

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_3500K_.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_3500K_

[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	11033
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	83.8
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	23342	14160	13137
55	21108	11655	10993
65	18397	9186	8933
75	14809	6722	6813
85	9320	4423	4818

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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	3471.975	3471.975	3471.975	3471.975	3471.975	3471.975	3471.975	3471.975	3471.975
0.5	3426.291	3485.411	3477.349	3477.349	3461.226	3480.037	3477.349	3490.786	3428.978
1.0	3423.604	3482.724	3471.975	3480.037	3458.538	3480.037	3471.975	3488.099	3428.978
1.5	3428.978	3482.724	3466.600	3477.349	3461.226	3480.037	3471.975	3485.411	3428.978
2.0	3428.978	3480.037	3471.975	3480.037	3458.538	3485.411	3471.975	3488.099	3426.291
2.5	3426.291	3477.349	3466.600	3477.349	3458.538	3474.662	3471.975	3482.724	3420.916
3.0	3418.229	3477.349	3463.913	3477.349	3458.538	3477.349	3469.288	3485.411	3420.916
3.5	3420.916	3471.975	3461.226	3469.288	3453.164	3471.975	3466.600	3477.349	3423.604
4.0	3412.855	3466.600	3455.851	3471.975	3455.851	3469.288	3463.913	3480.037	3415.542
4.5	3415.542	3458.538	3455.851	3466.600	3450.477	3469.288	3458.538	3474.662	3410.167
5.0	3402.105	3455.851	3447.789	3463.913	3450.477	3466.600	3455.851	3469.288	3410.167
5.5	3399.418	3455.851	3445.102	3461.226	3450.477	3463.913	3455.851	3463.913	3402.105
6.0	3394.044	3447.789	3439.727	3458.538	3442.415	3458.538	3447.789	3463.913	3399.418
6.5	3388.669	3442.415	3437.040	3450.477	3437.040	3455.851	3445.102	3458.538	3394.044
7.0	3380.607	3434.353	3431.666	3442.415	3431.666	3450.477	3442.415	3455.851	3396.731
7.5	3377.920	3431.666	3423.604	3442.415	3426.291	3445.102	3434.353	3450.477	3385.982
8.0	3372.545	3423.604	3418.229	3434.353	3426.291	3442.415	3431.666	3445.102	3380.607
8.5	3364.483	3415.542	3410.167	3426.291	3415.542	3434.353	3426.291	3437.040	3369.858
9.0	3359.109	3407.480	3399.418	3423.604	3410.167	3426.291	3418.229	3434.353	3364.483
9.5	3342.985	3399.418	3399.418	3418.229	3404.793	3423.604	3412.855	3423.604	3356.422
10.0	3340.298	3396.731	3385.982	3402.105	3402.105	3415.542	3407.480	3418.229	3353.734
10.5	3321.487	3380.607	3380.607	3402.105	3388.669	3410.167	3399.418	3407.480	3340.298
11.0	3318.800	3377.920	3372.545	3391.356	3383.294	3402.105	3385.982	3394.044	3340.298
11.5	3308.050	3364.483	3361.796	3383.294	3377.920	3391.356	3380.607	3391.356	3326.861
12.0	3297.301	3353.734	3356.422	3375.233	3367.171	3385.982	3369.858	3380.607	3313.425
12.5	3283.865	3342.985	3345.672	3369.858	3367.171	3372.545	3361.796	3367.171	3308.050
13.0	3278.490	3337.611	3332.236	3359.109	3356.422	3367.171	3353.734	3361.796	3291.927
13.5	3270.428	3324.174	3326.861	3345.672	3345.672	3356.422	3345.672	3353.734	3281.178
14.0	3254.305	3310.738	3313.425	3337.611	3334.923	3348.360	3332.236	3342.985	3270.428
14.5	3235.494	3297.301	3299.989	3326.861	3324.174	3334.923	3324.174	3332.236	3262.367
15.0	3227.432	3289.239	3294.614	3321.487	3313.425	3326.861	3310.738	3318.800	3248.930
15.5	3216.683	3281.178	3278.490	3308.050	3302.676	3313.425	3302.676	3305.363	3238.181
16.0	3208.621	3262.367	3267.741	3299.989	3289.239	3302.676	3286.552	3294.614	3219.370
16.5	3184.435	3251.617	3251.617	3289.239	3278.490	3291.927	3273.116	3281.178	3216.683
17.0	3170.999	3238.181	3243.556	3275.803	3267.741	3275.803	3262.367	3270.428	3197.872
17.5	3157.562	3222.057	3227.432	3259.679	3254.305	3262.367	3246.243	3259.679	3189.810
18.0	3149.500	3203.246	3211.308	3243.556	3243.556	3246.243	3235.494	3238.181	3173.686
18.5	3133.377	3192.497	3197.872	3235.494	3230.119	3235.494	3219.370	3227.432	3160.250
19.0	3111.878	3176.373	3181.748	3219.370	3213.995	3222.057	3208.621	3211.308	3144.126
19.5	3101.129	3162.937	3168.311	3205.934	3197.872	3205.934	3195.184	3197.872	3125.315
20.0	3085.006	3144.126	3152.188	3189.810	3184.435	3195.184	3179.061	3181.748	3111.878
20.5	3066.195	3128.002	3138.751	3176.373	3170.999	3176.373	3165.624	3165.624	3098.442
21.0	3052.758	3111.878	3119.940	3157.562	3154.875	3165.624	3144.126	3154.875	3076.944
21.5	3031.260	3095.755	3103.817	3141.439	3144.126	3152.188	3133.377	3136.064	3063.507
22.0	3017.823	3082.318	3090.380	3125.315	3128.002	3133.377	3117.253	3119.940	3047.384
22.5	2993.638	3058.133	3071.569	3111.878	3117.253	3125.315	3101.129	3101.129	3025.885
23.0	2977.514	3042.009	3055.445	3093.067	3101.129	3106.504	3087.693	3085.006	3015.136
23.5	2964.078	3023.198	3042.009	3079.631	3090.380	3098.442	3071.569	3068.882	2996.325
24.0	2937.205	3007.074	3023.198	3063.507	3074.256	3082.318	3055.445	3044.696	2969.452
24.5	2926.456	2990.951	3004.387	3050.071	3060.820	3068.882	3036.634	3028.573	2953.329
25.0	2904.957	2964.078	2988.263	3036.634	3052.758	3055.445	3020.511	3012.449	2937.205
25.5	2880.772	2947.954	2964.078	3023.198	3039.322	3039.322	3007.074	2996.325	2921.081
26.0	2859.273	2931.830	2947.954	3001.700	3023.198	3023.198	2988.263	2977.514	2896.895
26.5	2840.462	2907.645	2931.830	2990.951	3009.762	3007.074	2969.452	2956.016	2880.772

