



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96M-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 11890707.03P10  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 8/18/2017  
 [MANUFAC] Lamar Lighting Co Inc  
 [LUMCAT] TCMLL96M-40  
 [LUMINAIRE] White formed steel housing, frosted plastic lens enclosure  
 [LAMP] 244 white LEDs  
 [BALLAST] One OSRAM OTI85/120-277/2A0 DIM L driver  
 [OTHER] 25.6 C, 120.045 V, 0.5813 A, 69.78 W, 0.995921PF, 59.9982  
 [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	7880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	69.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.63 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.06 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23709	18102	17438
55	22539	16406	16135
65	20582	14817	15081
75	16686	13489	14232
85	7292	12289	13668

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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>
<b>0.0</b>	2236.615	2236.615	2236.615	2236.615	2236.615	2236.615	2236.615	2236.615	2236.615
<b>0.5</b>	2313.047	2250.769	2217.649	2215.950	2207.741	2217.366	2217.083	2251.335	2313.330
<b>1.0</b>	2312.764	2249.920	2217.083	2216.516	2207.175	2217.083	2217.932	2250.769	2314.179
<b>1.5</b>	2311.914	2249.071	2216.233	2215.667	2206.892	2216.800	2217.932	2250.486	2314.179
<b>2.0</b>	2310.499	2248.221	2215.101	2215.101	2206.326	2216.800	2217.649	2250.769	2313.330
<b>2.5</b>	2308.801	2247.089	2213.969	2213.969	2206.042	2216.516	2216.800	2250.203	2312.764
<b>3.0</b>	2307.951	2245.391	2212.270	2212.270	2205.759	2215.384	2215.950	2249.071	2311.348
<b>3.5</b>	2305.687	2243.692	2210.572	2211.704	2204.344	2214.818	2214.818	2247.655	2311.348
<b>4.0</b>	2303.705	2241.427	2208.873	2210.289	2203.212	2213.969	2213.969	2246.240	2309.933
<b>4.5</b>	2302.007	2239.446	2207.458	2208.590	2202.079	2212.836	2212.553	2244.824	2309.084
<b>5.0</b>	2298.327	2236.898	2205.193	2206.892	2200.947	2211.421	2211.138	2242.843	2306.536
<b>5.5</b>	2296.345	2234.917	2203.212	2205.476	2199.249	2209.723	2208.873	2241.144	2305.687
<b>6.0</b>	2293.231	2231.520	2200.664	2202.929	2197.550	2208.024	2207.458	2239.163	2302.573
<b>6.5</b>	2290.117	2228.972	2197.833	2201.230	2196.418	2205.476	2205.193	2236.615	2300.874
<b>7.0</b>	2286.720	2225.292	2195.852	2199.249	2194.153	2203.778	2203.495	2234.067	2298.893
<b>7.5</b>	2283.323	2222.461	2193.304	2196.418	2192.172	2201.230	2200.947	2231.520	2295.779
<b>8.0</b>	2279.643	2218.781	2189.624	2194.436	2189.907	2198.965	2198.682	2228.972	2292.948
<b>8.5</b>	2274.265	2214.818	2187.076	2191.888	2187.359	2196.418	2196.135	2225.575	2288.702
<b>9.0</b>	2270.585	2210.855	2183.962	2188.208	2185.095	2193.587	2193.870	2221.612	2285.588
<b>9.5</b>	2264.640	2206.326	2180.282	2185.944	2181.415	2191.605	2191.322	2218.498	2282.474
<b>10.0</b>	2259.828	2202.362	2176.885	2182.830	2178.301	2189.058	2187.925	2215.101	2277.662
