



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-2-LED-18-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8721_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/22/17
[TEST DATE]03/22/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-2-LED-18-30-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12162
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	156.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14466.63
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	14466.63
Maximum Candela Angle (<90 Degrees Vertical)	80H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	601.804 (4.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1162.5	N.A.	9.6
FM - Front-Medium (30-60)	5820.4	N.A.	47.9
FH - Front-High (60-80)	3655.1	N.A.	30.1
FVH - Front-Very High (80-90)	49.7	N.A.	0.4
BL - Back-Low (0-30)	501.4	N.A.	4.1
BM - Back-Medium (30-60)	726.4	N.A.	6.0
BH - Back-High (60-80)	243.8	N.A.	2.0
BVH - Back-Very High (80-90)	2.9	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	12162.2	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251
2.5	2185.156	2182.357	2186.089	2185.156	2183.290	2166.496	2154.366	2139.438	2122.643	2116.112
5.0	2315.780	2318.580	2312.981	2307.383	2298.986	2270.995	2244.870	2211.281	2177.692	2158.098
7.5	2424.945	2427.744	2424.945	2418.414	2410.017	2384.825	2345.637	2298.986	2244.870	2215.013
10.0	2507.052	2508.918	2508.918	2511.717	2510.784	2490.257	2452.003	2402.552	2327.910	2285.924
12.5	2558.368	2556.502	2564.899	2584.493	2602.221	2596.623	2573.297	2522.913	2425.878	2374.561
15.0	2564.899	2565.833	2586.359	2628.346	2674.997	2698.323	2701.122	2652.604	2553.703	2482.793
17.5	2555.569	2557.435	2591.024	2656.336	2730.979	2795.358	2831.746	2799.090	2696.457	2619.948
20.0	2537.842	2543.440	2589.158	2677.796	2776.697	2877.465	2959.571	2957.705	2856.938	2772.965
22.5	2514.516	2519.181	2577.962	2686.193	2814.952	2952.107	3074.334	3125.651	3037.013	2949.308
25.0	2500.520	2507.052	2573.297	2700.189	2849.474	3014.620	3184.431	3300.127	3241.346	3151.775
27.5	2498.654	2507.052	2582.627	2725.381	2891.460	3079.932	3294.529	3479.269	3467.140	3380.368
30.0	2523.846	2532.243	2616.216	2771.099	2953.973	3157.374	3407.426	3660.277	3718.125	3636.018
32.5	2592.890	2599.422	2688.059	2845.742	3043.544	3256.275	3522.188	3838.485	3984.971	3926.190
35.0	2718.849	2726.314	2814.952	2958.638	3161.106	3383.167	3650.946	4017.627	4266.746	4231.291
37.5	2914.786	2921.317	2999.691	3122.851	3316.922	3551.112	3802.097	4194.903	4567.182	4565.316
40.0	3190.963	3212.422	3262.806	3353.310	3524.987	3777.839	3995.234	4370.313	4895.608	4929.198
42.5	3603.362	3586.567	3623.889	3672.406	3802.097	4046.551	4216.363	4550.387	5220.303	5322.936
45.0	4109.997	4088.538	4119.327	4116.528	4181.841	4396.437	4521.463	4737.926	5555.261	5775.456
47.5	4681.945	4695.007	4720.199	4722.998	4745.391	4892.809	4947.858	4954.389	5962.062	6266.230
50.0	5140.062	5163.388	5287.481	5366.789	5486.216	5669.090	5561.792	5239.897	6408.983	6854.038
52.5	5276.285	5308.008	5536.600	5831.438	6215.846	6663.700	6482.693	5642.965	6948.274	7563.141
55.0	4926.398	4955.322	5274.419	5785.719	6536.808	7621.922	7839.318	6262.497	7632.185	8449.520
57.5	4021.359	4059.614	4386.174	5047.692	6115.079	8100.567	9516.906	7218.853	8462.582	9603.678
60.0	2438.007	2390.423	2832.679	3648.147	4870.417	7537.016	11150.642	8661.318	9591.548	11003.223
62.5	875.182	853.722	1072.051	1733.570	2946.509	5624.305	11924.124	10598.288	10898.724	12559.517
65.0	407.734	422.663	467.448	631.661	1207.341	2708.586	11253.275	12204.033	12226.425	13904.946
67.5	289.239	297.637	311.632	369.480	576.613	1045.927	8351.552	12369.179	12976.581	14466.630
70.0	191.271	194.070	208.999	263.114	413.332	570.081	4080.140	10079.523	12110.730	12802.105
72.5	110.098	109.165	107.298	155.816	306.967	440.390	1480.719	6256.899	8624.929	7898.099
75.0	55.982	56.915	55.982	80.241	177.276	349.886	611.135	3108.856	4079.207	2528.511
77.5	40.120	41.053	40.120	48.518	78.375	234.191	346.154	1178.417	1320.237	682.045
80.0	41.053	41.986	38.254	41.986	50.384	92.370	191.271	406.801	601.804	379.743
82.5	39.187	40.120	35.455	37.321	44.785	72.776	104.499	222.061	333.092	251.918
85.0	26.125	27.991	27.058	31.723	38.254	64.379	109.165	172.611	219.262	164.213
87.5	10.263	10.263	11.196	14.928	20.527	41.053	100.767	198.735	154.883	97.035
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>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251	2100.251
2.5	2107.715	2096.518	2094.652	2084.389	2075.059	2061.063	2048.934	2038.671	2030.273	2025.608
5.0	2136.639	2111.447	2096.518	2061.996	2031.206	1996.684	1965.894	1943.502	1924.841	1914.578
7.5	2180.491	2141.304	2111.447	2048.001	1991.086	1937.903	1894.984	1866.993	1847.399	1837.136
10.0	2236.473	2180.491	2133.840	2036.805	1950.966	1881.922	1839.935	1813.810	1785.819	1755.029
12.5	2306.450	2231.808	2165.563	2028.407	1912.712	1829.672	1773.690	1656.128	1504.977	1374.353
15.0	2394.155	2298.053	2206.616	2020.943	1876.323	1750.364	1545.098	1240.930	971.284	792.142
17.5	2502.386	2379.227	2259.799	2020.943	1824.074	1548.830	1114.038	745.491	515.033	422.663
20.0	2630.212	2478.128	2326.977	2024.675	1725.172	1224.135	695.107	436.658	360.150	333.092
22.5	2792.559	2596.623	2410.950	2029.340	1554.428	860.254	442.256	351.752	318.163	300.436
25.0	2973.567	2740.309	2510.784	2018.144	1303.443	566.349	369.480	322.828	295.771	278.043
27.5	3183.498	2924.116	2626.479	1980.823	1012.338	428.261	342.422	302.302	274.311	255.650