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27.0	2824.339	2888.834	2915.706	2972.140	2988.263	2990.951	2950.641	2937.205	2859.273
27.5	2800.153	2872.710	2896.895	2958.703	2974.827	2972.140	2934.518	2918.394	2837.775
28.0	2781.342	2845.837	2872.710	2942.579	2961.390	2956.016	2913.019	2896.895	2818.964
28.5	2762.531	2827.026	2856.586	2923.768	2945.267	2939.892	2896.895	2878.084	2800.153
29.0	2741.033	2805.528	2837.775	2907.645	2929.143	2921.081	2878.084	2859.273	2775.968
29.5	2719.535	2786.717	2818.964	2888.834	2910.332	2904.957	2861.961	2835.088	2754.469
30.0	2692.662	2765.218	2800.153	2870.023	2894.208	2888.834	2840.462	2816.277	2730.284
30.5	2671.432	2743.720	2778.655	2853.899	2878.084	2870.023	2821.651	2794.779	2708.785
31.0	2648.859	2719.535	2759.844	2835.088	2861.961	2853.899	2800.153	2773.280	2692.662
31.5	2631.929	2695.349	2741.033	2816.277	2843.150	2837.775	2784.029	2751.782	2663.639
32.0	2603.712	2678.688	2719.535	2800.153	2827.026	2821.651	2765.218	2730.284	2643.753
32.5	2585.439	2654.502	2698.036	2781.342	2810.902	2802.840	2741.033	2706.098	2625.211
33.0	2559.103	2633.004	2674.388	2765.218	2797.466	2786.717	2719.535	2682.450	2595.113
33.5	2535.455	2610.162	2654.233	2749.095	2778.655	2765.218	2700.724	2661.758	2576.033
34.0	2513.957	2587.589	2638.647	2727.596	2762.531	2749.095	2683.525	2641.603	2556.416
34.5	2488.965	2562.328	2615.805	2708.785	2746.407	2730.284	2662.295	2614.462	2529.006
35.0	2469.348	2540.561	2596.726	2692.662	2727.596	2711.473	2642.141	2593.501	2511.001
35.5	2444.894	2515.569	2577.646	2675.194	2714.160	2692.662	2619.299	2568.240	2481.978
36.0	2416.140	2489.771	2554.535	2656.115	2695.349	2678.150	2597.800	2545.936	2462.630
36.5	2391.148	2467.467	2536.799	2636.229	2679.494	2658.533	2577.915	2522.556	2440.325
37.0	2371.800	2441.938	2512.613	2621.180	2663.102	2640.797	2555.610	2499.177	2421.783
37.5	2346.002	2420.977	2492.996	2601.563	2645.634	2619.567	2537.605	2477.679	2398.404
38.0	2318.323	2396.523	2470.692	2584.095	2628.436	2600.756	2516.107	2455.643	2370.725
38.5	2296.018	2372.068	2452.687	2564.478	2609.087	2582.214	2492.459	2433.876	2344.389
39.0	2269.145	2346.002	2430.114	2545.398	2590.813	2562.866	2473.648	2412.915	2318.860
39.5	2243.616	2319.666	2409.690	2525.512	2574.152	2544.055	2450.806	2389.267	2289.031
40.0	2216.206	2298.437	2388.461	2507.239	2558.566	2527.125	2429.576	2367.500	2261.083
40.5	2193.095	2274.251	2367.500	2487.890	2537.874	2507.776	2408.615	2339.821	2234.748
41.0	2163.804	2247.109	2345.195	2470.154	2517.182	2488.965	2387.117	2315.367	2208.413
41.5	2139.618	2220.505	2326.922	2451.881	2503.208	2467.736	2364.006	2286.075	2181.808
42.0	2111.670	2196.857	2303.542	2431.726	2484.666	2452.687	2342.777	2258.396	2157.892
42.5	2086.678	2171.597	2281.238	2413.990	2466.930	2431.189	2318.860	2233.673	2131.556
43.0	2059.806	2149.292	2259.740	2393.835	2448.656	2410.497	2298.705	2204.113	2105.221
43.5	2036.426	2126.182	2237.167	2373.681	2432.264	2390.611	2278.819	2178.046	2082.110
44.0	2013.584	2098.771	2216.206	2355.945	2413.721	2373.412	2254.365	2150.098	2054.431
44.5	1981.606	2072.973	2190.408	2335.252	2395.179	2355.138	2236.092	2125.375	2029.977
45.0	1958.226	2047.444	2172.672	2316.441	2376.905	2332.028	2214.862	2097.428	2004.716
45.5	1934.041	2022.452	2147.680	2296.556	2354.870	2314.829	2192.558	2074.854	1979.456
46.0	1907.436	2001.223	2126.988	2274.789	2336.596	2296.287	2171.597	2048.250	1950.970
46.5	1884.057	1975.962	2103.877	2252.484	2319.129	2273.714	2150.098	2024.333	1927.591
47.0	1856.647	1948.821	2082.110	2236.629	2299.780	2258.127	2130.212	1999.610	1903.405
47.5	1829.774	1924.635	2059.806	2214.325	2282.582	2239.048	2108.445	1974.081	1872.502
48.0	1808.813	1899.643	2039.382	2198.470	2260.546	2214.593	2087.216	1948.283	1851.541
48.5	1779.522	1874.651	2017.346	2174.015	2243.079	2196.588	2065.180	1923.560	1820.637
49.0	1762.323	1853.691	1996.923	2155.473	2223.730	2176.971	2042.338	1899.643	1796.451
49.5	1739.212	1825.743	1975.156	2135.856	2202.769	2158.160	2014.390	1873.039	1772.535
50.0	1712.071	1804.245	1953.389	2115.701	2185.571	2138.006	1994.236	1847.510	1751.842
50.5	1685.198	1785.165	1926.785	2095.278	2166.222	2117.045	1971.125	1823.593	1729.001
51.0	1659.937	1761.785	1908.511	2074.586	2148.217	2096.890	1945.596	1797.258	1699.440
51.5	1634.945	1738.406	1884.594	2056.850	2131.556	2077.004	1923.291	1781.940	1673.911
52.0	1608.610	1712.339	1864.709	2037.232	2110.595	2057.387	1899.106	1757.486	1646.770
52.5	1584.424	1688.691	1842.404	2016.540	2090.978	2036.695	1877.876	1735.719	1622.046
53.0	1557.283	1662.625	1819.025	1996.923	2070.823	2019.228	1856.109	1709.383	1597.861
53.5	1532.829	1638.439	1797.258	1975.962	2050.669	1997.729	1831.924	1684.123	1569.644
54.0	1506.224	1615.866	1777.640	1955.539	2029.170	1977.575	1812.306	1659.400	1542.234
54.5	1480.426	1589.530	1761.785	1932.966	2012.509	1958.495	1788.658	1633.602	1517.780

