
79.0	218.098	232.929	243.120
79.5	216.301	234.089	245.872
80.0	216.165	233.907	243.984
80.5	216.074	232.747	243.757
81.0	214.049	230.837	242.847
81.5	211.888	228.949	239.867
82.0	210.205	226.560	235.090
82.5	207.271	221.942	229.813
83.0	203.017	215.505	221.942
83.5	197.876	207.453	212.502
84.0	190.847	196.693	200.447
84.5	182.454	188.163	189.050
85.0	173.355	177.267	178.587
85.5	163.687	167.486	168.669
86.0	154.429	158.751	159.456
86.5	145.217	150.653	152.814
87.0	138.188	144.125	145.672
87.5	129.703	137.528	141.145
88.0	125.859	134.389	138.506
88.5	120.969	130.477	134.981
89.0	118.398	128.202	131.887
89.5	115.600	126.678	131.546
90.0	114.804	127.429	132.842
90.5	115.009	131.136	137.619
91.0	118.580	133.934	141.373
91.5	121.947	139.303	145.126
92.0	125.950	143.465	150.085
92.5	128.884	147.401	153.542
93.0	133.661	151.199	159.161
93.5	137.597	155.885	162.505
94.0	141.623	159.911	166.531
94.5	144.375	162.687	169.715
95.0	146.695	165.871	172.854
95.5	150.608	168.419	174.106
96.0	153.997	170.671	176.016

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**CANDELA TABULATION - (Cont.)**

<b>96.5</b>	156.067	170.534	172.991
<b>97.0</b>	156.113	170.079	172.786
<b>97.5</b>	156.568	167.827	169.533
<b>98.0</b>	155.589	165.007	166.326
<b>98.5</b>	154.930	162.163	162.891
<b>99.0</b>	152.405	159.184	159.638
<b>99.5</b>	149.721	154.179	155.248
<b>100.0</b>	146.855	150.881	150.813
<b>100.5</b>	143.215	147.150	148.447
<b>101.0</b>	139.371	143.670	143.147
<b>101.5</b>	136.709	139.212	139.416
<b>102.0</b>	133.320	135.959	136.778
<b>102.5</b>	129.362	132.001	132.137
<b>103.0</b>	124.858	127.702	128.521
<b>103.5</b>	121.674	123.016	123.653
<b>104.0</b>	117.534	118.216	119.604
<b>104.5</b>	114.122	115.123	116.396
<b>105.0</b>	111.051	112.711	113.439
<b>105.5</b>	108.776	110.596	110.391
<b>106.0</b>	105.887	108.776	108.276
<b>106.5</b>	103.954	106.501	106.820
<b>107.0</b>	101.474	104.795	104.909
<b>107.5</b>	100.041	102.794	103.340
<b>108.0</b>	99.518	100.928	101.270
<b>108.5</b>	98.449	99.768	101.452
<b>109.0</b>	97.221	99.700	99.427
<b>109.5</b>	96.902	99.313	99.814
<b>110.0</b>	96.379	98.699	98.381
<b>110.5</b>	96.561	98.199	98.062
<b>111.0</b>	96.607	97.812	98.040
<b>111.5</b>	96.288	97.539	97.061
<b>112.0</b>	96.948	98.949	99.291
<b>112.5</b>	96.129	98.426	99.245
<b>113.0</b>	97.789	99.564	100.019
<b>113.5</b>	98.153	99.791	99.359
<b>114.0</b>	98.995	100.178	100.906
<b>114.5</b>	98.881	101.179	100.473
<b>115.0</b>	100.633	101.747	101.793
<b>115.5</b>	100.951	102.134	102.680
<b>116.0</b>	101.838	103.271	103.021
<b>116.5</b>	102.566	103.453	103.613
<b>117.0</b>	103.522	105.091	104.113
<b>117.5</b>	103.999	106.092	105.546
<b>118.0</b>	104.636	106.137	106.160
<b>118.5</b>	106.024	107.320	106.570
<b>119.0</b>	107.116	108.276	107.548
<b>119.5</b>	107.229	108.981	108.207
<b>120.0</b>	108.458	108.685	109.254
<b>120.5</b>	108.162	108.731	108.958
<b>121.0</b>	109.026	109.959	109.618
<b>121.5</b>	109.049	110.414	110.095
<b>122.0</b>	110.255	110.801	110.391
<b>122.5</b>	109.982	111.642	111.802
<b>123.0</b>	110.209	111.074	111.028
<b>123.5</b>	110.937	112.711	111.142
<b>124.0</b>	110.550	111.438	113.257

