



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 770-48LED48DMV30.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] 770-48LED48DMV30
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 770-48LED48DMV30
 [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 "860"
 [MORE] Operating at 120Vac and 60Hz.
 [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 created by LightLab/LSA Report program version 3.807a.
 [DATE] This file created: Friday, May 15, 2015 7:11:02 AM
 [ISSUE DATE] Friday, May 15, 2015 7:11:02 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	48
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6093	5346	5152
55	4819	3764	3249
65	3013	2513	2038
75	2081	1810	1716
85	1481	1647	2079

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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>
0.0	1927.224	1927.224	1927.224	1927.224	1927.224	1927.224	1927.224	1927.224	1927.224	1927.224
0.5	1917.377	1925.879	1928.472	1930.617	1930.656	1928.375	1928.141	1928.687	1927.868	1928.375
1.0	1917.045	1926.132	1929.486	1930.637	1931.300	1928.531	1929.486	1930.266	1928.726	1929.993
1.5	1918.761	1927.575	1930.656	1932.255	1933.308	1930.032	1931.261	1931.787	1931.339	1932.333
2.0	1920.380	1929.798	1932.762	1933.796	1935.375	1933.133	1934.751	1934.673	1935.024	1937.364
2.5	1923.012	1932.216	1934.615	1936.272	1937.735	1936.155	1939.100	1939.197	1941.381	1942.259
3.0	1925.060	1933.893	1937.949	1939.392	1941.245	1940.445	1943.370	1944.813	1946.022	1948.323
3.5	1927.029	1935.999	1939.353	1940.991	1944.501	1945.281	1947.816	1949.591	1951.677	1953.588
4.0	1926.639	1936.253	1940.114	1943.429	1947.095	1949.415	1952.360	1954.017	1956.630	1958.268
4.5	1925.508	1935.044	1942.181	1943.741	1950.137	1953.276	1957.371	1958.756	1960.667	1963.962
5.0	1924.494	1934.127	1941.908	1944.267	1952.126	1956.182	1960.628	1963.455	1965.990	1968.447
5.5	1922.486	1932.509	1941.654	1945.535	1953.452	1958.580	1962.792	1967.160	1970.514	1974.141
6.0	1920.555	1930.929	1941.732	1945.418	1955.168	1960.823	1966.868	1970.183	1975.604	1979.114
6.5	1916.187	1927.868	1941.986	1946.217	1957.391	1962.929	1968.896	1974.044	1980.186	1982.702
7.0	1912.755	1924.416	1941.342	1944.677	1958.190	1966.088	1972.367	1976.949	1982.682	1984.223
7.5	1909.694	1921.764	1939.665	1943.936	1958.424	1967.121	1973.927	1979.777	1983.111	1984.164
8.0	1905.774	1918.937	1938.788	1943.897	1958.015	1969.305	1976.130	1979.328	1981.395	1980.888
8.5	1902.752	1916.207	1937.657	1943.078	1957.995	1970.534	1976.559	1979.289	1977.456	1976.423
9.0	1898.442	1913.633	1936.682	1942.395	1958.522	1969.520	1974.902	1976.072	1972.796	1968.623
9.5	1895.712	1910.903	1935.843	1941.089	1958.483	1968.759	1972.250	1972.718	1965.659	1960.784
10.0	1892.865	1908.953	1933.601	1941.011	1958.717	1967.570	1968.057	1967.433	1956.767	1950.137
10.5	1888.673	1905.540	1931.709	1937.735	1956.201	1964.684	1962.363	1960.062	1947.524	1937.657
11.0	1884.578	1902.362	1929.623	1936.116	1953.978	1959.828	1956.650	1951.755	1935.278	1923.383
11.5	1879.820	1899.437	1926.815	1933.133	1951.482	1954.290	1948.869	1942.122	1923.129	1908.738
12.0	1874.945	1896.239	1923.656	1931.378	1949.181	1946.744	1940.738	1931.729	1909.245	1895.361
12.5	1870.967	1892.748	1921.472	1928.823	1945.535	1939.139	1930.676	1921.803	1895.888	1882.413
13.0	1868.256	1891.071	1919.892	1926.464	1942.103	1930.812	1920.867	1909.538	1883.310	1871.708
13.5	1865.175	1888.263	1918.469	1925.645	1938.885	1921.686	1909.050	1896.356	1872.878	1862.406
14.0	1862.504	1886.879	1917.338	1924.943	1934.283	1911.644	1897.038	1884.285	1863.186	1855.932
14.5	1858.370	1884.773	1917.884	1924.455	1929.623	1901.348	1884.675	1872.761	1855.971	1850.706
15.0	1852.832	1881.282	1916.967	1922.759	1924.650	1891.052	1874.457	1861.704	1850.277	1849.205
15.5	1844.720	1878.045	1915.680	1920.458	1917.747	1879.898	1863.908	1853.358	1846.143	1849.965
16.0	1837.914	1872.605	1913.204	1916.909	1908.816	1869.875	1854.138	1845.168	1844.466	1853.027
16.5	1829.958	1868.685	1909.577	1912.697	1899.749	1858.643	1843.647	1837.446	1845.519	1857.726
17.0	1822.958	1864.083	1905.111	1906.398	1889.960	1847.294	1834.131	1831.089	1846.436	1862.952
17.5	1815.255	1859.169	1900.587	1900.880	1880.970	1836.666	1824.615	1825.473	1849.107	1869.797
18.0	1810.400	1854.567	1895.576	1894.523	1870.616	1826.546	1817.907	1821.729	1852.305	1874.594
18.5	1805.096	1850.141	1889.492	1886.840	1859.754	1817.166	1812.155	1819.565	1854.255	1877.246
19.0	1800.240	1846.592	1882.784	1878.338	1849.322	1809.503	1806.812	1817.673	1857.102	1877.421
19.5	1795.775	1842.341	1875.081	1870.206	1839.338	1802.307	1803.984	1817.849	1858.857	1874.379
20.0	1792.343	1837.232	1867.535	1860.222	1828.398	1796.496	1802.093	1819.662	1857.746	1868.880
20.5	1788.053	1832.747	1859.520	1851.681	1816.757	1792.167	1800.767	1822.041	1855.367	1859.871
21.0	1783.080	1826.838	1851.018	1841.405	1806.071	1788.248	1801.059	1823.231	1850.472	1848.503
21.5	1778.751	1822.256	1841.639	1831.479	1795.677	1784.426	1801.820	1823.192	1843.628	1835.691
22.0	1773.486	1816.796	1832.220	1821.593	1784.874	1781.520	1801.040	1821.612	1832.337	1821.242
22.5	1767.480	1812.681	1822.704	1809.795	1774.461	1778.166	1799.948	1816.581	1821.749	1805.486
23.0	1760.246	1806.870	1813.247	1800.494	1765.043	1774.110	1797.159	1810.790	1806.539	1788.345
23.5	1751.217	1801.625	1803.692	1789.262	1754.844	1770.971	1794.020	1803.419	1790.510	1772.082
24.0	1742.832	1797.120	1793.630	1779.063	1746.966	1768.748	1790.159	1795.248	1775.885	1758.491
24.5	1734.915	1790.120	1782.144	1767.773	1738.854	1764.731	1784.504	1784.523	1761.669	1746.947
25.0	1725.458	1783.275	1770.191	1756.170	1731.678	1761.513	1778.576	1773.252	1748.760	1736.807
25.5	1716.078	1774.812	1758.491	1745.133	1725.965	1757.808	1770.951	1761.104	1737.392	1729.592
26.0	1707.713	1765.199	1745.991	1733.745	1721.285	1754.766	1761.864	1748.409	1727.349	1724.600
26.5	1701.551	1755.605	1733.784	1722.357	1714.986	1750.028	1751.256	1734.993	1719.179	1719.393

