



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 770-48LED72DMV40.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] 770-48LED72DMV40

[LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 770-48LED72DMV40

[MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.

[MORE] 224 LEDs with single row of 56 on each of four white PCBs. Marked "M10CC840D56N2S"

[MORE] One Universal Everline driver. Model: D21CC80UNVPW with dimming

[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 was extrapolated from LLI-15121-1 Thursday October 25, 2018

[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	8201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.04 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9687	8499	8191
55	7661	5984	5166
65	4790	3996	3240
75	3308	2878	2727
85	2354	2618	3305

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**CANDELA TABULATION**

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
<b>0.0</b>	3063.792	3063.792	3063.792	3063.792	3063.792	3063.792	3063.792	3063.792	3063.792	3063.792
<b>0.5</b>	3048.137	3061.653	3065.776	3069.186	3069.248	3065.621	3065.249	3066.117	3064.815	3065.621
<b>1.0</b>	3047.610	3062.056	3067.388	3069.217	3070.271	3065.869	3067.388	3068.628	3066.179	3068.194
<b>1.5</b>	3050.338	3064.350	3069.248	3071.790	3073.464	3068.256	3070.209	3071.046	3070.333	3071.914
<b>2.0</b>	3052.911	3067.884	3072.596	3074.239	3076.750	3073.185	3075.758	3075.634	3076.192	3079.912
<b>2.5</b>	3057.096	3071.728	3075.541	3078.176	3080.501	3077.990	3082.671	3082.826	3086.298	3087.693
<b>3.0</b>	3060.351	3074.394	3080.842	3083.136	3086.081	3084.810	3089.460	3091.754	3093.676	3097.334
<b>3.5</b>	3063.482	3077.742	3083.074	3085.678	3091.258	3092.498	3096.528	3099.349	3102.666	3105.704
<b>4.0</b>	3062.862	3078.145	3084.283	3089.553	3095.381	3099.070	3103.751	3106.386	3110.540	3113.144
<b>4.5</b>	3061.064	3076.223	3087.569	3090.049	3100.217	3105.208	3111.718	3113.919	3116.957	3122.196
<b>5.0</b>	3059.452	3074.766	3087.135	3090.886	3103.379	3109.827	3116.895	3121.390	3125.420	3129.326
<b>5.5</b>	3056.259	3072.193	3086.732	3092.901	3105.487	3113.640	3120.336	3127.280	3132.612	3138.378
<b>6.0</b>	3053.190	3069.682	3086.856	3092.715	3108.215	3117.205	3126.815	3132.085	3140.703	3146.283
<b>6.5</b>	3046.246	3064.815	3087.259	3093.986	3111.749	3120.553	3130.039	3138.223	3147.988	3151.987
<b>7.0</b>	3040.790	3059.328	3086.236	3091.537	3113.020	3125.575	3135.557	3142.842	3151.956	3154.405
<b>7.5</b>	3035.923	3055.112	3083.570	3090.359	3113.392	3127.218	3138.037	3147.337	3152.638	3154.312
<b>8.0</b>	3029.692	3050.617	3082.175	3090.297	3112.741	3130.690	3141.540	3146.624	3149.910	3149.104
<b>8.5</b>	3024.887	3046.277	3080.377	3088.995	3112.710	3132.643	3142.222	3146.562	3143.648	3142.005
<b>9.0</b>	3018.036	3042.185	3078.827	3087.910	3113.547	3131.031	3139.587	3141.447	3136.239	3129.605
<b>9.5</b>	3013.696	3037.845	3077.494	3085.833	3113.485	3129.822	3135.371	3136.115	3124.893	3117.143
<b>10.0</b>	3009.170	3034.745	3073.929	3085.709	3113.857	3127.931	3128.706	3127.714	3110.757	3100.217
<b>10.5</b>	3002.505	3029.320	3070.922	3080.501	3109.858	3123.343	3119.654	3115.996	3096.063	3080.377
<b>11.0</b>	2995.995	3024.267	3067.605	3077.928	3106.324	3115.624	3110.571	3102.790	3076.595	3057.685
<b>11.5</b>	2988.431	3019.617	3063.141	3073.185	3102.356	3106.820	3098.202	3087.476	3057.282	3034.404
<b>12.0</b>	2980.681	3014.533	3058.119	3070.395	3098.698	3094.823	3085.275	3070.953	3035.210	3013.138
<b>12.5</b>	2974.357	3008.984	3054.647	3066.334	3092.901	3082.733	3069.279	3055.174	3013.975	2992.554
<b>13.0</b>	2970.048	3006.318	3052.136	3062.583	3087.445	3069.496	3053.686	3035.675	2993.980	2975.535
<b>13.5</b>	2965.150	3001.854	3049.873	3061.281	3082.330	3054.988	3034.900	3014.719	2977.395	2960.748
<b>14.0</b>	2960.903	2999.653	3048.075	3060.165	3075.014	3039.023	3015.804	2995.530	2961.988	2950.456
<b>14.5</b>	2954.331	2996.305	3048.943	3059.390	3067.605	3022.655	2996.150	2977.209	2950.518	2942.148
<b>15.0</b>	2945.527	2990.756	3047.486	3056.693	3059.700	3006.287	2979.906	2959.632	2941.466	2939.761
<b>15.5</b>	2932.631	2985.610	3045.440	3053.035	3048.726	2988.555	2963.135	2946.364	2934.894	2940.970
<b>16.0</b>	2921.812	2976.961	3041.503	3047.393	3034.528	2972.621	2947.604	2933.344	2932.228	2945.837
<b>16.5</b>	2909.164	2970.730	3035.737	3040.697	3020.113	2954.765	2930.926	2921.068	2933.902	2953.308
<b>17.0</b>	2898.035	2963.414	3028.638	3030.684	3004.551	2936.723	2915.798	2910.962	2935.359	2961.616
<b>17.5</b>	2885.790	2955.602	3021.446	3021.911	2990.260	2919.828	2900.670	2902.034	2939.606	2972.497
<b>18.0</b>	2878.071	2948.286	3013.479	3011.805	2973.799	2903.739	2890.006	2896.082	2944.690	2980.123
<b>18.5</b>	2869.639	2941.249	3003.807	2999.591	2956.532	2888.828	2880.861	2892.641	2947.790	2984.339
<b>19.0</b>	2861.920	2935.607	2993.143	2986.075	2939.947	2876.645	2872.367	2889.634	2952.316	2984.618
<b>19.5</b>	2854.821	2928.849	2980.898	2973.148	2924.075	2865.206	2867.872	2889.913	2955.106	2979.782
<b>20.0</b>	2849.365	2920.727	2968.901	2957.276	2906.684	2855.968	2864.865	2892.796	2953.339	2971.040
<b>20.5</b>	2842.545	2913.597	2956.160	2943.698	2888.177	2849.086	2862.757	2896.578	2949.557	2956.718
<b>21.0</b>	2834.640	2904.204	2942.644	2927.361	2871.189	2842.855	2863.222	2898.469	2941.776	2938.645
<b>21.5</b>	2827.758	2896.919	2927.733	2911.582	2854.666	2836.779	2864.431	2898.407	2930.895	2918.278
<b>22.0</b>	2819.388	2888.239	2912.760	2895.865	2837.492	2832.160	2863.191	2895.896	2912.946	2895.307
<b>22.5</b>	2809.840	2881.698	2897.632	2877.110	2820.938	2826.828	2861.455	2887.898	2896.113	2870.259
<b>23.0</b>	2798.339	2872.460	2882.597	2862.323	2805.965	2820.380	2857.022	2878.691	2871.933	2843.010
<b>23.5</b>	2783.986	2864.121	2867.407	2844.467	2789.752	2815.389	2852.031	2866.973	2846.451	2817.156
<b>24.0</b>	2770.656	2856.960	2851.411	2828.254	2777.228	2811.855	2845.893	2853.984	2823.201	2795.549
<b>24.5</b>	2758.070	2845.831	2833.152	2810.305	2764.332	2805.469	2836.903	2836.934	2800.602	2777.197
<b>25.0</b>	2743.035	2834.950	2814.149	2791.860	2752.924	2800.354	2827.479	2819.016	2780.080	2761.077
<b>25.5</b>	2728.124	2821.496	2795.549	2774.314	2743.841	2794.464	2815.358	2799.703	2762.007	2749.607
<b>26.0</b>	2714.825	2806.213	2775.678	2756.210	2736.401	2789.628	2800.912	2779.522	2746.042	2741.671
<b>26.5</b>	2705.029	2790.961	2756.272	2738.106	2726.388	2782.095	2784.048	2758.194	2733.053	2733.394