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CANDELA TABULATION - (Cont.)

30.0	3424.220	3120.052	2761.769	1911.778	740.826	382.542	321.895	282.708	252.851	234.191
32.5	3686.402	3337.448	2908.255	1783.020	545.823	358.284	300.436	258.449	227.659	204.334
35.0	3992.435	3577.237	3072.468	1593.615	443.189	336.824	276.177	234.191	195.003	160.481
37.5	4318.996	3843.151	3237.614	1362.224	396.538	311.632	248.186	200.601	146.486	110.098
40.0	4677.279	4135.189	3410.225	1090.712	366.681	283.641	219.262	153.950	96.102	67.178
42.5	5071.018	4456.151	3580.036	838.794	337.757	255.650	181.941	103.566	56.915	38.254
45.0	5509.542	4808.837	3735.852	615.800	309.766	223.927	134.356	62.513	30.790	18.661
47.5	6015.244	5205.374	3861.811	466.515	280.842	189.405	89.571	34.522	13.062	6.531
50.0	6603.986	5650.430	3950.449	390.940	250.985	149.285	55.049	16.795	5.598	3.732
52.5	7347.611	6151.467	3974.708	376.944	219.262	108.231	30.790	6.531	2.799	2.799
55.0	8196.669	6710.352	3926.190	393.739	191.271	73.709	14.928	3.732	2.799	3.732
57.5	9223.935	7406.392	3708.794	419.864	172.611	47.585	7.464	2.799	2.799	3.732
60.0	10504.052	8039.920	3324.386	421.730	167.012	32.656	4.665	3.732	3.732	6.531
62.5	11741.250	8455.118	2735.644	369.480	148.352	27.058	5.598	3.732	6.531	10.263
65.0	12413.031	8254.516	1973.358	266.847	103.566	24.259	7.464	4.665	8.397	13.062
67.5	11772.973	7075.167	1196.144	156.749	55.049	17.728	7.464	5.598	7.464	6.531
70.0	9384.416	4861.086	585.943	95.169	29.857	13.062	6.531	5.598	4.665	2.799
72.5	4920.800	2449.204	300.436	57.848	15.862	8.397	5.598	3.732	1.866	0.933
75.0	1418.206	764.152	195.003	26.125	9.330	5.598	3.732	1.866	0.000	0.000
77.5	458.118	342.422	136.222	10.263	5.598	3.732	1.866	0.000	0.000	0.000
80.0	294.837	207.133	83.973	5.598	3.732	2.799	0.000	0.000	0.000	0.000
82.5	174.477	121.294	45.718	5.598	3.732	0.933	0.000	0.000	0.000	0.000
85.0	108.231	71.843	18.661	3.732	0.933	0.933	0.933	0.000	0.000	0.000
87.5	55.982	29.857	4.665	0.933	0.933	0.933	0.933	0.933	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
Angles