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27.0	1695.096	1744.548	1722.299	1710.794	1710.033	1743.651	1739.693	1721.324	1710.930	1716.273
27.5	1687.335	1733.901	1710.209	1699.796	1704.066	1735.637	1727.018	1709.916	1704.456	1710.735
28.0	1680.588	1723.391	1697.495	1688.193	1697.144	1726.121	1714.499	1698.665	1696.968	1706.484
28.5	1671.735	1712.568	1684.995	1676.552	1690.319	1715.513	1702.253	1688.544	1688.037	1698.918
29.0	1664.793	1701.200	1673.139	1664.949	1682.285	1702.935	1691.489	1678.814	1679.496	1689.734
29.5	1654.263	1691.333	1660.796	1654.517	1672.827	1691.079	1679.730	1669.902	1669.844	1678.424
30.0	1645.917	1681.212	1650.441	1643.792	1664.228	1676.825	1668.050	1661.244	1659.060	1666.880
30.5	1636.089	1671.423	1640.828	1634.724	1655.784	1664.130	1656.486	1651.670	1646.912	1655.355
31.0	1627.334	1662.375	1631.175	1626.963	1647.341	1651.572	1644.728	1640.321	1635.641	1644.299
31.5	1619.514	1651.767	1621.035	1618.227	1637.084	1638.156	1632.092	1628.835	1624.545	1634.061
32.0	1610.466	1641.978	1611.909	1608.731	1627.451	1625.871	1619.534	1616.355	1614.776	1626.086
32.5	1602.140	1630.064	1600.814	1600.034	1616.414	1611.851	1606.820	1604.831	1605.591	1616.043
33.0	1592.273	1619.943	1591.200	1589.757	1606.644	1598.357	1593.384	1593.131	1597.713	1607.171
33.5	1583.400	1607.561	1580.261	1579.676	1596.699	1584.512	1579.578	1582.757	1588.334	1598.025
34.0	1571.817	1594.496	1568.912	1569.263	1586.345	1570.491	1566.416	1572.402	1579.539	1589.796
34.5	1559.610	1581.626	1556.666	1557.797	1576.361	1557.621	1554.482	1561.404	1570.257	1580.826
35.0	1546.857	1568.795	1543.757	1545.551	1566.123	1543.971	1543.269	1550.504	1561.229	1570.452
35.5	1536.113	1554.735	1529.931	1531.979	1555.418	1530.633	1533.090	1538.141	1550.738	1558.460
36.0	1525.914	1540.520	1516.866	1520.103	1543.113	1515.969	1521.468	1527.474	1539.623	1545.668
36.5	1514.175	1526.694	1503.606	1508.345	1530.594	1502.982	1510.373	1515.950	1528.937	1530.360
37.0	1504.250	1514.565	1491.614	1495.709	1517.178	1489.683	1498.302	1503.470	1515.813	1512.030
37.5	1492.608	1502.280	1480.245	1484.165	1503.392	1476.950	1484.769	1491.594	1501.305	1492.764
38.0	1480.947	1489.040	1467.824	1472.387	1488.884	1464.216	1472.192	1478.295	1485.549	1474.356
38.5	1466.888	1473.947	1454.778	1460.219	1473.869	1451.307	1458.269	1466.069	1468.370	1453.901
39.0	1454.135	1458.756	1440.660	1447.953	1457.937	1438.769	1445.574	1452.185	1449.903	1435.707
39.5	1439.705	1444.307	1427.244	1433.952	1442.064	1425.489	1430.754	1438.671	1431.749	1419.386
40.0	1426.211	1428.473	1411.976	1420.244	1426.562	1410.962	1416.246	1424.436	1412.931	1401.738
40.5	1411.644	1413.146	1396.824	1405.775	1410.513	1396.610	1402.655	1409.928	1394.075	1384.676
41.0	1400.022	1398.618	1383.447	1392.125	1394.562	1381.595	1388.615	1394.562	1376.154	1367.301
41.5	1387.932	1383.467	1369.661	1376.642	1376.739	1366.404	1374.146	1377.168	1357.785	1350.005
42.0	1373.561	1369.700	1355.855	1361.919	1359.950	1351.155	1359.365	1358.370	1338.695	1331.675
42.5	1360.086	1353.593	1341.015	1345.968	1344.018	1336.238	1342.848	1339.514	1319.624	1313.540
43.0	1343.063	1336.725	1324.850	1329.549	1326.858	1319.156	1324.733	1318.337	1299.441	1294.761
43.5	1327.014	1319.819	1308.528	1311.785	1308.041	1302.288	1303.965	1296.321	1277.991	1275.495
44.0	1310.225	1300.689	1292.285	1295.678	1289.808	1284.348	1284.075	1274.072	1256.424	1256.405
44.5	1292.480	1283.159	1275.105	1278.479	1270.367	1262.976	1262.099	1250.886	1234.194	1236.671
45.0	1276.314	1265.862	1257.692	1262.138	1251.276	1242.248	1239.947	1225.712	1210.229	1214.811
45.5	1258.394	1247.240	1239.966	1244.529	1231.250	1221.324	1215.923	1200.771	1188.330	1193.205
46.0	1238.114	1228.188	1221.636	1226.901	1209.000	1198.548	1190.631	1174.524	1164.989	1169.669
46.5	1218.419	1207.791	1204.515	1208.279	1188.018	1176.221	1163.858	1148.258	1142.076	1144.923
47.0	1197.632	1187.102	1185.678	1188.389	1165.749	1152.138	1137.708	1123.610	1119.027	1120.217
47.5	1176.104	1166.607	1165.223	1169.240	1142.408	1126.983	1111.208	1098.201	1095.413	1094.535
48.0	1155.765	1148.355	1144.085	1147.673	1119.339	1100.307	1085.546	1073.222	1071.876	1068.990
48.5	1135.817	1127.919	1122.791	1125.618	1094.984	1073.729	1058.870	1048.964	1047.911	1043.523
49.0	1114.581	1107.990	1100.463	1102.745	1070.238	1048.652	1033.227	1025.310	1023.828	1017.237
49.5	1091.786	1088.822	1078.623	1078.350	1045.298	1022.834	1008.170	1002.515	999.044	990.132
50.0	1070.336	1068.503	1056.666	1053.332	1019.363	998.010	984.009	978.315	974.747	963.573
50.5	1046.487	1047.813	1032.935	1027.865	994.559	972.602	959.849	954.798	948.578	934.772
51.0	1023.770	1026.695	1009.788	1002.261	968.273	948.422	935.864	931.496	923.403	907.491
51.5	1000.077	1004.231	984.614	976.814	943.683	923.579	912.386	906.789	897.078	880.133
52.0	976.658	980.850	958.971	951.600	920.108	898.619	889.083	883.272	870.792	852.540
52.5	953.258	957.509	932.744	926.270	895.869	874.673	865.118	858.039	844.116	824.577
53.0	929.331	933.153	908.252	900.510	871.943	850.161	840.782	832.982	817.850	797.004
53.5	905.385	908.642	881.946	875.784	847.743	826.235	816.992	808.587	790.725	770.504
54.0	881.088	883.662	856.596	850.668	824.480	801.879	794.001	784.290	764.946	744.608
54.5	855.972	858.605	833.138	825.221	801.021	779.181	770.582	759.506	738.017	718.712

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CANDELA TABULATION - (Cont.)