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**CANDELA TABULATION - (Cont.)**

27.0	2694.768	2773.384	2738.013	2719.723	2718.514	2771.958	2765.665	2736.463	2719.940	2728.434
27.5	2682.430	2756.458	2718.793	2702.239	2709.028	2759.217	2745.515	2718.328	2709.648	2719.630
28.0	2671.704	2739.749	2698.581	2683.794	2698.023	2744.089	2725.613	2700.441	2697.744	2712.872
28.5	2657.630	2722.544	2678.710	2665.287	2687.173	2727.225	2706.145	2684.352	2683.546	2700.844
29.0	2646.594	2704.471	2659.862	2646.842	2674.401	2707.230	2689.033	2668.883	2669.968	2686.243
29.5	2629.854	2688.785	2640.239	2630.257	2659.366	2688.382	2670.340	2654.716	2654.623	2668.263
30.0	2616.586	2672.696	2623.778	2613.207	2645.695	2665.721	2651.771	2640.952	2637.480	2649.911
30.5	2600.962	2657.134	2608.495	2598.792	2632.272	2645.540	2633.388	2625.731	2618.167	2631.590
31.0	2587.043	2642.750	2593.150	2586.454	2618.849	2625.576	2614.695	2607.689	2600.249	2614.013
31.5	2574.612	2625.886	2577.030	2572.566	2602.543	2604.248	2594.607	2589.430	2582.610	2597.738
32.0	2560.228	2610.324	2562.522	2557.469	2587.229	2584.718	2574.643	2569.590	2567.079	2585.059
32.5	2546.991	2591.383	2544.883	2543.643	2569.683	2562.429	2554.431	2551.269	2552.478	2569.094
33.0	2531.305	2575.294	2529.600	2527.306	2554.152	2540.977	2533.072	2532.669	2539.954	2554.989
33.5	2517.200	2555.609	2512.209	2511.279	2538.342	2518.967	2511.124	2516.177	2525.043	2540.450
34.0	2498.786	2534.839	2494.167	2494.725	2521.881	2496.678	2490.199	2499.716	2511.062	2527.368
34.5	2479.380	2514.379	2474.699	2476.497	2506.009	2476.218	2471.227	2482.232	2496.306	2513.108
35.0	2459.106	2493.981	2454.177	2457.029	2489.734	2454.518	2453.402	2464.903	2481.953	2496.616
35.5	2442.025	2471.630	2432.198	2435.453	2472.715	2433.314	2437.220	2445.249	2465.275	2477.551
36.0	2425.812	2449.031	2411.428	2416.574	2453.154	2410.002	2418.744	2428.292	2447.605	2457.215
36.5	2407.150	2427.052	2390.348	2397.881	2433.252	2389.356	2401.105	2409.971	2430.617	2432.880
37.0	2391.371	2407.770	2371.283	2377.793	2411.924	2368.214	2381.916	2390.131	2409.754	2403.740
37.5	2372.864	2388.240	2353.210	2359.441	2390.007	2347.971	2360.402	2371.252	2386.690	2373.112
38.0	2354.326	2367.191	2333.463	2340.717	2366.943	2327.728	2340.407	2350.110	2361.642	2343.848
38.5	2331.975	2343.197	2312.724	2321.373	2343.073	2307.206	2318.273	2330.673	2334.331	2311.329
39.0	2311.701	2319.048	2290.280	2301.874	2317.746	2287.273	2298.092	2308.601	2304.974	2282.406
39.5	2288.761	2296.077	2268.952	2279.616	2292.512	2266.162	2274.532	2287.118	2276.113	2256.459
40.0	2267.309	2270.905	2244.679	2257.823	2267.867	2243.067	2251.468	2264.488	2246.198	2228.404
40.5	2244.152	2246.539	2220.592	2234.821	2242.354	2220.251	2229.861	2241.424	2216.221	2201.279
41.0	2225.676	2223.444	2199.326	2213.121	2216.996	2196.381	2207.541	2216.996	2187.732	2173.658
41.5	2206.456	2199.357	2177.409	2188.507	2188.662	2172.232	2184.539	2189.344	2158.530	2146.161
42.0	2183.609	2177.471	2155.461	2165.102	2161.971	2147.990	2161.041	2159.460	2128.181	2117.021
42.5	2162.188	2151.865	2131.870	2139.744	2136.644	2124.275	2134.784	2129.483	2097.863	2088.191
43.0	2135.125	2125.050	2106.171	2113.642	2109.364	2097.119	2105.985	2095.817	2065.778	2058.338
43.5	2109.612	2098.173	2080.224	2085.401	2079.449	2070.304	2072.970	2060.818	2031.678	2027.710
44.0	2082.921	2067.762	2054.401	2059.795	2050.464	2041.784	2041.350	2025.447	1997.392	1997.361
44.5	2054.711	2039.893	2027.090	2032.453	2019.557	2007.808	2006.413	1988.588	1962.052	1965.989
45.0	2029.012	2012.396	1999.407	2006.475	1989.208	1974.855	1971.197	1948.567	1923.953	1931.238
45.5	2000.523	1982.791	1971.228	1978.482	1957.371	1941.592	1933.005	1908.918	1889.140	1896.890
46.0	1968.283	1952.504	1942.088	1950.458	1922.000	1905.384	1892.798	1867.192	1852.033	1859.473
46.5	1936.973	1920.078	1914.870	1920.853	1888.644	1869.889	1850.235	1825.435	1815.608	1820.134
47.0	1903.927	1887.187	1884.924	1889.233	1853.242	1831.604	1808.664	1786.251	1778.966	1780.857
47.5	1869.703	1854.606	1852.405	1858.791	1816.135	1791.614	1766.535	1745.858	1741.425	1740.030
48.0	1837.370	1825.590	1818.801	1824.505	1779.462	1749.206	1725.739	1706.147	1704.008	1699.420
48.5	1805.657	1793.102	1784.949	1789.444	1740.743	1706.953	1683.331	1667.583	1665.909	1658.934
49.0	1771.898	1761.420	1749.454	1753.081	1701.404	1667.087	1642.566	1629.980	1627.624	1617.146
49.5	1735.659	1730.947	1714.734	1714.300	1661.755	1626.043	1602.731	1593.741	1588.223	1574.056
50.0	1701.559	1698.645	1679.828	1674.527	1620.525	1586.580	1564.322	1555.270	1549.597	1531.834
50.5	1663.646	1665.754	1642.101	1634.041	1581.093	1546.187	1525.913	1517.884	1507.995	1486.047
51.0	1627.531	1632.181	1605.304	1593.338	1539.305	1507.747	1487.783	1480.839	1467.974	1442.678
51.5	1589.866	1596.469	1565.283	1552.883	1500.214	1468.253	1450.459	1441.562	1426.124	1399.185
52.0	1552.635	1559.300	1524.518	1512.800	1462.735	1428.573	1413.414	1404.176	1384.336	1355.320
52.5	1515.435	1522.193	1482.823	1472.531	1424.202	1390.505	1375.315	1364.062	1341.928	1310.866
53.0	1477.398	1483.474	1443.887	1431.580	1386.165	1351.538	1336.627	1324.227	1300.171	1267.032
53.5	1439.330	1444.507	1402.068	1392.272	1347.694	1313.501	1298.807	1285.446	1257.050	1224.903
54.0	1400.704	1404.796	1361.768	1352.344	1310.711	1274.782	1262.258	1246.820	1216.068	1183.735
54.5	1360.776	1364.961	1324.475	1311.889	1273.418	1238.698	1225.027	1207.419	1173.257	1142.567

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**CANDELA TABULATION - (Cont.)**