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55.0	1452.747	1564.807	1741.093	1913.617	1992.355	1936.728	1775.222	1610.222	1490.638
55.5	1427.487	1542.772	1718.251	1891.581	1970.588	1916.036	1754.261	1585.499	1463.765
56.0	1402.226	1515.899	1695.678	1870.083	1952.314	1896.687	1731.150	1559.970	1439.848
56.5	1378.041	1490.907	1673.105	1850.735	1929.741	1871.964	1706.965	1532.560	1412.438
57.0	1351.705	1465.646	1651.338	1828.699	1910.392	1851.541	1684.392	1508.643	1383.684
57.5	1326.982	1442.804	1630.915	1808.275	1887.282	1829.236	1661.281	1481.770	1358.424
58.0	1302.797	1417.544	1606.460	1787.315	1865.246	1807.738	1637.633	1457.853	1332.894
58.5	1276.730	1392.552	1583.887	1772.803	1844.823	1790.002	1615.328	1432.861	1305.753
59.0	1252.813	1368.367	1563.732	1757.217	1824.937	1772.803	1590.874	1406.257	1281.836
59.5	1227.015	1344.718	1540.084	1731.957	1802.363	1752.649	1569.107	1382.878	1254.426
60.0	1202.292	1320.802	1515.630	1710.996	1789.196	1730.344	1545.728	1358.424	1231.315
60.5	1177.300	1296.347	1492.788	1691.916	1769.847	1708.846	1525.035	1332.088	1202.830
61.0	1150.159	1272.162	1471.558	1667.730	1749.961	1685.735	1501.119	1309.515	1177.569
61.5	1125.705	1247.707	1450.060	1645.426	1729.001	1663.699	1479.352	1282.642	1152.040
62.0	1100.713	1223.791	1428.024	1624.465	1705.621	1643.814	1454.360	1258.994	1125.973
62.5	1075.990	1200.411	1405.989	1602.698	1682.779	1619.628	1433.399	1233.734	1100.713
63.0	1052.073	1175.957	1383.684	1580.931	1661.281	1598.398	1410.288	1210.085	1075.990
63.5	1026.812	1153.115	1361.111	1557.552	1640.051	1576.094	1386.640	1185.362	1051.267
64.0	1000.746	1129.198	1339.613	1535.785	1618.016	1554.596	1364.873	1160.908	1024.394
64.5	973.873	1105.281	1315.696	1512.943	1594.367	1533.903	1341.225	1137.260	999.402
65.0	950.493	1083.245	1293.391	1491.176	1572.600	1510.255	1319.727	1113.074	974.142
65.5	927.114	1059.329	1271.356	1471.021	1552.446	1488.488	1298.228	1088.889	949.687
66.0	901.585	1035.680	1250.395	1445.760	1529.873	1465.378	1274.043	1064.434	924.427
66.5	879.280	1012.839	1227.284	1425.068	1506.224	1442.804	1252.813	1040.518	899.704
67.0	854.826	990.534	1204.980	1402.495	1484.457	1418.888	1228.628	1017.407	876.324
67.5	831.715	967.423	1183.750	1378.847	1460.809	1397.658	1208.204	994.565	852.407
68.0	807.798	945.119	1159.833	1359.230	1439.311	1375.622	1184.825	970.917	829.297
68.5	784.419	923.083	1139.410	1334.775	1417.006	1351.705	1161.983	947.806	803.499
69.0	761.040	899.166	1117.374	1314.890	1394.433	1330.745	1139.947	926.039	780.657
69.5	736.317	876.862	1095.607	1291.241	1371.591	1308.709	1118.718	902.660	755.128
70.0	714.012	854.826	1072.765	1269.474	1348.749	1284.792	1095.607	878.743	732.286
70.5	691.708	831.178	1051.535	1246.364	1326.714	1263.831	1073.571	855.632	709.175
71.0	667.253	810.217	1030.037	1225.940	1304.409	1241.258	1052.073	832.790	685.258
71.5	645.218	787.644	1009.882	1203.905	1282.105	1220.566	1029.231	810.217	661.610
72.0	622.376	767.220	986.772	1180.525	1259.531	1197.455	1008.808	788.719	636.887
72.5	599.802	745.185	966.080	1159.296	1238.571	1176.494	986.503	765.608	613.776
73.0	576.961	724.493	944.044	1136.185	1215.460	1152.846	965.274	743.304	592.816
73.5	555.462	703.532	923.352	1113.343	1192.349	1131.079	944.044	721.537	569.436
74.0	533.426	681.765	902.660	1093.995	1171.120	1109.043	922.008	699.770	547.400
74.5	510.047	659.729	880.087	1071.153	1148.009	1087.814	902.122	677.196	524.021
75.0	487.743	639.574	859.932	1050.729	1127.586	1065.241	881.430	656.504	502.791
75.5	467.588	619.151	840.315	1028.156	1105.281	1043.742	859.663	634.468	480.756
76.0	445.283	598.728	819.623	1008.001	1083.514	1023.050	840.046	614.314	458.989
76.5	425.129	578.842	799.468	986.503	1061.478	1000.746	818.816	592.547	439.103
77.0	405.243	558.956	779.313	964.736	1039.443	980.054	797.587	572.392	417.873
77.5	384.820	539.339	759.696	944.581	1019.288	958.287	777.432	551.163	397.450
78.0	363.859	519.721	740.348	923.621	996.715	937.863	758.084	532.083	377.026
78.5	343.973	501.179	720.462	903.197	976.291	917.440	738.466	512.466	356.872
79.0	324.356	482.099	701.919	882.505	954.793	896.479	718.312	493.655	337.792
79.5	306.351	463.288	683.646	862.888	935.176	878.205	699.770	474.306	317.369
80.0	288.077	444.477	664.835	842.196	915.559	856.976	680.421	455.495	299.095
80.5	269.266	426.472	646.293	823.385	894.060	837.896	662.416	438.565	280.284
81.0	250.993	409.274	628.288	803.499	874.712	817.473	644.143	420.023	262.817
81.5	233.525	391.806	610.014	784.688	854.826	798.393	626.138	403.093	245.081
82.0	216.327	375.145	592.547	765.877	833.596	779.582	608.133	386.432	227.882
82.5	200.472	357.947	575.079	748.678	814.248	759.696	589.860	370.039	211.489

