



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FTA-LED-LW-CW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5285A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XGBM-FTA-LED-LW-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]Tested with new Flat Black HSS Shield
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11440
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	136.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12146
Maximum Candela Angle	22.5H 60V
Maximum Candela (<90 Degrees Vertical)	12146
Maximum Candela Angle (<90 Degrees Vertical)	22.5H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1077 (9.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1031.8	N.A.	9.0
FM - Front-Medium (30-60)	5113.4	N.A.	44.7
FH - Front-High (60-80)	3660.6	N.A.	32.0
FVH - Front-Very High (80-90)	80.5	N.A.	0.7
BL - Back-Low (0-30)	699.3	N.A.	6.1
BM - Back-Medium (30-60)	723.1	N.A.	6.3
BH - Back-High (60-80)	128.5	N.A.	1.1
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	11440.1	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2563	2563	2563	2563	2563	2563	2563	2563	2563	2563
2.5	2489	2502	2506	2513	2506	2511	2515	2519	2516	2520
5.0	2340	2347	2356	2367	2379	2400	2413	2435	2457	2488
7.5	2327	2334	2331	2299	2296	2264	2302	2361	2402	2454
10.0	2271	2279	2285	2298	2313	2344	2340	2263	2351	2424
12.5	2223	2228	2237	2241	2254	2279	2313	2360	2294	2421
15.0	2202	2207	2214	2217	2228	2243	2263	2336	2373	2425
17.5	2198	2204	2207	2210	2213	2224	2241	2320	2468	2447
20.0	2232	2234	2210	2209	2217	2218	2241	2333	2489	2482
22.5	2453	2469	2475	2438	2370	2222	2230	2326	2520	2624
25.0	2465	2475	2480	2481	2474	2458	2235	2332	2598	2886
27.5	2471	2485	2503	2487	2494	2496	2410	2391	2690	3091
30.0	2478	2487	2500	2504	2513	2519	2587	2508	2753	3155
32.5	2828	2813	2660	2516	2520	2563	2706	2759	2768	3106
35.0	3034	3041	3010	2911	2877	2622	2858	2965	2712	2993
37.5	3232	3241	3182	3110	3119	3038	2974	3010	2656	2886
40.0	3604	3608	3466	3325	3349	3460	3061	3046	2663	2740
42.5	4347	4333	4121	3847	3809	3750	3564	3047	2858	2595
45.0	5111	5084	4849	4734	4659	4118	3762	3027	2823	2500
47.5	6099	6065	5729	5698	5583	4917	3892	3320	2786	2424
50.0	7512	7481	7094	6935	6768	5691	4256	3526	2767	2377
52.5	8652	8649	8548	8771	8678	6669	4873	3578	2768	2389
55.0	9265	9291	9284	10036	10017	8222	5563	3815	2895	2553
57.5	10552	10604	10568	11006	10837	9537	6793	4402	3203	2515
60.0	9903	10003	10840	12146	12098	10374	8279	4906	3167	2406
62.5	8222	8347	9649	11062	11350	11528	9143	5471	3043	2212
65.0	5170	5332	6980	8525	9252	10827	9940	6392	2967	1985
67.5	2509	2589	3436	4553	5395	8878	9506	6445	3134	1831
70.0	1094	1144	1568	2058	2464	5200	7010	6458	3641	1595
72.5	343	359	449	772	1138	2668	3733	5255	3819	1417
75.0	155	153	178	470	746	1239	1533	3010	3424	1228
77.5	115	118	136	352	476	640	469	1041	2284	1195
80.0	104	107	126	187	237	324	228	304	837	1077
82.5	102	105	116	127	130	167	158	188	199	552
85.0	107	108	112	124	126	126	126	134	117	103
87.5	110	110	114	126	128	126	113	90	63	27
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	2563	2563	2563	2563	2563	2563	2563	2563	2563	2563
2.5	2536	2536	2544	2563	2580	2589	2616	2627	2634	2640
5.0	2521	2539	2558	2590	2617	2621	2633	2626	2625	2623
7.5	2516	2542	2567	2614	2610	2607	2607	2592	2564	2559
10.0	2509	2555	2591	2621	2606	2584	2543	2500	2374	2243
12.5	2532	2587	2630	2631	2600	2531	2348	2126	1993	1896
15.0	2564	2638	2696	2682	2593	2370	2045	1832	1644	1492
17.5	2596	2680	2751	2730	2592	2121	1793	1473	1179	977
20.0	2645	2738	2812	2751	2440	1925	1484	1025	726	547
22.5	2714	2818	2893	2789	2259	1716	1071	618	398	307
25.0	2851	2929	3003	2846	2143	1410	717	381	252	226
27.5	3009	3056	3110	2928	2021	1065	476	266	221	198
30.0	3104	3140	3164	2808	1852	799	351	241	199	165
32.5	3061	3080	3080	2550	1594	607	314	227	157	136
35.0	2974	3019	3018	2340	1281	540	327	191	145	125
37.5	2913	2975	2971	2162	1024	564	355	182	137	113
40.0	2837	2935	2939	1950	809	628	356	174	112	77
42.5	2711	2895	2903	1724	632	604	340	157	88	74
45.0	2600	2805	2816	1464	507	520	281	125	84	63
47.5	2494	2752	2764	1205	415	408	207	139	61	31
50.0	2467	2727	2735	970	349	310	161	134	20	7
52.5	2507	2707	2679	802	295	238	154	83	14	2
55.0	2461	2492	2416	678	258	168	101	35	8	0
57.5	2369	2292	2193	573	243	157	38	13	0	0
60.0	2229	2130	1943	449	212	105	8	2	0	0
62.5	1934	1888	1595	352	146	36	5	0	0	0
65.0	1703	1609	1280	271	114	10	3	0	0	0
67.5	1496	1394	1006	220	62	7	0	0	0	0
70.0	1270	1141	735	181	24	6	0	0	0	0
72.5	981	857	468	130	11	3	0	0	0	0
75.0	726	601	282	65	10	2	0	0	0	0
77.5	448	384	151	22	6	2	0	0	0	0

