



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-850-T3-XXX-SDGL-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL009419  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2024-01-31  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] VWPX-L85-850-T3-xxx-SDGL-DIM-UNV  
[LUMINAIRE] CAST ALUMINUM LED WALL PACK  
[MORE] WITH TYPE III DISTRIBUTION AND  
[MORE] MICRO-PRISMATIC GLASS LENS  
[LAMPCAT] X4-LUXEON M  
[LAMP] 8 WHITE LED  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor  
[\_SEARCH\_MOUNTING] Wall

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8248
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3477.368
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	3477.368
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	783.886 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L85-850-T3-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1181.7	N.A.	14.3
FM - Front-Medium (30-60)	3124.3	N.A.	37.9
FH - Front-High (60-80)	1288.5	N.A.	15.6
FVH - Front-Very High (80-90)	99.3	N.A.	1.2
BL - Back-Low (0-30)	747.5	N.A.	9.1
BM - Back-Medium (30-60)	1322.9	N.A.	16.0
BH - Back-High (60-80)	458.9	N.A.	5.6
BVH - Back-Very High (80-90)	24.7	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8247.8	N.A.	100.0
BUG Rating	B2-U0-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>
0.0	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983
2.5	2338.806	2343.947	2338.806	2354.227	2351.657	2349.087	2343.947	2333.666	2328.526	2325.956
5.0	2436.471	2436.471	2436.471	2446.751	2444.181	2439.041	2431.331	2421.050	2410.770	2403.059
7.5	2477.593	2477.593	2477.593	2485.303	2480.163	2472.453	2464.742	2464.742	2464.742	2462.172
10.0	2562.407	2562.407	2559.837	2559.837	2549.556	2541.846	2534.135	2531.565	2523.855	2518.715
12.5	2667.781	2672.922	2665.211	2662.641	2652.361	2649.791	2639.510	2631.800	2618.949	2606.099
15.0	2765.446	2770.586	2762.876	2752.595	2742.315	2737.175	2729.464	2734.604	2729.464	2706.333
17.5	2847.690	2852.830	2845.120	2829.699	2809.138	2796.287	2793.717	2803.998	2801.428	2791.147
20.0	3007.037	3004.467	2989.046	2968.485	2945.354	2911.943	2886.241	2870.821	2855.400	2845.120
22.5	3176.665	3176.665	3158.674	3130.403	3096.991	3066.150	3035.308	2981.336	2937.644	2901.662
25.0	3307.741	3310.311	3289.750	3258.908	3222.927	3179.235	3143.253	3091.851	3048.159	2978.766
27.5	3418.256	3418.256	3400.265	3361.713	3312.881	3276.899	3230.637	3179.235	3125.262	3086.711
30.0	3477.368	3472.228	3451.667	3428.536	3379.704	3343.722	3289.750	3248.628	3210.076	3156.104
32.5	3449.097	3449.097	3433.676	3413.115	3395.125	3369.423	3333.442	3300.030	3266.619	3210.076
35.0	3359.143	3354.003	3338.582	3333.442	3330.872	3333.442	3323.161	3325.731	3294.890	3251.198
37.5	3215.216	3207.506	3194.655	3202.366	3210.076	3228.067	3264.049	3289.750	3300.030	3266.619
40.0	2960.775	2958.205	2965.915	2981.336	3019.887	3071.290	3156.104	3233.207	3282.039	3276.899