55.0	1319.329	1321.716	1284.516	1271.868	1237.551	1201.808	1186.184	1168.266	1134.197	1103.972
55.5	1278.533	1279.680	1247.161	1234.079	1200.692	1166.375	1149.325	1131.841	1093.773	1066.245
56.0	1237.086	1238.729	1207.698	1193.624	1163.771	1129.547	1112.652	1094.951	1055.829	1031.959
56.5	1194.120	1197.189	1169.816	1157.199	1130.477	1096.346	1077.188	1060.510	1020.303	996.371
57.0	1152.611	1155.928	1132.492	1119.937	1096.160	1061.781	1042.003	1025.914	985.986	964.627
57.5	1112.590	1115.256	1095.664	1085.062	1062.153	1030.006	1009.298	992.527	953.436	933.906
58.0	1068.632	1074.925	1060.510	1050.590	1030.688	997.983	976.562	961.806	922.839	904.146
58.5	1030.068	1035.710	1024.860	1016.118	999.626	966.642	945.469	930.093	893.141	874.975
59.0	989.086	997.611	991.659	983.971	968.006	936.851	916.236	900.767	866.419	848.284
59.5	950.336	959.481	958.334	952.010	938.494	906.440	887.902	871.007	839.728	820.601
60.0	913.849	924.389	926.714	922.157	909.664	878.571	859.475	845.773	814.711	794.964
60.5	877.703	888.553	894.443	892.118	881.516	851.632	833.776	819.299	788.299	769.854
61.0	842.983	855.383	865.055	862.823	852.531	826.057	809.255	793.941	765.142	745.085
61.5	811.487	822.337	835.078	833.993	826.150	801.071	784.083	771.466	741.799	719.758
62.0	781.355	791.120	805.845	805.349	799.645	776.860	760.492	747.627	719.169	696.539
62.5	750.386	761.701	777.108	779.309	774.132	751.905	738.451	725.927	696.198	675.676
63.0	722.858	733.119	749.859	752.184	749.952	728.965	716.069	703.793	674.498	654.100
63.5	694.958	705.250	722.982	726.330	725.896	708.226	694.555	682.155	653.976	632.927
64.0	668.918	679.675	697.283	701.437	702.646	686.433	674.188	661.416	633.175	611.289
64.5	645.296	654.131	671.925	676.947	679.830	666.004	652.705	639.871	613.180	590.643
65.0	621.426	630.168	646.939	652.643	657.944	646.536	633.454	620.868	593.402	570.648
65.5	600.749	605.709	623.193	630.664	636.864	625.611	614.296	600.563	573.934	553.753
66.0	576.662	582.955	601.710	607.693	615.815	607.259	595.045	581.188	556.016	535.773
66.5	555.024	561.069	579.762	586.210	595.386	588.349	576.848	565.223	537.230	519.591
67.0	535.866	539.307	558.651	564.975	576.104	570.183	559.085	545.848	519.498	504.401
67.5	514.910	519.777	537.602	545.104	556.760	551.676	541.942	528.457	503.998	488.777
68.0	495.535	498.666	518.847	525.574	538.222	534.874	524.799	510.973	487.289	473.959
68.5	476.625	479.477	497.705	506.571	520.862	517.576	508.369	494.326	473.556	458.490
69.0	457.002	461.342	479.477	488.715	501.580	501.270	491.567	477.183	458.924	444.881
69.5	441.006	442.804	462.086	470.208	485.088	485.243	476.346	464.287	443.703	430.590
70.0	423.677	424.390	443.982	452.104	466.798	469.092	460.009	448.787	430.404	417.508
70.5	405.170	407.650	428.451	434.496	452.197	452.104	444.230	433.752	417.570	405.480
71.0	389.515	390.848	410.812	419.864	436.294	436.728	429.474	421.042	404.736	392.460
71.5	373.085	374.356	394.413	401.946	420.422	420.794	417.043	407.619	391.964	381.145
72.0	358.019	358.546	380.215	387.283	405.883	407.805	402.690	395.064	379.750	370.574
72.5	343.294	343.666	364.994	371.535	390.228	392.274	388.213	381.982	368.931	360.003
73.0	329.158	327.050	349.835	357.771	375.069	377.425	375.317	370.109	358.546	351.757
73.5	313.317	314.929	336.071	343.542	360.344	364.932	362.793	357.678	349.370	343.356
74.0	300.204	300.514	322.648	330.274	348.254	351.230	351.013	348.099	340.597	335.575
74.5	285.727	286.285	309.225	316.417	334.087	338.830	338.861	336.133	332.351	326.988
75.0	275.621	275.404	296.329	303.025	320.571	324.508	328.073	326.926	322.958	320.819
75.5	262.694	263.004	284.580	290.749	307.644	313.503	316.975	317.502	316.231	314.278
76.0	250.821	251.131	271.684	279.682	295.709	302.684	305.691	308.667	308.543	308.884
76.5	239.165	240.033	261.516	268.119	283.743	291.400	296.174	299.646	302.746	304.699
77.0	226.331	229.741	249.364	256.556	273.141	280.891	286.409	291.741	297.073	300.762
77.5	218.581	219.294	239.351	245.923	261.547	272.087	275.962	283.340	291.369	298.406
78.0	207.328	208.196	228.873	235.476	251.627	262.105	266.910	274.970	287.184	294.903
78.5	196.664	198.121	218.333	225.370	241.893	250.945	258.540	266.724	282.751	293.849
79.0	188.263	189.100	209.157	215.574	232.748	242.017	249.333	261.082	279.341	292.144
79.5	178.963	180.234	199.919	205.406	222.549	232.810	241.676	255.037	277.636	291.090
80.0	168.392	171.647	188.790	195.796	213.249	225.308	234.546	249.891	274.908	289.850
80.5	160.983	161.727	180.575	187.271	203.670	216.597	227.168	243.164	271.002	288.362
81.0	152.148	152.768	170.903	177.506	194.029	209.033	221.526	239.444	268.770	285.944
81.5	143.778	144.429	162.564	168.640	186.000	201.469	215.977	234.391	265.360	284.425
82.0	134.385	134.261	152.799	159.433	176.049	193.192	209.467	229.400	262.074	281.852
82.5	126.542	128.061	144.770	150.257	168.299	186.899	203.918	224.130	259.377	277.729

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**CANDELA TABULATION - (Cont.)**

83.0	116.591	117.707	135.873	142.135	158.875	179.676	196.137	218.798	255.409	273.203
83.5	107.198	108.593	126.976	132.835	150.319	173.290	190.681	213.435	249.612	266.352
84.0	96.441	101.060	118.513	124.000	143.034	166.005	184.450	207.142	243.381	258.168
84.5	87.389	91.481	109.585	115.103	134.850	159.805	178.219	201.810	236.716	246.822
85.0	80.910	82.243	100.781	107.074	126.139	151.497	172.794	194.432	227.571	236.375
85.5	68.696	74.338	92.039	98.084	118.110	145.917	164.951	187.829	217.837	223.076
86.0	59.551	65.379	83.204	89.435	110.236	138.880	159.061	178.870	206.119	210.335
86.5	48.670	57.133	74.152	80.011	101.153	132.122	150.412	170.779	193.936	197.501
87.0	39.959	47.864	64.759	72.385	92.845	125.798	143.344	161.975	180.854	186.403
87.5	29.357	39.215	55.893	62.434	85.653	118.916	136.431	152.551	168.547	176.483
88.0	20.429	30.938	48.608	55.273	77.841	112.344	129.735	141.670	158.379	169.105
88.5	11.408	23.064	38.936	46.376	71.238	105.772	122.636	134.540	151.063	162.967
89.0	5.487	14.663	34.224	40.796	65.968	101.308	116.095	127.875	144.832	157.511
89.5	0.000	10.168	30.783	36.642	61.783	96.658	110.577	119.939	139.066	153.946
90.0	0.000	8.153	28.954	34.100	59.861	94.023	105.276	116.033	136.152	152.458
90.5	0.000	9.083	28.861	34.193	58.652	91.605	103.509	112.406	135.780	152.210
91.0	0.000	8.339	28.613	34.193	59.365	91.636	101.215	111.786	135.501	155.000
91.5	0.000	8.277	28.241	35.092	59.830	89.125	99.138	111.352	136.896	160.301
92.0	0.000	7.440	28.892	35.650	61.287	88.567	99.262	109.926	140.368	164.951
92.5	0.000	8.556	28.923	35.278	59.179	87.699	98.456	110.546	143.623	169.012
93.0	0.000	8.711	30.504	36.177	61.132	85.808	98.301	112.251	147.033	174.003
93.5	0.000	7.378	29.574	36.673	61.535	86.862	98.921	113.956	152.055	180.854
94.0	0.000	8.370	29.915	36.735	59.799	86.397	99.634	115.196	156.798	185.814
94.5	0.000	8.990	30.504	37.448	59.861	86.955	101.494	118.699	161.045	189.689
95.0	0.000	7.843	30.969	37.882	60.016	88.257	102.982	122.326	165.323	193.719
95.5	0.000	8.990	30.907	38.099	60.760	88.660	105.214	124.961	169.477	198.369
96.0	0.000	8.153	30.566	36.704	60.202	90.489	107.632	128.557	173.786	201.128
96.5	0.000	8.711	30.876	38.068	60.977	92.256	111.011	132.649	176.886	207.297
97.0	3.813	8.494	30.690	38.688	60.884	93.620	113.460	136.183	180.358	208.103
97.5	0.000	9.517	31.713	38.378	62.093	94.953	116.777	138.353	182.621	209.312
98.0	0.000	9.455	31.775	38.688	62.620	97.433	117.955	141.050	185.349	207.018
98.5	0.000	9.052	31.930	39.029	63.550	99.603	121.086	144.553	186.403	206.677
99.0	0.000	9.424	33.325	39.618	65.100	101.463	123.690	144.832	187.395	205.003
99.5	0.000	10.385	32.209	39.618	65.534	102.982	125.581	149.761	185.783	202.368
100.0	0.000	9.300	33.883	39.897	67.456	104.811	127.503	150.784	184.140	197.780
100.5	0.000	9.858	33.201	41.106	66.743	107.477	128.712	150.877	182.714	193.285
101.0	0.000	10.602	35.340	41.199	67.921	109.647	129.053	151.187	179.645	189.968
101.5	0.000	10.230	35.185	42.191	68.293	110.639	131.130	150.288	175.522	184.605
102.0	0.000	11.160	35.836	41.292	70.649	110.453	130.293	149.482	172.484	179.273
102.5	0.000	11.191	36.487	43.834	70.370	111.321	130.758	147.560	167.989	174.902
103.0	0.000	11.284	36.084	43.896	70.494	111.848	130.417	145.917	162.037	168.857
103.5	0.000	10.788	37.076	44.423	71.765	112.251	128.061	142.166	158.658	164.176
104.0	0.000	11.594	37.479	45.291	72.974	111.259	128.185	140.027	154.628	159.650
104.5	0.000	12.400	38.161	45.415	72.106	110.515	125.116	135.904	149.916	155.062
105.0	0.000	12.338	37.014	45.911	73.935	108.035	123.132	133.455	145.297	150.908
105.5	0.000	12.152	37.758	46.686	74.245	108.128	121.086	129.394	141.639	146.568
106.0	3.844	11.718	38.223	47.523	75.144	107.322	117.924	126.635	138.291	143.189
106.5	0.000	12.741	39.122	46.500	74.431	106.485	116.157	124.124	135.408	140.337
107.0	4.092	14.136	38.998	48.143	74.493	104.036	113.615	122.078	132.401	138.694
107.5	3.720	13.330	40.424	48.794	74.710	102.269	113.026	120.466	131.037	136.586
108.0	0.000	14.446	41.540	49.166	74.896	100.843	111.476	119.505	130.138	134.602
108.5	4.092	15.004	41.943	48.112	73.594	99.944	109.213	116.870	128.092	133.920
109.0	0.000	14.477	42.067	49.755	73.935	98.518	108.717	115.878	127.565	132.773
109.5	4.247	14.446	42.842	48.608	73.935	97.712	107.043	115.134	127.627	132.060
110.0	0.000	16.182	42.718	51.150	73.191	98.084	106.981	114.142	125.922	130.851
110.5	0.000	15.314	43.617	51.026	73.935	97.309	107.291	115.537	125.860	130.355