55.0	829.901	831.402	808.002	800.046	778.460	755.976	746.148	734.877	713.447	694.434
55.5	804.239	804.960	784.505	776.276	755.274	733.688	722.963	711.965	688.019	670.703
56.0	778.167	779.201	759.681	750.828	732.050	710.522	699.894	688.760	664.151	649.136
56.5	751.140	753.071	735.852	727.916	711.107	689.637	677.586	667.095	641.804	626.750
57.0	725.030	727.116	712.374	704.477	689.520	667.895	655.454	645.333	620.217	606.782
57.5	699.855	701.532	689.208	682.539	668.129	647.907	634.881	624.332	599.742	587.457
58.0	672.204	676.163	667.095	660.855	648.336	627.764	614.289	605.007	580.496	568.737
58.5	647.946	651.495	644.670	639.171	628.797	608.049	594.731	585.059	561.815	550.388
59.0	622.167	627.530	623.786	618.950	608.907	589.310	576.342	566.612	545.006	533.598
59.5	597.792	603.545	602.823	598.845	590.343	570.180	558.519	547.892	528.216	516.185
60.0	574.841	581.471	582.933	580.067	572.208	552.650	540.638	532.019	512.480	500.058
60.5	552.104	558.929	562.634	561.171	554.502	535.704	524.472	515.366	495.866	484.263
61.0	530.264	538.064	544.148	542.744	536.270	519.617	509.048	499.415	481.299	468.683
61.5	510.452	517.277	525.291	524.609	519.675	503.900	493.214	485.277	466.616	452.751
62.0	491.498	497.640	506.903	506.591	503.003	488.670	478.374	470.282	452.381	438.146
62.5	472.017	479.135	488.826	490.211	486.954	472.973	464.510	456.632	437.931	425.022
63.0	454.701	461.156	471.686	473.148	471.744	458.543	450.431	442.709	424.281	411.450
63.5	437.151	443.625	454.779	456.885	456.612	445.497	436.898	429.098	411.372	398.132
64.0	420.771	427.538	438.614	441.227	441.987	431.789	424.086	416.052	398.288	384.521
64.5	405.912	411.470	422.663	425.822	427.635	418.938	410.573	402.500	385.710	371.534
65.0	390.897	396.396	406.946	410.534	413.868	406.692	398.463	390.546	373.269	358.956
65.5	377.891	381.011	392.009	396.708	400.608	393.530	386.412	377.774	361.023	348.329
66.0	362.739	366.698	378.495	382.259	387.368	381.986	374.303	365.586	349.752	337.019
66.5	349.128	352.931	364.689	368.745	374.517	370.091	362.856	355.544	337.935	326.840
67.0	337.077	339.242	351.410	355.388	362.388	358.664	351.683	343.356	326.781	317.285
67.5	323.895	326.957	338.169	342.888	350.220	347.022	340.899	332.417	317.031	307.457
68.0	311.708	313.677	326.372	330.603	338.559	336.453	330.116	321.419	306.521	298.136
68.5	299.813	301.607	313.073	318.650	327.639	325.572	319.781	310.947	297.882	288.405
69.0	287.469	290.199	301.607	307.418	315.510	315.315	309.212	300.164	288.678	279.845
69.5	277.407	278.538	290.667	295.776	305.136	305.234	299.637	292.052	279.104	270.855
70.0	266.507	266.955	279.279	284.388	293.631	295.074	289.361	282.302	270.738	262.626
70.5	254.865	256.425	269.510	273.312	284.447	284.388	279.435	272.844	262.665	255.060
71.0	245.018	245.856	258.414	264.108	274.443	274.716	270.153	264.849	254.592	246.870
71.5	234.683	235.482	248.099	252.837	264.459	264.693	262.334	256.406	246.558	239.753
72.0	225.206	225.537	239.168	243.614	255.314	256.523	253.305	248.508	238.875	233.103
72.5	215.943	216.177	229.593	233.708	245.466	246.753	244.199	240.279	232.070	226.454
73.0	207.051	205.725	220.058	225.050	235.931	237.413	236.087	232.811	225.537	221.267
73.5	197.087	198.101	211.400	216.099	226.668	229.554	228.209	224.991	219.765	215.982
74.0	188.838	189.033	202.956	207.753	219.063	220.935	220.799	218.966	214.247	211.088
74.5	179.732	180.083	194.513	199.037	210.152	213.135	213.155	211.439	209.060	205.686
75.0	173.375	173.238	186.401	190.613	201.650	204.126	206.369	205.647	203.151	201.806
75.5	165.243	165.438	179.010	182.891	193.518	197.204	199.388	199.719	198.920	197.691
76.0	157.775	157.970	170.898	175.929	186.011	190.398	192.290	194.162	194.084	194.298
76.5	150.443	150.989	164.502	168.656	178.484	183.300	186.303	188.487	190.437	191.666
77.0	142.370	144.515	156.858	161.382	171.815	176.690	180.161	183.515	186.869	189.189
77.5	137.495	137.943	150.560	154.694	164.522	171.152	173.589	178.230	183.281	187.707
78.0	130.416	130.962	143.969	148.122	158.282	164.873	167.895	172.965	180.648	185.504
78.5	123.708	124.625	137.339	141.765	152.159	157.853	162.630	167.778	177.860	184.841
79.0	118.424	118.950	131.567	135.603	146.406	152.237	156.839	164.229	175.715	183.768
79.5	112.574	113.373	125.756	129.207	139.991	146.445	152.022	160.427	174.642	183.105
80.0	105.924	107.972	118.755	123.162	134.141	141.726	147.537	157.190	172.926	182.325
80.5	101.264	101.732	113.588	117.800	128.115	136.247	142.896	152.958	170.469	181.389
81.0	95.706	96.096	107.504	111.657	122.051	131.489	139.347	150.618	169.065	179.868
81.5	90.441	90.851	102.258	106.080	117.000	126.731	135.857	147.440	166.920	178.913
82.0	84.533	84.455	96.116	100.289	110.741	121.524	131.762	144.300	164.853	177.294
82.5	79.599	80.555	91.065	94.517	105.866	117.566	128.271	140.985	163.157	174.701