42.5	2642.080	2652.361	2657.501	2685.772	2770.586	2845.120	2994.186	3138.113	3222.927	3248.628
45.0	2297.685	2318.246	2336.236	2385.069	2472.453	2580.397	2773.156	2978.766	3125.262	3199.796
47.5	2004.691	2014.972	2035.533	2089.505	2179.459	2313.105	2523.855	2768.016	2968.485	3109.842
50.0	1763.100	1773.381	1778.521	1832.493	1930.158	2068.944	2289.974	2534.135	2770.586	2971.055
52.5	1529.220	1539.500	1544.640	1603.753	1698.847	1842.774	2066.374	2315.675	2562.407	2786.007
55.0	1326.180	1341.601	1346.741	1398.144	1493.238	1629.454	1860.765	2115.206	2346.517	2564.977
57.5	1148.842	1159.123	1164.263	1207.955	1295.339	1436.695	1647.445	1899.316	2120.347	2328.526
60.0	986.925	989.495	992.065	1033.187	1112.861	1246.507	1446.976	1675.716	1878.756	2068.944
62.5	830.148	830.148	837.858	878.980	943.233	1084.589	1256.787	1457.256	1639.735	1824.783
65.0	681.081	681.081	688.791	737.624	796.736	925.242	1076.879	1246.507	1405.854	1575.482
67.5	555.145	552.575	557.715	603.977	663.090	773.605	904.681	1061.458	1197.675	1341.601
70.0	444.630	442.060	449.770	485.752	532.014	632.249	747.904	871.270	999.776	1120.571
72.5	352.106	349.536	354.676	385.518	429.210	506.313	601.407	714.493	814.727	912.392
75.0	272.432	269.862	272.432	298.134	331.545	393.228	475.472	557.715	639.959	719.633
77.5	200.469	197.899	200.469	221.030	244.161	292.993	357.246	416.359	478.042	547.435
80.0	138.786	136.216	138.786	151.637	169.628	203.039	249.301	292.993	336.685	385.518
82.5	84.814	84.814	84.814	95.094	105.375	125.936	154.207	185.048	210.750	241.591
85.0	43.692	41.122	41.122	46.262	53.972	64.253	79.674	92.524	107.945	123.366
87.5	12.851	12.851	12.851	15.421	15.421	17.991	23.131	28.271	33.412	38.552
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>45.0</u>	<u>50.0</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
0.0	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983
2.5	2328.526	2320.816	2307.965	2300.255	2300.255	2297.685	2287.404	2282.264	2274.554	2266.843
5.0	2400.489	2387.639	2369.648	2354.227	2346.517	2341.377	2323.386	2310.535	2297.685	2282.264
7.5	2464.742	2457.032	2446.751	2428.761	2418.480	2408.200	2387.639	2367.078	2349.087	2323.386
10.0	2513.574	2513.574	2505.864	2498.154	2490.443	2477.593	2459.602	2436.471	2405.630	2374.788
12.5	2598.388	2593.248	2585.538	2575.257	2559.837	2546.986	2523.855	2498.154	2457.032	2418.480
15.0	2685.772	2672.922	2654.931	2634.370	2616.379	2600.958	2577.827	2549.556	2503.294	2454.462
17.5	2768.016	2747.455	2726.894	2696.053	2675.492	2657.501	2631.800	2600.958	2541.846	2482.733
20.0	2827.129	2806.568	2801.428	2778.296	2739.745	2706.333	2672.922	2634.370	2567.547	2500.724
22.5	2868.251	2857.970	2852.830	2824.559	2778.296	2744.885	2714.044	2670.352	2611.239	2526.425
25.0	2927.363	2891.382	2881.101	2865.680	2827.129	2786.007	2750.025	2701.193	2642.080	2557.266
27.5	3019.887	2937.644	2919.653	2893.952	2863.110	2811.708	2773.156	2724.324	2654.931	2562.407

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## CANDELA TABULATION - (Cont.)