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CANDELA TABULATION - (Cont.)

83.0	183.542	341.823	557.881	729.867	795.974	740.885	573.467	353.647	195.097
83.5	167.687	326.237	540.951	711.594	776.626	723.418	555.731	337.792	179.242
84.0	152.100	310.919	524.558	693.589	758.352	705.682	539.876	322.206	163.656
84.5	137.052	295.870	508.166	676.659	740.079	687.677	523.215	307.157	149.144
85.0	123.078	281.896	491.774	658.923	722.343	669.672	506.822	292.646	134.096
85.5	109.104	267.116	476.725	641.455	704.338	653.011	491.236	277.059	120.122
86.0	95.130	253.411	461.676	625.600	686.871	636.350	475.112	263.085	105.879
86.5	81.962	239.975	447.165	609.208	670.209	619.151	460.332	248.843	92.174
87.0	68.795	226.807	432.116	593.353	653.279	603.565	445.821	235.406	78.469
87.5	56.702	214.446	418.142	578.842	637.156	588.247	430.772	222.239	65.301
88.0	44.878	201.009	404.974	564.062	622.376	573.198	417.067	208.802	52.133
88.5	33.054	189.454	392.881	550.625	607.327	559.493	404.168	195.635	38.697
89.0	21.230	178.436	381.595	537.457	594.159	545.519	391.538	184.079	26.067
89.5	10.480	169.299	370.846	525.365	580.991	533.426	380.789	173.867	13.705
90.0	3.762	160.968	361.440	513.541	568.361	521.065	370.846	164.999	4.300
90.5	2.419	153.982	352.303	502.254	555.731	508.972	360.903	157.475	2.419
91.0	2.419	148.070	343.167	491.236	543.907	498.223	350.691	151.563	2.150
91.5	2.419	143.770	335.373	480.487	532.620	487.743	342.898	146.995	2.150
92.0	2.419	140.008	327.312	471.081	522.409	478.337	335.373	143.232	2.150
92.5	2.419	136.514	321.668	462.482	512.466	469.200	328.924	139.739	2.150
93.0	2.419	133.289	315.756	454.152	503.060	460.870	323.012	136.245	2.150
93.5	2.419	130.065	310.382	446.896	494.998	453.077	317.369	133.021	2.150
94.0	2.419	127.109	305.276	439.371	486.936	445.821	312.531	129.796	2.150
94.5	2.419	124.153	300.707	432.922	479.681	439.103	307.426	126.571	2.150
95.0	2.419	121.197	296.139	426.472	472.694	431.847	302.320	123.615	2.150
95.5	2.419	118.509	291.033	420.023	464.901	425.666	297.483	120.928	2.150
96.0	2.419	115.822	286.734	413.573	458.182	418.948	292.646	118.241	2.150
96.5	2.419	113.135	281.896	407.661	451.464	413.036	287.540	115.285	2.150
97.0	2.419	110.447	277.597	400.943	444.477	406.049	283.240	112.597	2.150
97.5	2.419	107.760	272.760	395.569	437.759	400.406	278.672	110.179	2.150
98.0	2.419	105.342	268.460	389.119	431.578	394.225	273.835	107.491	2.150
98.5	2.419	103.192	264.429	383.476	425.398	388.044	269.535	104.804	2.150
99.0	2.419	100.505	259.592	378.101	419.217	382.132	264.967	102.386	2.150
99.5	2.419	98.086	255.561	372.458	412.767	376.489	260.667	99.967	2.150
100.0	2.419	95.936	250.993	366.815	406.587	370.846	256.098	97.549	2.150
100.5	2.419	93.518	246.962	361.171	400.137	365.471	252.068	95.399	2.419
101.0	2.419	91.636	242.931	355.528	394.494	360.096	248.037	92.980	2.419
101.5	2.419	89.218	238.631	350.154	388.850	354.184	243.468	90.830	2.419
102.0	2.687	87.337	234.869	344.779	382.401	349.347	239.706	88.680	2.419
102.5	2.687	85.187	230.838	339.673	376.220	344.241	235.406	86.531	2.419
103.0	2.687	83.306	226.807	334.299	370.577	338.867	231.375	84.381	2.419
103.5	2.687	81.156	222.776	329.730	365.202	333.492	227.613	82.231	2.419
104.0	2.687	79.275	219.283	324.893	359.828	328.386	223.314	80.081	2.419
104.5	2.687	77.394	215.252	319.250	354.722	323.281	219.551	78.200	2.687
105.0	2.687	75.513	211.758	314.681	348.810	318.444	215.789	76.319	2.687
105.5	2.687	73.632	208.265	309.844	343.704	313.069	212.027	74.438	2.687
106.0	2.687	71.751	204.503	304.738	338.598	308.232	207.996	72.557	2.687
106.5	2.687	70.138	201.009	300.439	332.686	303.395	204.503	70.944	2.687
107.0	2.956	68.257	197.516	295.602	328.118	298.289	200.740	69.063	2.687
107.5	2.956	66.645	193.753	290.496	323.281	293.720	197.516	67.451	2.687
108.0	2.956	65.032	190.260	286.465	318.175	289.152	194.022	65.839	2.687
108.5	2.956	63.151	187.304	281.628	313.338	284.852	190.260	63.957	2.956
109.0	2.956	61.539	183.810	277.059	308.501	280.284	186.766	62.345	2.956
109.5	2.956	59.927	180.317	272.491	303.932	275.716	183.542	60.733	2.956
110.0	2.956	58.583	177.361	268.191	299.095	271.147	180.317	59.120	2.956
110.5	2.956	56.970	174.136	264.160	294.258	266.579	176.823	57.508	2.956