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83.0	73.340	74.042	85.469	89.408	99.938	113.022	123.377	137.631	160.661	171.854
83.5	67.431	68.309	79.872	83.558	94.556	109.005	119.945	134.258	157.014	167.544
84.0	60.665	63.570	74.549	78.000	89.973	104.423	116.025	130.299	153.095	162.396
84.5	54.971	57.545	68.933	72.404	84.825	100.523	112.106	126.945	148.902	155.259
85.0	50.895	51.734	63.395	67.353	79.346	95.297	108.693	122.304	143.150	148.688
85.5	43.212	46.761	57.896	61.698	74.295	91.787	103.760	118.151	137.027	140.322
86.0	37.460	41.126	52.338	56.258	69.342	87.360	100.055	112.515	129.656	132.308
86.5	30.615	35.939	46.644	50.330	63.629	83.109	94.614	107.426	121.992	124.235
87.0	25.136	30.108	40.736	45.533	58.403	79.131	90.168	101.888	113.763	117.254
87.5	18.467	24.668	35.159	39.273	53.879	74.802	85.820	95.960	106.022	111.014
88.0	12.851	19.461	30.576	34.769	48.965	70.668	81.608	89.115	99.626	106.373
88.5	7.176	14.508	24.492	29.172	44.811	66.534	77.142	84.630	95.024	102.512
89.0	3.452	9.224	21.528	25.662	41.496	63.726	73.028	80.438	91.104	99.080
89.5	0.000	6.396	19.364	23.049	38.864	60.801	69.557	75.446	87.477	96.837
90.0	0.000	5.129	18.213	21.450	37.655	59.144	66.222	72.989	85.644	95.901
90.5	0.000	5.714	18.155	21.509	36.894	57.623	65.111	70.707	85.410	95.745
91.0	0.000	5.246	17.999	21.509	37.343	57.642	63.668	70.317	85.235	97.500
91.5	0.000	5.207	17.765	22.074	37.635	56.063	62.361	70.044	86.112	100.835
92.0	0.000	4.680	18.174	22.425	38.552	55.712	62.439	69.147	88.296	103.760
92.5	0.000	5.382	18.194	22.191	37.226	55.166	61.932	69.537	90.344	106.314
93.0	0.000	5.480	19.188	22.757	38.454	53.976	61.835	70.610	92.489	109.454
93.5	0.000	4.641	18.603	23.069	38.708	54.639	62.225	71.682	95.648	113.763
94.0	0.000	5.265	18.818	23.108	37.616	54.347	62.673	72.462	98.631	116.883
94.5	0.000	5.655	19.188	23.556	37.655	54.698	63.843	74.666	101.303	119.321
95.0	0.000	4.934	19.481	23.829	37.752	55.517	64.779	76.947	103.994	121.856
95.5	0.000	5.655	19.442	23.966	38.220	55.770	66.183	78.605	106.607	124.781
96.0	0.000	5.129	19.227	23.088	37.869	56.921	67.704	80.867	109.317	126.516
96.5	0.000	5.480	19.422	23.946	38.357	58.032	69.830	83.441	111.267	130.397
97.0	2.399	5.343	19.305	24.336	38.298	58.890	71.370	85.664	113.451	130.904
97.5	0.000	5.987	19.949	24.141	39.059	59.729	73.457	87.029	114.875	131.664
98.0	0.000	5.948	19.988	24.336	39.390	61.289	74.198	88.725	116.591	130.221
98.5	0.000	5.694	20.085	24.551	39.975	62.654	76.167	90.929	117.254	130.007
99.0	0.000	5.928	20.963	24.921	40.950	63.824	77.805	91.104	117.878	128.954
99.5	0.000	6.533	20.261	24.921	41.223	64.779	78.995	94.205	116.864	127.296
100.0	0.000	5.850	21.314	25.097	42.432	65.930	80.204	94.848	115.830	124.410
100.5	0.000	6.201	20.885	25.857	41.984	67.607	80.964	94.907	114.933	121.583
101.0	0.000	6.669	22.230	25.916	42.725	68.972	81.179	95.102	113.003	119.496
101.5	0.000	6.435	22.133	26.540	42.959	69.596	82.485	94.536	110.409	116.123
102.0	0.000	7.020	22.542	25.974	44.441	69.479	81.959	94.029	108.498	112.769
102.5	0.000	7.040	22.952	27.573	44.265	70.025	82.251	92.820	105.671	110.019
103.0	0.000	7.098	22.698	27.612	44.343	70.356	82.037	91.787	101.927	106.217
103.5	0.000	6.786	23.322	27.944	45.143	70.610	80.555	89.427	99.801	103.272
104.0	0.000	7.293	23.576	28.490	45.903	69.986	80.633	88.082	97.266	100.425
104.5	0.000	7.800	24.005	28.568	45.357	69.518	78.702	85.488	94.302	97.539
105.0	0.000	7.761	23.283	28.880	46.508	67.958	77.454	83.948	91.397	94.926
105.5	0.000	7.644	23.751	29.367	46.703	68.016	76.167	81.393	89.096	92.196
106.0	2.418	7.371	24.044	29.894	47.268	67.509	74.178	79.658	86.990	90.071
106.5	0.000	8.015	24.609	29.250	46.820	66.983	73.067	78.078	85.176	88.277
107.0	2.574	8.892	24.531	30.284	46.859	65.442	71.468	76.791	83.285	87.243
107.5	2.340	8.385	25.428	30.693	46.995	64.331	71.097	75.777	82.427	85.917
108.0	0.000	9.087	26.130	30.927	47.112	63.434	70.122	75.173	81.861	84.669
108.5	2.574	9.438	26.384	30.264	46.293	62.868	68.699	73.515	80.574	84.240
109.0	0.000	9.107	26.462	31.298	46.508	61.971	68.387	72.891	80.243	83.519
109.5	2.672	9.087	26.949	30.576	46.508	61.464	67.334	72.423	80.282	83.070
110.0	0.000	10.179	26.871	32.175	46.040	61.698	67.295	71.799	79.209	82.310
110.5	0.000	9.633	27.437	32.097	46.508	61.211	67.490	72.677	79.170	81.998

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111.0	2.457	10.199	27.398	31.941	46.391	61.172	67.353	71.292	79.151	82.095
111.5	2.340	9.945	27.690	31.980	46.254	61.484	67.509	72.131	79.307	81.939
112.0	3.198	10.647	27.846	32.526	46.176	61.991	67.880	72.306	80.360	82.466
112.5	3.491	10.316	28.997	32.331	46.157	61.698	67.529	72.657	80.574	83.265
113.0	0.000	11.076	28.568	33.696	46.605	62.303	68.640	72.696	80.145	83.012
113.5	2.730	10.803	29.055	33.521	47.346	62.966	69.303	73.457	81.783	83.733
114.0	0.000	10.842	28.685	33.911	47.444	63.161	69.050	74.588	81.959	84.455
114.5	2.516	11.037	29.679	34.086	47.736	63.882	69.791	75.173	82.407	84.806
115.0	2.672	11.505	29.835	34.652	48.009	63.902	70.590	76.284	83.480	85.820
115.5	0.000	11.330	30.381	34.710	48.341	65.130	70.668	76.206	83.714	86.015
116.0	3.530	11.798	30.791	34.379	48.692	65.442	72.131	76.596	83.967	87.126
116.5	2.438	11.505	30.557	35.178	48.594	65.501	72.443	77.610	85.488	87.750
117.0	2.652	12.071	30.615	35.178	49.491	67.002	72.872	78.839	85.644	88.589
117.5	0.000	11.973	30.576	34.866	49.784	66.320	74.276	79.404	86.561	89.466
118.0	3.120	10.959	31.083	34.632	50.330	67.353	74.412	79.970	86.658	89.310
118.5	2.847	12.812	31.181	35.939	50.661	68.153	74.588	80.145	87.497	90.461
119.0	3.140	12.519	31.649	36.972	51.675	68.406	74.666	80.633	88.277	90.753
119.5	0.000	12.441	31.376	36.465	51.110	69.108	75.602	81.062	88.881	92.235
120.0	4.173	12.207	31.746	36.114	51.461	69.362	75.777	82.193	88.979	91.904
120.5	4.017	11.661	31.668	36.485	52.046	69.284	76.499	82.563	89.486	92.937
121.0	3.803	12.383	31.239	35.724	51.851	69.674	76.733	82.680	90.422	93.386
121.5	4.037	12.734	30.537	36.465	51.422	69.264	77.220	82.817	90.695	93.737
122.0	3.744	12.597	31.005	35.939	51.266	69.791	76.986	83.421	91.046	94.029
122.5	3.237	12.558	31.532	36.173	51.597	68.894	76.206	82.992	90.402	94.049
123.0	3.881	12.461	31.278	36.036	50.739	69.401	77.064	83.187	90.929	94.049
123.5	3.452	11.622	31.025	35.412	51.324	69.206	76.772	82.173	91.124	93.873
124.0	4.076	11.954	30.245	35.627	50.895	68.367	76.908	81.783	90.539	94.302
124.5	3.920	11.895	29.933	34.730	49.745	68.328	75.914	82.349	90.110	94.029
125.0	4.485	11.798	29.484	34.593	49.511	68.367	74.861	81.452	90.266	93.971
125.5	3.335	11.798	28.880	33.969	48.224	67.977	74.451	80.984	89.993	94.068
126.0	4.758	11.973	28.568	33.423	48.282	66.612	74.100	80.301	89.778	93.249
126.5	3.822	12.266	28.860	33.306	47.697	66.261	73.379	79.443	89.057	93.171
127.0	4.115	11.310	28.997	32.507	47.288	65.793	72.989	79.541	88.004	92.118
127.5	4.271	11.661	27.378	31.805	46.059	65.169	72.150	78.585	87.107	91.358
128.0	4.095	11.310	27.164	31.785	45.689	63.453	71.234	76.928	86.307	90.519
128.5	3.861	11.135	26.774	30.654	44.363	63.024	70.239	75.855	85.683	89.856
129.0	4.115	11.076	26.423	30.284	44.207	61.815	68.913	75.036	85.235	88.842
129.5	4.817	10.686	26.072	29.894	43.134	61.172	67.431	74.295	83.831	87.711
130.0	4.193	11.037	25.331	29.796	43.427	60.314	66.807	73.047	82.524	86.522
130.5	3.549	10.764	24.765	28.568	41.574	58.754	66.008	72.677	80.808	85.605
131.0	4.778	10.706	24.843	27.944	40.053	57.486	64.253	71.019	79.307	84.494
131.5	4.544	10.862	23.439	27.651	40.034	56.609	63.083	68.991	78.488	83.168
132.0	4.680	9.477	22.854	26.637	38.337	54.990	62.205	68.348	77.610	81.354
132.5	5.012	10.238	23.322	26.579	38.415	54.035	60.645	67.451	75.992	80.282
133.0	5.012	9.906	22.523	25.721	37.635	52.845	59.514	65.676	74.880	79.365
133.5	5.012	9.068	21.509	25.116	36.212	52.143	57.974	64.526	73.125	78.293
134.0	5.538	10.316	21.372	24.395	35.373	50.349	56.823	62.732	71.624	76.323
134.5	5.792	9.614	20.748	24.531	34.262	49.998	55.205	61.874	70.376	74.919
135.0	4.563	9.243	21.236	23.810	33.930	47.853	53.703	59.846	68.328	73.769
135.5	5.012	9.165	19.598	23.478	33.423	47.073	52.631	58.208	67.275	71.702
136.0	5.265	9.243	19.208	22.679	32.565	45.435	51.500	56.999	66.612	70.103
136.5	4.466	9.087	18.993	21.899	31.161	44.246	50.193	55.692	64.370	68.445
137.0	4.388	8.346	19.344	21.996	30.947	42.510	48.341	54.113	62.264	66.456
137.5	5.168	8.853	18.096	21.021	30.810	41.769	47.171	52.436	60.723	65.169
138.0	4.641	8.892	18.311	20.378	29.406	40.931	45.942	50.915	58.676	63.219
138.5	5.519	9.282	17.316	19.617	28.626	39.917	44.909	49.862	57.174	61.835