30.0	3096.991	3017.317	2955.635	2924.793	2899.092	2857.970	2798.857	2747.455	2667.781	2562.407
32.5	3156.104	3084.140	3014.747	2955.635	2929.933	2888.812	2837.409	2775.726	2680.632	2570.117
35.0	3192.085	3130.403	3053.299	3001.897	2973.625	2935.074	2865.680	2791.147	2701.193	2582.968
37.5	3215.216	3148.393	3091.851	3035.308	3004.467	2971.055	2909.372	2824.559	2721.754	2585.538
40.0	3225.497	3163.814	3107.271	3063.579	3035.308	2999.327	2935.074	2832.269	2716.614	2575.257
42.5	3228.067	3163.814	3099.561	3071.290	3025.028	3004.467	2958.205	2857.970	2737.175	2585.538
45.0	3202.366	3145.823	3084.140	3045.589	3032.738	3019.887	2981.336	2883.671	2755.165	2585.538
47.5	3145.823	3107.271	3040.448	3014.747	3025.028	3022.458	2986.476	2896.522	2757.736	2580.397
50.0	3050.729	3037.878	2989.046	2986.476	2999.327	3014.747	3007.037	2922.223	2768.016	2580.397
52.5	2914.513	2942.784	2940.214	2942.784	2971.055	2991.616	2999.327	2917.083	2760.306	2559.837
55.0	2724.324	2811.708	2868.251	2901.662	2924.793	2960.775	2971.055	2906.802	2757.736	2536.705
57.5	2500.724	2649.791	2744.885	2798.857	2839.979	2878.531	2899.092	2839.979	2696.053	2477.593
60.0	2256.563	2446.751	2572.687	2652.361	2711.473	2768.016	2793.717	2739.745	2600.958	2397.919
62.5	2012.402	2223.151	2379.928	2487.873	2580.397	2636.940	2672.922	2629.230	2498.154	2295.114
65.0	1760.530	1984.130	2151.188	2284.834	2405.630	2469.882	2534.135	2500.724	2379.928	2166.609
67.5	1524.079	1724.549	1907.027	2048.383	2194.880	2274.554	2336.236	2323.386	2205.160	2014.972
70.0	1285.058	1454.686	1629.454	1788.801	1943.008	2025.252	2097.215	2076.655	1973.850	1799.082
72.5	1048.608	1195.104	1359.592	1516.369	1657.725	1739.969	1799.082	1765.670	1673.146	1531.790
75.0	827.578	950.943	1110.291	1233.656	1354.452	1418.705	1462.397	1426.415	1341.601	1225.946
77.5	624.538	722.203	853.279	953.513	1048.608	1082.019	1115.431	1074.309	1004.916	917.532
80.0	442.060	511.453	611.688	681.081	750.474	763.325	783.886	753.044	701.642	645.099
82.5	277.573	331.545	393.228	436.920	480.612	511.453	503.743	478.042	457.481	413.789
85.0	141.356	172.198	203.039	226.170	251.871	269.862	264.722	249.301	246.731	221.030
87.5	43.692	53.972	66.823	71.963	82.244	92.524	89.954	82.244	84.814	77.104
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## Vert. Angles

### Horizontal Angles

	<u>95.0</u>	<u>100.0</u>	<u>105.0</u>	<u>110.0</u>	<u>115.0</u>	<u>120.0</u>	<u>125.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983