<b>10.5</b>	2254.166	2197.550	2172.922	2179.433	2175.470	2186.227	2185.095	2211.138	2273.132
<b>11.0</b>	2248.788	2193.304	2168.959	2176.036	2172.356	2182.264	2181.415	2206.892	2269.735
<b>11.5</b>	2242.843	2189.058	2164.713	2172.639	2168.393	2178.867	2176.885	2201.796	2265.489
<b>12.0</b>	2235.766	2183.679	2160.467	2168.393	2165.279	2174.904	2173.205	2197.267	2260.677
<b>12.5</b>	2229.821	2177.734	2155.654	2164.713	2161.033	2170.941	2169.242	2192.738	2255.298
<b>13.0</b>	2221.895	2172.356	2150.842	2160.184	2157.353	2166.694	2164.147	2187.642	2249.920
<b>13.5</b>	2216.516	2166.411	2145.746	2156.220	2153.673	2162.731	2159.334	2182.547	2244.541
<b>14.0</b>	2209.156	2159.900	2140.368	2151.691	2149.993	2157.636	2154.522	2176.036	2239.163
<b>14.5</b>	2202.079	2153.956	2134.989	2147.162	2144.897	2152.823	2149.143	2170.091	2233.501
<b>15.0</b>	2195.569	2147.728	2129.328	2142.066	2140.651	2148.011	2144.614	2163.580	2227.273
<b>15.5</b>	2189.058	2140.934	2123.383	2136.971	2136.122	2143.199	2138.386	2157.353	2221.329
<b>16.0</b>	2181.415	2133.857	2117.438	2131.592	2131.309	2138.386	2132.725	2150.276	2215.384
<b>16.5</b>	2174.054	2127.063	2111.777	2125.931	2127.063	2133.291	2126.214	2143.765	2208.590
<b>17.0</b>	2165.845	2119.986	2105.266	2120.269	2122.251	2127.629	2119.420	2136.405	2201.796
<b>17.5</b>	2158.485	2112.343	2098.755	2114.325	2116.872	2122.534	2112.343	2129.045	2195.852
<b>18.0</b>	2149.710	2105.266	2091.678	2108.097	2110.928	2116.872	2105.549	2121.685	2189.624
<b>18.5</b>	2141.500	2097.623	2085.450	2101.869	2104.983	2110.928	2098.472	2113.758	2182.547
<b>19.0</b>	2133.574	2089.414	2078.373	2094.792	2099.321	2104.134	2090.829	2105.832	2174.904
<b>19.5</b>	2124.515	2081.770	2071.296	2088.281	2093.377	2097.623	2083.186	2098.472	2167.261
<b>20.0</b>	2115.174	2073.278	2063.653	2081.770	2086.583	2091.112	2076.109	2090.263	2159.334
<b>20.5</b>	2106.681	2065.069	2056.859	2074.693	2079.506	2083.752	2068.466	2082.053	2151.408
<b>21.0</b>	2097.340	2056.859	2049.216	2067.899	2072.712	2076.392	2061.106	2073.844	2142.916
<b>21.5</b>	2087.715	2048.084	2042.422	2061.106	2066.484	2069.032	2053.462	2065.635	2133.857
<b>22.0</b>	2077.524	2039.025	2034.496	2054.029	2059.124	2061.106	2045.819	2057.709	2125.082
<b>22.5</b>	2067.899	2030.533	2026.287	2046.668	2052.330	2053.462	2038.459	2048.650	2116.589
<b>23.0</b>	2057.709	2021.191	2018.927	2039.875	2045.253	2046.102	2030.816	2040.158	2106.398
<b>23.5</b>	2047.235	2011.850	2010.717	2032.514	2038.176	2039.025	2022.607	2031.099	2098.189
<b>24.0</b>	2036.761	2002.508	2002.791	2024.871	2030.250	2031.099	2014.963	2022.324	2088.564
<b>24.5</b>	2026.853	1992.883	1994.582	2017.794	2023.173	2023.173	2007.037	2012.982	2078.656
<b>25.0</b>	2015.813	1982.692	1986.372	2009.868	2016.096	2016.096	1998.828	2004.206	2068.466
<b>25.5</b>	2005.339	1973.068	1977.597	2001.942	2007.886	2008.453	1990.902	1995.148	2058.275
<b>26.0</b>	1994.299	1963.160	1969.388	1993.166	2000.809	2001.093	1981.843	1985.523	2047.801
