

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-19

[TEST DATE] 2/23/2024

[MANUFAC] WILLIAMS INDOOR, H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] FS-8-LS-8CS-DIM-UNV_81W_5000K_

[LUMINAIRE] 89 INCH, 448 LEDS, LUMEN/WATTAGE/CCT SELECTABLE, LED STRIP

[MORE] WITH FROSTED ACRYLIC LENS

[SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	83.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.20 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24539	14887	13811
55	22190	12253	11557
65	19341	9657	9391
75	15568	7067	7163
85	9798	4650	5065

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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>
0.0	3650.073	3650.073	3650.073	3650.073	3650.073	3650.073	3650.073	3650.073	3650.073
0.5	3602.046	3664.199	3655.723	3655.723	3638.773	3658.549	3655.723	3669.849	3604.871
1.0	3599.221	3661.374	3650.073	3658.549	3635.948	3658.549	3650.073	3667.024	3604.871
1.5	3604.871	3661.374	3644.423	3655.723	3638.773	3658.549	3650.073	3664.199	3604.871
2.0	3604.871	3658.549	3650.073	3658.549	3635.948	3664.199	3650.073	3667.024	3602.046
2.5	3602.046	3655.723	3644.423	3655.723	3635.948	3652.898	3650.073	3661.374	3596.396
3.0	3593.570	3655.723	3641.598	3655.723	3635.948	3655.723	3647.248	3664.199	3596.396
3.5	3596.396	3650.073	3638.773	3647.248	3630.297	3650.073	3644.423	3655.723	3599.221
4.0	3587.920	3644.423	3633.122	3650.073	3633.122	3647.248	3641.598	3658.549	3590.745
4.5	3590.745	3635.948	3633.122	3644.423	3627.472	3647.248	3635.948	3652.898	3585.095
5.0	3576.620	3633.122	3624.647	3641.598	3627.472	3644.423	3633.122	3647.248	3585.095
5.5	3573.795	3633.122	3621.822	3638.773	3627.472	3641.598	3633.122	3641.598	3576.620
6.0	3568.144	3624.647	3616.172	3635.948	3618.997	3635.948	3624.647	3641.598	3573.795
6.5	3562.494	3618.997	3613.346	3627.472	3613.346	3633.122	3621.822	3635.948	3568.144
7.0	3554.019	3610.521	3607.696	3618.997	3607.696	3627.472	3618.997	3633.122	3570.969
7.5	3551.193	3607.696	3599.221	3618.997	3602.046	3621.822	3610.521	3627.472	3559.669
8.0	3545.543	3599.221	3593.570	3610.521	3602.046	3618.997	3607.696	3621.822	3554.019
8.5	3537.068	3590.745	3585.095	3602.046	3590.745	3610.521	3602.046	3613.346	3542.718
9.0	3531.418	3582.270	3573.795	3599.221	3585.095	3602.046	3593.570	3610.521	3537.068
9.5	3514.467	3573.795	3573.795	3593.570	3579.445	3599.221	3587.920	3599.221	3528.592
10.0	3511.642	3570.969	3559.669	3576.620	3576.620	3590.745	3582.270	3593.570	3525.767
10.5	3491.866	3554.019	3554.019	3576.620	3562.494	3585.095	3573.795	3582.270	3511.642
11.0	3489.041	3551.193	3545.543	3565.319	3556.844	3576.620	3559.669	3568.144	3511.642
11.5	3477.740	3537.068	3534.243	3556.844	3551.193	3565.319	3554.019	3565.319	3497.516
12.0	3466.439	3525.767	3528.592	3548.368	3539.893	3559.669	3542.718	3554.019	3483.390
12.5	3452.314	3514.467	3517.292	3542.718	3539.893	3545.543	3534.243	3539.893	3477.740
13.0	3446.664	3508.816	3503.166	3531.418	3528.592	3539.893	3525.767	3534.243	3460.789
13.5	3438.188	3494.691	3497.516	3517.292	3517.292	3528.592	3517.292	3525.767	3449.489
14.0	3421.237	3480.565	3483.390	3508.816	3505.991	3520.117	3503.166	3514.467	3438.188
14.5	3401.461	3466.439	3469.265	3497.516	3494.691	3505.991	3494.691	3503.166	3429.713
15.0	3392.986	3457.964	3463.614	3491.866	3483.390	3497.516	3480.565	3489.041	3415.587
15.5	3381.685	3449.489	3446.664	3477.740	3472.090	3483.390	3472.090	3474.915	3404.287
16.0	3373.210	3429.713	3435.363	3469.265	3457.964	3472.090	3455.139	3463.614	3384.511
16.5	3347.784	3418.412	3418.412	3457.964	3446.664	3460.789	3441.013	3449.489	3381.685
17.0	3333.658	3404.287	3409.937	3443.838	3435.363	3443.838	3429.713	3438.188	3361.910
17.5	3319.532	3387.336	3392.986	3426.888	3421.237	3429.713	3412.762	3426.888	3353.434
18.0	3311.057	3367.560	3376.035	3409.937	3409.937	3412.762	3401.461	3404.287	3336.483
18.5	3294.106	3356.259	3361.910	3401.461	3395.811	3401.461	3384.511	3392.986	3322.358
19.0	3271.505	3339.308	3344.959	3384.511	3378.860	3387.336	3373.210	3376.035	3305.407
19.5	3260.205	3325.183	3330.833	3370.385	3361.910	3370.385	3359.084	3361.910	3285.631
20.0	3243.254	3305.407	3313.882	3353.434	3347.784	3359.084	3342.134	3344.959	3271.505
20.5	3223.478	3288.456	3299.757	3339.308	3333.658	3339.308	3328.008	3328.008	3257.380
21.0	3209.352	3271.505	3279.981	3319.532	3316.707	3328.008	3305.407	3316.707	3234.778
21.5	3186.751	3254.554	3263.030	3302.582	3305.407	3313.882	3294.106	3296.931	3220.653
22.0	3172.626	3240.429	3248.904	3285.631	3288.456	3294.106	3277.155	3279.981	3203.702
22.5	3147.199	3215.003	3229.128	3271.505	3277.155	3285.631	3260.205	3260.205	3181.101
23.0	3130.249	3198.052	3212.177	3251.729	3260.205	3265.855	3246.079	3243.254	3169.800
23.5	3116.123	3178.276	3198.052	3237.604	3248.904	3257.380	3229.128	3226.303	3150.024
24.0	3087.872	3161.325	3178.276	3220.653	3231.953	3240.429	3212.177	3200.877	3121.773
24.5	3076.571	3144.374	3158.500	3206.527	3217.828	3226.303	3192.401	3183.926	3104.822
25.0	3053.970	3116.123	3141.549	3192.401	3209.352	3212.177	3175.451	3166.975	3087.872
25.5	3028.544	3099.172	3116.123	3178.276	3195.227	3195.227	3161.325	3150.024	3070.921
26.0	3005.943	3082.221	3099.172	3155.675	3178.276	3178.276	3141.549	3130.249	3045.494
26.5	2986.167	3056.795	3082.221	3144.374	3164.150	3161.325	3121.773	3107.647	3028.544

