



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96H-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 11890707.03P11  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 8/18/2017  
 [MANUFAC] Lamar Lighting Co Inc  
 [LUMCAT] TCMLL96H-40  
 [LUMINAIRE] White formed steel housing, frosted plastic lens enclosure  
 [LAMP] 244 white LEDs  
 [BALLAST] Two OSRAM OTI50/120-277/1A4 DIM L drivers  
 [OTHER] 25.6 C, 120.054 V, 0.9015 A, 108.22 W, 0.997925PF, 59.9985  
 [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	10950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	108.2
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	32945	25154	24231
55	31320	22797	22421
65	28600	20589	20957
75	23186	18743	19776
85	10133	17077	18993

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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>	3107.937	3107.937	3107.937	3107.937	3107.937	3107.937	3107.937	3107.937	3107.937
<b>0.5</b>	3214.145	3127.605	3081.582	3079.222	3067.815	3081.189	3080.795	3128.392	3214.538
<b>1.0</b>	3213.751	3126.425	3080.795	3080.009	3067.028	3080.795	3081.976	3127.605	3215.718
<b>1.5</b>	3212.571	3125.245	3079.615	3078.829	3066.635	3080.402	3081.976	3127.212	3215.718
<b>2.0</b>	3210.604	3124.065	3078.042	3078.042	3065.848	3080.402	3081.582	3127.605	3214.538
<b>2.5</b>	3208.244	3122.492	3076.469	3076.469	3065.454	3080.009	3080.402	3126.819	3213.751
<b>3.0</b>	3207.064	3120.131	3074.108	3074.108	3065.061	3078.435	3079.222	3125.245	3211.784
<b>3.5</b>	3203.917	3117.771	3071.748	3073.322	3063.094	3077.649	3077.649	3123.278	3211.784
<b>4.0</b>	3201.164	3114.624	3069.388	3071.355	3061.521	3076.469	3076.469	3121.312	3209.818
<b>4.5</b>	3198.803	3111.871	3067.421	3068.995	3059.947	3074.895	3074.502	3119.345	3208.637
<b>5.0</b>	3193.690	3108.331	3064.274	3066.635	3058.374	3072.928	3072.535	3116.591	3205.097
<b>5.5</b>	3190.936	3105.577	3061.521	3064.668	3056.014	3070.568	3069.388	3114.231	3203.917
<b>6.0</b>	3186.609	3100.857	3057.981	3061.127	3053.654	3068.208	3067.421	3111.478	3199.590
<b>6.5</b>	3182.282	3097.317	3054.047	3058.767	3052.080	3064.668	3064.274	3107.937	3197.230
<b>7.0</b>	3177.562	3092.203	3051.293	3056.014	3048.933	3062.308	3061.914	3104.397	3194.477
<b>7.5</b>	3172.842	3088.269	3047.753	3052.080	3046.180	3058.767	3058.374	3100.857	3190.150
<b>8.0</b>	3167.728	3083.156	3042.640	3049.327	3043.033	3055.620	3055.227	3097.317	3186.216
<b>8.5</b>	3160.254	3077.649	3039.099	3045.786	3039.493	3052.080	3051.687	3092.596	3180.316
<b>9.0</b>	3155.141	3072.142	3034.772	3040.673	3036.346	3048.147	3048.540	3087.089	3175.989
<b>9.5</b>	3146.880	3065.848	3029.659	3037.526	3031.232	3045.393	3045.000	3082.762	3171.662