<b>26.5</b>	1983.542	1952.969	1960.046	1984.957	1992.317	1993.166	1973.634	1975.898	2037.893

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**CANDELA TABULATION - (Cont.)**

27.0	1972.218	1942.778	1950.421	1976.182	1985.523	1985.523	1964.858	1966.274	2027.136
27.5	1961.461	1931.738	1941.646	1967.972	1977.597	1977.314	1956.366	1956.932	2015.530
28.0	1950.704	1921.547	1931.455	1959.197	1969.388	1968.538	1947.024	1947.307	2004.490
28.5	1939.381	1910.507	1921.547	1949.855	1961.461	1960.046	1937.683	1937.400	1993.166
29.0	1928.058	1899.750	1911.922	1940.797	1952.686	1951.270	1928.907	1926.926	1981.560
29.5	1916.735	1888.427	1901.448	1931.738	1943.910	1942.212	1919.566	1917.018	1969.671
30.0	1905.412	1877.953	1891.541	1922.396	1935.984	1933.153	1910.507	1905.978	1958.347
30.5	1893.805	1866.346	1881.916	1913.338	1927.209	1924.378	1901.165	1895.504	1946.458
31.0	1882.199	1854.740	1871.442	1904.279	1918.716	1915.602	1891.824	1884.747	1934.286
31.5	1870.876	1842.851	1860.968	1894.938	1909.941	1906.827	1882.199	1873.707	1921.547
32.0	1858.703	1831.245	1850.777	1885.313	1901.448	1897.485	1873.140	1862.100	1909.658
32.5	1846.531	1819.355	1840.869	1876.820	1892.673	1888.427	1862.950	1850.777	1896.919
33.0	1834.642	1807.466	1830.395	1867.479	1883.897	1879.368	1853.042	1838.888	1883.897
33.5	1823.035	1795.293	1819.921	1857.854	1875.688	1870.593	1843.134	1826.998	1870.310
34.0	1809.447	1783.121	1809.447	1848.229	1866.630	1861.251	1833.226	1815.109	1857.288
34.5	1796.992	1771.232	1798.973	1838.605	1858.137	1852.476	1822.469	1803.220	1843.700
35.0	1784.253	1758.493	1788.783	1829.546	1849.079	1842.851	1812.561	1790.481	1829.829
35.5	1770.382	1746.321	1777.459	1819.921	1840.303	1833.509	1801.804	1778.592	1816.807
36.0	1758.210	1733.299	1766.419	1810.580	1831.245	1824.168	1790.481	1766.136	1802.653
36.5	1744.622	1720.560	1755.379	1800.672	1821.903	1814.260	1779.724	1753.681	1788.216
37.0	1730.751	1708.105	1744.056	1791.047	1812.278	1804.635	1768.967	1740.942	1773.779
37.5	1716.880	1694.800	1733.016	1781.139	1802.937	1794.444	1757.361	1727.920	1760.475
38.0	1704.142	1681.778	1721.693	1770.949	1793.312	1783.970	1745.754	1715.465	1745.188
38.5	1689.988	1668.757	1710.086	1760.475	1783.687	1773.496	1734.148	1702.726	1730.751
39.0	1676.400	1655.169	1698.480	1750.284	1773.496	1762.739	1722.259	1689.138	1716.031
39.5	1662.812	1641.864	1686.874	1739.810	1763.305	1752.265	1710.086	1676.117	1701.028
40.0	1648.658	1628.276	1674.984	1729.053	1753.114	1741.225	1698.197	1662.529	1686.308
40.5	1634.787	1614.971	1662.812	1717.446	1742.641	1730.185	1686.308	1648.941	1671.304
41.0	1620.633	1601.384	1650.356	1706.972	1732.733	1718.862	1673.852	1635.636	1656.301
41.5	1605.913	1587.796	1638.184	1695.932	1721.693	1707.822	1660.830	1621.482	1641.015
42.0	1591.193	1573.359	1625.162	1684.326	1711.219	1696.215	1648.092	1607.611	1625.445