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111.0	2.956	55.358	170.911	259.861	289.958	262.817	173.599	56.164	2.956
111.5	3.225	54.014	167.955	255.830	285.390	258.248	170.105	54.552	2.956
112.0	3.225	52.402	164.731	251.261	281.090	253.949	167.149	52.940	2.956
112.5	3.225	51.058	161.506	247.768	276.522	249.918	163.925	51.596	3.225
113.0	3.225	49.715	158.819	243.199	271.953	245.887	160.700	49.984	3.225
113.5	3.225	48.371	155.325	239.169	267.385	241.318	157.744	48.640	3.225
114.0	3.225	46.759	152.638	235.406	263.623	237.287	154.788	47.296	3.225
114.5	3.225	45.415	149.682	231.375	259.054	233.525	151.563	45.684	3.225
115.0	3.225	44.340	146.726	227.613	255.024	229.494	148.338	44.340	3.225
115.5	3.225	42.728	143.770	223.851	250.724	225.463	145.382	42.997	3.225
116.0	3.225	41.653	141.083	219.551	246.693	221.701	142.426	41.653	3.493
116.5	3.225	40.309	138.127	216.058	242.662	217.939	139.739	40.578	3.493
117.0	3.225	38.966	135.171	212.027	238.362	213.908	136.783	39.234	3.493
117.5	3.225	37.622	132.483	208.533	234.600	210.146	133.827	37.891	3.493
118.0	3.225	36.547	130.065	204.503	230.569	206.384	131.140	36.547	3.493
118.5	3.225	35.203	127.377	201.009	226.807	202.621	128.452	35.472	3.493
119.0	3.225	34.129	124.690	197.516	222.776	199.128	125.765	34.129	3.493
119.5	3.225	32.785	122.003	194.022	218.745	195.635	123.078	33.054	3.493
120.0	3.225	31.710	119.316	189.991	214.983	191.604	120.122	31.710	3.493
120.5	3.225	30.635	116.628	187.035	210.952	188.110	117.703	30.635	3.762
121.0	3.225	29.291	114.210	183.273	206.921	184.617	115.016	29.560	3.762
121.5	3.225	27.948	111.791	179.780	203.696	181.123	112.597	28.217	3.762
122.0	3.225	26.873	109.373	176.286	199.397	177.630	110.179	27.142	3.762
122.5	3.225	25.798	106.685	172.793	195.903	173.867	107.760	26.067	3.762
123.0	3.225	24.723	104.267	169.568	192.141	170.643	105.073	24.992	3.762
123.5	3.225	23.648	101.848	166.074	188.379	167.418	102.654	23.917	3.762
124.0	3.225	22.573	99.698	162.581	184.885	163.925	100.236	22.842	3.762
124.5	3.225	21.498	97.280	159.356	181.392	160.162	97.817	21.767	4.031
125.0	3.225	20.423	94.861	156.131	177.898	156.938	95.399	20.692	4.031
125.5	3.225	19.348	92.443	152.907	174.136	153.713	92.980	19.617	4.031
126.0	3.225	18.542	90.024	149.951	170.643	150.488	90.562	18.542	4.031
126.5	3.225	17.467	87.874	146.726	167.149	147.263	88.412	17.467	4.031
127.0	3.225	16.392	85.724	143.501	163.387	144.039	86.262	16.661	4.031
127.5	3.225	15.586	83.575	140.545	160.162	140.814	83.843	15.586	4.031
128.0	3.225	14.511	81.156	137.320	156.938	138.127	81.694	14.780	4.300
128.5	3.225	13.705	78.738	134.364	153.713	135.171	79.544	13.974	4.300
129.0	3.225	12.899	76.588	131.140	150.219	131.946	77.394	13.168	4.300
129.5	3.225	12.362	74.707	128.184	146.995	128.990	75.244	12.630	4.300
130.0	3.493	11.555	72.825	125.228	143.770	126.034	73.363	11.824	4.300
130.5	3.493	11.018	70.407	122.540	140.545	123.346	71.213	11.287	4.568
131.0	3.493	10.480	68.526	119.853	137.320	120.122	69.063	10.749	4.568
131.5	3.493	9.943	66.645	116.897	134.096	117.434	67.182	10.212	4.568
132.0	3.493	9.406	64.495	114.210	130.871	114.478	65.032	9.674	4.568
132.5	3.493	8.868	62.614	111.254	127.915	111.791	63.151	9.137	4.568
133.0	3.493	8.599	60.733	108.298	124.959	108.835	61.270	8.868	4.837
133.5	3.493	8.331	58.583	105.610	121.734	106.148	59.120	8.599	4.837
134.0	3.493	8.062	56.433	102.923	119.047	103.192	57.239	8.331	4.837
134.5	3.493	7.793	54.283	100.236	115.822	100.505	55.358	8.062	4.837
135.0	3.493	7.524	52.133	97.549	112.866	97.817	53.477	7.793	4.837
135.5	3.493	7.256	50.252	94.593	109.910	95.130	51.596	7.524	4.837
136.0	3.493	6.987	48.102	91.905	106.954	92.443	49.715	7.256	4.837
136.5	3.493	6.987	46.221	89.487	103.998	89.755	48.102	7.256	5.106
137.0	3.493	6.718	44.072	87.068	101.042	87.068	46.221	6.987	5.106
137.5	3.493	6.718	42.190	84.381	98.355	84.650	44.340	6.987	5.106
138.0	3.493	6.449	40.309	81.694	95.667	81.962	42.728	6.718	5.106
138.5	3.493	6.449	38.697	79.275	92.980	79.544	41.115	6.718	5.106