<b>10.0</b>	3140.193	3060.341	3024.938	3033.199	3026.905	3041.853	3040.279	3078.042	3164.975
<b>10.5</b>	3132.326	3053.654	3019.431	3028.479	3022.972	3037.919	3036.346	3072.535	3158.681
<b>11.0</b>	3124.852	3047.753	3013.924	3023.758	3018.645	3032.412	3031.232	3066.635	3153.960
<b>11.5</b>	3116.591	3041.853	3008.024	3019.038	3013.138	3027.692	3024.938	3059.554	3148.060
<b>12.0</b>	3106.757	3034.379	3002.123	3013.138	3008.811	3022.185	3019.825	3053.260	3141.373
<b>12.5</b>	3098.497	3026.118	2995.436	3008.024	3002.910	3016.678	3014.318	3046.967	3133.899
<b>13.0</b>	3087.483	3018.645	2988.749	3001.730	2997.797	3010.777	3007.237	3039.886	3126.425
<b>13.5</b>	3080.009	3010.384	2981.669	2996.223	2992.683	3005.270	3000.550	3032.806	3118.951
<b>14.0</b>	3069.781	3001.337	2974.195	2989.929	2987.569	2998.190	2993.863	3023.758	3111.478
<b>14.5</b>	3059.947	2993.076	2966.721	2983.636	2980.489	2991.503	2986.389	3015.498	3103.610
<b>15.0</b>	3050.900	2984.422	2958.854	2976.555	2974.588	2984.816	2980.095	3006.450	3094.956
<b>15.5</b>	3041.853	2974.982	2950.593	2969.475	2968.295	2978.129	2971.441	2997.797	3086.696
<b>16.0</b>	3031.232	2965.148	2942.333	2962.001	2961.607	2971.441	2963.574	2987.963	3078.435
<b>16.5</b>	3021.005	2955.707	2934.466	2954.134	2955.707	2964.361	2954.527	2978.915	3068.995
<b>17.0</b>	3009.597	2945.873	2925.418	2946.266	2949.020	2956.494	2945.086	2968.688	3059.554
<b>17.5</b>	2999.370	2935.252	2916.371	2938.006	2941.546	2949.413	2935.252	2958.461	3051.293
<b>18.0</b>	2987.176	2925.418	2906.537	2929.352	2933.285	2941.546	2925.812	2948.233	3042.640
<b>18.5</b>	2975.768	2914.798	2897.883	2920.698	2925.025	2933.285	2915.978	2937.219	3032.806
<b>19.0</b>	2964.754	2903.390	2888.049	2910.864	2917.158	2923.845	2905.357	2926.205	3022.185
<b>19.5</b>	2952.167	2892.769	2878.215	2901.817	2908.897	2914.798	2894.736	2915.978	3011.564
<b>20.0</b>	2939.186	2880.969	2867.594	2892.769	2899.457	2905.750	2884.902	2904.570	3000.550
<b>20.5</b>	2927.385	2869.561	2858.154	2882.935	2889.623	2895.523	2874.281	2893.163	2989.536
<b>21.0</b>	2914.404	2858.154	2847.533	2873.495	2880.182	2885.296	2864.054	2881.755	2977.735
<b>21.5</b>	2901.030	2845.960	2838.092	2864.054	2871.528	2875.068	2853.433	2870.348	2965.148
<b>22.0</b>	2886.869	2833.372	2827.078	2854.220	2861.301	2864.054	2842.813	2859.334	2952.953
<b>22.5</b>	2873.495	2821.571	2815.671	2843.993	2851.860	2853.433	2832.585	2846.746	2941.153
<b>23.0</b>	2859.334	2808.590	2805.443	2834.552	2842.026	2843.206	2821.965	2834.945	2926.992
<b>23.5</b>	2844.779	2795.609	2794.036	2824.325	2832.192	2833.372	2810.557	2822.358	2915.584
<b>24.0</b>	2830.225	2782.629	2783.022	2813.704	2821.178	2822.358	2799.936	2810.164	2902.210