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27.0	2969.216	3037.019	3065.270	3124.598	3141.549	3144.374	3101.997	3087.872	3005.943
27.5	2943.790	3020.068	3045.494	3110.473	3127.423	3124.598	3085.046	3068.096	2983.342
28.0	2924.014	2991.817	3020.068	3093.522	3113.298	3107.647	3062.445	3045.494	2963.566
28.5	2904.238	2972.041	3003.117	3073.746	3096.347	3090.697	3045.494	3025.719	2943.790
29.0	2881.637	2949.440	2983.342	3056.795	3079.396	3070.921	3025.719	3005.943	2918.363
29.5	2859.036	2929.664	2963.566	3037.019	3059.620	3053.970	3008.768	2980.516	2895.762
30.0	2830.784	2907.063	2943.790	3017.243	3042.669	3037.019	2986.167	2960.740	2870.336
30.5	2808.466	2884.462	2921.189	3000.292	3025.719	3017.243	2966.391	2938.139	2847.735
31.0	2784.735	2859.036	2901.413	2980.516	3008.768	3000.292	2943.790	2915.538	2830.784
31.5	2766.936	2833.609	2881.637	2960.740	2988.992	2983.342	2926.839	2892.937	2800.273
32.0	2737.272	2816.094	2859.036	2943.790	2972.041	2966.391	2907.063	2870.336	2779.367
32.5	2718.061	2790.667	2836.435	2924.014	2955.090	2946.615	2881.637	2844.910	2759.873
33.0	2690.375	2768.066	2811.573	2907.063	2940.965	2929.664	2859.036	2820.049	2728.232
33.5	2665.514	2744.053	2790.385	2890.112	2921.189	2907.063	2839.260	2798.295	2708.173
34.0	2642.913	2720.322	2773.999	2867.511	2904.238	2890.112	2821.179	2777.107	2687.550
34.5	2616.639	2693.765	2749.985	2847.735	2887.287	2870.336	2798.860	2748.573	2658.734
35.0	2596.016	2670.882	2729.927	2830.784	2867.511	2850.560	2777.672	2726.537	2639.805
35.5	2570.307	2644.608	2709.869	2812.421	2853.385	2830.784	2753.658	2699.981	2609.294
36.0	2540.078	2617.487	2685.572	2792.362	2833.609	2815.529	2731.057	2676.532	2588.953
36.5	2513.804	2594.038	2666.927	2771.456	2816.941	2794.905	2710.151	2651.953	2565.504
37.0	2493.463	2567.199	2641.500	2755.636	2799.708	2776.259	2686.702	2627.375	2546.011
37.5	2466.342	2545.163	2620.877	2735.012	2781.344	2753.941	2667.774	2604.774	2521.432
38.0	2437.243	2519.455	2597.428	2716.649	2763.264	2734.165	2645.173	2581.607	2492.333
38.5	2413.795	2493.746	2578.500	2696.025	2742.923	2714.671	2620.312	2558.724	2464.647
39.0	2385.543	2466.342	2554.769	2675.967	2723.712	2694.330	2600.536	2536.688	2437.808
39.5	2358.704	2438.656	2533.298	2655.061	2706.196	2674.554	2576.522	2511.827	2406.449
40.0	2329.888	2416.337	2510.979	2635.850	2689.810	2656.756	2554.204	2488.943	2377.068
40.5	2305.592	2390.911	2488.943	2615.509	2668.057	2636.415	2532.168	2459.844	2349.381
41.0	2274.798	2362.377	2465.494	2596.863	2646.303	2616.639	2509.567	2434.135	2321.695
41.5	2249.372	2334.408	2446.284	2577.652	2631.612	2594.321	2485.270	2403.342	2293.726
42.0	2219.990	2309.547	2421.705	2556.464	2612.119	2578.500	2462.952	2374.243	2268.583
42.5	2193.717	2282.991	2398.256	2537.818	2593.473	2555.899	2437.808	2348.251	2240.896
43.0	2165.465	2259.542	2375.655	2516.629	2574.262	2534.145	2416.620	2317.175	2213.210
43.5	2140.887	2235.246	2351.924	2495.441	2557.029	2513.239	2395.714	2289.771	2188.914
44.0	2116.873	2206.430	2329.888	2476.795	2537.535	2495.158	2370.005	2260.390	2159.815
44.5	2083.254	2179.308	2302.767	2455.041	2518.042	2475.947	2350.794	2234.399	2134.106
45.0	2058.675	2152.470	2284.121	2435.266	2498.831	2451.651	2328.475	2205.017	2107.550
45.5	2033.249	2126.196	2257.847	2414.360	2475.665	2433.570	2305.027	2181.286	2080.994
46.0	2005.280	2103.877	2236.094	2391.476	2456.454	2414.077	2282.991	2153.317	2051.047
46.5	1980.701	2077.321	2211.797	2368.027	2438.091	2390.346	2260.390	2128.173	2026.469
47.0	1951.885	2048.787	2188.914	2351.359	2417.750	2373.960	2239.484	2102.182	2001.042
47.5	1923.634	2023.361	2165.465	2327.910	2399.669	2353.902	2216.600	2075.343	1968.553
48.0	1901.598	1997.087	2143.994	2311.242	2376.503	2328.193	2194.282	2048.222	1946.517
48.5	1870.804	1970.814	2120.828	2285.533	2358.139	2309.265	2171.116	2022.231	1914.028
49.0	1852.723	1948.777	2099.357	2266.040	2337.798	2288.641	2147.102	1997.087	1888.602
49.5	1828.427	1919.396	2076.474	2245.417	2315.762	2268.865	2117.720	1969.118	1863.458
50.0	1799.893	1896.795	2053.590	2224.228	2297.682	2247.677	2096.532	1942.280	1841.705
50.5	1771.642	1876.737	2025.621	2202.757	2277.341	2225.641	2072.236	1917.136	1817.691
51.0	1745.085	1852.158	2006.410	2181.003	2258.412	2204.452	2045.397	1889.450	1786.615
51.5	1718.812	1827.579	1981.267	2162.358	2240.896	2183.546	2021.948	1873.346	1759.776
52.0	1691.125	1800.175	1960.361	2141.734	2218.860	2162.923	1996.522	1847.638	1731.242
52.5	1665.699	1775.314	1936.912	2119.981	2198.237	2141.169	1974.204	1824.754	1705.251
53.0	1637.165	1747.910	1912.333	2099.357	2177.048	2122.806	1951.320	1797.068	1679.825
53.5	1611.456	1722.484	1889.450	2077.321	2155.860	2100.205	1925.894	1770.512	1650.161
54.0	1583.488	1698.753	1868.826	2055.850	2133.259	2079.016	1905.270	1744.520	1621.344
54.5	1556.366	1671.067	1852.158	2032.119	2115.743	2058.958	1880.409	1717.399	1595.636