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

124.5	110.664	111.392	110.459
125.0	109.754	111.688	111.119
125.5	109.231	110.755	111.392
126.0	108.935	110.687	110.255
126.5	108.731	109.891	109.914
127.0	107.957	110.095	109.140
127.5	107.775	108.185	109.390
128.0	106.433	107.980	108.571
128.5	105.273	106.979	108.321
129.0	104.795	106.342	106.410
129.5	103.385	104.727	105.501
130.0	102.771	103.772	105.614
130.5	100.496	102.930	102.930
131.0	99.040	101.179	102.111
131.5	97.630	100.473	100.019
132.0	96.220	99.131	98.836
132.5	94.582	97.221	96.493
133.0	93.445	95.651	95.810
133.5	91.943	94.013	94.309
134.0	89.555	92.285	92.580
134.5	88.008	90.488	91.261
135.0	87.007	89.441	88.986
135.5	83.436	87.121	87.917
136.0	82.799	85.210	85.392
136.5	79.887	83.754	83.709
137.0	78.682	81.662	83.322
137.5	76.657	79.683	80.820
138.0	74.633	77.817	78.272
138.5	72.631	76.430	76.293
139.0	70.652	74.519	75.838
139.5	68.605	72.404	73.905
140.0	67.581	70.766	71.903
140.5	65.443	68.332	68.992
141.0	63.282	65.966	68.150
141.5	61.781	64.988	65.898
142.0	59.916	62.964	63.350
142.5	58.505	62.782	62.281
143.0	56.049	59.825	60.894
143.5	55.207	57.322	59.119
144.0	52.591	55.707	56.572
144.5	52.273	55.207	55.230
145.0	50.476	52.932	54.206
145.5	49.361	52.364	52.386
146.0	48.292	51.454	51.431
146.5	46.108	49.225	49.657
147.0	44.448	47.678	49.020
147.5	43.606	46.882	47.700
148.0	42.150	44.994	45.335
148.5	41.832	44.243	43.924
149.0	40.012	42.560	42.878
149.5	39.807	41.991	43.106
150.0	38.875	40.353	41.854
150.5	37.692	38.943	40.012
151.0	36.759	38.215	39.398
151.5	34.962	36.941	38.806
152.0	35.053	36.850	37.009

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

152.5	33.643	36.304	35.986
153.0	33.165	35.258	35.326
153.5	32.028	34.257	34.484
154.0	31.163	33.575	33.779
154.5	29.799	32.187	32.960
155.0	29.139	30.913	32.483
155.5	28.798	30.890	30.185
156.0	28.252	30.072	30.822
156.5	27.319	29.162	29.685
157.0	26.682	28.388	29.207
157.5	26.500	27.547	27.797
158.0	24.953	27.251	27.592
158.5	24.499	26.455	26.341
159.0	23.520	26.568	25.249
159.5	22.883	25.772	24.544
160.0	22.611	24.544	24.771
160.5	21.564	23.270	24.499
161.0	22.065	22.861	23.270
161.5	20.541	22.792	22.019
162.0	20.268	22.110	21.951
162.5	19.676	20.973	21.541
163.0	18.857	21.018	21.064
163.5	18.653	20.518	19.813
164.0	17.993	19.562	20.427
164.5	16.765	19.016	19.085
165.0	16.924	18.243	18.084
165.5	16.605	17.015	17.242
166.0	15.946	16.878	15.786
166.5	14.854	16.332	16.514
167.0	14.695	15.627	15.354
167.5	13.512	15.513	14.353
168.0	12.784	14.899	14.581
168.5	13.352	13.512	13.512
169.0	11.396	13.125	14.604
169.5	11.578	12.852	13.171
170.0	11.010	11.806	13.102
170.5	10.054	11.851	11.442
171.0	9.417	11.806	11.510
171.5	9.485	10.782	10.896
172.0	9.508	10.600	9.736
172.5	8.849	11.169	9.167
173.0	8.121	8.962	8.985
173.5	7.097	9.667	9.076
174.0	7.347	7.757	8.894
174.5	7.370	8.257	8.507
175.0	6.961	8.394	7.552
175.5	7.188	7.507	7.643
176.0	7.211	7.188	6.847
176.5	6.096	7.529	6.733
177.0	6.255	7.074	6.619
177.5	5.982	6.915	6.187
178.0	5.755	6.483	6.460
178.5	5.687	6.824	6.255
179.0	5.255	5.982	6.961
179.5	5.209	5.641	6.483
180.0	6.005	6.005	6.005

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 770-48LED56DMV40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	838.59	N.A.	13.90
0-30	1783.22	N.A.	29.60
0-40	2915.77	N.A.	48.50
0-60	4803.3	N.A.	79.80
0-80	5503.11	N.A.	91.40
0-90	5637.33	N.A.	93.70
10-90	5419.87	N.A.	90.10
20-40	2077.18	N.A.	34.50
20-50	3179.56	N.A.	52.80
40-70	2338.12	N.A.	38.90
60-80	699.81	N.A.	11.60
70-80	249.21	N.A.	4.10
80-90	134.22	N.A.	2.20
90-110	167.30	N.A.	2.80
90-120	235.77	N.A.	3.90
90-130	301.17	N.A.	5.00
90-150	366.35	N.A.	6.10
90-180	380.70	N.A.	6.30
110-180	213.40	N.A.	3.50
0-180	6018.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	217.47
10-20	621.12
20-30	944.63
30-40	1132.55
40-50	1102.38
50-60	785.15
60-70	450.59
70-80	249.21
80-90	134.22
90-100	88.60
100-110	78.70
110-120	68.48
120-130	65.40
130-140	43.47
140-150	21.71
150-160	9.91
160-170	3.69
170-180	0.74