<b>24.5</b>	2816.458	2769.254	2771.615	2803.870	2811.344	2811.344	2788.922	2797.183	2888.442
<b>25.0</b>	2801.117	2755.093	2760.207	2792.856	2801.510	2801.510	2777.515	2784.989	2874.281
<b>25.5</b>	2786.562	2741.719	2748.013	2781.842	2790.102	2790.889	2766.501	2772.401	2860.121
<b>26.0</b>	2771.221	2727.952	2736.605	2769.648	2780.268	2780.662	2753.913	2759.027	2845.566
<b>26.5</b>	2756.273	2713.791	2723.625	2758.240	2768.468	2769.648	2742.506	2745.653	2831.799

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**CANDELA TABULATION - (Cont.)**

27.0	2740.539	2699.630	2710.250	2746.046	2759.027	2759.027	2730.312	2732.279	2816.851
27.5	2725.591	2684.289	2698.056	2734.639	2748.013	2747.620	2718.511	2719.298	2800.723
28.0	2710.644	2670.128	2683.895	2722.445	2736.605	2735.425	2705.530	2705.923	2785.382
28.5	2694.909	2654.787	2670.128	2709.464	2725.591	2723.625	2692.549	2692.156	2769.648
29.0	2679.175	2639.839	2656.753	2696.876	2713.397	2711.430	2680.355	2677.601	2753.520
29.5	2663.441	2624.105	2642.199	2684.289	2701.203	2698.843	2667.374	2663.834	2736.999
30.0	2647.706	2609.550	2628.431	2671.308	2690.189	2686.255	2654.787	2648.493	2721.264
30.5	2631.578	2593.422	2615.057	2658.720	2677.995	2674.061	2641.806	2633.939	2704.743
31.0	2615.451	2577.295	2600.503	2646.133	2666.194	2661.867	2628.825	2618.991	2687.829
31.5	2599.716	2560.774	2585.949	2633.152	2654.000	2649.673	2615.451	2603.650	2670.128
32.0	2582.802	2544.646	2571.788	2619.778	2642.199	2636.692	2602.863	2587.522	2653.607
32.5	2565.887	2528.125	2558.020	2607.977	2630.005	2624.105	2588.702	2571.788	2635.905
33.0	2549.366	2511.604	2543.466	2594.996	2617.811	2611.517	2574.935	2555.267	2617.811
33.5	2533.238	2494.689	2528.911	2581.622	2606.403	2599.323	2561.167	2538.745	2598.929
34.0	2514.357	2477.775	2514.357	2568.247	2593.816	2586.342	2547.399	2522.224	2580.835
34.5	2497.049	2461.253	2499.803	2554.873	2582.015	2574.148	2532.452	2505.703	2561.954
35.0	2479.348	2443.552	2485.642	2542.286	2569.427	2560.774	2518.684	2488.002	2542.679
35.5	2460.073	2426.638	2469.907	2528.911	2557.233	2547.793	2503.736	2471.481	2524.584
36.0	2443.159	2408.543	2454.566	2515.931	2544.646	2534.812	2488.002	2454.173	2504.916
36.5	2424.278	2390.842	2439.225	2502.163	2531.665	2521.044	2473.054	2436.865	2484.855
37.0	2405.003	2373.534	2423.491	2488.789	2518.291	2507.670	2458.107	2419.164	2464.794
37.5	2385.728	2355.046	2408.150	2475.021	2505.310	2493.509	2441.979	2401.069	2446.306
38.0	2368.027	2336.952	2392.415	2460.860	2491.936	2478.955	2425.851	2383.762	2425.064
38.5	2348.359	2318.857	2376.288	2446.306	2478.561	2464.400	2409.723	2366.060	2405.003
39.0	2329.478	2299.976	2360.160	2432.145	2464.400	2449.453	2393.202	2347.179	2384.548