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139.0	5.889	8.522	17.628	19.617	27.534	38.766	43.115	48.360	56.433	60.411
139.5	5.109	8.483	16.926	18.915	27.222	37.343	41.925	47.288	54.639	58.461
140.0	6.006	7.898	16.478	18.681	26.169	37.148	40.521	46.137	52.982	56.706
140.5	5.441	8.327	15.912	18.018	25.506	35.841	39.683	44.109	51.870	55.419
141.0	4.349	8.463	16.166	18.155	25.175	35.256	38.435	42.978	50.564	53.879
141.5	5.343	7.859	15.698	17.706	24.492	33.423	38.142	42.120	48.711	51.753
142.0	5.655	8.054	14.664	17.141	24.473	32.682	36.485	39.839	48.165	50.720
142.5	5.109	7.469	15.210	16.887	23.303	31.785	35.861	39.546	45.962	49.569
143.0	5.402	8.093	14.742	16.049	23.654	31.668	35.276	38.474	44.597	47.580
143.5	5.187	8.249	14.177	16.088	22.796	30.284	33.930	37.245	42.842	46.722
144.0	5.616	7.527	14.469	15.210	21.840	30.050	32.838	36.972	42.296	45.260
144.5	4.758	7.254	14.099	15.503	20.592	28.880	31.844	35.568	41.711	43.856
145.0	5.792	6.767	14.079	15.308	20.943	28.373	31.707	34.262	39.800	43.173
145.5	4.973	8.034	13.748	15.035	21.099	28.100	30.420	33.638	39.117	42.120
146.0	5.402	7.001	12.987	14.703	20.163	27.885	29.543	32.565	37.947	41.009
146.5	5.714	8.054	12.987	14.235	19.968	26.813	28.743	31.044	36.543	39.390
147.0	5.519	6.942	12.909	14.040	19.715	25.136	28.451	30.927	36.231	38.123
147.5	5.148	7.625	12.558	13.728	19.325	25.175	28.158	29.933	34.671	38.532
148.0	5.714	7.196	12.285	13.436	18.740	24.258	26.891	29.153	33.852	36.719
148.5	6.182	7.215	12.383	13.397	18.759	23.420	26.013	29.231	33.345	35.705
149.0	5.616	7.098	12.402	13.163	17.960	23.985	26.072	28.080	32.195	34.652
149.5	6.728	7.391	11.564	12.558	17.706	23.010	24.707	26.969	31.434	33.365
150.0	6.084	7.508	11.583	12.617	17.004	23.166	24.258	26.813	30.654	32.448
150.5	5.636	6.728	11.349	12.675	16.068	21.743	24.278	26.325	29.426	31.746
151.0	6.455	7.235	11.427	12.110	16.595	21.509	23.322	26.345	28.568	30.596
151.5	6.377	7.215	10.920	12.032	16.517	20.846	22.854	24.512	27.651	30.557
152.0	6.084	7.508	10.608	11.837	16.088	20.807	22.445	23.732	27.339	29.075
152.5	6.221	6.942	10.608	11.700	15.639	20.553	21.041	23.615	26.910	28.451
153.0	5.558	7.137	10.686	11.076	14.625	19.344	21.294	22.952	26.306	28.646
153.5	5.675	6.611	10.179	11.154	14.118	18.642	20.222	22.523	25.799	26.891
154.0	5.870	6.845	10.433	11.213	14.060	19.130	19.812	21.840	24.278	27.027
154.5	5.850	6.864	9.750	11.018	14.216	19.130	19.734	21.255	23.810	25.896
155.0	6.084	6.923	9.341	10.140	13.202	18.038	18.896	20.534	23.771	25.604
155.5	5.870	7.176	9.750	10.901	13.319	17.901	18.038	20.709	22.581	24.161
156.0	5.382	6.611	9.828	10.472	13.007	17.063	17.979	19.890	22.718	23.498
156.5	5.792	6.240	9.789	10.218	11.934	16.829	17.765	19.013	21.899	23.361
157.0	6.318	6.435	9.087	8.639	12.324	15.971	18.077	18.857	21.548	22.698
157.5	5.967	6.689	8.463	8.990	12.383	16.205	16.595	18.564	20.631	21.548
158.0	6.591	6.474	9.107	9.594	12.344	15.522	16.595	18.018	19.325	21.957
158.5	5.694	5.928	8.229	9.302	11.408	14.937	16.146	17.375	19.266	20.729
159.0	5.441	6.455	8.580	8.970	11.291	14.762	15.542	17.667	19.286	20.300
159.5	4.739	6.299	8.795	8.444	11.349	13.865	15.132	16.770	19.032	20.417
160.0	5.597	6.182	7.566	8.502	10.628	13.611	14.684	15.698	18.408	19.364
160.5	5.714	5.811	7.664	8.600	10.803	12.987	13.397	15.873	17.589	19.052
161.0	4.992	5.558	8.034	7.625	9.984	12.968	13.650	14.528	17.082	18.350
161.5	5.402	5.870	7.176	7.586	10.082	12.597	13.124	14.859	16.556	17.667
162.0	5.889	5.967	7.059	7.742	9.731	12.032	13.689	14.489	16.341	17.492
162.5	4.875	6.494	6.845	7.878	10.199	12.227	12.636	13.533	15.854	16.653
163.0	5.519	6.279	7.098	7.352	8.756	11.525	12.227	13.221	14.937	16.556
163.5	5.421	5.909	7.254	7.508	9.263	11.642	11.603	13.065	14.469	16.224
164.0	5.889	5.792	7.293	7.137	8.678	11.622	11.115	12.578	14.801	16.068
164.5	5.051	5.187	7.254	6.981	9.419	11.193	10.862	11.915	14.684	15.210
165.0	6.455	5.226	7.469	7.040	8.288	10.725	10.277	11.661	13.475	14.450
165.5	5.421	6.123	7.449	6.903	8.307	9.984	10.316	10.784	12.519	13.943
166.0	6.026	6.279	6.942	5.967	7.995	10.121	10.472	10.998	12.539	13.202
166.5	5.811	5.772	6.299	6.689	7.527	9.848	9.497	10.140	11.720	12.909

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CANDELA TABULATION - (Cont.)