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55.0	1527.267	1645.076	1830.404	2011.778	2094.554	2036.074	1866.284	1692.820	1567.102
55.5	1500.711	1621.909	1806.391	1988.612	2071.671	2014.321	1844.248	1666.829	1538.851
56.0	1474.155	1593.658	1782.660	1966.011	2052.460	1993.980	1819.951	1639.990	1513.707
56.5	1448.729	1567.384	1758.928	1945.670	2028.729	1967.988	1794.525	1611.174	1484.890
57.0	1421.042	1540.828	1736.045	1922.504	2008.388	1946.517	1770.794	1586.030	1454.662
57.5	1395.051	1516.814	1714.574	1901.033	1984.092	1923.069	1746.498	1557.779	1428.105
58.0	1369.625	1490.258	1688.865	1878.997	1960.926	1900.468	1721.637	1532.635	1401.266
58.5	1342.221	1463.984	1665.134	1863.741	1939.455	1881.822	1698.188	1506.361	1372.733
59.0	1317.077	1438.558	1643.945	1847.355	1918.549	1863.741	1672.479	1478.393	1347.589
59.5	1289.956	1413.697	1619.084	1820.799	1894.817	1842.552	1649.596	1453.814	1318.773
60.0	1263.965	1388.553	1593.376	1798.763	1880.974	1819.104	1625.017	1428.105	1294.476
60.5	1237.691	1362.845	1569.362	1778.704	1860.633	1796.503	1603.264	1400.419	1264.530
61.0	1209.157	1337.418	1547.043	1753.278	1839.727	1772.207	1578.120	1376.688	1237.974
61.5	1183.449	1311.710	1524.442	1729.830	1817.691	1749.040	1555.236	1348.436	1211.135
62.0	1157.175	1286.566	1501.276	1707.794	1793.113	1728.134	1528.963	1323.575	1183.731
62.5	1131.184	1261.987	1478.110	1684.910	1769.099	1702.708	1506.926	1297.019	1157.175
63.0	1106.040	1236.279	1454.662	1662.026	1746.498	1680.390	1482.630	1272.158	1131.184
63.5	1079.484	1212.265	1430.930	1637.448	1724.179	1656.941	1457.769	1246.167	1105.192
64.0	1052.080	1187.121	1408.329	1614.564	1701.013	1634.340	1434.886	1220.458	1076.941
64.5	1023.829	1161.978	1383.186	1590.550	1676.152	1612.587	1410.024	1195.597	1050.667
65.0	999.250	1138.812	1359.737	1567.667	1653.268	1587.725	1387.423	1170.171	1024.111
65.5	974.671	1113.668	1336.571	1546.478	1632.080	1564.842	1364.822	1144.744	998.402
66.0	947.832	1088.807	1314.535	1519.922	1608.349	1540.546	1339.396	1119.036	971.846
66.5	924.384	1064.793	1290.239	1498.169	1583.488	1516.814	1317.077	1093.892	945.855
67.0	898.675	1041.344	1266.790	1474.437	1560.604	1491.671	1291.651	1069.596	921.276
67.5	874.379	1017.048	1244.472	1449.576	1535.743	1469.352	1270.180	1045.582	896.133
68.0	849.235	993.600	1219.328	1428.953	1513.142	1446.186	1245.602	1020.721	871.836
68.5	824.657	970.434	1197.857	1403.244	1489.693	1421.042	1221.588	996.425	844.715
69.0	800.078	945.290	1174.691	1382.338	1465.962	1399.006	1198.422	973.541	820.701
69.5	774.087	921.841	1151.807	1357.477	1441.948	1375.840	1176.103	948.963	793.863
70.0	750.638	898.675	1127.794	1334.593	1417.935	1350.697	1151.807	923.819	769.849
70.5	727.190	873.814	1105.475	1310.297	1394.769	1328.661	1128.641	899.523	745.553
71.0	701.481	851.778	1082.874	1288.826	1371.320	1304.929	1106.040	875.509	720.409
71.5	678.315	828.047	1061.685	1265.660	1347.871	1283.176	1082.026	851.778	695.548
72.0	654.301	806.576	1037.389	1241.081	1324.140	1258.880	1060.555	829.177	669.557
72.5	630.570	783.410	1015.636	1218.763	1302.104	1236.844	1037.107	804.881	645.261
73.0	606.556	761.656	992.470	1194.467	1277.808	1211.983	1014.788	781.432	623.225
73.5	583.955	739.620	970.716	1170.453	1253.512	1189.099	992.470	758.548	598.646
74.0	560.789	716.737	948.963	1150.112	1231.193	1165.933	969.303	735.665	575.480
74.5	536.210	693.570	925.231	1126.098	1206.897	1143.614	948.397	711.934	550.901
75.0	512.762	672.382	904.043	1104.627	1185.426	1119.883	926.644	690.180	528.583
75.5	491.573	650.911	883.419	1080.896	1161.978	1097.282	903.760	667.014	505.416
76.0	468.125	629.440	861.666	1059.708	1139.094	1075.529	883.137	645.826	482.533
76.5	446.936	608.534	840.477	1037.107	1115.928	1052.080	860.818	622.942	461.627
77.0	426.030	587.628	819.289	1014.223	1092.762	1030.326	838.500	601.754	439.308
77.5	404.559	567.004	798.665	993.035	1071.573	1007.443	817.311	579.435	417.837
78.0	382.523	546.381	778.324	970.999	1047.842	985.972	796.970	559.377	396.366
78.5	361.617	526.887	757.418	949.528	1026.371	964.501	776.347	538.753	375.178
79.0	340.994	506.829	737.925	927.774	1003.770	942.465	755.158	518.977	355.119
79.5	322.065	487.053	718.714	907.151	983.147	923.254	735.665	498.636	333.648
80.0	302.854	467.277	698.938	885.397	962.523	900.935	715.324	478.860	314.437
80.5	283.078	448.349	679.445	865.621	939.922	880.877	696.396	461.062	294.661
81.0	263.868	430.268	660.516	844.715	919.581	859.406	677.185	441.568	276.298
81.5	245.504	411.905	641.305	824.939	898.675	839.347	658.256	423.770	257.652
82.0	227.423	394.389	622.942	805.163	876.357	819.571	639.328	406.254	239.571
82.5	210.755	376.308	604.579	787.082	856.016	798.665	620.117	389.021	222.338