39.5	2310.597	2281.488	2344.032	2417.591	2450.239	2434.898	2376.288	2329.085	2363.700
40.0	2290.929	2262.607	2327.511	2402.643	2436.078	2419.557	2359.767	2310.203	2343.245
40.5	2271.654	2244.119	2310.597	2386.515	2421.524	2404.216	2343.245	2291.322	2322.397
41.0	2251.986	2225.237	2293.289	2371.961	2407.757	2388.482	2325.938	2272.834	2301.549
41.5	2231.531	2206.356	2276.374	2356.620	2392.415	2373.141	2307.843	2253.166	2280.308
42.0	2211.077	2186.295	2258.280	2340.492	2377.861	2357.013	2290.142	2233.891	2258.673
42.5	2191.015	2167.020	2240.185	2324.758	2362.127	2340.492	2272.441	2214.617	2237.038
43.0	2169.774	2146.959	2222.484	2308.630	2347.179	2324.364	2253.953	2194.162	2215.403
43.5	2148.926	2126.111	2204.389	2292.895	2331.445	2308.236	2235.858	2174.494	2192.982
44.0	2126.504	2105.656	2185.508	2276.374	2315.710	2291.715	2217.764	2153.253	2170.167
44.5	2104.869	2084.808	2166.627	2260.247	2300.369	2275.588	2198.882	2133.585	2149.319
45.0	2082.054	2063.960	2147.746	2243.725	2284.241	2259.460	2179.608	2111.950	2126.504
45.5	2059.633	2043.112	2128.864	2227.204	2268.507	2242.939	2161.513	2091.102	2102.903
46.0	2037.211	2021.477	2109.983	2211.077	2252.773	2226.418	2142.632	2069.860	2080.088
46.5	2013.216	1999.842	2091.102	2194.162	2236.252	2209.110	2122.964	2048.225	2056.879
47.0	1990.795	1978.207	2071.827	2177.248	2220.124	2193.375	2104.476	2026.591	2034.065
47.5	1967.193	1956.966	2052.552	2161.120	2204.389	2176.854	2085.201	2005.743	2010.856
48.0	1943.985	1935.725	2032.884	2144.205	2187.868	2160.726	2065.927	1983.321	1987.255
48.5	1920.777	1913.696	2014.003	2127.291	2172.134	2144.205	2047.045	1961.686	1963.653
49.0	1896.782	1892.062	1993.942	2111.163	2155.613	2127.291	2027.771	1939.658	1939.265
49.5	1873.967	1869.640	1974.667	2093.855	2140.272	2110.770	2008.103	1918.023	1916.057
50.0	1850.365	1847.612	1955.786	2077.334	2123.357	2093.462	1988.828	1895.602	1891.668
50.5	1826.370	1825.584	1935.725	2059.633	2108.016	2076.941	1969.553	1873.967	1867.280
51.0	1803.162	1803.162	1916.057	2043.112	2091.495	2060.026	1949.885	1851.545	1842.892
51.5	1779.954	1781.527	1896.782	2025.804	2074.974	2042.718	1930.611	1829.517	1818.897
52.0	1755.959	1758.713	1876.721	2008.103	2058.846	2025.804	1910.943	1807.489	1794.508
52.5	1732.357	1736.291	1857.053	1991.188	2042.325	2008.103	1891.668	1785.068	1770.513
53.0	1708.362	1714.263	1838.171	1973.880	2026.591	1991.188	1872.000	1761.859	1745.732
53.5	1684.761	1692.235	1818.110	1956.179	2010.070	1973.487	1852.726	1739.831	1720.557
54.0	1659.979	1669.026	1798.442	1939.265	1993.548	1955.786	1832.271	1717.410	1696.168
54.5	1635.984	1646.605	1778.774	1921.564	1977.027	1938.478	1813.390	1694.201	1670.600