42.5	1576.756	1559.488	1612.141	1673.003	1699.895	1684.326	1635.353	1593.740	1609.876
43.0	1561.469	1545.051	1599.402	1661.397	1689.138	1672.720	1622.048	1579.020	1594.307
43.5	1546.466	1530.047	1586.380	1650.073	1677.815	1661.113	1609.027	1564.866	1578.171
44.0	1530.331	1515.327	1572.793	1638.184	1666.492	1649.224	1596.005	1549.580	1561.752
44.5	1514.761	1500.324	1559.205	1626.578	1655.452	1637.618	1582.417	1535.426	1546.749
45.0	1498.342	1485.321	1545.617	1614.688	1643.846	1626.012	1568.546	1519.857	1530.331
45.5	1482.207	1470.318	1532.029	1602.799	1632.522	1614.122	1555.525	1504.853	1513.346
46.0	1466.071	1454.748	1518.441	1591.193	1621.199	1602.233	1541.937	1489.567	1496.927
46.5	1448.803	1439.179	1504.853	1579.020	1609.310	1589.777	1527.783	1473.998	1480.225
47.0	1432.668	1423.609	1490.982	1566.848	1597.704	1578.454	1514.478	1458.428	1463.807
47.5	1415.683	1408.323	1477.111	1555.242	1586.380	1566.565	1500.607	1443.425	1447.105
48.0	1398.981	1393.037	1462.957	1543.069	1574.491	1554.958	1486.736	1427.289	1430.120
48.5	1382.280	1377.184	1449.370	1530.897	1563.168	1543.069	1473.148	1411.720	1413.135
49.0	1365.012	1361.615	1434.933	1519.290	1551.278	1530.897	1459.277	1395.868	1395.584
49.5	1348.593	1345.479	1421.062	1506.835	1540.238	1519.007	1445.123	1380.298	1378.883
50.0	1331.608	1329.627	1407.474	1494.946	1528.066	1506.552	1431.253	1364.163	1361.332
50.5	1314.340	1313.774	1393.037	1482.207	1517.026	1494.662	1417.382	1348.593	1343.781
51.0	1297.639	1297.639	1378.883	1470.318	1505.136	1482.490	1403.228	1332.458	1326.230
51.5	1280.937	1282.069	1365.012	1457.862	1493.247	1470.034	1389.357	1316.605	1308.962
52.0	1263.669	1265.651	1350.575	1445.123	1481.641	1457.862	1375.203	1300.753	1291.411
52.5	1246.684	1249.515	1336.421	1432.951	1469.751	1445.123	1361.332	1284.617	1274.143
53.0	1229.416	1233.663	1322.833	1420.495	1458.428	1432.951	1347.178	1267.915	1256.309
53.5	1212.432	1217.810	1308.396	1407.757	1446.539	1420.212	1333.307	1252.063	1238.192
54.0	1194.598	1201.108	1294.242	1395.584	1434.649	1407.474	1318.587	1235.927	1220.641
54.5	1177.330	1184.973	1280.088	1382.846	1422.760	1395.018	1304.999	1219.226	1202.241

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**CANDELA TABULATION - (Cont.)**

55.0	1159.496	1168.271	1265.651	1370.107	1410.871	1382.563	1290.845	1202.807	1183.841
55.5	1141.379	1151.853	1251.780	1357.652	1398.698	1370.107	1276.691	1186.388	1165.440
56.0	1123.545	1135.434	1237.060	1344.913	1386.526	1357.935	1262.537	1169.970	1147.040
56.5	1105.144	1118.732	1222.906	1332.458	1375.203	1345.479	1248.383	1152.985	1128.357
57.0	1086.744	1102.314	1208.752	1319.719	1363.313	1333.307	1234.229	1136.566	1109.674
57.5	1068.061	1085.612	1193.748	1307.547	1351.424	1320.851	1220.358	1119.581	1090.424
58.0	1050.227	1068.627	1179.594	1295.091	1339.818	1308.679	1206.487	1103.163	1071.458
58.5	1030.977	1051.925	1165.157	1282.919	1327.928	1296.223	1192.050	1085.895	1052.491