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.IES

CANDELA TABULATION - (Cont.)

83.0	192.957	359.357	586.498	767.306	836.805	778.889	602.884	371.788	205.105
83.5	176.288	342.971	568.699	748.095	816.464	760.526	584.238	355.119	188.436
84.0	159.903	326.868	551.466	729.167	797.253	741.880	567.569	338.734	172.051
84.5	144.082	311.047	534.233	711.369	778.042	722.952	550.054	322.913	156.795
85.0	129.391	296.357	517.000	692.723	759.396	704.023	532.820	307.657	140.974
85.5	114.700	280.818	501.179	674.359	740.468	686.508	516.435	291.271	126.283
86.0	100.010	266.410	485.358	657.691	722.104	668.992	499.484	276.581	111.310
86.5	86.167	252.284	470.102	640.458	704.588	650.911	483.945	261.607	96.902
87.0	72.323	238.441	454.282	623.790	686.790	634.525	468.690	247.482	82.494
87.5	59.610	225.446	439.591	608.534	669.839	618.422	452.869	233.639	68.651
88.0	47.180	211.320	425.748	592.996	654.301	602.601	438.461	219.513	54.808
88.5	34.749	199.172	413.035	578.870	638.480	588.193	424.900	205.670	40.682
89.0	22.319	187.589	401.169	565.027	624.637	573.502	411.622	193.522	27.404
89.5	11.018	177.983	389.868	552.314	610.794	560.789	400.321	182.786	14.408
90.0	3.955	169.226	379.981	539.883	597.516	547.793	389.868	173.463	4.520
90.5	2.543	161.880	370.375	528.018	584.238	535.080	379.416	165.553	2.543
91.0	2.543	155.665	360.770	516.435	571.807	523.780	368.680	159.338	2.260
91.5	2.543	151.145	352.577	505.134	559.942	512.762	360.487	154.535	2.260
92.0	2.543	147.189	344.101	495.246	549.206	502.874	352.577	150.580	2.260
92.5	2.543	143.517	338.169	486.206	538.753	493.268	345.796	146.907	2.260
93.0	2.543	140.127	331.953	477.448	528.865	484.510	339.581	143.234	2.260
93.5	2.543	136.736	326.303	469.820	520.390	476.318	333.648	139.844	2.260
94.0	2.543	133.629	320.935	461.909	511.914	468.690	328.563	136.454	2.260
94.5	2.543	130.521	316.132	455.129	504.286	461.627	323.195	133.064	2.260
95.0	2.543	127.414	311.330	448.349	496.941	453.999	317.828	129.956	2.260
95.5	2.543	124.588	305.962	441.568	488.748	447.501	312.742	127.131	2.260
96.0	2.543	121.763	301.442	434.788	481.685	440.438	307.657	124.306	2.260
96.5	2.543	118.938	296.357	428.573	474.623	434.223	302.289	121.198	2.260
97.0	2.543	116.113	291.836	421.510	467.277	426.878	297.769	118.373	2.260
97.5	2.543	113.288	286.751	415.860	460.214	420.945	292.966	115.830	2.260
98.0	2.543	110.745	282.231	409.079	453.717	414.447	287.881	113.005	2.260
98.5	2.543	108.485	277.993	403.147	447.219	407.949	283.361	110.180	2.260
99.0	2.543	105.660	272.908	397.496	440.721	401.734	278.558	107.638	2.260
99.5	2.543	103.117	268.670	391.564	433.941	395.801	274.038	105.095	2.260
100.0	2.543	100.857	263.868	385.631	427.443	389.868	269.235	102.552	2.260
100.5	2.543	98.315	259.630	379.698	420.662	384.218	264.998	100.292	2.543
101.0	2.543	96.337	255.392	373.765	414.730	378.568	260.760	97.750	2.543
101.5	2.543	93.794	250.872	368.115	408.797	372.353	255.957	95.490	2.543
102.0	2.825	91.817	246.917	362.465	402.017	367.267	252.002	93.229	2.543
102.5	2.825	89.557	242.679	357.097	395.519	361.900	247.482	90.969	2.543
103.0	2.825	87.579	238.441	351.447	389.586	356.249	243.244	88.709	2.543
103.5	2.825	85.319	234.204	346.644	383.936	350.599	239.289	86.449	2.543
104.0	2.825	83.341	230.531	341.559	378.285	345.231	234.769	84.189	2.543
104.5	2.825	81.364	226.293	335.626	372.918	339.864	230.813	82.211	2.825
105.0	2.825	79.386	222.621	330.823	366.702	334.778	226.858	80.234	2.825
105.5	2.825	77.409	218.948	325.738	361.335	329.128	222.903	78.256	2.825
106.0	2.825	75.431	214.993	320.370	355.967	324.043	218.665	76.279	2.825
106.5	2.825	73.736	211.320	315.850	349.752	318.958	214.993	74.584	2.825
107.0	3.108	71.758	207.647	310.765	344.949	313.590	211.038	72.606	2.825
107.5	3.108	70.063	203.692	305.397	339.864	308.787	207.647	70.911	2.825
108.0	3.108	68.368	200.019	301.159	334.496	303.984	203.975	69.216	2.825
108.5	3.108	66.391	196.912	296.074	329.411	299.464	200.019	67.238	3.108
109.0	3.108	64.696	193.239	291.271	324.325	294.661	196.347	65.543	3.108
109.5	3.108	63.000	189.566	286.469	319.523	289.859	192.957	63.848	3.108
110.0	3.108	61.588	186.459	281.948	314.437	285.056	189.566	62.153	3.108
110.5	3.108	59.893	183.069	277.711	309.352	280.253	185.894	60.458	3.108