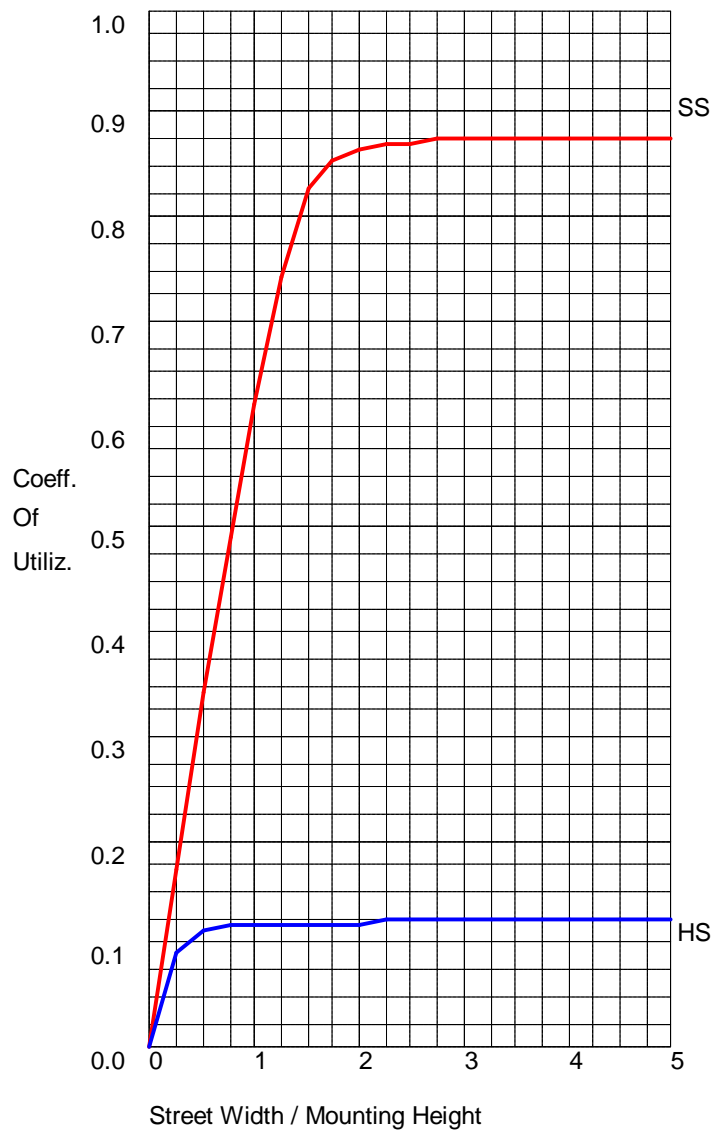
	175	180
0.0	2100.251	2100.251
2.5	2024.675	2021.876
5.0	1908.979	1904.314
7.5	1827.806	1825.940
10.0	1727.972	1730.771
12.5	1292.247	1304.376
15.0	700.706	660.585
17.5	383.475	380.676
20.0	319.096	319.096
22.5	292.038	292.038
25.0	268.713	267.780
27.5	245.387	244.454
30.0	222.061	220.195
32.5	188.472	186.606
35.0	144.620	140.888
37.5	96.102	94.236
40.0	55.982	56.915
42.5	31.723	29.857
45.0	13.995	13.062
47.5	3.732	2.799
50.0	0.933	0.000
52.5	0.933	0.000
55.0	1.866	1.866
57.5	2.799	1.866
60.0	5.598	5.598
62.5	9.330	9.330
65.0	12.129	12.129

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CANDELA TABULATION - (Cont.)