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CANDELA TABULATION - (Cont.)

139.0	3.762	6.449	36.816	76.856	90.293	76.856	39.503	6.449	5.375
139.5	3.762	6.181	34.935	74.438	87.606	74.707	37.891	6.449	5.375
140.0	3.762	6.181	33.322	72.019	84.918	72.019	36.010	6.449	5.375
140.5	3.762	6.181	31.710	69.332	82.231	69.601	34.397	6.181	5.375
141.0	3.762	5.912	30.366	67.182	79.544	67.182	32.785	6.181	5.375
141.5	3.762	5.912	28.754	64.764	76.856	65.032	31.173	6.181	5.643
142.0	3.762	5.912	27.410	62.614	74.438	62.614	29.560	6.181	5.643
142.5	3.762	5.643	26.067	60.195	71.751	60.195	27.948	5.912	5.643
143.0	3.762	5.643	24.723	58.045	69.332	57.777	26.604	5.912	5.643
143.5	4.031	5.643	23.379	55.627	66.913	55.627	24.992	5.912	5.643
144.0	4.031	5.643	22.036	53.477	64.226	53.477	23.648	5.643	5.643
144.5	4.031	5.643	20.692	51.327	61.808	51.058	22.036	5.643	5.912
145.0	4.031	5.375	19.617	48.909	59.389	48.909	20.692	5.643	5.912
145.5	4.031	5.375	18.274	46.759	56.970	46.759	19.348	5.643	5.912
146.0	4.031	5.375	17.199	44.878	54.552	44.609	18.005	5.643	5.912
146.5	4.031	5.375	16.124	42.728	52.133	42.459	16.930	5.643	5.912
147.0	4.031	5.375	15.049	40.578	49.984	40.309	15.855	5.375	5.912
147.5	4.031	5.375	13.974	38.428	47.565	38.428	14.780	5.375	6.181
148.0	4.300	5.375	13.168	36.278	45.415	36.278	13.974	5.375	6.181
148.5	4.300	5.375	12.362	34.129	42.997	34.397	13.168	5.375	6.181
149.0	4.300	5.375	11.824	31.710	40.847	32.247	12.362	5.375	6.181
149.5	4.300	5.375	11.018	29.829	38.697	30.366	11.824	5.375	6.181
150.0	4.300	5.375	10.480	27.679	36.547	28.485	11.287	5.643	6.181
150.5	4.300	5.375	10.212	25.798	34.397	26.604	10.749	5.375	6.449
151.0	4.300	5.375	9.674	23.917	32.247	24.723	10.212	5.375	6.449
151.5	4.568	5.375	9.406	22.304	30.366	23.111	9.943	5.643	6.449
152.0	4.568	5.643	9.137	20.423	28.217	21.230	9.406	5.643	6.449
152.5	4.568	5.643	8.868	19.080	26.335	19.617	9.137	5.643	6.449
153.0	4.568	5.643	8.599	17.736	24.186	18.005	8.868	5.643	6.449
153.5	4.568	5.643	8.331	16.392	22.304	16.661	8.599	5.643	6.449
154.0	4.568	5.643	8.062	15.049	20.423	15.586	8.331	5.643	6.718
154.5	4.837	5.643	7.793	13.974	18.811	14.243	8.062	5.643	6.718
155.0	4.837	5.643	7.524	12.899	17.199	13.168	7.793	5.643	6.718
155.5	4.837	5.912	7.524	12.093	15.855	12.362	7.793	5.643	6.718
156.0	4.837	5.912	7.256	11.287	14.511	11.555	7.524	5.912	6.718
156.5	5.106	5.912	7.256	10.480	13.436	10.749	7.256	5.912	6.718
157.0	5.106	5.912	6.987	9.943	12.362	10.212	7.256	5.912	6.718
157.5	5.106	5.912	6.987	9.674	11.287	9.674	6.987	5.912	6.718
158.0	5.106	5.912	6.718	9.137	10.749	9.137	6.987	5.912	6.987
158.5	5.106	6.181	6.718	8.868	9.943	8.868	6.718	5.912	6.987
159.0	5.375	6.181	6.449	8.331	9.406	8.331	6.718	6.181	6.987
159.5	5.375	6.181	6.449	8.062	8.868	8.062	6.449	6.181	6.987
160.0	5.375	6.181	6.449	7.793	8.599	7.793	6.449	6.181	6.987
160.5	5.375	6.181	6.181	7.524	8.062	7.524	6.449	6.181	6.987
161.0	5.375	6.181	6.181	7.256	7.793	7.256	6.181	6.181	6.987
161.5	5.643	6.181	6.181	7.256	7.524	7.256	6.181	6.181	6.987
162.0	5.643	6.449	6.181	6.987	7.256	6.987	6.181	6.181	6.987
162.5	5.643	6.449	6.181	6.718	6.987	6.718	6.181	6.449	6.987
163.0	5.643	6.449	6.181	6.449	6.718	6.718	6.181	6.449	7.256
163.5	5.643	6.449	6.181	6.449	6.449	6.449	6.181	6.449	7.256
164.0	5.912	6.449	6.181	6.181	6.449	6.181	6.181	6.449	7.256
164.5	5.912	6.449	6.181	6.181	6.181	6.181	6.181	6.449	7.256
165.0	5.912	6.718	6.181	6.181	6.181	6.181	6.181	6.449	7.256
165.5	5.912	6.718	6.181	6.181	5.912	6.181	6.181	6.718	7.256
166.0	6.181	6.718	6.449	6.181	5.912	5.912	6.449	6.718	7.256
166.5	6.181	6.718	6.449	6.181	5.912	5.912	6.449	6.718	7.256