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CANDELA TABULATION - (Cont.)

80.0	310	252	73	11	6	2	0	0	0	0
82.5	156	112	29	9	5	1	0	0	0	0
85.0	76	45	10	9	5	2	0	0	0	0
87.5	16	10	7	7	5	3	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2563	2563
2.5	2637	2671
5.0	2624	2657
7.5	2551	2581
10.0	2200	2222
12.5	1848	1865
15.0	1409	1417
17.5	860	877
20.0	465	461
22.5	273	270
25.0	215	217

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CANDELA TABULATION - (Cont.)

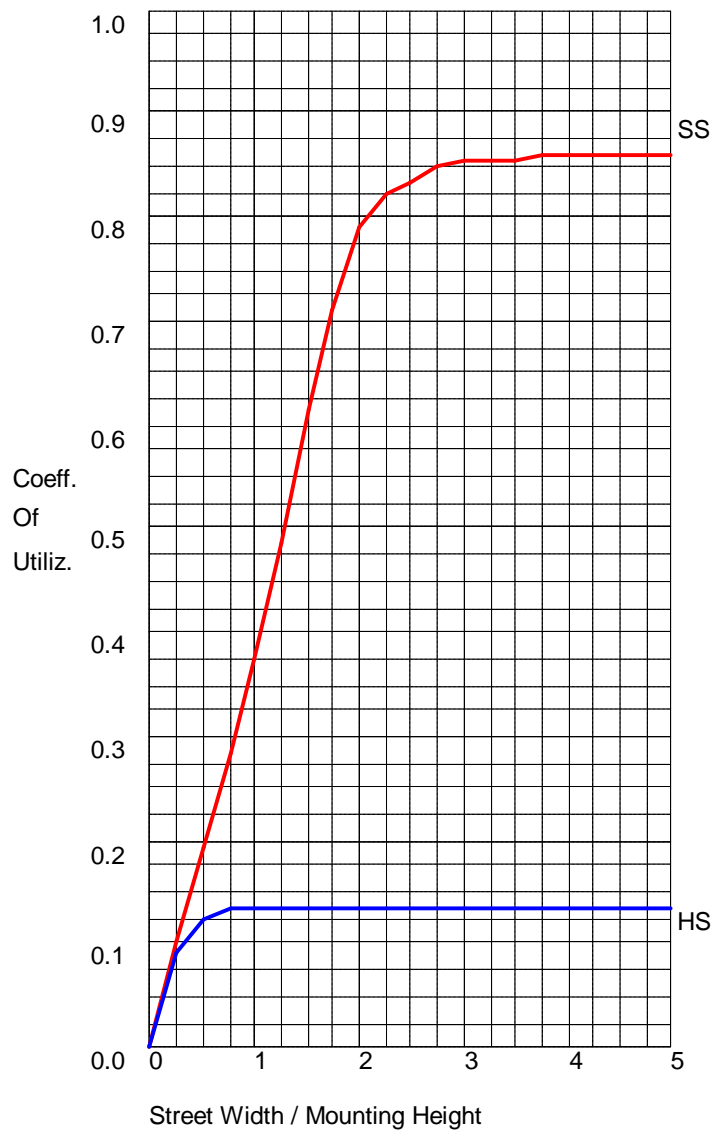
27.5	188	189
30.0	146	146
32.5	128	128
35.0	116	114
37.5	93	87
40.0	74	71
42.5	72	68
45.0	52	43
47.5	17	9
50.0	0	0
52.5	0	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0