67.5	3.732	2.799
70.0	0.933	0.000
72.5	0.000	0.000
75.0	0.000	0.000
77.5	0.000	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

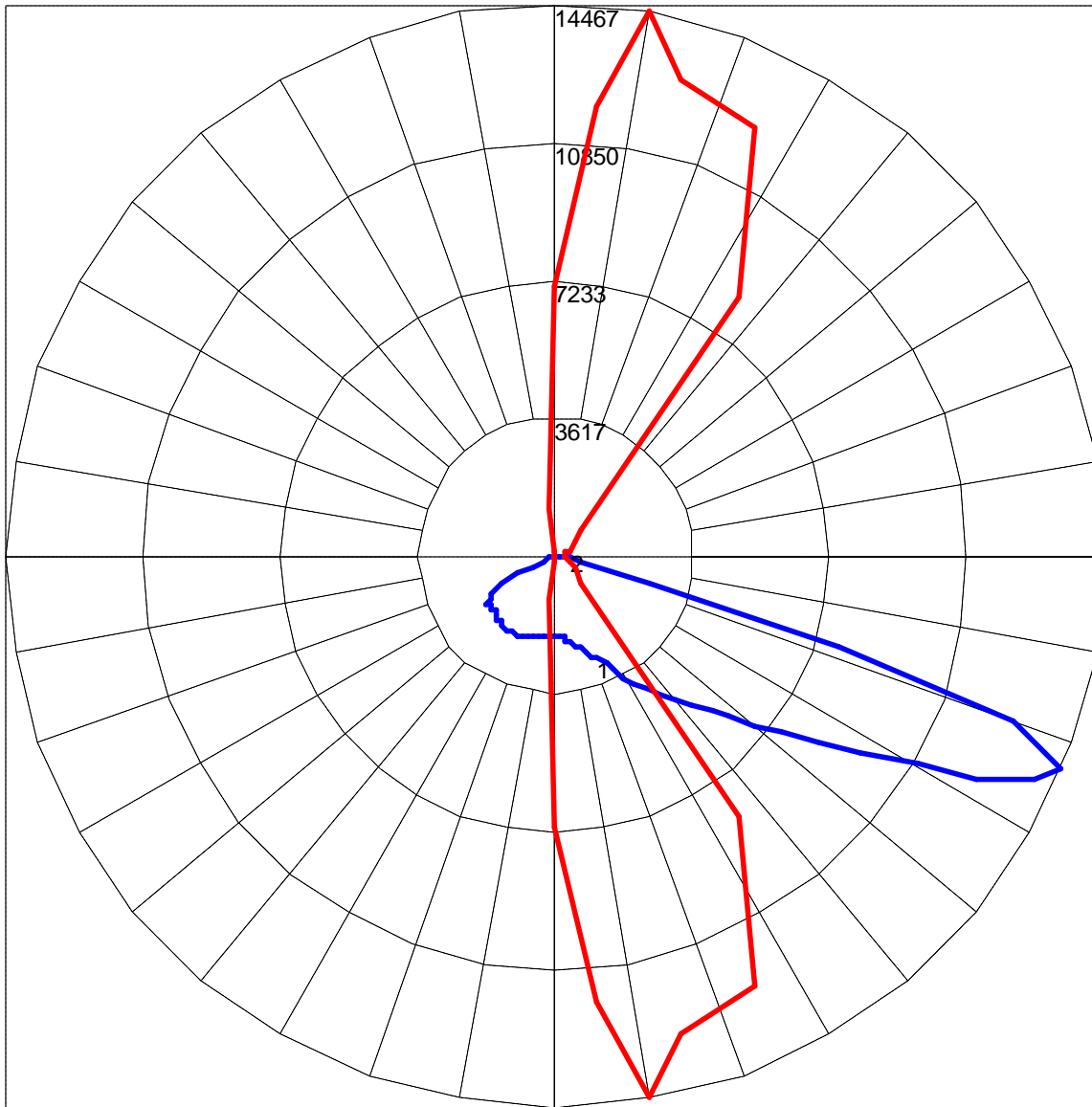
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