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CANDELA TABULATION - (Cont.)

167.0	6.181	6.718	6.449	5.912	5.643	5.912	6.449	6.718	7.256
167.5	6.181	6.718	6.449	5.912	5.643	5.912	6.449	6.718	7.256
168.0	6.181	6.718	6.449	5.912	5.643	5.912	6.449	6.718	7.256
168.5	6.449	6.987	6.449	5.912	5.643	5.912	6.449	6.718	7.256
169.0	6.449	6.987	6.449	6.181	5.643	6.181	6.449	6.987	7.256
169.5	6.449	6.987	6.449	6.181	5.643	6.181	6.449	6.987	7.256
170.0	6.449	6.987	6.449	6.181	5.643	5.912	6.449	6.987	7.256
170.5	6.449	6.987	6.449	6.181	5.643	6.181	6.449	6.987	7.256
171.0	6.449	6.987	6.718	6.181	5.643	6.181	6.449	6.987	7.256
171.5	6.449	6.987	6.718	6.181	5.643	6.181	6.718	6.987	7.256
172.0	6.449	6.987	6.718	6.181	5.643	6.181	6.718	6.987	7.256
172.5	6.718	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
173.0	6.718	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
173.5	6.718	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
174.0	6.718	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
174.5	6.718	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
175.0	6.718	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
175.5	6.987	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
176.0	6.987	6.987	6.718	6.181	5.912	6.181	6.718	6.987	7.256
176.5	6.987	6.987	6.718	6.449	5.912	6.181	6.718	6.987	7.256
177.0	6.987	7.256	6.718	6.449	5.912	6.181	6.718	7.256	7.256
177.5	6.987	7.256	6.718	6.449	5.912	6.181	6.718	7.256	7.256
178.0	6.987	7.256	6.718	6.449	5.912	6.449	6.718	7.256	7.256
178.5	6.987	7.256	6.718	6.449	5.912	6.449	6.718	7.256	7.256
179.0	7.256	7.256	6.718	6.449	5.912	6.449	6.987	7.256	7.256
179.5	7.256	7.256	6.718	6.449	5.912	6.449	6.718	7.256	7.256
180.0	6.718	6.718	6.718	6.718	6.718	6.718	6.718	6.718	6.718

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1258.01	N.A.	11.40
0-30	2642.58	N.A.	24.00
0-40	4284.54	N.A.	38.80
0-60	7542.23	N.A.	68.40
0-80	9720.7	N.A.	88.10
0-90	10238.65	N.A.	92.80
10-90	9910.85	N.A.	89.80
20-40	3026.53	N.A.	27.40
20-50	4719.56	N.A.	42.80
40-70	4539.02	N.A.	41.10
60-80	2178.47	N.A.	19.70
70-80	897.15	N.A.	8.10
80-90	517.95	N.A.	4.70
90-110	507.79	N.A.	4.60
90-120	644.97	N.A.	5.80
90-130	727.11	N.A.	6.60
90-150	787.02	N.A.	7.10
90-180	794.37	N.A.	7.20
110-180	286.57	N.A.	2.60
0-180	11033.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	327.80
10-20	930.21
20-30	1384.57
30-40	1641.96
40-50	1693.03
50-60	1564.66
60-70	1281.32
70-80	897.15
80-90	517.95
90-100	299.93
100-110	207.87
110-120	137.17
120-130	82.15
130-140	42.58
140-150	17.32
150-160	4.89
160-170	1.83
170-180	0.63

IES INDOOR REPORT
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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