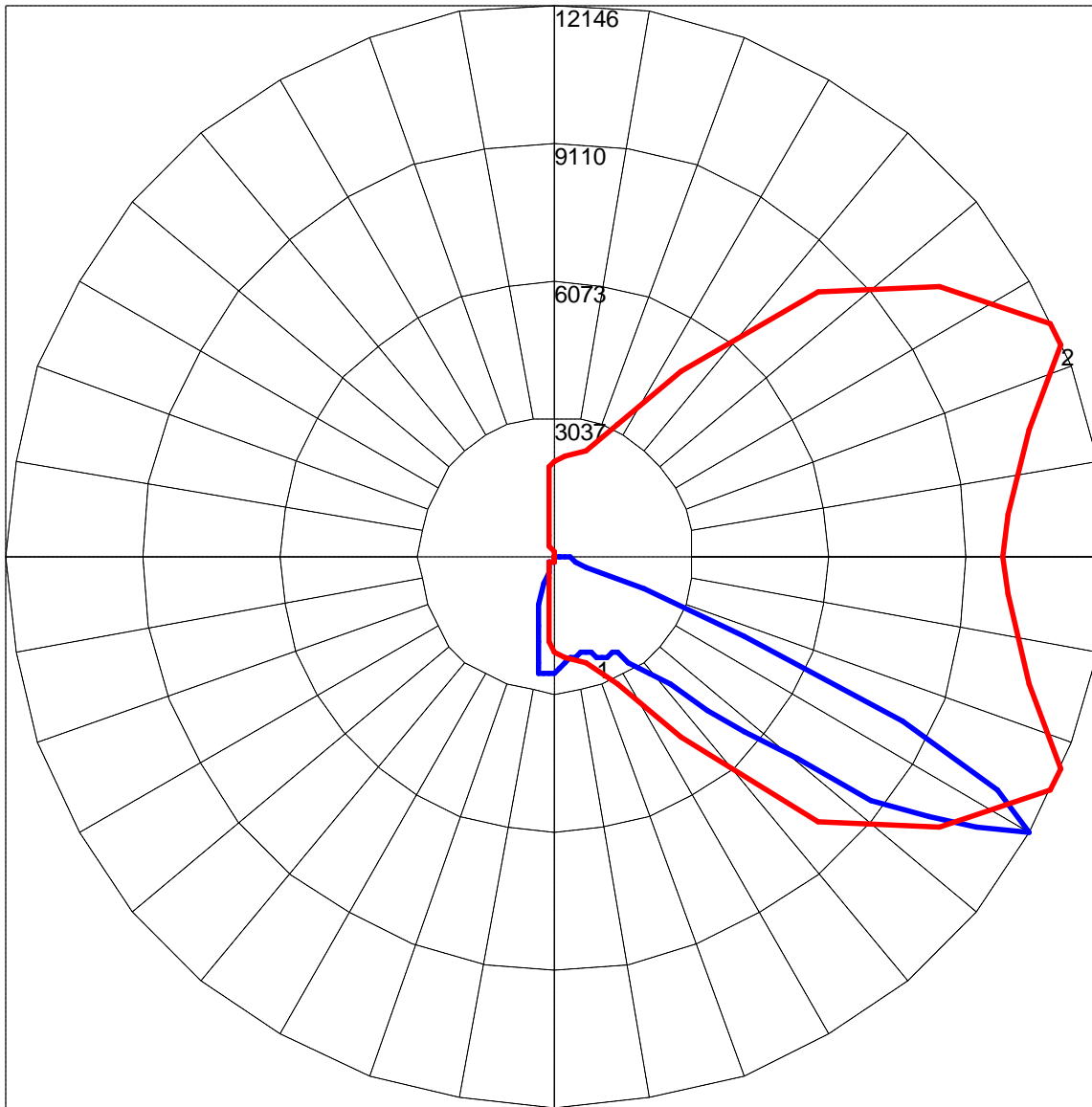
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