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**CANDELA TABULATION - (Cont.)**

111.0	3.906	16.213	43.555	50.778	73.749	97.247	107.074	113.336	125.829	130.510
111.5	3.720	15.810	44.020	50.840	73.532	97.743	107.322	114.669	126.077	130.262
112.0	5.084	16.926	44.268	51.708	73.408	98.549	107.911	114.948	127.751	131.099
112.5	5.549	16.399	46.097	51.398	73.377	98.084	107.353	115.506	128.092	132.370
113.0	0.000	17.608	45.415	53.568	74.090	99.045	109.120	115.568	127.410	131.967
113.5	4.340	17.174	46.190	53.289	75.268	100.099	110.174	116.777	130.014	133.114
114.0	0.000	17.236	45.601	53.909	75.423	100.409	109.771	118.575	130.293	134.261
114.5	3.999	17.546	47.182	54.188	75.888	101.556	110.949	119.505	131.006	134.819
115.0	4.247	18.290	47.430	55.087	76.322	101.587	112.220	121.272	132.711	136.431
115.5	0.000	18.011	48.298	55.180	76.849	103.540	112.344	121.148	133.083	136.741
116.0	5.611	18.755	48.949	54.653	77.407	104.036	114.669	121.768	133.486	138.508
116.5	3.875	18.290	48.577	55.924	77.252	104.129	115.165	123.380	135.904	139.500
117.0	4.216	19.189	48.670	55.924	78.678	106.516	115.847	125.333	136.152	140.833
117.5	0.000	19.034	48.608	55.428	79.143	105.431	118.079	126.232	137.609	142.228
118.0	4.960	17.422	49.414	55.056	80.011	107.074	118.296	127.131	137.764	141.980
118.5	4.526	20.367	49.569	57.133	80.538	108.345	118.575	127.410	139.097	143.809
119.0	4.991	19.902	50.313	58.776	82.150	108.748	118.699	128.185	140.337	144.274
119.5	0.000	19.778	49.879	57.970	81.251	109.864	120.187	128.867	141.298	146.630
120.0	6.634	19.406	50.468	57.412	81.809	110.267	120.466	130.665	141.453	146.103
120.5	6.386	18.538	50.344	58.001	82.739	110.143	121.613	131.254	142.259	147.746
121.0	6.045	19.685	49.662	56.792	82.429	110.763	121.985	131.440	143.747	148.459
121.5	6.417	20.243	48.546	57.970	81.747	110.112	122.760	131.657	144.181	149.017
122.0	5.952	20.026	49.290	57.133	81.499	110.949	122.388	132.618	144.739	149.482
122.5	5.146	19.964	50.127	57.505	82.026	109.523	121.148	131.936	143.716	149.513
123.0	6.169	19.809	49.724	57.288	80.662	110.329	122.512	132.246	144.553	149.513
123.5	5.487	18.476	49.321	56.296	81.592	110.019	122.047	130.634	144.863	149.234
124.0	6.479	19.003	48.081	56.637	80.910	108.686	122.264	130.014	143.933	149.916
124.5	6.231	18.910	47.585	55.211	79.081	108.624	120.683	130.913	143.251	149.482
125.0	7.130	18.755	46.872	54.994	78.709	108.686	119.009	129.487	143.499	149.389
125.5	5.301	18.755	45.911	54.002	76.663	108.066	118.358	128.743	143.065	149.544
126.0	7.564	19.034	45.415	53.134	76.756	105.896	117.800	127.658	142.724	148.242
126.5	6.076	19.499	45.880	52.948	75.826	105.338	116.653	126.294	141.577	148.118
127.0	6.541	17.980	46.097	51.677	75.175	104.594	116.033	126.449	139.903	146.444
127.5	6.789	18.538	43.524	50.561	73.222	103.602	114.700	124.930	138.477	145.235
128.0	6.510	17.980	43.183	50.530	72.633	100.874	113.243	122.295	137.206	143.902
128.5	6.138	17.701	42.563	48.732	70.525	100.192	111.662	120.590	136.214	142.848
129.0	6.541	17.608	42.005	48.143	70.277	98.270	109.554	119.288	135.501	141.236
129.5	7.657	16.988	41.447	47.523	68.572	97.247	107.198	118.110	133.269	139.438
130.0	6.665	17.546	40.269	47.368	69.037	95.883	106.206	116.126	131.192	137.547
130.5	5.642	17.112	39.370	45.415	66.092	93.403	104.935	115.537	128.464	136.090
131.0	7.595	17.019	39.494	44.423	63.674	91.388	102.145	112.902	126.077	134.323
131.5	7.223	17.267	37.262	43.958	63.643	89.993	100.285	109.678	124.775	132.215
132.0	7.440	15.066	36.332	42.346	60.946	87.420	98.890	108.655	123.380	129.332
132.5	7.967	16.275	37.076	42.253	61.070	85.901	96.410	107.229	120.807	127.627
133.0	7.967	15.748	35.805	40.889	59.830	84.010	94.612	104.408	119.040	126.170
133.5	7.967	14.415	34.193	39.928	57.567	82.894	92.163	102.579	116.250	124.465
134.0	8.804	16.399	33.976	38.781	56.234	80.042	90.334	99.727	113.863	121.334
134.5	9.207	15.283	32.984	38.998	54.467	79.484	87.761	98.363	111.879	119.102
135.0	7.254	14.694	33.759	37.851	53.940	76.074	85.374	95.139	108.624	117.273
135.5	7.967	14.570	31.155	37.324	53.134	74.834	83.669	92.535	106.950	113.987
136.0	8.370	14.694	30.535	36.053	51.770	72.230	81.871	90.613	105.896	111.445
136.5	7.099	14.446	30.194	34.813	49.538	70.339	79.794	88.536	102.331	108.810
137.0	6.975	13.268	30.752	34.968	49.197	67.580	76.849	86.025	98.983	105.648
137.5	8.215	14.074	28.768	33.418	48.980	66.402	74.989	83.359	96.534	103.602
138.0	7.378	14.136	29.109	32.395	46.748	65.069	73.036	80.941	93.279	100.502
138.5	8.773	14.756	27.528	31.186	45.508	63.457	71.393	79.267	90.892	98.301