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.IES

CANDELA TABULATION - (Cont.)

111.0	3.108	58.198	179.679	273.190	304.832	276.298	182.504	59.045	3.108
111.5	3.390	56.785	176.571	268.953	300.029	271.495	178.831	57.350	3.108
112.0	3.390	55.090	173.181	264.150	295.509	266.975	175.723	55.655	3.108
112.5	3.390	53.678	169.791	260.477	290.706	262.737	172.333	54.243	3.390
113.0	3.390	52.265	166.965	255.675	285.904	258.500	168.943	52.547	3.390
113.5	3.390	50.852	163.293	251.437	281.101	253.697	165.835	51.135	3.390
114.0	3.390	49.157	160.468	247.482	277.146	249.459	162.728	49.722	3.390
114.5	3.390	47.745	157.360	243.244	272.343	245.504	159.338	48.027	3.390
115.0	3.390	46.615	154.252	239.289	268.105	241.266	155.947	46.615	3.390
115.5	3.390	44.920	151.145	235.334	263.585	237.029	152.840	45.202	3.390
116.0	3.390	43.790	148.320	230.813	259.347	233.074	149.732	43.790	3.673
116.5	3.390	42.377	145.212	227.141	255.110	229.118	146.907	42.660	3.673
117.0	3.390	40.964	142.104	222.903	250.589	224.881	143.799	41.247	3.673
117.5	3.390	39.552	139.279	219.230	246.634	220.925	140.692	39.834	3.673
118.0	3.390	38.422	136.736	214.993	242.397	216.970	137.867	38.422	3.673
118.5	3.390	37.009	133.911	211.320	238.441	213.015	135.041	37.292	3.673
119.0	3.390	35.879	131.086	207.647	234.204	209.342	132.216	35.879	3.673
119.5	3.390	34.467	128.261	203.975	229.966	205.670	129.391	34.749	3.673
120.0	3.390	33.337	125.436	199.737	226.011	201.432	126.283	33.337	3.673
120.5	3.390	32.207	122.611	196.629	221.773	197.759	123.741	32.207	3.955
121.0	3.390	30.794	120.068	192.674	217.535	194.087	120.916	31.076	3.955
121.5	3.390	29.381	117.526	189.001	214.145	190.414	118.373	29.664	3.955
122.0	3.390	28.251	114.983	185.329	209.625	186.741	115.830	28.534	3.955
122.5	3.390	27.121	112.158	181.656	205.952	182.786	113.288	27.404	3.955
123.0	3.390	25.991	109.615	178.266	201.997	179.396	110.463	26.274	3.955
123.5	3.390	24.861	107.073	174.593	198.042	176.006	107.920	25.144	3.955
124.0	3.390	23.731	104.812	170.921	194.369	172.333	105.377	24.014	3.955
124.5	3.390	22.601	102.270	167.530	190.697	168.378	102.835	22.884	4.238
125.0	3.390	21.471	99.727	164.140	187.024	164.988	100.292	21.754	4.238
125.5	3.390	20.341	97.185	160.750	183.069	161.598	97.750	20.623	4.238
126.0	3.390	19.493	94.642	157.642	179.396	158.208	95.207	19.493	4.238
126.5	3.390	18.363	92.382	154.252	175.723	154.817	92.947	18.363	4.238
127.0	3.390	17.233	90.122	150.862	171.768	151.427	90.687	17.516	4.238
127.5	3.390	16.386	87.862	147.755	168.378	148.037	88.144	16.386	4.238
128.0	3.390	15.256	85.319	144.364	164.988	145.212	85.884	15.538	4.520
128.5	3.390	14.408	82.776	141.257	161.598	142.104	83.624	14.691	4.520
129.0	3.390	13.561	80.516	137.867	157.925	138.714	81.364	13.843	4.520
129.5	3.390	12.996	78.539	134.759	154.535	135.606	79.104	13.278	4.520
130.0	3.673	12.148	76.561	131.651	151.145	132.499	77.126	12.431	4.520
130.5	3.673	11.583	74.019	128.826	147.755	129.674	74.866	11.866	4.803
131.0	3.673	11.018	72.041	126.001	144.364	126.283	72.606	11.301	4.803
131.5	3.673	10.453	70.063	122.893	140.974	123.458	70.628	10.736	4.803
132.0	3.673	9.888	67.803	120.068	137.584	120.351	68.368	10.170	4.803
132.5	3.673	9.323	65.826	116.961	134.476	117.526	66.391	9.605	4.803
133.0	3.673	9.040	63.848	113.853	131.369	114.418	64.413	9.323	5.085
133.5	3.673	8.758	61.588	111.028	127.979	111.593	62.153	9.040	5.085
134.0	3.673	8.475	59.328	108.203	125.153	108.485	60.175	8.758	5.085
134.5	3.673	8.193	57.068	105.377	121.763	105.660	58.198	8.475	5.085
135.0	3.673	7.910	54.808	102.552	118.656	102.835	56.220	8.193	5.085
135.5	3.673	7.628	52.830	99.445	115.548	100.010	54.243	7.910	5.085
136.0	3.673	7.345	50.570	96.620	112.440	97.185	52.265	7.628	5.085
136.5	3.673	7.345	48.592	94.077	109.333	94.359	50.570	7.628	5.368
137.0	3.673	7.063	46.332	91.534	106.225	91.534	48.592	7.345	5.368
137.5	3.673	7.063	44.355	88.709	103.400	88.992	46.615	7.345	5.368
138.0	3.673	6.780	42.377	85.884	100.575	86.167	44.920	7.063	5.368
138.5	3.673	6.780	40.682	83.341	97.750	83.624	43.225	7.063	5.368