2.5	2259.133	2251.422	2246.282	2236.002	2228.291	2223.151	2223.151	2220.581	2215.441	2212.871
5.0	2266.843	2251.422	2236.002	2215.441	2200.020	2187.170	2179.459	2174.319	2161.468	2151.188
7.5	2300.255	2274.554	2246.282	2223.151	2197.450	2179.459	2164.039	2140.907	2120.347	2102.356
10.0	2343.947	2307.965	2271.983	2241.142	2205.160	2174.319	2146.048	2110.066	2079.225	2045.813
12.5	2377.358	2336.236	2297.685	2253.993	2212.871	2171.749	2128.057	2074.084	2027.822	1981.560
15.0	2400.489	2349.087	2295.114	2251.422	2205.160	2151.188	2089.505	2027.822	1973.850	1912.167
17.5	2418.480	2356.797	2295.114	2230.862	2169.179	2104.926	2032.963	1966.140	1894.176	1817.073
20.0	2423.620	2361.938	2295.114	2215.441	2140.907	2063.804	1973.850	1876.185	1783.661	1680.857
22.5	2436.471	2361.938	2284.834	2194.880	2104.926	2007.261	1894.176	1770.811	1642.305	1516.369
25.0	2459.602	2372.218	2274.554	2174.319	2061.234	1937.868	1793.942	1642.305	1493.238	1349.311
27.5	2464.742	2367.078	2253.993	2140.907	2012.402	1855.624	1683.427	1511.229	1351.882	1205.385
30.0	2454.462	2354.227	2228.291	2089.505	1945.579	1765.670	1570.341	1377.583	1218.235	1092.300
32.5	2457.032	2333.666	2205.160	2056.094	1873.615	1662.866	1449.546	1256.787	1112.861	1015.196
35.0	2449.321	2315.675	2174.319	1999.551	1796.512	1562.631	1333.891	1148.842	1022.907	950.943
37.5	2444.181	2302.825	2135.767	1937.868	1703.988	1454.686	1215.665	1043.468	948.373	899.541
40.0	2428.761	2274.554	2089.505	1871.045	1619.174	1339.031	1105.150	943.233	868.700	842.998
42.5	2426.190	2248.852	2050.953	1796.512	1518.939	1225.946	997.205	855.849	799.306	789.026
45.0	2408.200	2223.151	1999.551	1716.838	1410.994	1105.150	896.971	773.605	729.913	735.053
47.5	2377.358	2182.029	1943.008	1644.875	1315.900	1004.916	801.877	699.072	668.230	681.081
50.0	2367.078	2156.328	1894.176	1575.482	1225.946	917.532	724.773	634.819	609.118	624.538
52.5	2338.806	2115.206	1837.634	1508.659	1148.842	840.428	655.380	565.426	542.295	565.426
55.0	2307.965	2063.804	1778.521	1436.695	1079.449	776.175	593.697	508.883	490.892	503.743
57.5	2238.572	1989.271	1703.988	1354.452	999.776	709.352	537.154	457.481	436.920	436.920
60.0	2156.328	1896.746	1603.753	1261.927	917.532	645.099	483.182	411.219	382.947	375.237
62.5	2056.094	1796.512	1503.518	1166.833	835.288	585.987	436.920	364.957	334.115	323.835
65.0	1948.149	1683.427	1393.003	1066.599	758.185	532.014	388.088	321.265	290.423	277.573

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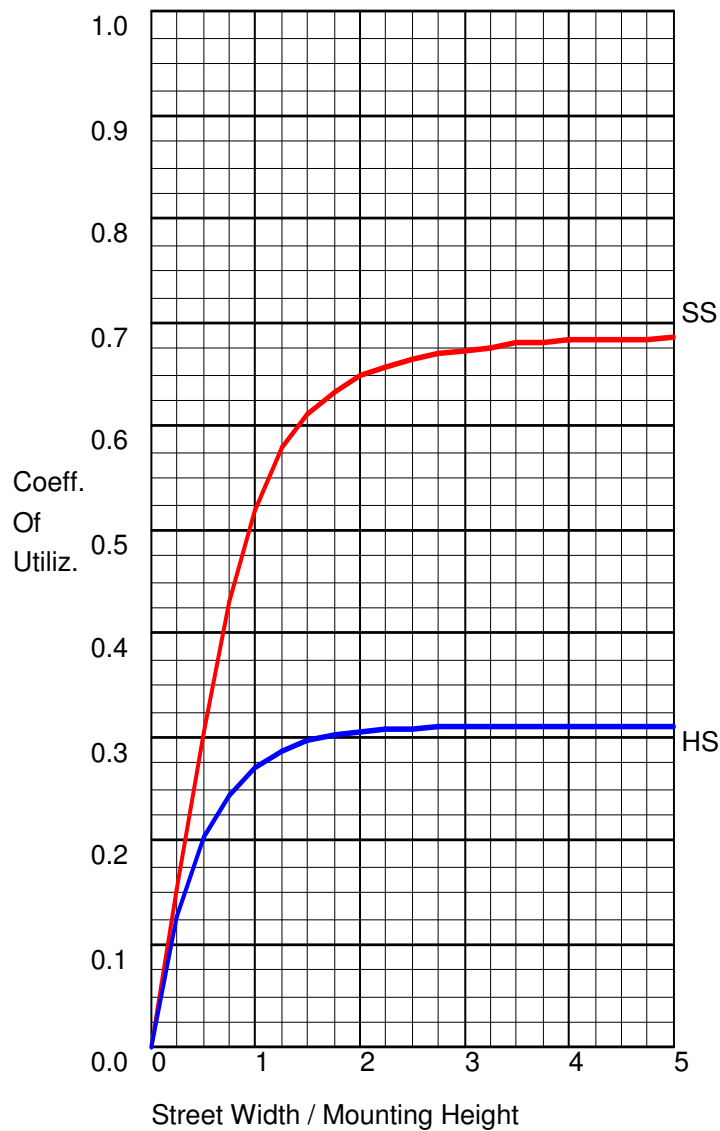