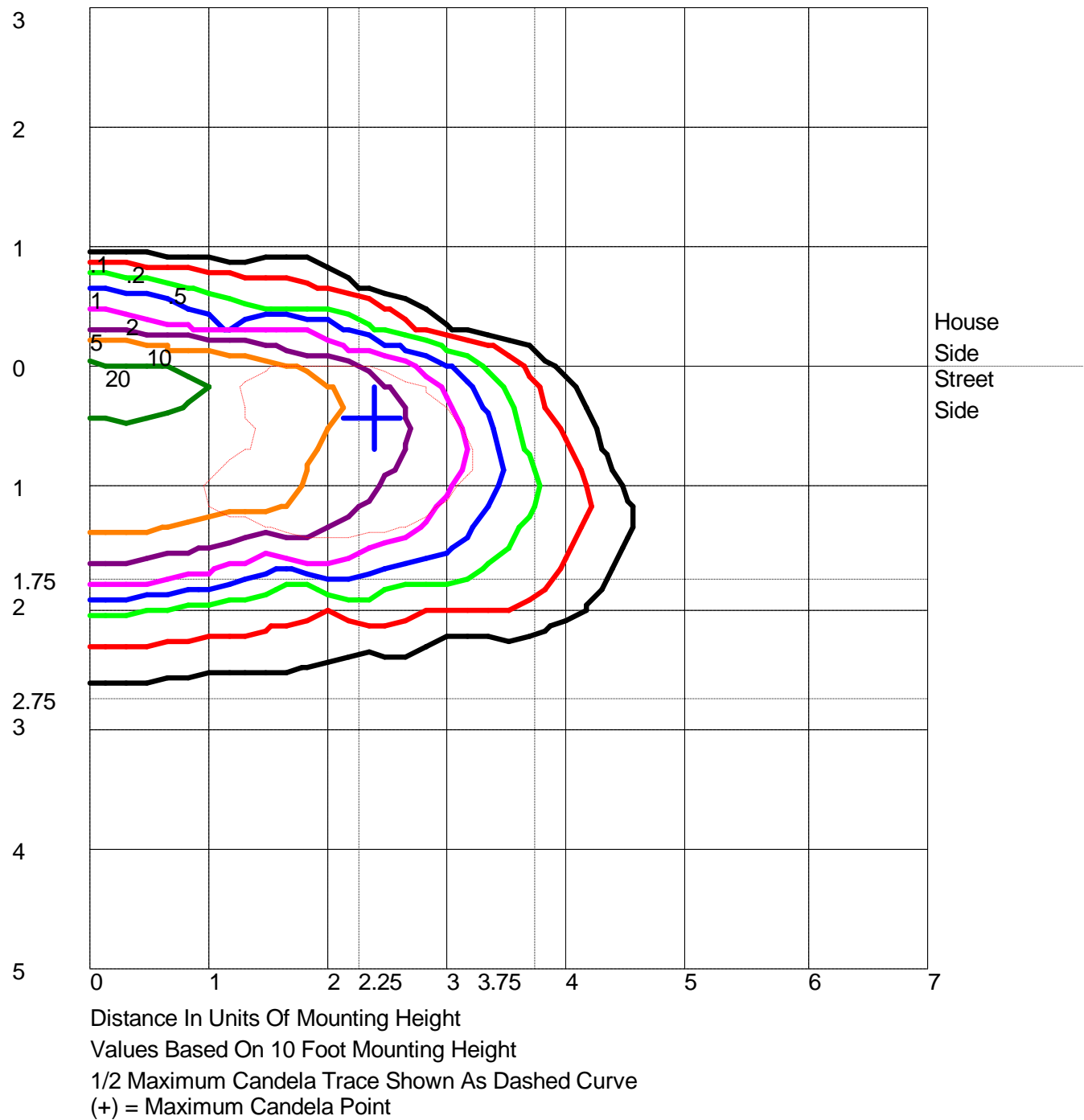
	Lumens	Percent Of Luminaire
Downward Street Side	10687.7	87.9
Downward House Side	1474.5	12.1
Downward Total	12162.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12162.2	100.0