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**CANDELA TABULATION - (Cont.)**

139.0	9.362	13.547	28.024	31.186	43.772	61.628	68.541	76.880	89.714	96.038
139.5	8.122	13.485	26.908	30.070	43.276	59.365	66.650	75.175	86.862	92.938
140.0	9.548	12.555	26.195	29.698	41.602	59.055	64.418	73.346	84.227	90.148
140.5	8.649	13.237	25.296	28.644	40.548	56.978	63.085	70.122	82.460	88.102
141.0	6.913	13.454	25.699	28.861	40.021	56.048	61.101	68.324	80.383	85.653
141.5	8.494	12.493	24.955	28.148	38.936	53.134	60.636	66.960	77.438	82.274
142.0	8.990	12.803	23.312	27.249	38.905	51.956	58.001	63.333	76.570	80.631
142.5	8.122	11.873	24.180	26.846	37.045	50.530	57.009	62.868	73.067	78.802
143.0	8.587	12.865	23.436	25.513	37.603	50.344	56.079	61.163	70.897	75.640
143.5	8.246	13.113	22.537	25.575	36.239	48.143	53.940	59.210	68.107	74.276
144.0	8.928	11.966	23.002	24.180	34.720	47.771	52.204	58.776	67.239	71.951
144.5	7.564	11.532	22.413	24.645	32.736	45.911	50.623	56.544	66.309	69.719
145.0	9.207	10.757	22.382	24.335	33.294	45.105	50.406	54.467	63.271	68.634
145.5	7.905	12.772	21.855	23.901	33.542	44.671	48.360	53.475	62.186	66.960
146.0	8.587	11.129	20.646	23.374	32.054	44.330	46.965	51.770	60.326	65.193
146.5	9.083	12.803	20.646	22.630	31.744	42.625	45.694	49.352	58.094	62.620
147.0	8.773	11.036	20.522	22.320	31.341	39.959	45.229	49.166	57.598	60.605
147.5	8.184	12.121	19.964	21.824	30.721	40.021	44.764	47.585	55.118	61.256
148.0	9.083	11.439	19.530	21.359	29.791	38.564	42.749	46.345	53.816	58.373
148.5	9.827	11.470	19.685	21.297	29.822	37.231	41.354	46.469	53.010	56.761
149.0	8.928	11.284	19.716	20.925	28.551	38.130	41.447	44.640	51.181	55.087
149.5	10.695	11.749	18.383	19.964	28.148	36.580	39.277	42.873	49.972	53.041
150.0	9.672	11.935	18.414	20.057	27.032	36.828	38.564	42.625	48.732	51.584
150.5	8.959	10.695	18.042	20.150	25.544	34.565	38.595	41.850	46.779	50.468
151.0	10.261	11.501	18.166	19.251	26.381	34.193	37.076	41.881	45.415	48.639
151.5	10.137	11.470	17.360	19.127	26.257	33.139	36.332	38.967	43.958	48.577
152.0	9.672	11.935	16.864	18.817	25.575	33.077	35.681	37.727	43.462	46.221
152.5	9.889	11.036	16.864	18.600	24.862	32.674	33.449	37.541	42.780	45.229
153.0	8.835	11.346	16.988	17.608	23.250	30.752	33.852	36.487	41.819	45.539
153.5	9.021	10.509	16.182	17.732	22.444	29.636	32.147	35.805	41.013	42.749
154.0	9.331	10.881	16.585	17.825	22.351	30.411	31.496	34.720	38.595	42.966
154.5	9.300	10.912	15.500	17.515	22.599	30.411	31.372	33.790	37.851	41.168
155.0	9.672	11.005	14.849	16.120	20.987	28.675	30.039	32.643	37.789	40.703
155.5	9.331	11.408	15.500	17.329	21.173	28.458	28.675	32.922	35.898	38.409
156.0	8.556	10.509	15.624	16.647	20.677	27.125	28.582	31.620	36.115	37.355
156.5	9.207	9.920	15.562	16.244	18.972	26.753	28.241	30.225	34.813	37.138
157.0	10.044	10.230	14.446	13.733	19.592	25.389	28.737	29.977	34.255	36.084
157.5	9.486	10.633	13.454	14.291	19.685	25.761	26.381	29.512	32.798	34.255
158.0	10.478	10.292	14.477	15.252	19.623	24.676	26.381	28.644	30.721	34.906
158.5	9.052	9.424	13.082	14.787	18.135	23.746	25.668	27.621	30.628	32.953
159.0	8.649	10.261	13.640	14.260	17.949	23.467	24.707	28.086	30.659	32.271
159.5	7.533	10.013	13.981	13.423	18.042	22.041	24.056	26.660	30.256	32.457
160.0	8.897	9.827	12.028	13.516	16.895	21.638	23.343	24.955	29.264	30.783
160.5	9.083	9.238	12.183	13.671	17.174	20.646	21.297	25.234	27.962	30.287
161.0	7.936	8.835	12.772	12.121	15.872	20.615	21.700	23.095	27.156	29.171
161.5	8.587	9.331	11.408	12.059	16.027	20.026	20.863	23.622	26.319	28.086
162.0	9.362	9.486	11.222	12.307	15.469	19.127	21.762	23.033	25.978	27.807
162.5	7.750	10.323	10.881	12.524	16.213	19.437	20.088	21.514	25.203	26.474
163.0	8.773	9.982	11.284	11.687	13.919	18.321	19.437	21.018	23.746	26.319
163.5	8.618	9.393	11.532	11.935	14.725	18.507	18.445	20.770	23.002	25.792
164.0	9.362	9.207	11.594	11.346	13.795	18.476	17.670	19.995	23.529	25.544
164.5	8.029	8.246	11.532	11.098	14.973	17.794	17.267	18.941	23.343	24.180
165.0	10.261	8.308	11.873	11.191	13.175	17.050	16.337	18.538	21.421	22.971
165.5	8.618	9.734	11.842	10.974	13.206	15.872	16.399	17.143	19.902	22.165
166.0	9.579	9.982	11.036	9.486	12.710	16.089	16.647	17.484	19.933	20.987
166.5	9.238	9.176	10.013	10.633	11.966	15.655	15.097	16.120	18.631	20.522

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**CANDELA TABULATION - (Cont.)**

167.0	8.866	8.866	10.571	9.889	11.222	14.260	14.570	15.872	18.662	19.778
167.5	8.494	9.734	10.943	9.114	11.036	13.547	15.376	15.717	18.073	19.809
168.0	9.765	9.238	10.168	9.951	11.780	14.508	14.601	15.438	17.918	18.414
168.5	8.928	8.370	10.602	10.292	12.090	13.020	13.795	14.663	16.678	18.166
169.0	8.401	8.742	10.664	10.075	12.028	11.687	12.958	13.547	13.919	16.461
169.5	9.052	9.021	11.129	9.703	11.346	12.834	12.400	13.020	14.756	16.616
170.0	10.013	8.680	10.633	9.548	10.881	12.586	11.532	12.803	14.446	14.415
170.5	9.703	9.610	10.044	8.742	10.788	11.470	12.865	14.043	14.477	13.547
171.0	9.796	9.424	9.455	9.641	10.478	12.214	11.718	12.059	12.865	14.167
171.5	10.509	9.207	9.889	8.680	9.455	11.098	12.214	12.617	12.679	13.919
172.0	9.796	9.114	9.455	10.137	10.757	11.005	11.005	11.718	12.648	13.454
172.5	8.246	8.928	8.680	8.773	9.455	9.858	10.168	11.191	11.997	11.811
173.0	8.804	9.207	9.300	9.517	10.819	10.075	10.292	10.850	11.563	11.315
173.5	7.657	8.928	9.114	10.261	8.680	10.416	10.323	10.230	11.594	10.726
174.0	9.672	8.370	10.292	7.657	9.331	8.835	9.920	9.486	9.548	10.943
174.5	9.641	8.525	8.897	8.122	8.587	9.796	10.137	9.455	10.974	10.478
175.0	9.176	7.657	9.083	9.021	9.083	8.928	9.982	9.331	10.137	10.447
175.5	9.548	8.835	9.176	8.339	8.742	8.184	8.370	8.432	9.951	9.889
176.0	9.145	8.897	8.804	7.781	8.029	9.641	9.238	9.145	9.796	10.013
176.5	10.571	7.564	8.649	7.843	8.401	8.494	9.114	8.587	9.486	9.734
177.0	7.812	8.525	7.967	8.897	9.951	8.494	8.680	8.184	9.982	9.982
177.5	8.339	8.339	8.680	8.091	7.595	8.122	7.285	7.905	9.858	8.556
178.0	9.331	7.843	9.083	8.060	9.300	8.959	8.308	7.471	8.215	8.370
178.5	8.153	7.440	8.680	8.401	8.649	8.928	8.742	7.533	8.277	9.858
179.0	8.928	7.967	9.393	7.471	9.424	8.587	7.905	7.099	7.657	8.339
179.5	9.889	8.959	7.967	7.781	7.812	8.184	8.339	7.998	6.479	9.052
180.0	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184