59.0	1012.577	1034.941	1151.003	1270.180	1316.605	1283.768	1178.179	1069.193	1032.676
59.5	993.328	1018.522	1136.849	1257.724	1304.716	1271.878	1163.742	1052.491	1013.426
60.0	974.928	1001.537	1122.412	1245.835	1293.393	1259.706	1149.871	1035.224	994.460
60.5	955.678	985.118	1108.541	1233.663	1281.503	1247.251	1135.717	1017.956	975.211
61.0	937.278	968.417	1094.670	1221.490	1270.180	1235.078	1121.846	1001.254	956.527
61.5	918.312	951.715	1081.083	1209.318	1258.291	1222.906	1107.692	983.703	937.561
62.0	899.628	934.730	1067.212	1197.145	1246.684	1210.450	1093.538	967.284	918.878
62.5	880.662	918.312	1053.624	1184.973	1235.361	1197.712	1079.384	950.016	899.911
63.0	861.412	901.610	1039.753	1173.084	1223.472	1185.539	1065.230	932.749	881.228
63.5	842.446	885.191	1026.448	1160.628	1211.866	1173.367	1050.793	915.481	862.262
64.0	823.197	868.489	1013.143	1148.739	1199.976	1161.194	1036.639	898.496	843.295
64.5	803.947	852.354	999.839	1136.566	1187.804	1148.456	1022.485	881.228	824.329
65.0	784.698	835.369	986.251	1124.111	1175.631	1136.283	1008.897	864.526	805.363
65.5	765.448	818.950	972.663	1112.221	1164.025	1123.545	995.309	847.542	786.113
66.0	745.633	802.532	959.924	1100.049	1152.136	1111.089	981.721	830.557	767.147
66.5	725.817	786.396	946.620	1087.876	1140.529	1099.200	968.134	813.855	747.331
67.0	706.285	769.978	933.598	1075.704	1128.640	1086.461	955.112	797.436	727.799
67.5	686.752	753.276	920.859	1063.532	1116.751	1074.572	942.090	780.735	707.700
68.0	666.936	737.140	907.838	1051.359	1104.861	1062.116	929.352	764.316	687.884
68.5	647.121	720.722	895.099	1039.187	1092.689	1050.227	916.613	747.331	667.503
69.0	627.305	704.586	882.077	1027.014	1081.366	1038.337	904.158	730.913	647.404
69.5	608.056	688.451	869.339	1014.842	1069.193	1026.165	891.419	714.494	627.022
70.0	588.523	672.315	856.317	1002.952	1057.870	1014.276	878.397	698.075	606.640
70.5	568.991	656.179	843.295	990.780	1045.981	1002.103	865.376	681.940	586.259
71.0	548.892	640.327	830.557	978.891	1034.091	990.214	852.354	665.521	566.160
71.5	529.360	624.474	817.535	966.718	1022.485	978.324	839.049	649.386	545.778
72.0	510.110	609.188	804.796	954.263	1010.879	966.152	825.744	633.250	526.246
72.5	490.861	593.619	791.492	942.373	998.989	954.263	812.723	617.114	505.864
73.0	471.328	578.332	779.036	930.484	987.383	941.807	799.135	601.545	486.331
73.5	451.796	563.046	766.014	918.595	975.494	929.918	785.830	585.693	466.799
74.0	432.829	548.326	752.993	906.139	963.887	917.745	773.091	570.406	447.266
74.5	413.863	533.889	740.537	894.250	952.281	905.573	759.787	555.120	428.017
75.0	394.614	519.452	727.799	882.360	940.675	893.117	746.765	540.400	408.484
75.5	375.647	505.581	715.060	870.471	929.352	881.511	733.743	525.396	389.235
76.0	356.964	491.710	702.605	858.582	917.745	869.622	720.722	511.242	370.269
76.5	337.998	477.839	690.149	846.692	905.856	857.166	707.983	497.372	351.302
77.0	319.314	464.534	677.694	834.803	894.533	845.277	695.244	483.501	332.619