POLAR GRAPH

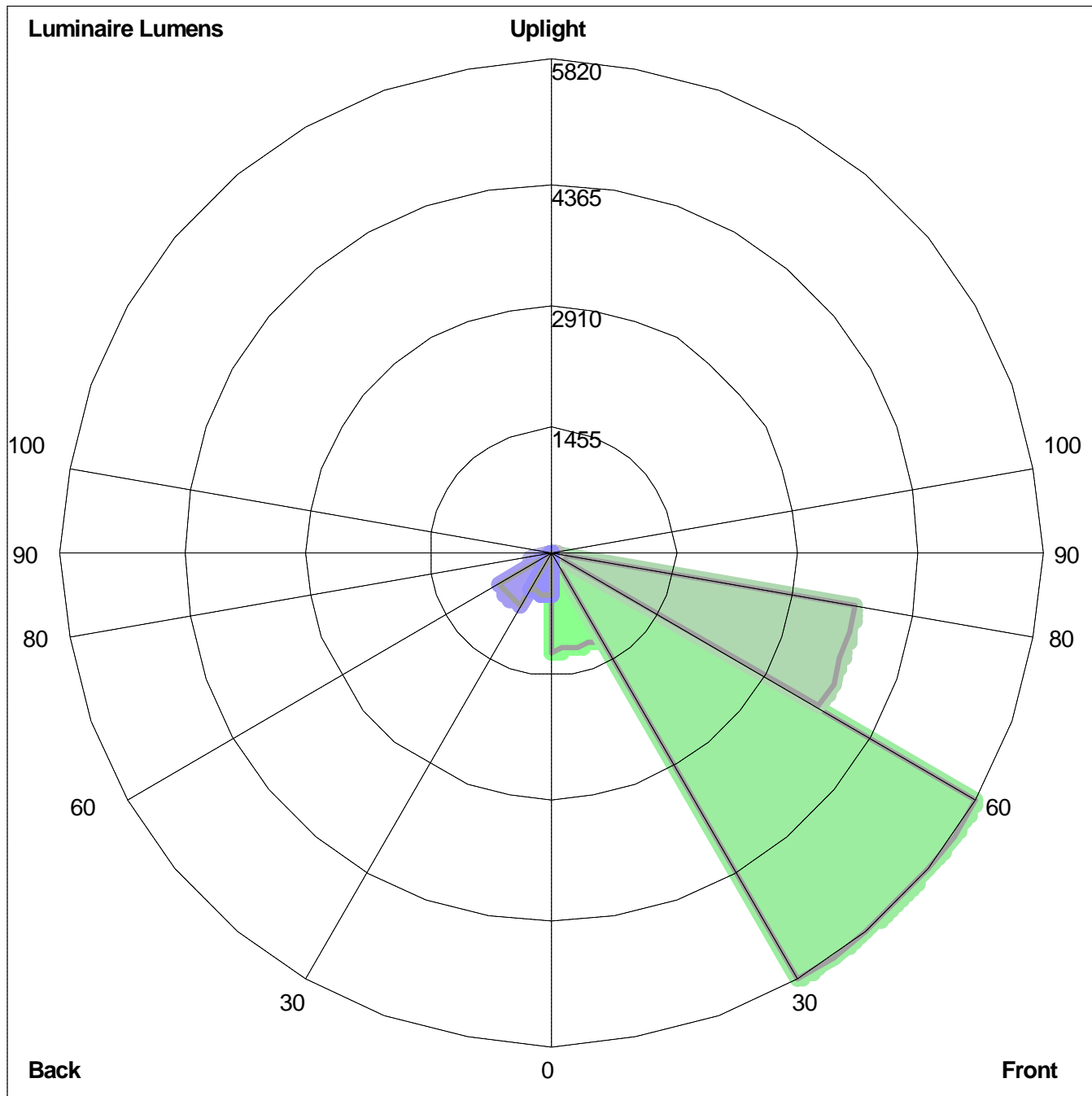


Maximum Candela = 14466.63 Located At Horizontal Angle = 80, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1162.5, Medium=5820.4, High=3655.1, Very High=49.7
Back: Low=501.4, Medium=726.4, High=243.8, Very High=2.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2