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.IES

CANDELA TABULATION - (Cont.)

139.0	3.955	6.780	38.704	80.799	94.925	80.799	41.529	6.780	5.650
139.5	3.955	6.498	36.727	78.256	92.099	78.539	39.834	6.780	5.650
140.0	3.955	6.498	35.032	75.714	89.274	75.714	37.857	6.780	5.650
140.5	3.955	6.498	33.337	72.888	86.449	73.171	36.162	6.498	5.650
141.0	3.955	6.215	31.924	70.628	83.624	70.628	34.467	6.498	5.650
141.5	3.955	6.215	30.229	68.086	80.799	68.368	32.772	6.498	5.933
142.0	3.955	6.215	28.816	65.826	78.256	65.826	31.076	6.498	5.933
142.5	3.955	5.933	27.404	63.283	75.431	63.283	29.381	6.215	5.933
143.0	3.955	5.933	25.991	61.023	72.888	60.740	27.969	6.215	5.933
143.5	4.238	5.933	24.579	58.480	70.346	58.480	26.274	6.215	5.933
144.0	4.238	5.933	23.166	56.220	67.521	56.220	24.861	5.933	5.933
144.5	4.238	5.933	21.754	53.960	64.978	53.678	23.166	5.933	6.215
145.0	4.238	5.650	20.623	51.417	62.435	51.417	21.754	5.933	6.215
145.5	4.238	5.650	19.211	49.157	59.893	49.157	20.341	5.933	6.215
146.0	4.238	5.650	18.081	47.180	57.350	46.897	18.928	5.933	6.215
146.5	4.238	5.650	16.951	44.920	54.808	44.637	17.798	5.933	6.215
147.0	4.238	5.650	15.821	42.660	52.547	42.377	16.668	5.650	6.215
147.5	4.238	5.650	14.691	40.399	50.005	40.399	15.538	5.650	6.498
148.0	4.520	5.650	13.843	38.139	47.745	38.139	14.691	5.650	6.498
148.5	4.520	5.650	12.996	35.879	45.202	36.162	13.843	5.650	6.498
149.0	4.520	5.650	12.431	33.337	42.942	33.902	12.996	5.650	6.498
149.5	4.520	5.650	11.583	31.359	40.682	31.924	12.431	5.650	6.498
150.0	4.520	5.650	11.018	29.099	38.422	29.946	11.866	5.933	6.498
150.5	4.520	5.650	10.736	27.121	36.162	27.969	11.301	5.650	6.780
151.0	4.520	5.650	10.170	25.144	33.902	25.991	10.736	5.650	6.780
151.5	4.803	5.650	9.888	23.449	31.924	24.296	10.453	5.933	6.780
152.0	4.803	5.933	9.605	21.471	29.664	22.319	9.888	5.933	6.780
152.5	4.803	5.933	9.323	20.058	27.686	20.623	9.605	5.933	6.780
153.0	4.803	5.933	9.040	18.646	25.426	18.928	9.323	5.933	6.780
153.5	4.803	5.933	8.758	17.233	23.449	17.516	9.040	5.933	6.780
154.0	4.803	5.933	8.475	15.821	21.471	16.386	8.758	5.933	7.063
154.5	5.085	5.933	8.193	14.691	19.776	14.973	8.475	5.933	7.063
155.0	5.085	5.933	7.910	13.561	18.081	13.843	8.193	5.933	7.063
155.5	5.085	6.215	7.910	12.713	16.668	12.996	8.193	5.933	7.063
156.0	5.085	6.215	7.628	11.866	15.256	12.148	7.910	6.215	7.063
156.5	5.368	6.215	7.628	11.018	14.126	11.301	7.628	6.215	7.063
157.0	5.368	6.215	7.345	10.453	12.996	10.736	7.628	6.215	7.063
157.5	5.368	6.215	7.345	10.170	11.866	10.170	7.345	6.215	7.063
158.0	5.368	6.215	7.063	9.605	11.301	9.605	7.345	6.215	7.345
158.5	5.368	6.498	7.063	9.323	10.453	9.323	7.063	6.215	7.345
159.0	5.650	6.498	6.780	8.758	9.888	8.758	7.063	6.498	7.345
159.5	5.650	6.498	6.780	8.475	9.323	8.475	6.780	6.498	7.345
160.0	5.650	6.498	6.780	8.193	9.040	8.193	6.780	6.498	7.345
160.5	5.650	6.498	6.498	7.910	8.475	7.910	6.780	6.498	7.345
161.0	5.650	6.498	6.498	7.628	8.193	7.628	6.498	6.498	7.345
161.5	5.933	6.498	6.498	7.628	7.910	7.628	6.498	6.498	7.345
162.0	5.933	6.780	6.498	7.345	7.628	7.345	6.498	6.498	7.345
162.5	5.933	6.780	6.498	7.063	7.345	7.063	6.498	6.780	7.345
163.0	5.933	6.780	6.498	6.780	7.063	7.063	6.498	6.780	7.628
163.5	5.933	6.780	6.498	6.780	6.780	6.780	6.498	6.780	7.628
164.0	6.215	6.780	6.498	6.498	6.780	6.498	6.498	6.780	7.628
164.5	6.215	6.780	6.498	6.498	6.498	6.498	6.498	6.780	7.628
165.0	6.215	7.063	6.498	6.498	6.498	6.498	6.498	6.780	7.628
165.5	6.215	7.063	6.498	6.498	6.215	6.498	6.498	7.063	7.628
166.0	6.498	7.063	6.780	6.498	6.215	6.215	6.780	7.063	7.628
166.5	6.498	7.063	6.780	6.498	6.215	6.215	6.780	7.063	7.628