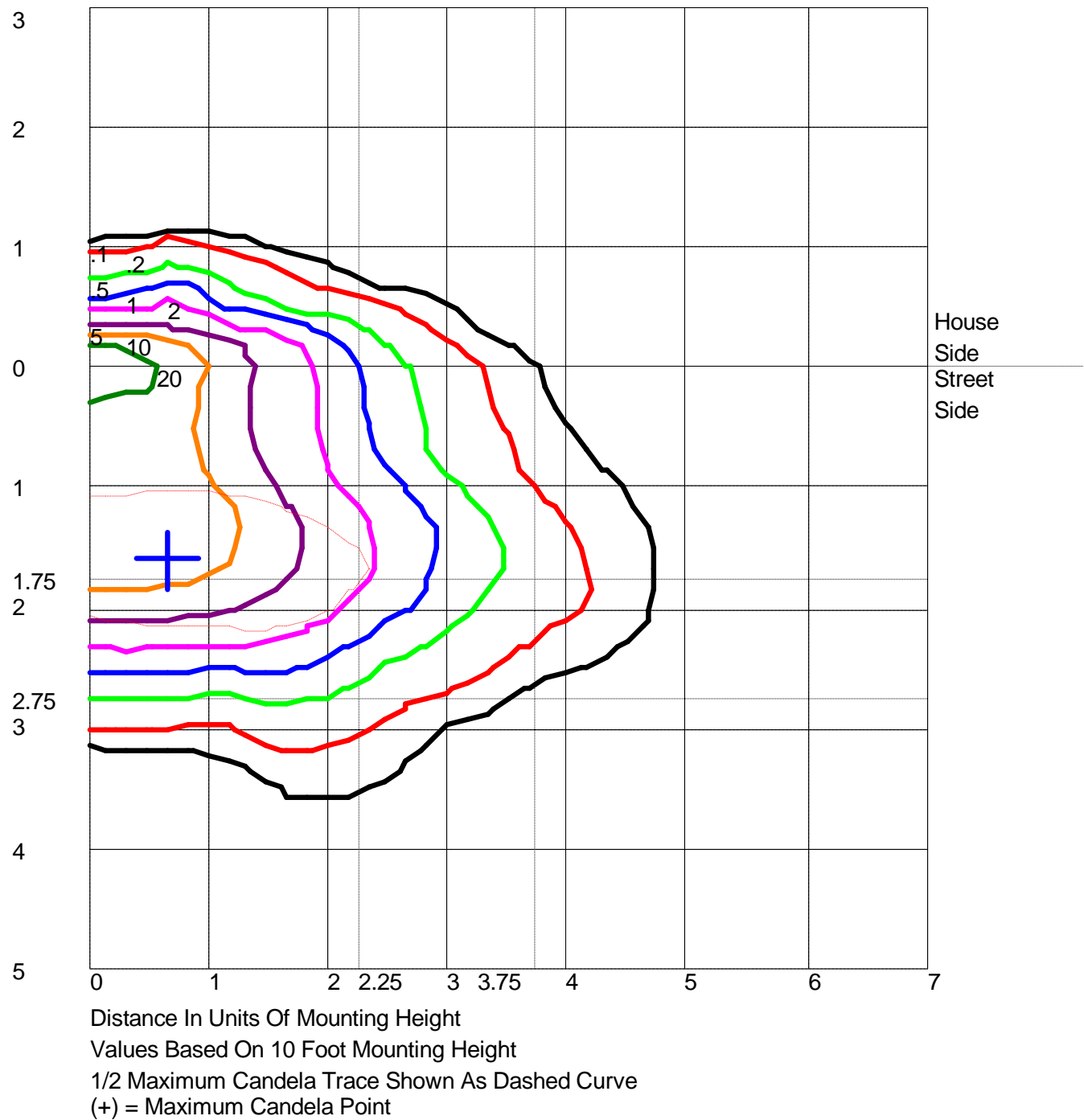
	Lumens	Percent Of Luminaire
Downward Street Side	9886.3	86.4
Downward House Side	1553.8	13.6
Downward Total	11440.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11440.1	100.0