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55.0	1611.203	1623.397	1758.713	1903.862	1960.506	1921.170	1793.722	1671.387	1645.031
55.5	1586.027	1600.582	1739.438	1886.555	1943.592	1903.862	1774.054	1648.572	1619.463
56.0	1561.246	1577.767	1718.983	1868.853	1926.677	1886.948	1754.386	1625.757	1593.895
56.5	1535.677	1554.559	1699.315	1851.545	1910.943	1869.640	1734.718	1602.155	1567.933
57.0	1510.109	1531.744	1679.647	1833.844	1894.422	1852.726	1715.050	1579.340	1541.971
57.5	1484.147	1508.536	1658.799	1816.930	1877.901	1835.418	1695.775	1555.739	1515.223
58.0	1459.366	1484.934	1639.131	1799.622	1861.773	1818.503	1676.500	1532.924	1488.868
58.5	1432.617	1461.726	1619.070	1782.707	1845.252	1801.195	1656.439	1508.929	1462.512
59.0	1407.049	1438.124	1599.402	1765.006	1829.517	1783.888	1637.164	1485.721	1434.977
59.5	1380.300	1415.309	1579.734	1747.698	1812.996	1767.366	1617.103	1462.512	1408.229
60.0	1354.732	1391.708	1559.672	1731.177	1797.262	1750.452	1597.828	1438.518	1381.874
60.5	1327.983	1368.893	1540.398	1714.263	1780.741	1733.144	1578.160	1414.523	1355.125
61.0	1302.415	1345.685	1521.123	1697.348	1765.006	1716.230	1558.886	1391.314	1329.163
61.5	1276.060	1322.476	1502.242	1680.434	1748.485	1699.315	1539.218	1366.926	1302.808
62.0	1250.098	1298.875	1482.967	1663.519	1732.357	1682.007	1519.550	1344.111	1276.847
62.5	1223.743	1276.060	1464.086	1646.605	1716.623	1664.306	1499.882	1320.116	1250.491
63.0	1196.994	1252.852	1444.811	1630.084	1700.102	1647.392	1480.214	1296.121	1224.530
63.5	1170.639	1230.037	1426.323	1612.776	1683.974	1630.477	1460.152	1272.126	1198.175
64.0	1143.891	1206.828	1407.835	1596.255	1667.453	1613.563	1440.484	1248.525	1171.819
64.5	1117.142	1184.407	1389.348	1579.340	1650.539	1595.861	1420.816	1224.530	1145.464
65.0	1090.394	1160.805	1370.466	1562.033	1633.624	1578.947	1401.935	1201.321	1119.109
65.5	1063.645	1137.990	1351.585	1545.511	1617.496	1561.246	1383.054	1177.720	1092.361
66.0	1036.110	1115.176	1333.884	1528.597	1600.975	1543.938	1364.172	1154.118	1066.006
66.5	1008.575	1092.754	1315.396	1511.682	1584.847	1527.417	1345.291	1130.910	1038.470
67.0	981.433	1069.939	1297.301	1494.768	1568.326	1509.716	1327.197	1108.095	1011.329
67.5	954.291	1046.731	1279.600	1477.854	1551.805	1493.195	1309.102	1084.887	983.400
68.0	926.756	1024.309	1261.506	1460.939	1535.284	1475.887	1291.401	1062.072	955.865
68.5	899.221	1001.495	1243.804	1444.025	1518.370	1459.366	1273.700	1038.470	927.543
69.0	871.686	979.073	1225.710	1427.110	1502.635	1442.844	1256.392	1015.656	899.614
69.5	844.937	956.652	1208.009	1410.196	1485.721	1425.930	1238.691	992.841	871.292
70.0	817.795	934.230	1189.914	1393.674	1469.986	1409.409	1220.596	970.026	842.970