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.IES

CANDELA TABULATION - (Cont.)

167.0	6.498	7.063	6.780	6.215	5.933	6.215	6.780	7.063	7.628
167.5	6.498	7.063	6.780	6.215	5.933	6.215	6.780	7.063	7.628
168.0	6.498	7.063	6.780	6.215	5.933	6.215	6.780	7.063	7.628
168.5	6.780	7.345	6.780	6.215	5.933	6.215	6.780	7.063	7.628
169.0	6.780	7.345	6.780	6.498	5.933	6.498	6.780	7.345	7.628
169.5	6.780	7.345	6.780	6.498	5.933	6.498	6.780	7.345	7.628
170.0	6.780	7.345	6.780	6.498	5.933	6.215	6.780	7.345	7.628
170.5	6.780	7.345	6.780	6.498	5.933	6.498	6.780	7.345	7.628
171.0	6.780	7.345	7.063	6.498	5.933	6.498	6.780	7.345	7.628
171.5	6.780	7.345	7.063	6.498	5.933	6.498	7.063	7.345	7.628
172.0	6.780	7.345	7.063	6.498	5.933	6.498	7.063	7.345	7.628
172.5	7.063	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
173.0	7.063	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
173.5	7.063	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
174.0	7.063	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
174.5	7.063	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
175.0	7.063	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
175.5	7.345	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
176.0	7.345	7.345	7.063	6.498	6.215	6.498	7.063	7.345	7.628
176.5	7.345	7.345	7.063	6.780	6.215	6.498	7.063	7.345	7.628
177.0	7.345	7.628	7.063	6.780	6.215	6.498	7.063	7.628	7.628
177.5	7.345	7.628	7.063	6.780	6.215	6.498	7.063	7.628	7.628
178.0	7.345	7.628	7.063	6.780	6.215	6.780	7.063	7.628	7.628
178.5	7.345	7.628	7.063	6.780	6.215	6.780	7.063	7.628	7.628
179.0	7.628	7.628	7.063	6.780	6.215	6.780	7.345	7.628	7.628
179.5	7.628	7.628	7.063	6.780	6.215	6.780	7.063	7.628	7.628
180.0	7.063	7.063	7.063	7.063	7.063	7.063	7.063	7.063	7.063

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1322.54	N.A.	11.40
0-30	2778.13	N.A.	24.00
0-40	4504.31	N.A.	38.80
0-60	7929.11	N.A.	68.40
0-80	10219.33	N.A.	88.10
0-90	10763.85	N.A.	92.80
10-90	10419.24	N.A.	89.80
20-40	3181.77	N.A.	27.40
20-50	4961.65	N.A.	42.80
40-70	4771.85	N.A.	41.10
60-80	2290.22	N.A.	19.70
70-80	943.17	N.A.	8.10
80-90	544.52	N.A.	4.70
90-110	533.84	N.A.	4.60
90-120	678.05	N.A.	5.80
90-130	764.41	N.A.	6.60
90-150	827.39	N.A.	7.10
90-180	835.11	N.A.	7.20
110-180	301.28	N.A.	2.60
0-180	11598.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	344.62
10-20	977.92
20-30	1455.59
30-40	1726.18
40-50	1779.88
50-60	1644.92
60-70	1347.05
70-80	943.17
80-90	544.52
90-100	315.31
100-110	218.53
110-120	144.21
120-130	86.36
130-140	44.77
140-150	18.21
150-160	5.14
160-170	1.93
170-180	0.66

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_5000K_.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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	79	77	75
2	96	87	80	73	92	84	78	72	80	74	69	75	71	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	63	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	53	44	38	50	42	37	48	41	36	45	40	35	33
7	63	49	40	34	60	48	39	33	45	38	33	43	37	32	41	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	28	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