POLAR GRAPH

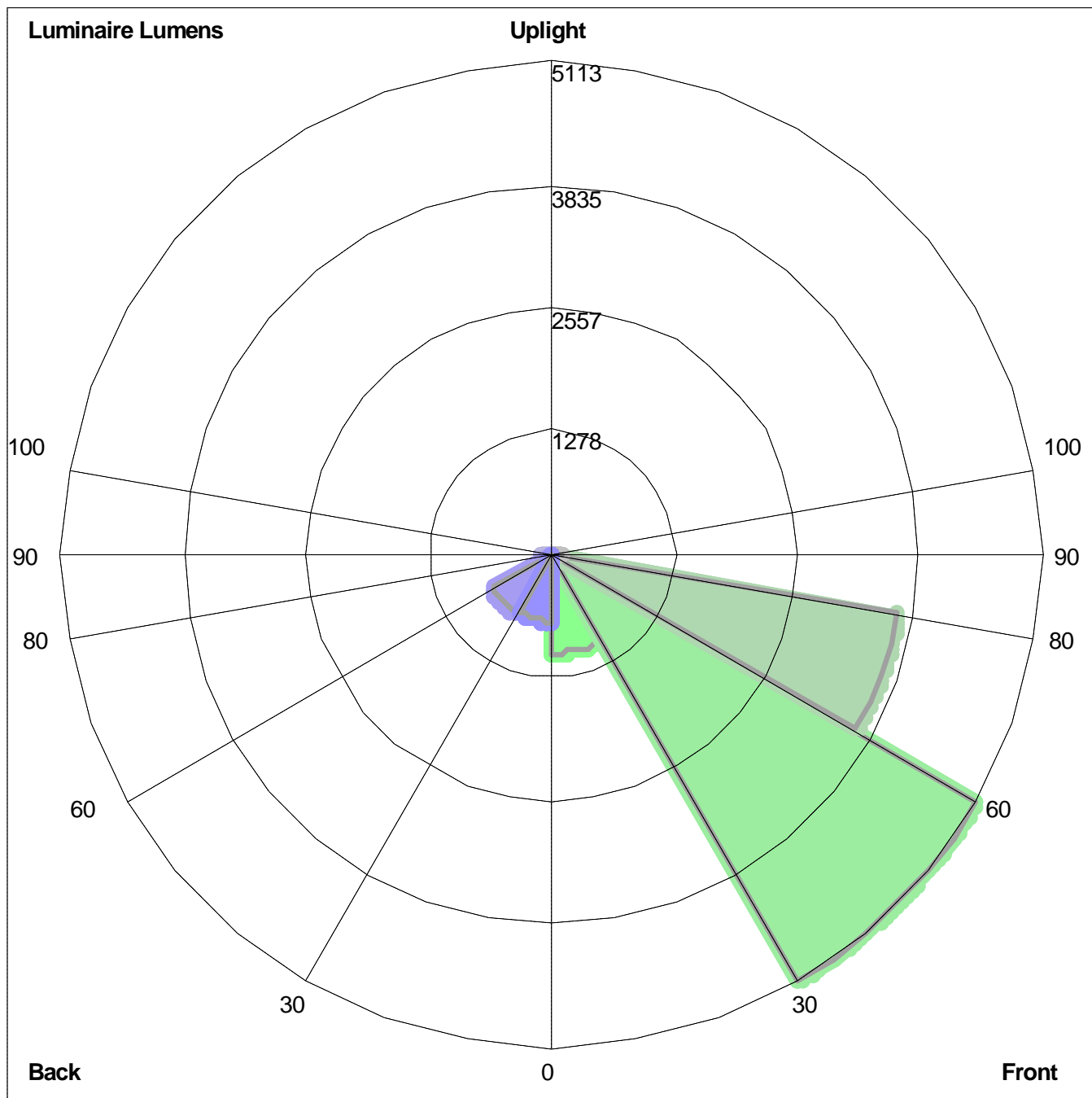


Maximum Candela = 12146 Located At Horizontal Angle = 22.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1031.8, Medium=5113.4, High=3660.6, Very High=80.5
Back: Low=699.3, Medium=723.1, High=128.5, Very High=2.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2