167.0	5.577	5.577	6.650	6.221	7.059	8.970	9.165	9.984	11.739	12.441
167.5	5.343	6.123	6.884	5.733	6.942	8.522	9.672	9.887	11.369	12.461
168.0	6.143	5.811	6.396	6.260	7.410	9.126	9.185	9.711	11.271	11.583
168.5	5.616	5.265	6.669	6.474	7.605	8.190	8.678	9.224	10.491	11.427
169.0	5.285	5.499	6.708	6.338	7.566	7.352	8.151	8.522	8.756	10.355
169.5	5.694	5.675	7.001	6.104	7.137	8.073	7.800	8.190	9.282	10.452
170.0	6.299	5.460	6.689	6.006	6.845	7.917	7.254	8.054	9.087	9.068
170.5	6.104	6.045	6.318	5.499	6.786	7.215	8.093	8.834	9.107	8.522
171.0	6.162	5.928	5.948	6.065	6.591	7.683	7.371	7.586	8.093	8.912
171.5	6.611	5.792	6.221	5.460	5.948	6.981	7.683	7.937	7.976	8.756
172.0	6.162	5.733	5.948	6.377	6.767	6.923	6.923	7.371	7.956	8.463
172.5	5.187	5.616	5.460	5.519	5.948	6.201	6.396	7.040	7.547	7.430
173.0	5.538	5.792	5.850	5.987	6.806	6.338	6.474	6.825	7.274	7.118
173.5	4.817	5.616	5.733	6.455	5.460	6.552	6.494	6.435	7.293	6.747
174.0	6.084	5.265	6.474	4.817	5.870	5.558	6.240	5.967	6.006	6.884
174.5	6.065	5.363	5.597	5.109	5.402	6.162	6.377	5.948	6.903	6.591
175.0	5.772	4.817	5.714	5.675	5.714	5.616	6.279	5.870	6.377	6.572
175.5	6.006	5.558	5.772	5.246	5.499	5.148	5.265	5.304	6.260	6.221
176.0	5.753	5.597	5.538	4.895	5.051	6.065	5.811	5.753	6.162	6.299
176.5	6.650	4.758	5.441	4.934	5.285	5.343	5.733	5.402	5.967	6.123
177.0	4.914	5.363	5.012	5.597	6.260	5.343	5.460	5.148	6.279	6.279
177.5	5.246	5.246	5.460	5.090	4.778	5.109	4.583	4.973	6.201	5.382
178.0	5.870	4.934	5.714	5.070	5.850	5.636	5.226	4.700	5.168	5.265
178.5	5.129	4.680	5.460	5.285	5.441	5.616	5.499	4.739	5.207	6.201
179.0	5.616	5.012	5.909	4.700	5.928	5.402	4.973	4.466	4.817	5.246
179.5	6.221	5.636	5.012	4.895	4.914	5.148	5.246	5.031	4.076	5.694
180.0	5.148	5.148	5.148	5.148	5.148	5.148	5.148	5.148	5.148	5.148

Vert. Horizontal Angles
Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	1927.224	1927.224	1927.224
0.5	1926.581	1927.263	1930.442
1.0	1928.102	1928.316	1930.617
1.5	1930.832	1932.548	1935.200
2.0	1934.927	1936.662	1939.256
2.5	1941.167	1942.103	1945.203
3.0	1946.217	1948.401	1952.106
3.5	1952.048	1953.510	1956.669
4.0	1956.767	1959.048	1961.642
4.5	1961.291	1963.416	1966.809
5.0	1966.634	1968.525	1972.581
5.5	1972.094	1972.542	1976.559
6.0	1976.696	1975.194	1977.846
6.5	1979.991	1976.774	1979.016
7.0	1980.966	1976.111	1977.066
7.5	1980.401	1974.395	1973.576
8.0	1977.612	1969.091	1968.798
8.5	1972.601	1963.221	1961.817
9.0	1964.391	1953.705	1951.814
9.5	1955.753	1944.092	1939.958
10.0	1945.086	1931.222	1926.308
10.5	1931.748	1917.162	1911.293
11.0	1916.909	1903.941	1897.116
11.5	1902.752	1891.286	1884.597
12.0	1889.570	1878.747	1872.975

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CANDELA TABULATION - (Cont.)

12.5	1877.850	1868.373	1863.869
13.0	1867.515	1860.339	1857.434
13.5	1859.598	1854.060	1852.403
14.0	1852.812	1850.063	1849.731
14.5	1849.614	1850.667	1850.141
15.0	1848.464	1853.729	1853.027
15.5	1850.238	1859.208	1858.857
16.0	1854.782	1867.788	1866.872
16.5	1860.398	1875.276	1873.541
17.0	1867.866	1882.004	1880.288
17.5	1874.262	1887.639	1886.099
18.0	1878.630	1891.266	1888.887
18.5	1881.146	1890.467	1887.249
19.0	1879.605	1884.773	1881.146
19.5	1875.783	1875.822	1870.986
20.0	1868.373	1864.395	1857.902
20.5	1857.785	1849.829	1843.394
21.0	1844.759	1834.190	1827.989
21.5	1829.880	1817.654	1810.127
22.0	1814.046	1801.332	1794.195
22.5	1798.524	1786.220	1780.097
23.0	1781.988	1773.174	1766.154
23.5	1767.207	1761.416	1756.190
24.0	1754.337	1753.109	1747.473
24.5	1744.158	1746.674	1742.949
25.0	1734.954	1742.676	1739.283
25.5	1728.597	1740.102	1739.303
26.0	1724.736	1736.436	1737.957
26.5	1720.622	1732.029	1733.472
27.0	1717.580	1724.795	1726.667
27.5	1714.148	1716.566	1717.463
28.0	1708.337	1705.334	1705.646
28.5	1699.971	1693.946	1693.653
29.0	1690.748	1683.572	1682.636
29.5	1679.516	1672.632	1672.047
30.0	1668.128	1663.545	1662.044
30.5	1656.954	1654.946	1653.522
31.0	1646.795	1647.185	1650.168
31.5	1636.967	1640.009	1646.288
32.0	1628.679	1633.340	1641.198
32.5	1620.041	1626.710	1635.758
33.0	1611.266	1618.364	1629.225
33.5	1602.452	1607.990	1616.024
34.0	1592.624	1594.925	1600.658
34.5	1582.484	1578.954	1582.601
35.0	1571.076	1561.560	1562.262
35.5	1557.192	1542.392	1541.592
36.0	1542.743	1524.218	1521.429
36.5	1525.115	1505.849	1504.698
37.0	1506.278	1489.586	1490.541
37.5	1487.831	1474.746	1475.702
38.0	1468.838	1459.634	1462.364
38.5	1451.366	1445.711	1447.407
39.0	1434.869	1431.437	1432.119
39.5	1417.592	1416.227	1417.319
40.0	1400.549	1400.081	1401.621

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CANDELA TABULATION - (Cont.)