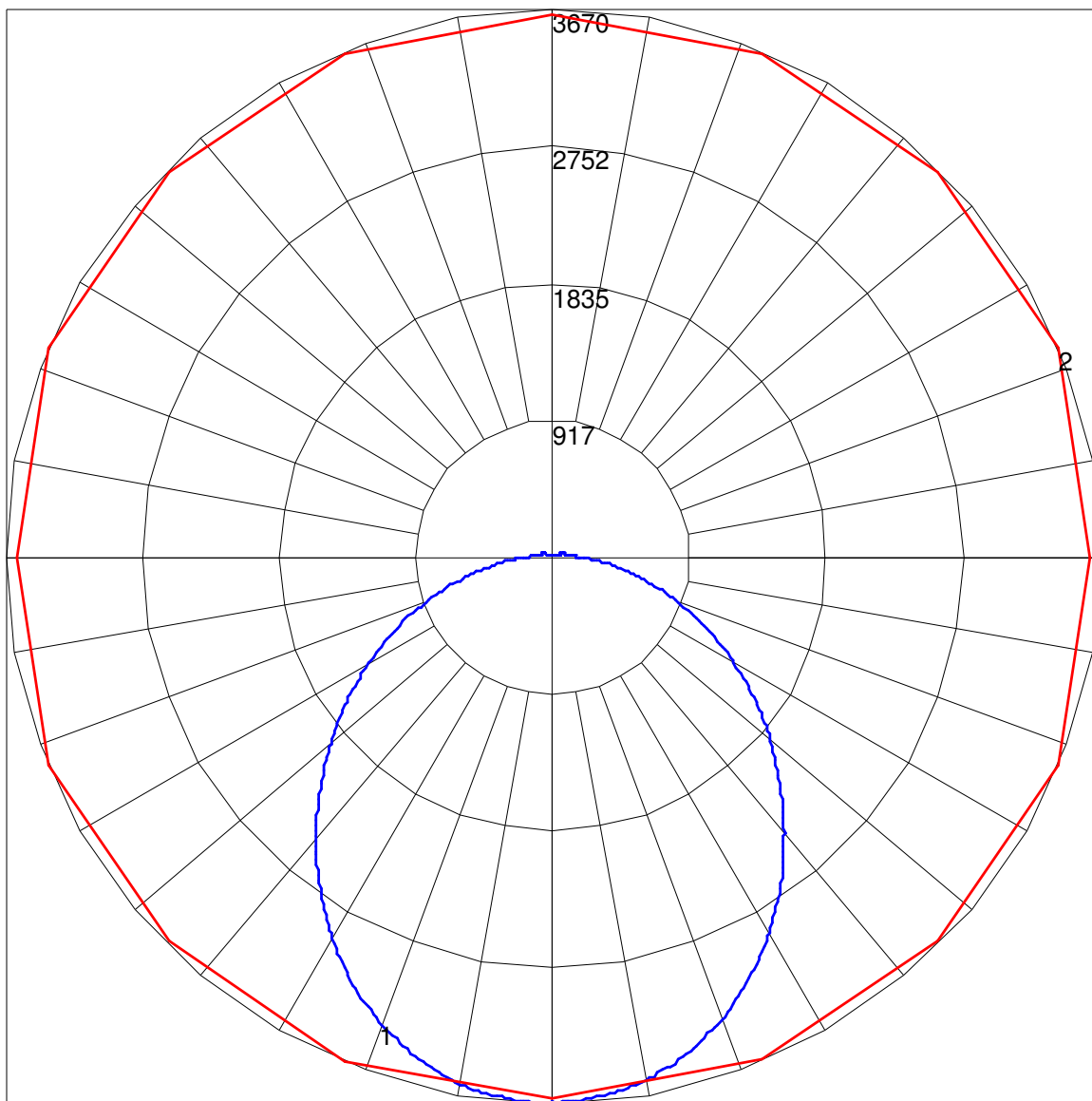
IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.4	19.9	18.9	20.4	20.9	22.1	23.6	22.5	24.1	24.5
	3H	19.7	21.1	20.1	21.5	22.0	24.5	25.9	25.0	26.3	26.9
	4H	20.0	21.4	20.5	21.8	22.4	25.6	26.9	26.1	27.4	27.9
	6H	20.2	21.5	20.8	22.0	22.5	26.7	27.9	27.2	28.4	29.0
	8H	20.3	21.5	20.8	22.0	22.5	27.3	28.4	27.8	29.0	29.5
	12H	20.3	21.4	20.8	21.9	22.5	27.9	29.0	28.4	29.5	30.1
4H	2H	19.4	20.7	19.9	21.2	21.7	22.3	23.6	22.8	24.1	24.7
	3H	20.8	22.0	21.4	22.5	23.0	24.9	26.0	25.4	26.6	27.1
	4H	21.3	22.3	21.8	22.9	23.5	26.1	27.2	26.7	27.7	28.3
	6H	21.6	22.5	22.2	23.1	23.7	27.4	28.3	28.0	28.9	29.5
	8H	21.7	22.5	22.2	23.1	23.7	28.0	28.9	28.6	29.5	30.1
	12H	21.7	22.5	22.3	23.1	23.7	28.7	29.5	29.3	30.1	30.7
8H	4H	22.0	22.8	22.5	23.4	24.0	26.2	27.1	26.8	27.7	28.3
	6H	22.4	23.1	23.0	23.7	24.4	27.6	28.3	28.2	28.9	29.6
	8H	22.6	23.2	23.2	23.8	24.4	28.4	29.0	29.0	29.6	30.2
	12H	22.6	23.2	23.2	23.8	24.5	29.2	29.7	29.8	30.3	31.0
12H	4H	22.1	22.9	22.7	23.5	24.1	26.2	27.0	26.8	27.6	28.2
	6H	22.7	23.3	23.3	23.9	24.6	27.6	28.3	28.2	28.9	29.5
	8H	22.9	23.4	23.5	24.0	24.7	28.4	29.0	29.0	29.6	30.3

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 3669.849 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)