77.5	300.348	451.513	665.238	823.197	882.927	833.388	682.789	469.913	313.936
78.0	281.608	438.491	653.066	811.590	871.603	821.781	670.050	456.891	294.969
78.5	263.349	425.469	640.610	799.984	859.997	809.892	657.878	443.869	276.343
79.0	245.713	412.448	628.721	788.378	848.674	798.286	645.422	430.848	258.169
79.5	227.681	399.143	616.548	776.772	837.351	786.396	633.250	417.260	240.590
80.0	210.357	385.555	604.376	765.731	826.027	774.790	621.361	403.955	222.671
80.5	192.947	372.250	592.486	753.842	814.704	763.184	609.188	390.367	205.120
81.0	176.132	358.945	580.880	742.519	803.664	751.860	597.299	377.063	188.305
81.5	159.912	345.924	568.991	731.196	792.341	740.254	585.409	363.475	171.631
82.0	144.314	332.902	557.101	719.589	781.301	728.931	573.803	350.170	155.552
82.5	128.801	320.163	545.495	707.983	769.695	717.325	561.914	337.431	140.068

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**CANDELA TABULATION - (Cont.)**

83.0	114.110	307.708	533.889	696.943	758.937	705.718	550.024	324.693	124.442
83.5	99.899	295.536	522.283	685.903	747.614	694.678	538.418	311.671	110.005
84.0	86.170	283.646	510.959	674.297	736.574	683.355	526.812	299.499	95.823
84.5	73.771	271.785	499.353	663.256	725.251	672.032	515.206	287.609	82.744
85.0	61.655	260.405	488.030	651.933	713.928	660.709	503.882	275.833	70.260
85.5	50.218	249.195	476.990	640.610	702.605	649.386	492.276	264.227	58.371
86.0	39.660	238.325	465.950	629.287	691.564	638.062	480.953	253.130	47.303
86.5	30.374	227.766	454.910	618.247	680.524	626.739	469.347	242.062	37.225
87.0	21.910	217.377	443.586	607.207	669.201	615.699	458.307	231.220	28.025
87.5	14.664	206.931	432.263	596.166	657.878	604.376	446.983	220.604	19.901
88.0	8.662	196.882	421.506	584.560	646.555	593.336	435.660	210.130	12.993
88.5	4.076	187.088	410.466	573.237	635.232	581.729	424.620	199.826	7.502
89.0	0.708	177.774	399.709	562.197	623.908	570.123	413.297	189.975	3.255
89.5	0.000	168.263	389.518	551.723	612.585	559.366	402.540	180.350	0.226
90.0	0.000	159.629	379.327	540.683	601.262	548.326	392.066	171.263	0.000
90.5	0.000	151.165	369.136	529.926	590.788	537.569	381.875	162.318	0.000
91.0	0.000	142.531	358.379	519.169	579.465	526.812	371.684	153.401	0.000
91.5	0.000	134.038	348.188	508.412	568.425	515.772	361.210	144.654	0.000
92.0	0.000	125.886	337.998	497.372	557.385	505.015	350.736	136.218	0.000
92.5	0.000	117.875	327.807	486.331	546.061	493.692	340.545	127.811	0.000
93.0	0.000	110.090	317.899	475.574	534.738	482.651	330.354	119.686	0.000
93.5	0.000	102.362	307.708	464.534	523.981	471.894	320.163	111.902	0.000
94.0	0.000	94.888	298.083	453.494	512.658	460.854	310.256	104.060	0.000
94.5	0.000	87.217	288.175	442.737	501.618	450.097	300.065	96.360	0.000
95.0	0.000	79.829	278.466	431.980	490.295	439.057	290.440	88.774	0.000
95.5	0.000	72.582	268.784	420.940	479.254	428.583	280.617	81.301	0.000
96.0	0.000	65.108	259.273	410.466	468.214	417.826	270.851	73.771	0.000