40.5	1383.194	1383.818	1386.509
41.0	1366.131	1367.048	1371.045
41.5	1348.991	1350.590	1357.220
42.0	1330.875	1335.750	1343.258
42.5	1311.902	1319.292	1326.741
43.0	1293.338	1302.171	1310.751
43.5	1274.286	1283.627	1291.758
44.0	1254.962	1263.561	1271.888
44.5	1234.506	1242.209	1247.571
45.0	1213.622	1218.653	1222.787
45.5	1190.982	1193.868	1197.281
46.0	1167.758	1167.231	1167.270
46.5	1143.168	1140.399	1138.040
47.0	1118.579	1111.364	1107.971
47.5	1093.034	1083.167	1078.175
48.0	1066.065	1053.000	1046.604
48.5	1039.701	1022.912	1016.945
49.0	1012.440	992.862	986.934
49.5	984.536	963.164	955.949
50.0	956.807	934.343	926.991
50.5	928.688	904.703	897.254
51.0	900.140	875.336	869.096
51.5	871.884	847.724	841.152
52.0	843.902	820.560	812.799
52.5	815.939	793.670	786.221
53.0	788.541	767.423	759.213
53.5	763.308	742.638	734.780
54.0	737.802	718.127	710.873
54.5	712.647	694.805	687.083
55.0	688.526	672.243	664.502
55.5	665.750	651.027	643.266
56.0	643.812	630.962	621.855
56.5	622.908	611.150	602.979
57.0	603.408	591.825	582.836
57.5	584.064	572.910	564.896
58.0	565.344	554.307	546.468
58.5	546.878	537.167	527.651
59.0	530.049	519.110	510.003
59.5	512.831	501.638	493.994
60.0	496.256	485.180	476.112
60.5	480.519	468.839	460.707
61.0	464.724	452.556	445.302
61.5	449.475	437.015	429.897
62.0	435.533	422.760	415.487
62.5	421.434	408.330	400.121
63.0	406.868	393.588	386.412
63.5	394.056	380.016	372.255
64.0	380.094	366.717	359.619
64.5	367.205	354.861	347.003
65.0	355.446	343.941	337.272
65.5	344.409	333.080	325.728
66.0	332.904	322.004	316.115
66.5	322.842	312.566	307.067
67.0	313.209	302.738	297.609
67.5	304.220	293.865	288.600
68.0	294.372	284.466	279.708

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CANDELA TABULATION - (Cont.)

68.5	285.032	276.120	272.220
69.0	276.608	267.053	263.894
69.5	268.145	259.448	256.035
70.0	259.526	251.394	248.957
70.5	251.843	244.589	242.502
71.0	244.355	237.666	235.950
71.5	236.886	231.777	230.159
72.0	230.510	226.317	226.298
72.5	225.167	221.540	222.983
73.0	220.389	217.191	218.810
73.5	214.910	212.648	215.787
74.0	210.230	209.333	211.224
74.5	205.121	205.842	209.703
75.0	201.377	203.580	208.260
75.5	197.204	200.967	206.427
76.0	194.591	199.466	205.589
76.5	192.251	198.140	205.530
77.0	190.925	198.432	206.876
77.5	188.409	199.544	206.993
78.0	188.175	199.310	208.241
78.5	187.181	198.920	208.065
79.0	186.966	199.680	208.416
79.5	185.426	200.675	210.776
80.0	185.309	200.519	209.157
80.5	185.231	199.524	208.962
81.0	183.495	197.886	208.182
81.5	181.643	196.268	205.628
82.0	180.200	194.220	201.533
82.5	177.684	190.262	197.009
83.0	174.038	184.743	190.262
83.5	169.631	177.840	182.169
84.0	163.605	168.617	171.834
84.5	156.410	161.304	162.065
85.0	148.610	151.964	153.095
85.5	140.322	143.579	144.593
86.0	132.386	136.091	136.695
86.5	124.488	129.149	131.001
87.0	118.463	123.552	124.878
87.5	111.189	117.897	120.998
88.0	107.894	115.206	118.736
88.5	103.701	111.852	115.713
89.0	101.498	109.902	113.061
89.5	99.099	108.596	112.769
90.0	98.417	109.239	113.880
90.5	98.592	112.418	117.975
91.0	101.654	114.816	121.193
91.5	104.540	119.418	124.410
92.0	107.972	122.987	128.661
92.5	110.487	126.360	131.625
93.0	114.582	129.617	136.442
93.5	117.956	133.634	139.308
94.0	121.407	137.085	142.760
94.5	123.767	139.464	145.490
95.0	125.756	142.194	148.181
95.5	129.110	144.378	149.253
96.0	132.015	146.309	150.891

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CANDELA TABULATION - (Cont.)

96.5	133.790	146.192	148.298
97.0	133.829	145.802	148.122
97.5	134.219	143.871	145.334
98.0	133.380	141.453	142.584
98.5	132.815	139.016	139.640
99.0	130.650	136.461	136.851
99.5	128.349	132.171	133.088
100.0	125.892	129.344	129.285
100.5	122.772	126.146	127.257
101.0	119.477	123.162	122.714
101.5	117.195	119.340	119.516
102.0	114.290	116.552	117.254
102.5	110.897	113.159	113.276
103.0	107.036	109.473	110.175
103.5	104.306	105.456	106.002
104.0	100.757	101.342	102.531
104.5	97.832	98.690	99.782
105.0	95.199	96.623	97.247
105.5	93.249	94.809	94.634
106.0	90.773	93.249	92.820
106.5	89.115	91.299	91.572
107.0	86.990	89.837	89.934
107.5	85.761	88.121	88.589
108.0	85.313	86.522	86.814
108.5	84.396	85.527	86.970
109.0	83.343	85.469	85.235
109.5	83.070	85.137	85.566
110.0	82.622	84.611	84.338
110.5	82.778	84.182	84.065
111.0	82.817	83.850	84.045
111.5	82.544	83.616	83.207
112.0	83.109	84.825	85.118
112.5	82.407	84.377	85.079
113.0	83.831	85.352	85.742
113.5	84.143	85.547	85.176
114.0	84.864	85.878	86.502
114.5	84.767	86.736	86.132
115.0	86.268	87.224	87.263
115.5	86.541	87.555	88.023
116.0	87.302	88.530	88.316
116.5	87.926	88.686	88.823
117.0	88.745	90.090	89.252
117.5	89.154	90.948	90.480
118.0	89.700	90.987	91.007
118.5	90.890	92.001	91.358
119.0	91.826	92.820	92.196
119.5	91.923	93.425	92.762
120.0	92.976	93.171	93.659
120.5	92.723	93.210	93.405
121.0	93.464	94.263	93.971
121.5	93.483	94.653	94.380
122.0	94.517	94.985	94.634
122.5	94.283	95.706	95.843
123.0	94.478	95.219	95.180
123.5	95.102	96.623	95.277
124.0	94.770	95.531	97.091

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CANDELA TABULATION - (Cont.)

124.5	94.868	95.492	94.692
125.0	94.088	95.745	95.258
125.5	93.639	94.946	95.492
126.0	93.386	94.887	94.517
126.5	93.210	94.205	94.224
127.0	92.547	94.380	93.561
127.5	92.391	92.742	93.776
128.0	91.241	92.567	93.074
128.5	90.246	91.709	92.859
129.0	89.837	91.163	91.221
129.5	88.628	89.778	90.441
130.0	88.101	88.959	90.539
130.5	86.151	88.238	88.238
131.0	84.903	86.736	87.536
131.5	83.694	86.132	85.742
132.0	82.485	84.981	84.728
132.5	81.081	83.343	82.719
133.0	80.106	81.998	82.134
133.5	78.819	80.594	80.847
134.0	76.772	79.112	79.365
134.5	75.446	77.571	78.234
135.0	74.588	76.674	76.284
135.5	71.526	74.685	75.368
136.0	70.980	73.047	73.203
136.5	68.484	71.799	71.760
137.0	67.451	70.005	71.429
137.5	65.715	68.309	69.284
138.0	63.980	66.710	67.100
138.5	62.264	65.520	65.403
139.0	60.567	63.882	65.013
139.5	58.812	62.069	63.356
140.0	57.935	60.665	61.640
140.5	56.102	58.578	59.144
141.0	54.249	56.550	58.422
141.5	52.962	55.712	56.492
142.0	51.363	53.976	54.308
142.5	50.154	53.820	53.391
143.0	48.048	51.285	52.202
143.5	47.327	49.140	50.681
144.0	45.084	47.756	48.497
144.5	44.811	47.327	47.346
145.0	43.271	45.377	46.469
145.5	42.315	44.889	44.909
146.0	41.399	44.109	44.090
146.5	39.527	42.198	42.569
147.0	38.103	40.872	42.023
147.5	37.382	40.190	40.892
148.0	36.134	38.571	38.864
148.5	35.861	37.928	37.655
149.0	34.301	36.485	36.758
149.5	34.125	35.997	36.953
150.0	33.326	34.593	35.880
150.5	32.312	33.384	34.301
151.0	31.512	32.760	33.774
151.5	29.972	31.668	33.267
152.0	30.050	31.590	31.727

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CANDELA TABULATION - (Cont.)