70.5	790.654	911.808	1171.819	1376.760	1453.465	1392.494	1202.502	947.604	814.649
71.0	762.725	889.780	1154.118	1360.239	1436.944	1375.973	1184.407	924.789	786.720
71.5	735.583	867.752	1136.024	1343.324	1420.816	1359.452	1165.919	902.368	758.398
72.0	708.835	846.511	1118.322	1326.017	1404.689	1342.538	1147.431	879.946	731.256
72.5	682.086	824.876	1099.835	1309.495	1388.167	1326.017	1129.337	857.525	702.934
73.0	654.944	803.634	1082.527	1292.974	1372.040	1308.709	1110.455	835.890	675.792
73.5	627.803	782.393	1064.432	1276.453	1355.519	1292.188	1091.967	813.862	648.651
74.0	601.447	761.938	1046.338	1259.145	1339.391	1275.273	1074.266	792.620	621.509
74.5	575.092	741.877	1029.030	1242.624	1323.263	1258.359	1055.778	771.379	594.760
75.0	548.344	721.816	1011.329	1226.103	1307.135	1241.051	1037.684	750.924	567.618
75.5	521.989	702.541	993.627	1209.582	1291.401	1224.923	1019.589	730.076	540.870
76.0	496.027	683.266	976.320	1193.061	1275.273	1208.402	1001.495	710.408	514.515
76.5	469.672	663.992	959.012	1176.540	1258.752	1191.094	983.793	691.134	488.160
77.0	443.710	645.504	941.704	1160.019	1243.018	1174.573	966.092	671.859	462.198
77.5	417.355	627.409	924.396	1143.891	1226.890	1158.052	948.784	652.978	436.236
78.0	391.315	609.315	907.482	1127.763	1211.155	1141.924	931.083	634.883	409.881
78.5	365.943	591.220	890.174	1111.635	1195.028	1125.403	914.169	616.788	383.998
79.0	341.436	573.126	873.653	1095.508	1179.293	1109.275	896.861	598.694	358.744
79.5	316.379	554.638	856.738	1079.380	1163.559	1092.754	879.946	579.813	334.317
80.0	292.306	535.756	839.824	1064.039	1147.824	1076.626	863.425	561.325	309.417
80.5	268.114	517.268	823.302	1047.518	1132.090	1060.499	846.511	542.443	285.029
81.0	244.749	498.780	807.175	1031.783	1116.749	1044.764	829.990	523.956	261.663
81.5	222.209	480.686	790.654	1016.049	1101.015	1028.636	813.468	505.074	238.494
82.0	200.535	462.591	774.132	999.921	1085.674	1012.902	797.341	486.586	216.151
82.5	178.979	444.890	758.005	983.793	1069.546	996.774	780.820	468.885	194.635

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

83.0	158.563	427.582	741.877	968.452	1054.598	980.646	764.298	451.184	172.921
83.5	138.817	410.668	725.749	953.111	1038.864	965.305	748.171	433.089	152.860
84.0	119.739	394.147	710.015	936.984	1023.523	949.571	732.043	416.175	133.152
84.5	102.510	377.665	693.887	921.642	1007.788	933.837	715.915	399.654	114.979
85.0	85.674	361.852	678.153	905.908	992.054	918.102	700.181	383.290	97.632
85.5	69.782	346.275	662.812	890.174	976.320	902.368	684.053	367.162	81.111
86.0	55.110	331.170	647.471	874.439	960.978	886.633	668.319	351.743	65.730
86.5	42.208	316.497	632.130	859.098	945.637	870.899	652.191	336.362	51.727
87.0	30.446	302.061	616.395	843.757	929.903	855.558	636.850	321.296	38.943