**Vert. Horizontal Angles**

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	3063.792	3063.792	3063.792
0.5	3062.769	3063.854	3068.907
1.0	3065.187	3065.528	3069.186
1.5	3069.527	3072.255	3076.471
2.0	3076.037	3078.796	3082.919
2.5	3085.957	3087.445	3092.374
3.0	3093.986	3097.458	3103.348
3.5	3103.255	3105.580	3110.602
4.0	3110.757	3114.384	3118.507
4.5	3117.949	3121.328	3126.722
5.0	3126.443	3129.450	3135.898
5.5	3135.123	3135.836	3142.222
6.0	3142.439	3140.052	3144.268
6.5	3147.678	3142.563	3146.128
7.0	3149.228	3141.509	3143.028
7.5	3148.329	3138.781	3137.479
8.0	3143.896	3130.349	3129.884
8.5	3135.929	3121.018	3118.786
9.0	3122.878	3105.890	3102.883
9.5	3109.145	3090.607	3084.035
10.0	3092.188	3070.147	3062.335
10.5	3070.984	3047.796	3038.465
11.0	3047.393	3026.778	3015.928
11.5	3024.887	3006.659	2996.026
12.0	3003.931	2986.726	2977.550



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**CANDELA TABULATION - (Cont.)**

<b>12.5</b>	2985.300	2970.234	2963.073
<b>13.0</b>	2968.870	2957.462	2952.843
<b>13.5</b>	2956.284	2947.480	2944.845
<b>14.0</b>	2945.496	2941.125	2940.598
<b>14.5</b>	2940.412	2942.086	2941.249
<b>15.0</b>	2938.583	2946.953	2945.837
<b>15.5</b>	2941.404	2955.664	2955.106
<b>16.0</b>	2948.627	2969.304	2967.847
<b>16.5</b>	2957.555	2981.208	2978.449
<b>17.0</b>	2969.428	2991.903	2989.175
<b>17.5</b>	2979.596	3000.862	2998.413
<b>18.0</b>	2986.540	3006.628	3002.846
<b>18.5</b>	2990.539	3005.357	3000.242
<b>19.0</b>	2988.090	2996.305	2990.539
<b>19.5</b>	2982.014	2982.076	2974.388
<b>20.0</b>	2970.234	2963.910	2953.587
<b>20.5</b>	2953.401	2940.753	2930.523
<b>21.0</b>	2932.693	2915.891	2906.033
<b>21.5</b>	2909.040	2889.603	2877.637
<b>22.0</b>	2883.868	2863.656	2852.310
<b>22.5</b>	2859.192	2839.631	2829.897
<b>23.0</b>	2832.904	2818.892	2807.732
<b>23.5</b>	2809.406	2800.199	2791.891
<b>24.0</b>	2788.946	2786.993	2778.034
<b>24.5</b>	2772.764	2776.763	2770.842
<b>25.0</b>	2758.132	2770.408	2765.014
<b>25.5</b>	2748.026	2766.316	2765.045
<b>26.0</b>	2741.888	2760.488	2762.906
<b>26.5</b>	2735.347	2753.482	2755.776
<b>27.0</b>	2730.511	2741.981	2744.957
<b>27.5</b>	2725.055	2728.899	2730.325
<b>28.0</b>	2715.817	2711.043	2711.539
<b>28.5</b>	2702.518	2692.939	2692.474
<b>29.0</b>	2687.855	2676.447	2674.959
<b>29.5</b>	2669.999	2659.056	2658.126
<b>30.0</b>	2651.895	2644.610	2642.223
<b>30.5</b>	2634.132	2630.939	2628.676
<b>31.0</b>	2617.981	2618.601	2623.344
<b>31.5</b>	2602.357	2607.193	2617.175
<b>32.0</b>	2589.182	2596.591	2609.084
<b>32.5</b>	2575.449	2586.051	2600.435
<b>33.0</b>	2561.499	2572.783	2590.050
<b>33.5</b>	2547.487	2556.291	2569.063
<b>34.0</b>	2531.863	2535.521	2544.635
<b>34.5</b>	2515.743	2510.132	2515.929
<b>35.0</b>	2497.608	2482.480	2483.596
<b>35.5</b>	2475.536	2452.007	2450.736
<b>36.0</b>	2452.565	2423.115	2418.682
<b>36.5</b>	2424.541	2393.913	2392.084
<b>37.0</b>	2394.595	2368.059	2369.578
<b>37.5</b>	2365.269	2344.468	2345.987
<b>38.0</b>	2335.075	2320.443	2324.783
<b>38.5</b>	2307.299	2298.309	2301.006
<b>39.0</b>	2281.073	2275.617	2276.702
<b>39.5</b>	2253.607	2251.437	2253.173
<b>40.0</b>	2226.513	2225.769	2228.218

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**CANDELA TABULATION - (Cont.)**

<b>40.5</b>	2198.923	2199.915	2204.193
<b>41.0</b>	2171.798	2173.255	2179.610
<b>41.5</b>	2144.549	2147.091	2157.631
<b>42.0</b>	2115.750	2123.500	2135.435
<b>42.5</b>	2085.587	2097.336	2109.178
<b>43.0</b>	2056.075	2070.118	2083.758
<b>43.5</b>	2025.788	2040.637	2053.564
<b>44.0</b>	1995.067	2008.738	2021.975
<b>44.5</b>	1962.548	1974.793	1983.318
<b>45.0</b>	1929.347	1937.345	1943.917
<b>45.5</b>	1893.356	1897.944	1903.369
<b>46.0</b>	1856.435	1855.598	1855.660
<b>46.5</b>	1817.344	1812.942	1809.191
<b>47.0</b>	1778.253	1766.783	1761.389
<b>47.5</b>	1737.643	1721.957	1714.021
<b>48.0</b>	1694.770	1674.000	1663.832
<b>48.5</b>	1652.858	1626.167	1616.681
<b>49.0</b>	1609.520	1578.396	1568.972
<b>49.5</b>	1565.159	1531.183	1519.713
<b>50.0</b>	1521.077	1485.365	1473.678
<b>50.5</b>	1476.375	1438.245	1426.403
<b>51.0</b>	1430.991	1391.559	1381.639
<b>51.5</b>	1386.072	1347.663	1337.216
<b>52.0</b>	1341.587	1304.480	1292.142
<b>52.5</b>	1297.133	1261.731	1249.889
<b>53.0</b>	1253.578	1220.005	1206.954
<b>53.5</b>	1213.464	1180.604	1168.111
<b>54.0</b>	1172.916	1141.637	1130.105
<b>54.5</b>	1132.926	1104.561	1092.285
<b>55.0</b>	1094.579	1068.694	1056.387
<b>55.5</b>	1058.371	1034.966	1022.628
<b>56.0</b>	1023.496	1003.067	988.590
<b>56.5</b>	990.264	971.571	958.582
<b>57.0</b>	959.264	940.850	926.559
<b>57.5</b>	928.512	910.780	898.039
<b>58.0</b>	898.752	881.206	868.744
<b>58.5</b>	869.395	853.957	838.829
<b>59.0</b>	842.642	825.251	810.774
<b>59.5</b>	815.269	797.475	785.323
<b>60.0</b>	788.919	771.311	756.896
<b>60.5</b>	763.902	745.333	732.406
<b>61.0</b>	738.792	719.448	707.916
<b>61.5</b>	714.550	694.741	683.426
<b>62.0</b>	692.385	672.080	660.517
<b>62.5</b>	669.972	649.140	636.089
<b>63.0</b>	646.815	625.704	614.296
<b>63.5</b>	626.448	604.128	591.790
<b>64.0</b>	604.252	582.986	571.702
<b>64.5</b>	583.761	564.138	551.645
<b>65.0</b>	565.068	546.778	536.176
<b>65.5</b>	547.522	529.511	517.824
<b>66.0</b>	529.232	511.903	502.541
<b>66.5</b>	513.236	496.899	488.157
<b>67.0</b>	497.922	481.275	473.122
<b>67.5</b>	483.631	467.170	458.800
<b>68.0</b>	467.976	452.228	444.664