96.5	0.000	57.862	249.705	399.709	457.174	407.352	261.113	66.043	0.000
97.0	0.000	50.586	240.505	389.235	446.134	396.595	251.318	58.682	0.000
97.5	0.000	43.311	230.908	379.044	435.094	385.838	241.524	51.181	0.000
98.0	0.000	35.810	221.482	368.287	424.054	375.364	231.843	43.623	0.000
98.5	0.000	28.393	211.970	357.813	413.297	364.890	222.359	36.008	0.000
99.0	0.000	20.976	202.742	347.339	402.540	354.133	212.678	28.478	0.000
99.5	0.000	13.616	193.117	336.865	391.500	343.376	203.025	20.835	0.000
100.0	0.000	6.822	183.606	326.391	380.460	332.902	193.145	13.475	0.000
100.5	0.000	1.783	174.038	315.917	369.986	322.428	183.577	7.445	0.000
101.0	0.000	0.000	164.611	305.443	358.945	311.954	173.811	2.859	0.000
101.5	0.000	0.000	155.015	294.686	347.905	301.197	164.186	0.708	0.000
102.0	0.000	0.000	145.248	284.212	337.431	290.440	154.279	0.000	0.000
102.5	0.000	0.000	135.567	273.795	326.108	279.910	144.710	0.000	0.000
103.0	0.000	0.000	125.659	263.095	315.068	269.181	134.859	0.000	0.000
103.5	0.000	0.000	115.695	252.338	304.311	258.367	125.008	0.000	0.000
104.0	0.000	0.000	105.929	241.722	293.271	247.808	115.015	0.000	0.000
104.5	0.000	0.000	96.021	231.107	282.372	236.966	104.825	0.000	0.000
105.0	0.000	0.000	85.745	220.463	271.106	226.238	94.803	0.000	0.000
105.5	0.000	0.000	75.724	209.592	260.179	215.424	84.641	0.000	0.000
106.0	0.000	0.000	65.363	198.609	248.997	204.525	74.167	0.000	0.000
106.5	0.000	0.000	55.201	187.937	237.731	193.542	63.721	0.000	0.000
107.0	0.000	0.000	45.066	176.699	226.407	182.615	53.276	0.000	0.000
107.5	0.000	0.000	34.507	165.630	214.858	171.405	42.688	0.000	0.000
108.0	0.000	0.000	24.486	154.647	203.704	160.167	32.413	0.000	0.000
108.5	0.000	0.000	14.947	143.295	192.183	148.843	22.929	0.000	0.000
109.0	0.000	0.000	7.728	132.029	180.690	137.520	15.003	0.000	0.000
109.5	0.000	0.000	3.454	120.620	169.084	125.942	8.407	0.000	0.000
110.0	0.000	0.000	1.302	109.241	157.392	114.308	4.218	0.000	0.000
110.5	0.000	0.000	0.226	97.436	145.503	102.475	1.755	0.000	0.000

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

111.0	0.000	0.000	0.000	85.717	133.472	90.840	0.226	0.000	0.000
111.5	0.000	0.000	0.000	73.856	121.668	78.951	0.000	0.000	0.000
112.0	0.000	0.000	0.000	61.796	109.694	66.892	0.000	0.000	0.000
112.5	0.000	0.000	0.000	49.907	97.464	54.974	0.000	0.000	0.000
113.0	0.000	0.000	0.000	38.046	85.292	43.113	0.000	0.000	0.000
113.5	0.000	0.000	0.000	27.034	72.723	31.960	0.000	0.000	0.000
114.0	0.000	0.000	0.000	17.523	60.211	22.618	0.000	0.000	0.000
114.5	0.000	0.000	0.000	9.879	47.982	14.267	0.000	0.000	0.000
115.0	0.000	0.000	0.000	5.095	36.093	8.011	0.000	0.000	0.000
115.5	0.000	0.000	0.000	2.463	25.675	4.586	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.849	16.617	2.123	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	9.342	0.311	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	5.209	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	2.604	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.679	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