152.5	28.841	31.122	30.849
153.0	28.431	30.225	30.284
153.5	27.456	29.367	29.562
154.0	26.715	28.782	28.958
154.5	25.545	27.593	28.256
155.0	24.980	26.501	27.846
155.5	24.687	26.481	25.877
156.0	24.219	25.779	26.423
156.5	23.420	24.999	25.448
157.0	22.874	24.336	25.038
157.5	22.718	23.615	23.829
158.0	21.392	23.361	23.654
158.5	21.002	22.679	22.581
159.0	20.163	22.776	21.645
159.5	19.617	22.094	21.041
160.0	19.383	21.041	21.236
160.5	18.486	19.949	21.002
161.0	18.915	19.598	19.949
161.5	17.609	19.539	18.876
162.0	17.375	18.954	18.818
162.5	16.868	17.979	18.467
163.0	16.166	18.018	18.057
163.5	15.990	17.589	16.985
164.0	15.425	16.770	17.511
164.5	14.372	16.302	16.361
165.0	14.508	15.639	15.503
165.5	14.235	14.586	14.781
166.0	13.670	14.469	13.533
166.5	12.734	14.001	14.157
167.0	12.597	13.397	13.163
167.5	11.583	13.299	12.305
168.0	10.959	12.773	12.500
168.5	11.447	11.583	11.583
169.0	9.770	11.252	12.519
169.5	9.926	11.018	11.291
170.0	9.438	10.121	11.232
170.5	8.619	10.160	9.809
171.0	8.073	10.121	9.867
171.5	8.132	9.243	9.341
172.0	8.151	9.087	8.346
172.5	7.586	9.575	7.859
173.0	6.962	7.683	7.703
173.5	6.084	8.288	7.781
174.0	6.299	6.650	7.625
174.5	6.318	7.079	7.293
175.0	5.967	7.196	6.474
175.5	6.162	6.435	6.552
176.0	6.182	6.162	5.870
176.5	5.226	6.455	5.772
177.0	5.363	6.065	5.675
177.5	5.129	5.928	5.304
178.0	4.934	5.558	5.538
178.5	4.875	5.850	5.363
179.0	4.505	5.129	5.967
179.5	4.466	4.836	5.558
180.0	5.148	5.148	5.148

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	718.89	N.A.	13.90
0-30	1528.68	N.A.	29.60
0-40	2499.56	N.A.	48.50
0-60	4117.66	N.A.	79.80
0-80	4717.57	N.A.	91.40
0-90	4832.64	N.A.	93.70
10-90	4646.2	N.A.	90.10
20-40	1780.67	N.A.	34.50
20-50	2725.7	N.A.	52.80
40-70	2004.37	N.A.	38.90
60-80	599.91	N.A.	11.60
70-80	213.64	N.A.	4.10
80-90	115.06	N.A.	2.20
90-110	143.42	N.A.	2.80
90-120	202.12	N.A.	3.90
90-130	258.18	N.A.	5.00
90-150	314.06	N.A.	6.10
90-180	326.35	N.A.	6.30
110-180	182.94	N.A.	3.50
0-180	5158.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.43
10-20	532.46
20-30	809.79
30-40	970.89
40-50	945.02
50-60	673.07
60-70	386.27
70-80	213.64
80-90	115.06
90-100	75.95
100-110	67.47
110-120	58.70
120-130	56.06
130-140	37.26
140-150	18.61
150-160	8.49
160-170	3.17
170-180	0.64

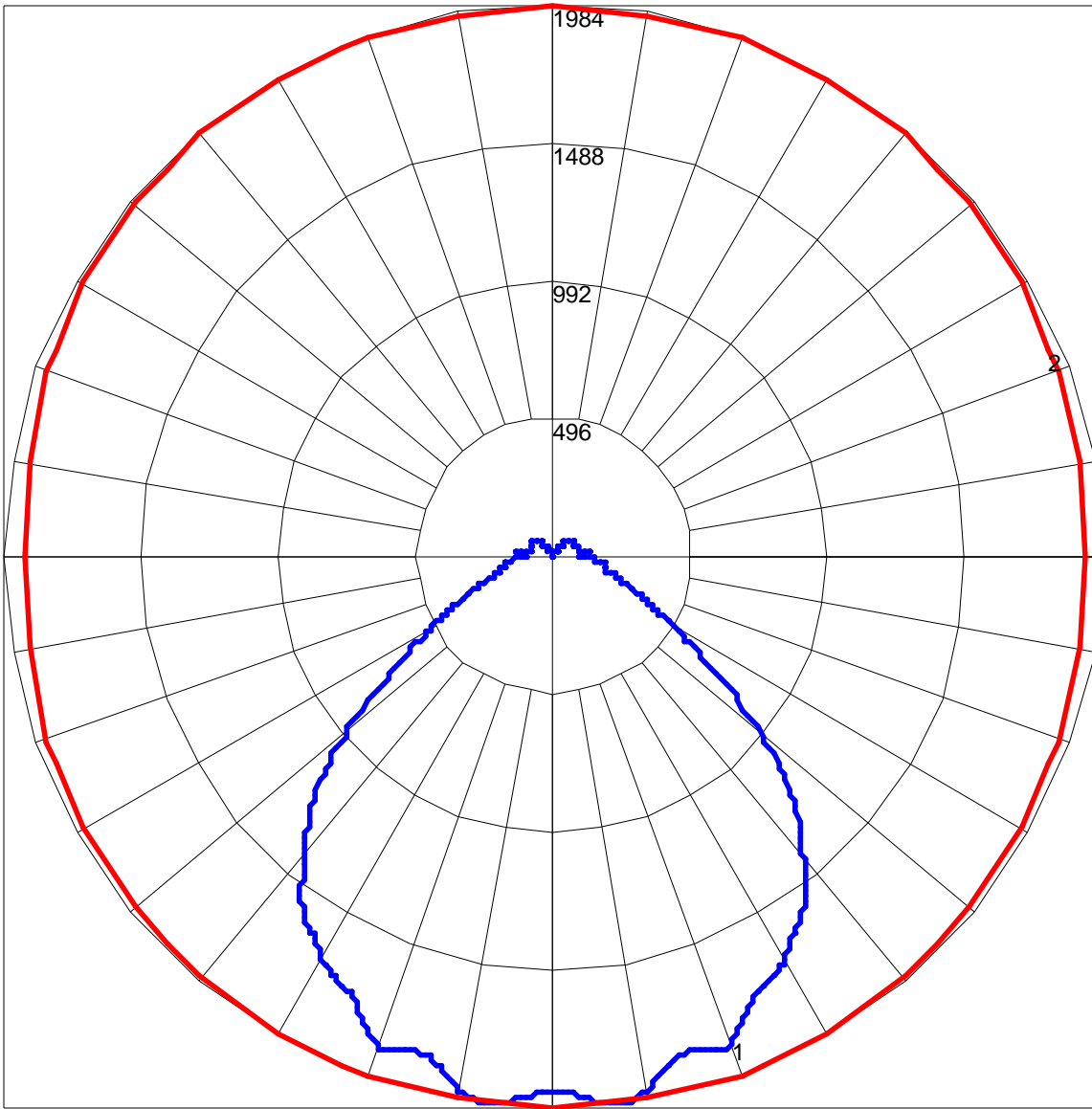
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1984.223 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.)