87.5	20.376	287.546	600.661	828.416	914.169	839.824	621.115	306.545	27.653
88.0	12.037	273.582	585.713	812.288	898.434	824.483	605.381	291.991	18.055
88.5	5.664	259.972	570.372	796.554	882.700	808.355	590.040	277.673	10.424
89.0	0.983	247.030	555.424	781.213	866.965	792.227	574.306	263.984	4.524
89.5	0.000	233.813	541.263	766.659	851.231	777.279	559.358	250.610	0.315
90.0	0.000	221.816	527.102	751.318	835.497	761.938	544.804	237.983	0.000
90.5	0.000	210.054	512.941	736.370	820.942	746.991	530.643	225.553	0.000
91.0	0.000	198.057	497.994	721.422	805.208	732.043	516.482	213.162	0.000
91.5	0.000	186.256	483.833	706.475	789.867	716.702	501.927	201.007	0.000
92.0	0.000	174.927	469.672	691.134	774.526	701.754	487.373	189.285	0.000
92.5	0.000	163.795	455.511	675.792	758.791	686.020	473.212	177.602	0.000
93.0	0.000	152.978	441.743	660.845	743.057	670.679	459.051	166.313	0.000
93.5	0.000	142.239	427.582	645.504	728.109	655.731	444.890	155.495	0.000
94.0	0.000	131.854	414.208	630.163	712.375	640.390	431.123	144.599	0.000
94.5	0.000	121.194	400.440	615.215	697.034	625.442	416.962	133.900	0.000
95.0	0.000	110.928	386.948	600.267	681.300	610.101	403.587	123.358	0.000
95.5	0.000	100.858	373.495	584.926	665.958	595.547	389.938	112.973	0.000
96.0	0.000	90.473	360.278	570.372	650.617	580.599	376.367	102.510	0.000
96.5	0.000	80.403	346.983	555.424	635.276	566.045	362.835	91.771	0.000
97.0	0.000	70.293	334.199	540.870	619.935	551.097	349.225	81.544	0.000
97.5	0.000	60.184	320.864	526.709	604.594	536.150	335.615	71.119	0.000
98.0	0.000	49.760	307.765	511.761	589.253	521.595	322.162	60.617	0.000
98.5	0.000	39.454	294.548	497.207	574.306	507.041	308.984	50.035	0.000
99.0	0.000	29.148	281.724	482.653	559.358	492.093	295.531	39.572	0.000
99.5	0.000	18.921	268.350	468.098	544.017	477.146	282.118	28.951	0.000
100.0	0.000	9.480	255.133	453.544	528.676	462.591	268.390	18.724	0.000
100.5	0.000	2.478	241.838	438.990	514.122	448.037	255.094	10.345	0.000
101.0	0.000	0.000	228.739	424.435	498.780	433.483	241.523	3.973	0.000
101.5	0.000	0.000	215.404	409.488	483.439	418.535	228.149	0.983	0.000
102.0	0.000	0.000	201.833	394.933	468.885	403.587	214.381	0.000	0.000
102.5	0.000	0.000	188.380	380.458	453.151	388.954	201.086	0.000	0.000
103.0	0.000	0.000	174.613	365.589	437.810	374.046	187.397	0.000	0.000
103.5	0.000	0.000	160.766	350.641	422.862	359.020	173.708	0.000	0.000
104.0	0.000	0.000	147.195	335.890	407.521	344.347	159.822	0.000	0.000
104.5	0.000	0.000	133.428	321.139	392.377	329.282	145.661	0.000	0.000
105.0	0.000	0.000	119.149	306.349	376.721	314.373	131.736	0.000	0.000
105.5	0.000	0.000	105.224	291.244	361.537	299.347	117.615	0.000	0.000