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**CANDELA TABULATION - (Cont.)**

<b>68.5</b>	453.127	438.960	432.760
<b>69.0</b>	439.735	424.545	419.523
<b>69.5</b>	426.281	412.455	407.030
<b>70.0</b>	412.579	399.652	395.777
<b>70.5</b>	400.365	388.833	385.516
<b>71.0</b>	388.461	377.828	375.100
<b>71.5</b>	376.588	368.466	365.893
<b>72.0</b>	366.451	359.786	359.755
<b>72.5</b>	357.957	352.191	354.485
<b>73.0</b>	350.362	345.278	347.851
<b>73.5</b>	341.651	338.055	343.046
<b>74.0</b>	334.211	332.785	335.792
<b>74.5</b>	326.089	327.236	333.374
<b>75.0</b>	320.137	323.640	331.080
<b>75.5</b>	313.503	319.486	328.166
<b>76.0</b>	309.349	317.099	326.833
<b>76.5</b>	305.629	314.991	326.740
<b>77.0</b>	303.521	315.456	328.879
<b>77.5</b>	299.522	317.223	329.065
<b>78.0</b>	299.150	316.851	331.049
<b>78.5</b>	297.569	316.231	330.770
<b>79.0</b>	297.228	317.440	331.328
<b>79.5</b>	294.779	319.021	335.079
<b>80.0</b>	294.593	318.773	332.506
<b>80.5</b>	294.469	317.192	332.196
<b>81.0</b>	291.710	314.588	330.956
<b>81.5</b>	288.765	312.015	326.895
<b>82.0</b>	286.471	308.760	320.385
<b>82.5</b>	282.472	302.467	313.193
<b>83.0</b>	276.675	293.694	302.467
<b>83.5</b>	269.669	282.720	289.602
<b>84.0</b>	260.090	268.057	273.172
<b>84.5</b>	248.651	256.432	257.641
<b>85.0</b>	236.251	241.583	243.381
<b>85.5</b>	223.076	228.253	229.865
<b>86.0</b>	210.459	216.349	217.310
<b>86.5</b>	197.904	205.313	208.258
<b>87.0</b>	188.325	196.416	198.524
<b>87.5</b>	176.762	187.426	192.355
<b>88.0</b>	171.523	183.148	188.759
<b>88.5</b>	164.858	177.816	183.954
<b>89.0</b>	161.355	174.716	179.738
<b>89.5</b>	157.542	172.639	179.273
<b>90.0</b>	156.457	173.662	181.040
<b>90.5</b>	156.736	178.715	187.550
<b>91.0</b>	161.603	182.528	192.665
<b>91.5</b>	166.191	189.844	197.780
<b>92.0</b>	171.647	195.517	204.538
<b>92.5</b>	175.646	200.880	209.250
<b>93.0</b>	182.156	206.057	216.907
<b>93.5</b>	187.519	212.443	221.464
<b>94.0</b>	193.006	217.930	226.951
<b>94.5</b>	196.757	221.712	231.291
<b>95.0</b>	199.919	226.052	235.569
<b>95.5</b>	205.251	229.524	237.274
<b>96.0</b>	209.870	232.593	239.878

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**CANDELA TABULATION - (Cont.)**

<b>96.5</b>	212.691	232.407	235.755
<b>97.0</b>	212.753	231.787	235.476
<b>97.5</b>	213.373	228.718	231.043
<b>98.0</b>	212.040	224.874	226.672
<b>98.5</b>	211.141	220.999	221.991
<b>99.0</b>	207.700	216.938	217.558
<b>99.5</b>	204.042	210.118	211.575
<b>100.0</b>	200.136	205.623	205.530
<b>100.5</b>	195.176	200.539	202.306
<b>101.0</b>	189.937	195.796	195.083
<b>101.5</b>	186.310	189.720	189.999
<b>102.0</b>	181.691	185.287	186.403
<b>102.5</b>	176.297	179.893	180.079
<b>103.0</b>	170.159	174.034	175.150
<b>103.5</b>	165.819	167.648	168.516
<b>104.0</b>	160.177	161.107	162.998
<b>104.5</b>	155.527	156.891	158.627
<b>105.0</b>	151.342	153.605	154.597
<b>105.5</b>	148.242	150.722	150.443
<b>106.0</b>	144.305	148.242	147.560
<b>106.5</b>	141.670	145.142	145.576
<b>107.0</b>	138.291	142.817	142.972
<b>107.5</b>	136.338	140.089	140.833
<b>108.0</b>	135.625	137.547	138.012
<b>108.5</b>	134.168	135.966	138.260
<b>109.0</b>	132.494	135.873	135.501
<b>109.5</b>	132.060	135.346	136.028
<b>110.0</b>	131.347	134.509	134.075
<b>110.5</b>	131.595	133.827	133.641
<b>111.0</b>	131.657	133.300	133.610
<b>111.5</b>	131.223	132.928	132.277
<b>112.0</b>	132.122	134.850	135.315
<b>112.5</b>	131.006	134.137	135.253
<b>113.0</b>	133.269	135.687	136.307
<b>113.5</b>	133.765	135.997	135.408
<b>114.0</b>	134.912	136.524	137.516
<b>114.5</b>	134.757	137.888	136.927
<b>115.0</b>	137.144	138.663	138.725
<b>115.5</b>	137.578	139.190	139.934
<b>116.0</b>	138.787	140.740	140.399
<b>116.5</b>	139.779	140.988	141.205
<b>117.0</b>	141.081	143.220	141.887
<b>117.5</b>	141.732	144.584	143.840
<b>118.0</b>	142.600	144.646	144.677
<b>118.5</b>	144.491	146.258	145.235
<b>119.0</b>	145.979	147.560	146.568
<b>119.5</b>	146.134	148.521	147.467
<b>120.0</b>	147.808	148.118	148.893
<b>120.5</b>	147.405	148.180	148.490
<b>121.0</b>	148.583	149.854	149.389
<b>121.5</b>	148.614	150.474	150.040
<b>122.0</b>	150.257	151.001	150.443
<b>122.5</b>	149.885	152.148	152.365
<b>123.0</b>	150.195	151.373	151.311
<b>123.5</b>	151.187	153.605	151.466
<b>124.0</b>	150.660	151.869	154.349

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

124.5	150.815	151.807	150.536
125.0	149.575	152.210	151.435
125.5	148.862	150.939	151.807
126.0	148.459	150.846	150.257
126.5	148.180	149.761	149.792
127.0	147.126	150.040	148.738
127.5	146.878	147.436	149.079
128.0	145.049	147.157	147.963
128.5	143.468	145.793	147.622
129.0	142.817	144.925	145.018
129.5	140.895	142.724	143.778
130.0	140.058	141.422	143.933
130.5	136.958	140.275	140.275
131.0	134.974	137.888	139.159
131.5	133.052	136.927	136.307
132.0	131.130	135.098	134.695
132.5	128.898	132.494	131.502
133.0	127.348	130.355	130.572
133.5	125.302	128.123	128.526
134.0	122.047	125.767	126.170
134.5	119.939	123.318	124.372
135.0	118.575	121.892	121.272
135.5	113.708	118.730	119.815
136.0	112.840	116.126	116.374
136.5	108.872	114.142	114.080
137.0	107.229	111.290	113.553
137.5	104.470	108.593	110.143
138.0	101.711	106.051	106.671
138.5	98.983	104.160	103.974
139.0	96.286	101.556	103.354
139.5	93.496	98.673	100.719
140.0	92.101	96.441	97.991
140.5	89.187	93.124	94.023
141.0	86.242	89.900	92.876
141.5	84.196	88.567	89.807
142.0	81.654	85.808	86.335
142.5	79.732	85.560	84.878
143.0	76.384	81.530	82.987
143.5	75.237	78.120	80.569
144.0	71.672	75.919	77.097
144.5	71.238	75.237	75.268
145.0	68.789	72.137	73.873
145.5	67.270	71.362	71.393
146.0	65.813	70.122	70.091
146.5	62.837	67.084	67.673
147.0	60.574	64.976	66.805
147.5	59.427	63.891	65.007
148.0	57.443	61.318	61.783
148.5	57.009	60.295	59.861
149.0	54.529	58.001	58.435
149.5	54.250	57.226	58.745
150.0	52.979	54.994	57.040
150.5	51.367	53.072	54.529
151.0	50.096	52.080	53.692
151.5	47.647	50.344	52.886
152.0	47.771	50.220	50.437