## CANDELA TABULATION - (Cont.)

67.5	1793.942	1547.210	1269.638	966.364	675.941	470.331	339.255	277.573	246.731	228.740
70.0	1598.613	1375.013	1128.281	845.568	588.557	403.508	287.853	231.311	195.329	164.487
72.5	1357.022	1169.403	958.654	717.063	493.462	331.545	226.170	172.198	131.076	89.954
75.0	1089.730	938.093	773.605	578.276	390.658	241.591	138.786	100.235	46.262	17.991
77.5	812.157	719.633	593.697	436.920	269.862	107.945	53.972	17.991	5.140	2.570
80.0	573.136	511.453	421.499	272.432	59.113	20.561	7.710	2.570	2.570	0.000
82.5	370.097	328.975	269.862	115.655	17.991	5.140	2.570	2.570	0.000	0.000
85.0	197.899	177.338	131.076	25.701	5.140	2.570	2.570	2.570	0.000	0.000
87.5	74.533	61.683	17.991	2.570	2.570	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## Vert. Horizontal Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983	2271.983
2.5	2210.301	2212.871	2207.731	2210.301	2215.441	2210.301	2202.590	2194.880
5.0	2146.048	2140.907	2130.627	2133.197	2138.337	2130.627	2128.057	2120.347
7.5	2086.935	2074.084	2053.523	2048.383	2048.383	2045.813	2040.673	2043.243
10.0	2017.542	1996.981	1968.710	1943.008	1932.728	1925.018	1917.307	1922.448
12.5	1940.438	1907.027	1863.335	1829.923	1809.362	1786.231	1788.801	1793.942
15.0	1842.774	1786.231	1729.689	1673.146	1644.875	1614.033	1616.604	1621.744
17.5	1721.978	1637.165	1565.201	1490.668	1444.406	1400.714	1395.574	1400.714
20.0	1567.771	1462.397	1364.732	1290.199	1236.226	1189.964	1174.543	1174.543
22.5	1382.723	1279.918	1195.104	1118.001	1074.309	1043.468	1022.907	1017.766
25.0	1213.095	1128.281	1058.888	1010.056	979.215	963.794	953.513	950.943
27.5	1094.870	1033.187	986.925	956.084	938.093	932.952	932.952	930.382
30.0	1020.336	976.644	948.373	932.952	935.523	938.093	945.803	940.663
32.5	963.794	943.233	935.523	943.233	958.654	968.934	979.215	979.215