106.0	0.000	0.000	90.827	275.981	345.999	284.203	103.060	0.000	0.000
106.5	0.000	0.000	76.705	261.152	330.344	268.940	88.545	0.000	0.000
107.0	0.000	0.000	62.623	245.535	314.609	253.757	74.030	0.000	0.000
107.5	0.000	0.000	47.951	230.155	298.560	238.179	59.319	0.000	0.000
108.0	0.000	0.000	34.026	214.893	283.062	222.563	45.040	0.000	0.000
108.5	0.000	0.000	20.769	199.119	267.052	206.829	31.862	0.000	0.000
109.0	0.000	0.000	10.739	183.463	251.082	191.094	20.848	0.000	0.000
109.5	0.000	0.000	4.799	167.611	234.954	175.006	11.683	0.000	0.000
110.0	0.000	0.000	1.809	151.798	218.708	158.839	5.861	0.000	0.000
110.5	0.000	0.000	0.315	135.395	202.187	142.396	2.439	0.000	0.000

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

111.0	0.000	0.000	0.000	119.109	185.469	126.229	0.315	0.000	0.000
111.5	0.000	0.000	0.000	102.628	169.066	109.708	0.000	0.000	0.000
112.0	0.000	0.000	0.000	85.870	152.427	92.951	0.000	0.000	0.000
112.5	0.000	0.000	0.000	69.349	135.434	76.391	0.000	0.000	0.000
113.0	0.000	0.000	0.000	52.868	118.519	59.909	0.000	0.000	0.000
113.5	0.000	0.000	0.000	37.566	101.054	44.410	0.000	0.000	0.000
114.0	0.000	0.000	0.000	24.349	83.668	31.429	0.000	0.000	0.000
114.5	0.000	0.000	0.000	13.728	66.675	19.825	0.000	0.000	0.000
115.0	0.000	0.000	0.000	7.080	50.153	11.132	0.000	0.000	0.000
115.5	0.000	0.000	0.000	3.422	35.678	6.372	0.000	0.000	0.000
116.0	0.000	0.000	0.000	1.180	23.090	2.950	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	12.981	0.433	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	7.238	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	3.619	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.944	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	1138.81	N.A.	10.40
0-30	2424.82	N.A.	22.10
0-40	3999.00	N.A.	36.50
0-60	7272.14	N.A.	66.40
0-80	9676.08	N.A.	88.40
0-90	10366.41	N.A.	94.70
10-90	10072.17	N.A.	92.00
20-40	2860.19	N.A.	26.10
20-50	4538.35	N.A.	41.40
40-70	4637.62	N.A.	42.40
60-80	2403.95	N.A.	22.00
70-80	1039.46	N.A.	9.50
80-90	690.33	N.A.	6.30
90-110	564.83	N.A.	5.20
90-120	583.87	N.A.	5.30
90-130	583.87	N.A.	5.30
90-150	583.87	N.A.	5.30
90-180	583.87	N.A.	5.30
110-180	19.04	N.A.	0.20
0-180	10950.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	294.23
10-20	844.58
20-30	1286.00
30-40	1574.19
40-50	1678.16
50-60	1594.97
60-70	1364.49
70-80	1039.46
80-90	690.33
90-100	399.21
100-110	165.61
110-120	19.04
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

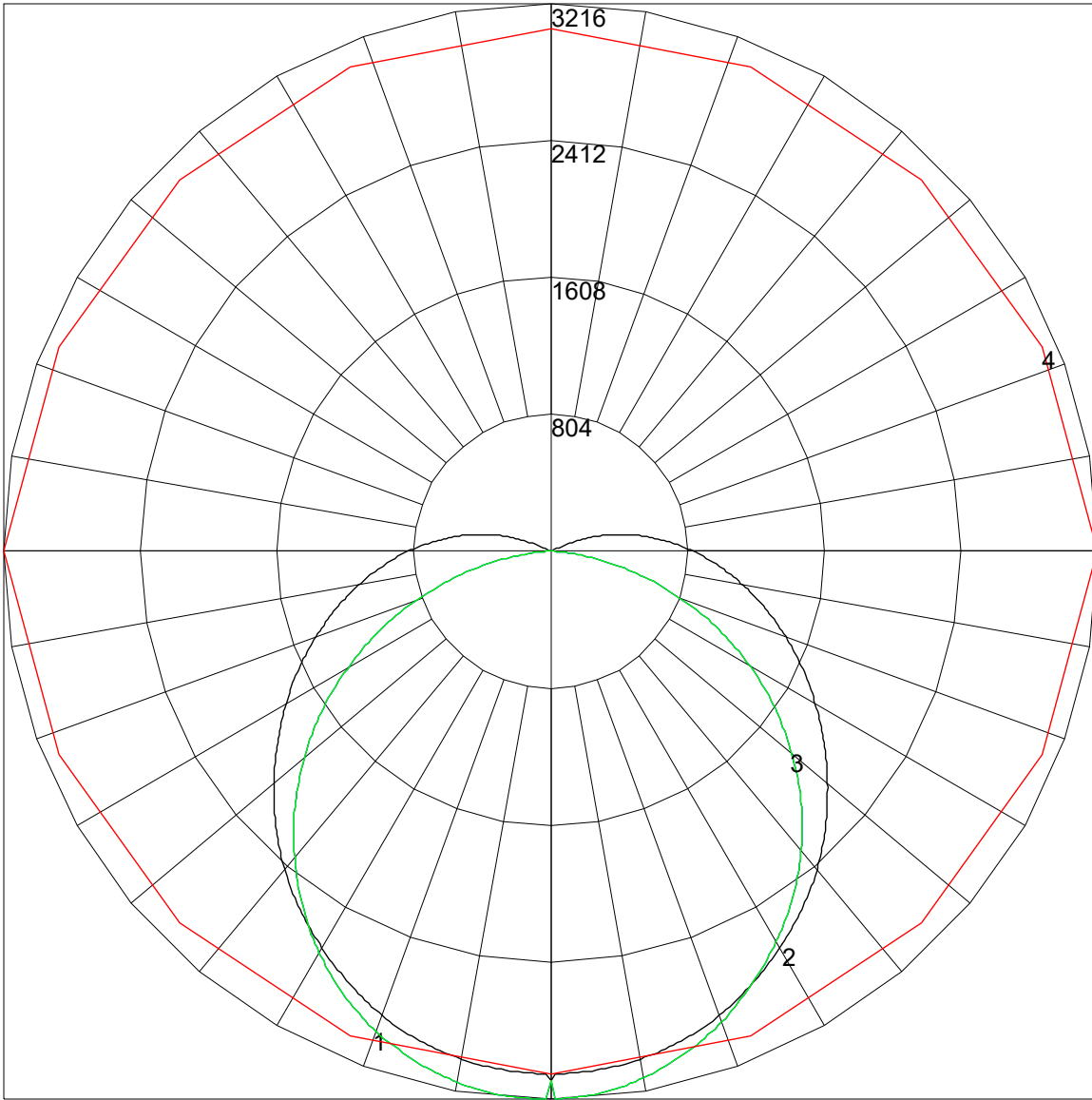
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCMLL96H-40.IES**

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

POLAR GRAPH



Maximum Candela = 3215.718 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.)