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 770-48LED72DMV40.IES**

**CANDELA TABULATION - (Cont.)**

<b>152.5</b>	45.849	49.476	49.042
<b>153.0</b>	45.198	48.050	48.143
<b>153.5</b>	43.648	46.686	46.996
<b>154.0</b>	42.470	45.756	46.035
<b>154.5</b>	40.610	43.865	44.919
<b>155.0</b>	39.711	42.129	44.268
<b>155.5</b>	39.246	42.098	41.137
<b>156.0</b>	38.502	40.982	42.005
<b>156.5</b>	37.231	39.742	40.455
<b>157.0</b>	36.363	38.688	39.804
<b>157.5</b>	36.115	37.541	37.882
<b>158.0</b>	34.007	37.138	37.603
<b>158.5</b>	33.387	36.053	35.898
<b>159.0</b>	32.054	36.208	34.410
<b>159.5</b>	31.186	35.123	33.449
<b>160.0</b>	30.814	33.449	33.759
<b>160.5</b>	29.388	31.713	33.387
<b>161.0</b>	30.070	31.155	31.713
<b>161.5</b>	27.993	31.062	30.008
<b>162.0</b>	27.621	30.132	29.915
<b>162.5</b>	26.815	28.582	29.357
<b>163.0</b>	25.699	28.644	28.706
<b>163.5</b>	25.420	27.962	27.001
<b>164.0</b>	24.521	26.660	27.838
<b>164.5</b>	22.847	25.916	26.009
<b>165.0</b>	23.064	24.862	24.645
<b>165.5</b>	22.630	23.188	23.498
<b>166.0</b>	21.731	23.002	21.514
<b>166.5</b>	20.243	22.258	22.506
<b>167.0</b>	20.026	21.297	20.925
<b>167.5</b>	18.414	21.142	19.561
<b>168.0</b>	17.422	20.305	19.871
<b>168.5</b>	18.197	18.414	18.414
<b>169.0</b>	15.531	17.887	19.902
<b>169.5</b>	15.779	17.515	17.949
<b>170.0</b>	15.004	16.089	17.856
<b>170.5</b>	13.702	16.151	15.593
<b>171.0</b>	12.834	16.089	15.686
<b>171.5</b>	12.927	14.694	14.849
<b>172.0</b>	12.958	14.446	13.268
<b>172.5</b>	12.059	15.221	12.493
<b>173.0</b>	11.067	12.214	12.245
<b>173.5</b>	9.672	13.175	12.369
<b>174.0</b>	10.013	10.571	12.121
<b>174.5</b>	10.044	11.253	11.594
<b>175.0</b>	9.486	11.439	10.292
<b>175.5</b>	9.796	10.230	10.416
<b>176.0</b>	9.827	9.796	9.331
<b>176.5</b>	8.308	10.261	9.176
<b>177.0</b>	8.525	9.641	9.021
<b>177.5</b>	8.153	9.424	8.432
<b>178.0</b>	7.843	8.835	8.804
<b>178.5</b>	7.750	9.300	8.525
<b>179.0</b>	7.161	8.153	9.486
<b>179.5</b>	7.099	7.688	8.835
<b>180.0</b>	8.184	8.184	8.184

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 770-48LED72DMV40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1142.85	N.A.	13.90
0-30	2430.2	N.A.	29.60
0-40	3973.66	N.A.	48.50
0-60	6546.02	N.A.	79.80
0-80	7499.73	N.A.	91.40
0-90	7682.65	N.A.	93.70
10-90	7386.28	N.A.	90.10
20-40	2830.82	N.A.	34.50
20-50	4333.16	N.A.	52.80
40-70	3186.43	N.A.	38.90
60-80	953.71	N.A.	11.60
70-80	339.63	N.A.	4.10
80-90	182.92	N.A.	2.20
90-110	228.00	N.A.	2.80
90-120	321.32	N.A.	3.90
90-130	410.44	N.A.	5.00
90-150	499.27	N.A.	6.10
90-180	518.82	N.A.	6.30
110-180	290.82	N.A.	3.50
0-180	8201.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	296.37
10-20	846.48
20-30	1287.35
30-40	1543.46
40-50	1502.34
50-60	1070.01
60-70	614.08
70-80	339.63
80-90	182.92
90-100	120.74
100-110	107.25
110-120	93.32
120-130	89.13
130-140	59.24
140-150	29.58
150-160	13.50
160-170	5.03
170-180	1.01

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 770-48LED72DMV40.IES**

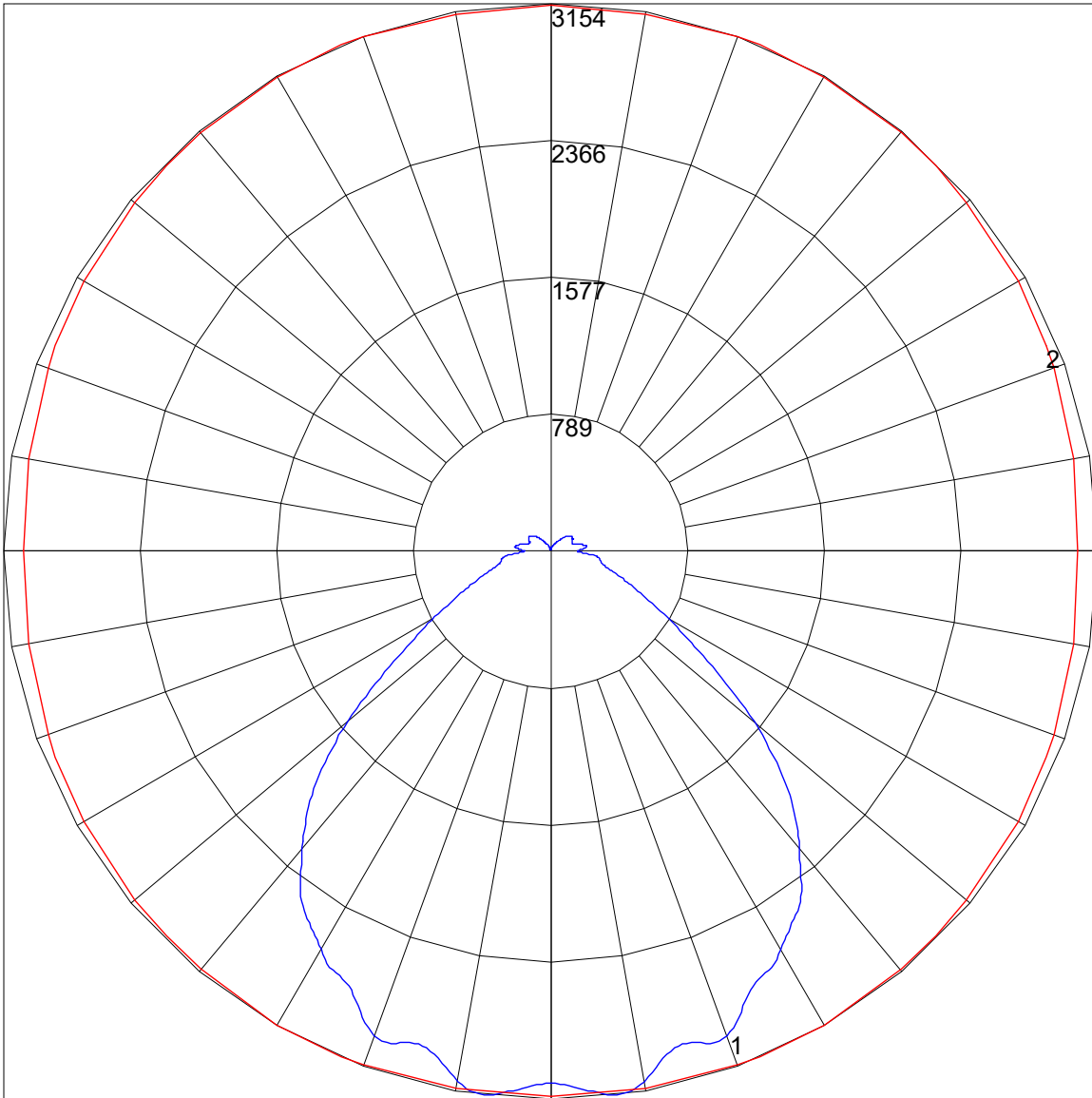
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	118	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 = 3154.405 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.)