**IES INDOOR REPORT**  
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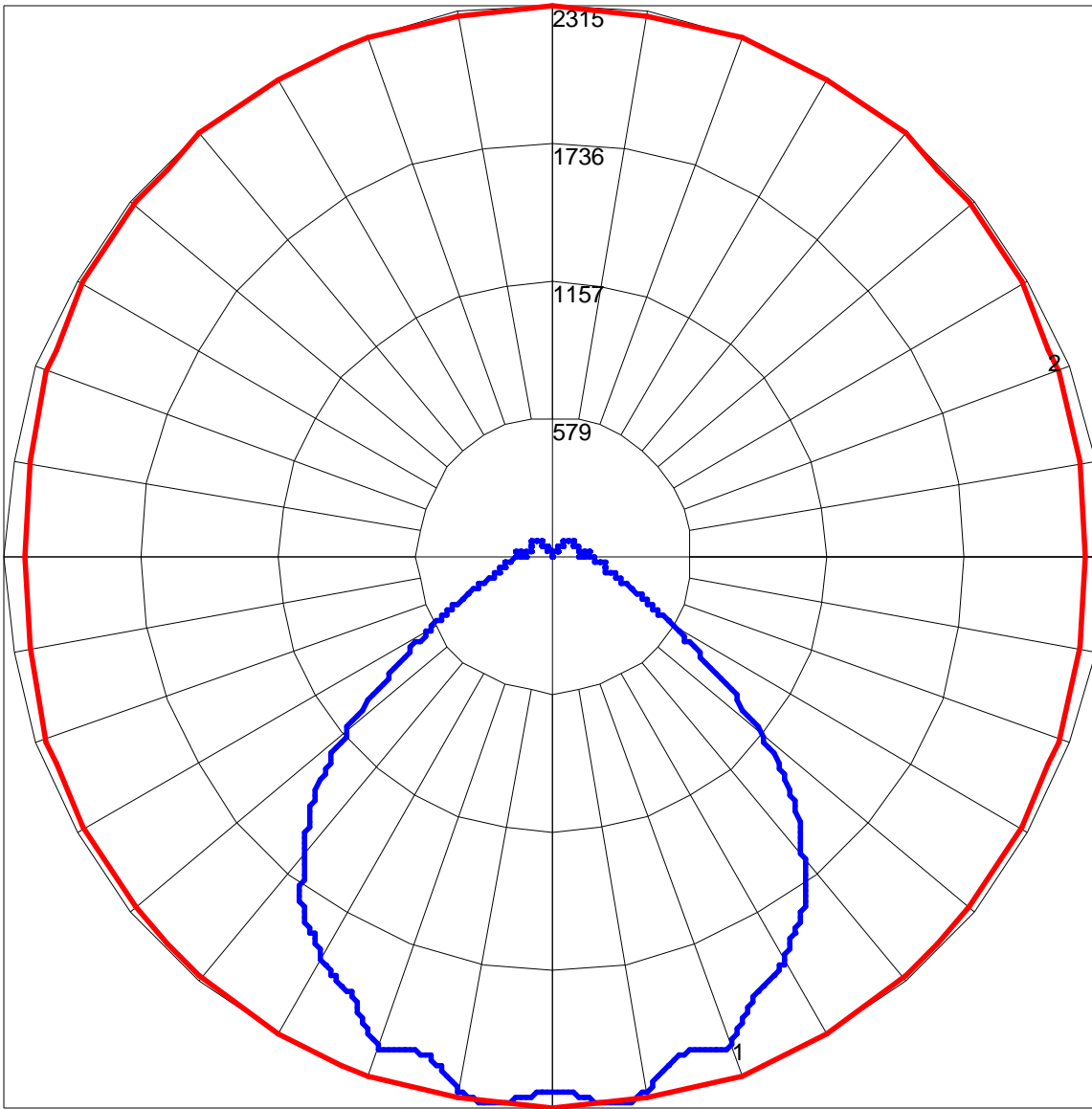
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	104	100	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	99	91	85	80	96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	74	68	88	79	72	67	75	70	65	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	58	52	48	56	51	47	45
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39
7	66	54	45	39	64	53	45	39	50	44	38	49	42	38	47	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	45	38	34	43	37	33	31
9	58	45	37	32	56	44	37	32	43	36	31	41	35	31	40	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	28	26



POLAR GRAPH



Maximum Candela = 2314.621 Located At Horizontal Angle = 67.5, Vertical Angle = 7  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)