<b>167.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>168.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>168.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>169.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>169.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>171.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>171.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>172.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>173.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>173.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>174.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>174.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>176.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>176.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>177.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>178.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>178.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>179.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>179.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	819.54	N.A.	10.40
0-30	1745.01	N.A.	22.10
0-40	2877.87	N.A.	36.50
0-60	5233.37	N.A.	66.40
0-80	6963.36	N.A.	88.40
0-90	7460.15	N.A.	94.70
10-90	7248.4	N.A.	92.00
20-40	2058.32	N.A.	26.10
20-50	3266.01	N.A.	41.40
40-70	3337.45	N.A.	42.40
60-80	1729.99	N.A.	22.00
70-80	748.04	N.A.	9.50
80-90	496.79	N.A.	6.30
90-110	406.48	N.A.	5.20
90-120	420.18	N.A.	5.30
90-130	420.18	N.A.	5.30
90-150	420.18	N.A.	5.30
90-180	420.18	N.A.	5.30
110-180	13.70	N.A.	0.20
0-180	7880.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	211.75
10-20	607.80
20-30	925.47
30-40	1132.86
40-50	1207.68
50-60	1147.82
60-70	981.95
70-80	748.04
80-90	496.79
90-100	287.29
100-110	119.18
110-120	13.70
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

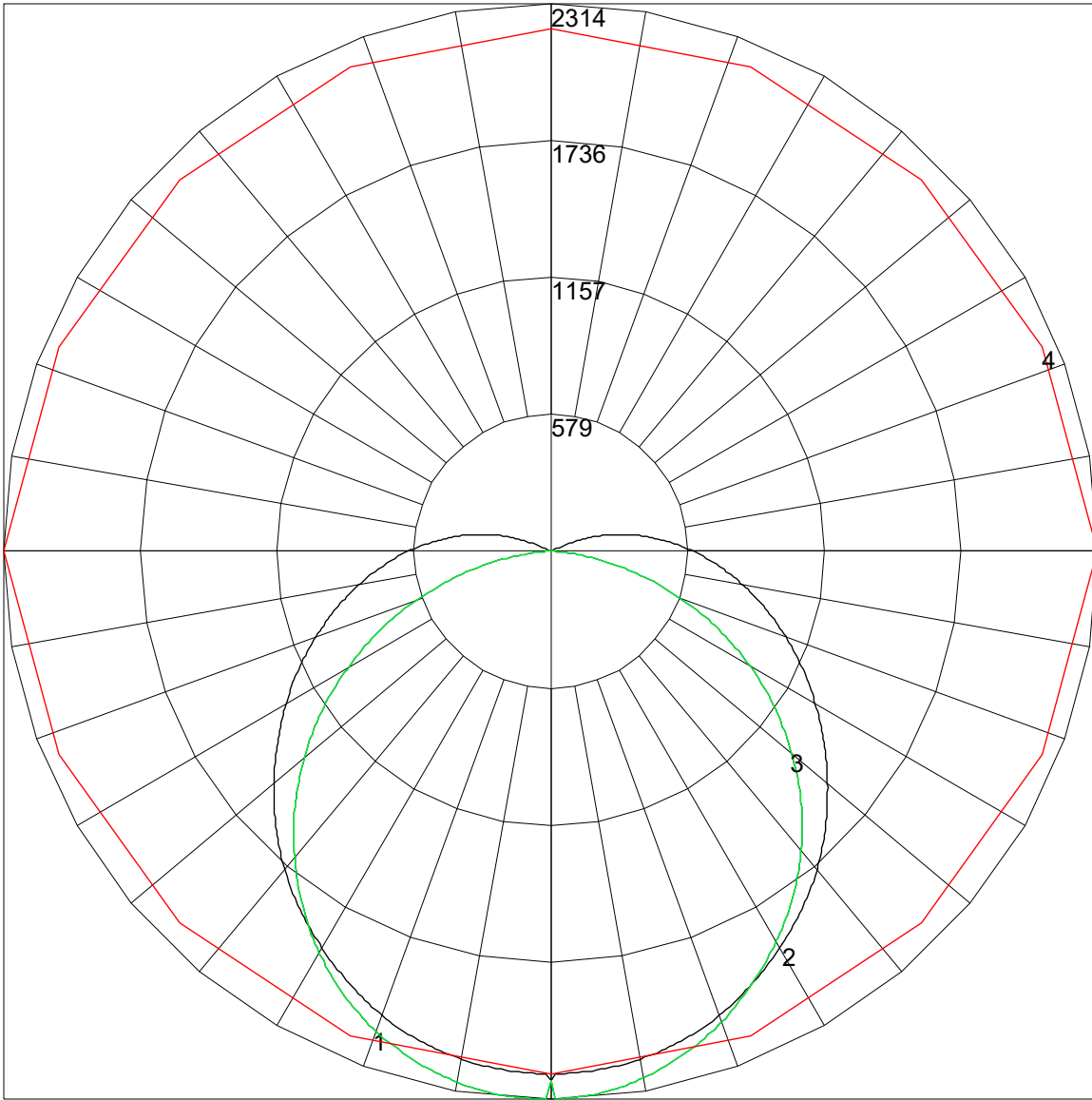
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96M-40.IES**

**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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	105	99	94	90	102	97	92	88	91	87	84	86	83	80	82	79	77	74
2	95	85	78	71	92	83	76	70	79	73	67	74	69	65	71	66	63	60
3	86	74	65	58	83	72	64	57	69	61	56	65	59	54	62	57	52	50
4	78	66	56	49	76	64	55	48	61	53	47	58	51	46	55	49	45	42
5	72	58	49	42	69	57	48	41	54	46	40	51	45	39	49	43	38	36
6	66	52	43	36	64	51	42	36	49	41	35	46	40	34	44	38	34	31
7	61	47	38	32	59	46	38	31	44	36	31	42	35	30	40	34	30	28
8	57	43	34	28	55	42	34	28	40	33	27	39	32	27	37	31	26	24
9	53	39	31	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	36	28	23	48	36	28	23	34	27	22	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 2314.179 Located At Horizontal Angle = 180, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 4 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)