35.0	917.532	920.102	930.382	950.943	968.934	989.495	1007.486	1010.056
37.5	886.690	899.541	920.102	943.233	963.794	984.355	1002.346	1004.916
40.0	850.709	868.700	896.971	925.242	950.943	976.644	997.205	997.205
42.5	804.447	832.718	876.410	912.392	945.803	971.504	989.495	994.635
45.0	765.895	804.447	850.709	878.980	909.821	938.093	956.084	963.794
47.5	722.203	758.185	794.166	825.008	842.998	868.700	876.410	881.550
50.0	668.230	693.932	717.063	737.624	742.764	763.325	765.895	765.895
52.5	593.697	614.258	629.679	634.819	637.389	645.099	647.669	642.529
55.0	519.164	532.014	537.154	537.154	534.584	542.295	547.435	537.154
57.5	439.490	444.630	449.770	449.770	452.341	454.911	457.481	454.911
60.0	377.807	375.237	382.947	382.947	385.518	388.088	385.518	385.518
62.5	321.265	321.265	321.265	318.695	313.554	313.554	313.554	313.554
65.0	272.432	264.722	249.301	236.451	233.881	223.600	223.600	223.600
67.5	210.750	190.189	164.487	141.356	113.085	66.823	53.972	51.402
70.0	133.646	95.094	46.262	28.271	20.561	12.851	12.851	12.851
72.5	41.122	17.991	10.280	7.710	5.140	5.140	5.140	5.140
75.0	7.710	5.140	2.570	2.570	2.570	2.570	2.570	2.570
77.5	2.570	2.570	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

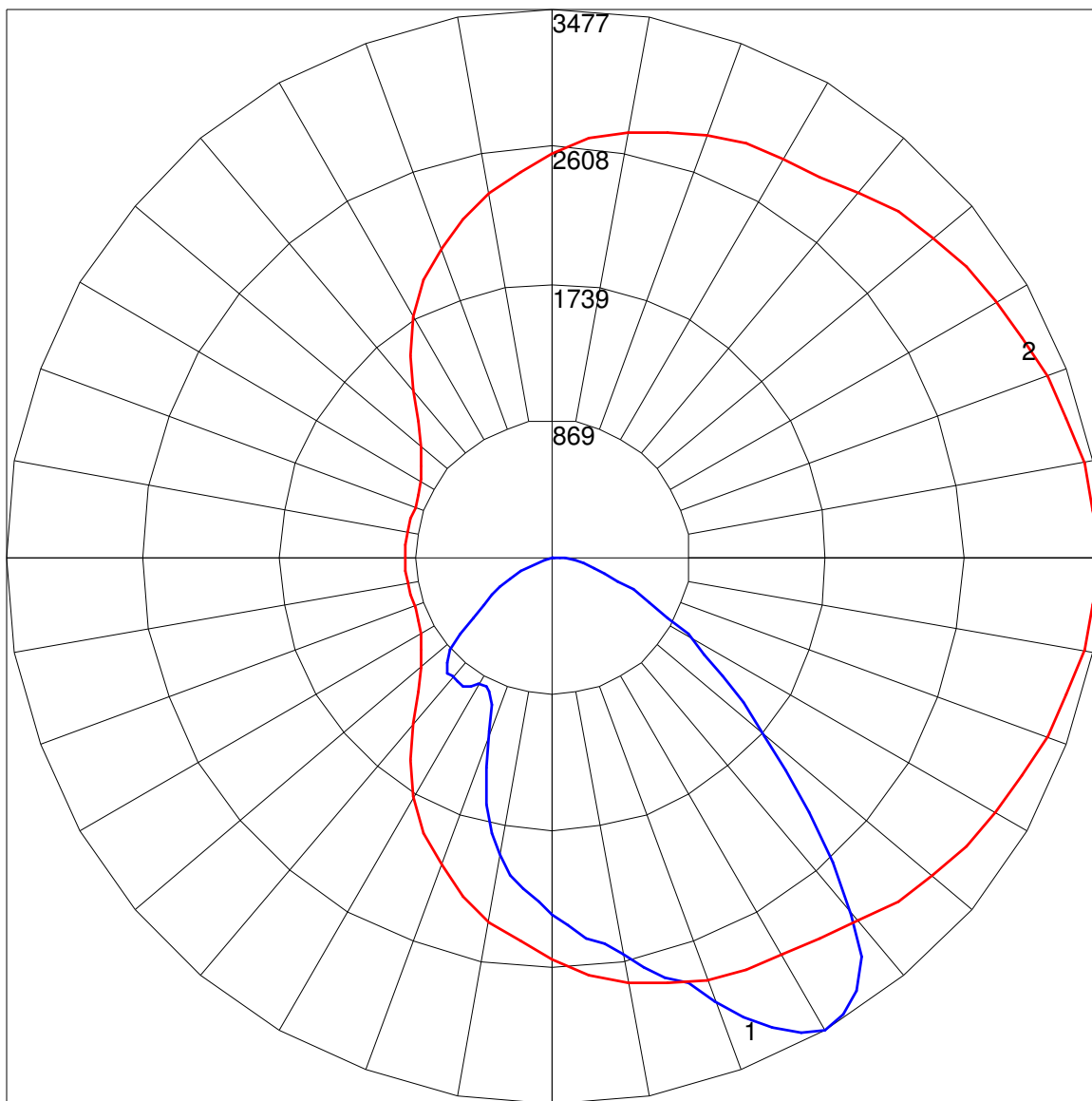
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

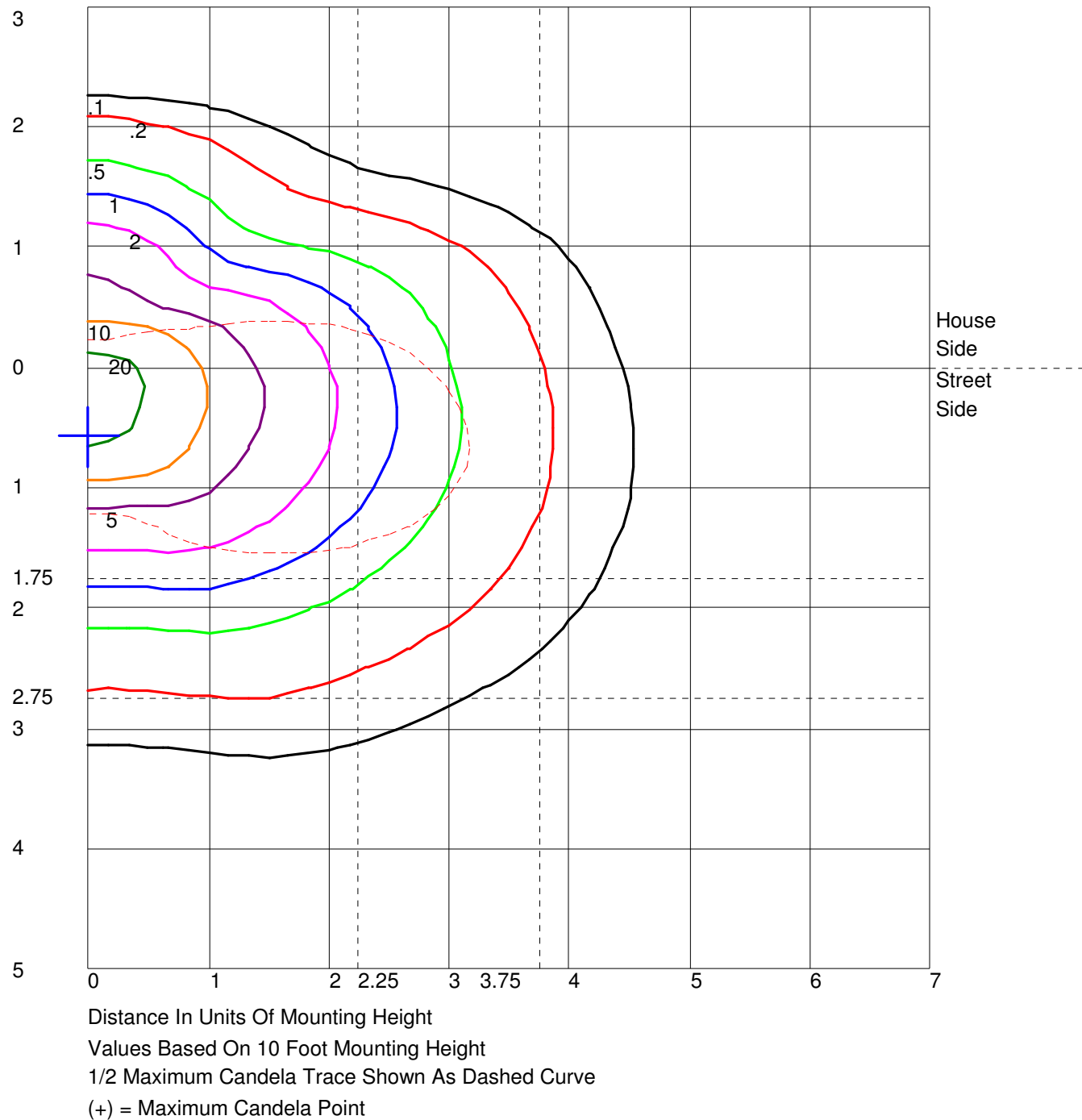
	Lumens	Percent Of Luminaire
Downward Street Side	5693.7	69.0
Downward House Side	2554.0	31.0
Downward Total	8247.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8247.7	100.0

POLAR GRAPH



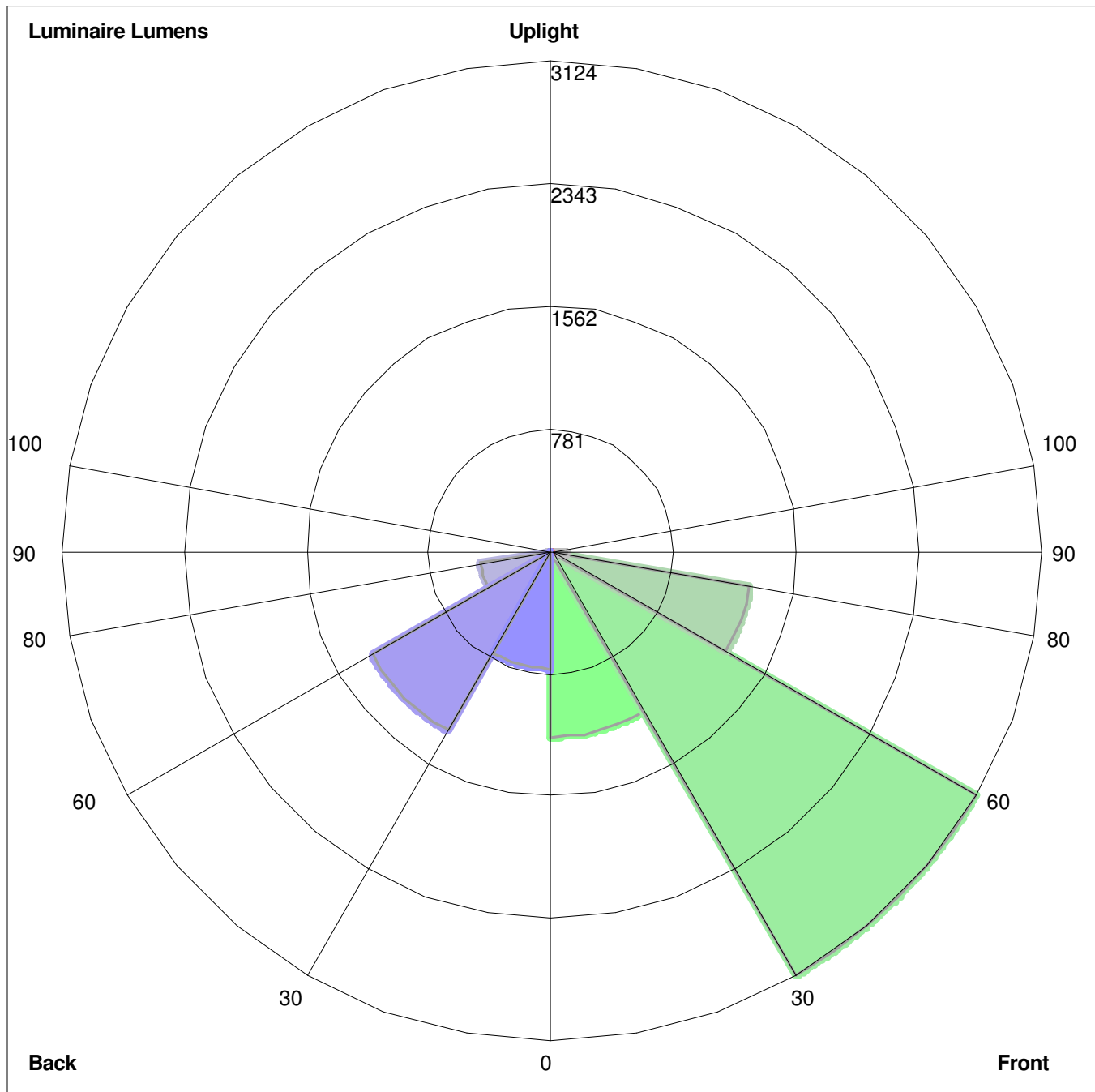
Maximum Candela = 3477.368 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1181.7, Medium=3124.3, High=1288.5, Very High=99.3  
Back: Low=747.5, Medium=1322.9, High=458.9, Very High=24.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1