PHOTOMETRIC FILENAME : FS-8-LS-8CS-DIM-UNV_81W_3500K_.IES

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

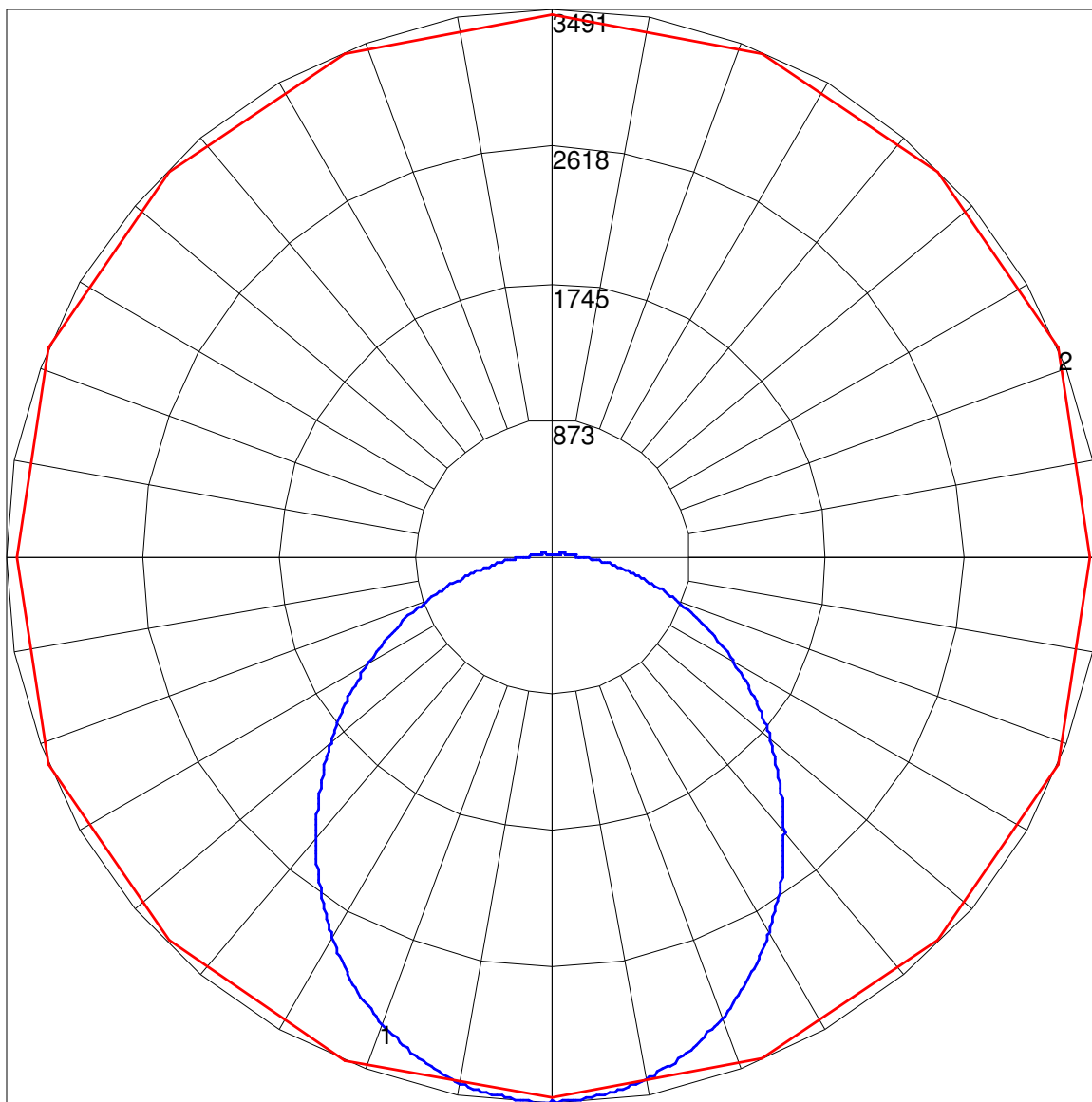
X=2H	Y=2H	18.2	19.7	18.7	20.2	20.7	21.9	23.4	22.3	23.9	24.3
	3H	19.5	20.9	19.9	21.3	21.8	24.3	25.7	24.8	26.1	26.7
	4H	19.8	21.2	20.3	21.6	22.2	25.4	26.7	25.9	27.2	27.7
	6H	20.0	21.3	20.6	21.8	22.3	26.5	27.7	27.0	28.2	28.8
	8H	20.1	21.3	20.6	21.8	22.3	27.1	28.2	27.6	28.8	29.3
	12H	20.1	21.2	20.6	21.7	22.3	27.7	28.8	28.2	29.3	29.9

UGR Viewed Endwise

4H	2H	19.2	20.5	19.7	21.0	21.5	22.1	23.4	22.6	23.9	24.5
	3H	20.6	21.8	21.2	22.3	22.8	24.7	25.8	25.2	26.4	26.9
	4H	21.1	22.1	21.6	22.7	23.3	25.9	27.0	26.5	27.5	28.1
	6H	21.4	22.3	22.0	22.9	23.5	27.2	28.1	27.8	28.7	29.3
	8H	21.5	22.3	22.0	22.9	23.5	27.8	28.7	28.4	29.3	29.9
	12H	21.5	22.3	22.1	22.9	23.5	28.5	29.3	29.1	29.9	30.5
8H	4H	21.8	22.6	22.3	23.2	23.8	26.0	26.9	26.6	27.5	28.1
	6H	22.2	22.9	22.8	23.5	24.2	27.4	28.1	28.0	28.7	29.4
	8H	22.4	23.0	23.0	23.6	24.2	28.2	28.8	28.8	29.4	30.0
	12H	22.4	23.0	23.0	23.6	24.3	29.0	29.5	29.6	30.1	30.8
12H	4H	21.9	22.7	22.5	23.3	23.9	26.0	26.8	26.6	27.4	28.0
	6H	22.5	23.1	23.1	23.7	24.4	27.4	28.1	28.0	28.7	29.3
	8H	22.7	23.2	23.3	23.8	24.5	28.2	28.8	28.8	29.4	30.1

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 3490.786 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.)