



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XGBM-3-LED-SS-CW-HSS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-5004A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/16  
[TEST DATE]03/30/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XGBM-3-LED-SS-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13034
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	186.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9451
Maximum Candela Angle	45H 57.5V
Maximum Candela (<90 Degrees Vertical)	9451
Maximum Candela Angle (<90 Degrees Vertical)	45H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	936 (7.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1480.6	N.A.	11.4
FM - Front-Medium (30-60)	6691.4	N.A.	51.3
FH - Front-High (60-80)	3222.7	N.A.	24.7
FVH - Front-Very High (80-90)	93.7	N.A.	0.7
BL - Back-Low (0-30)	578.5	N.A.	4.4
BM - Back-Medium (30-60)	739.1	N.A.	5.7
BH - Back-High (60-80)	221.5	N.A.	1.7
BVH - Back-Very High (80-90)	6.1	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	13033.6	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>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954
2.5	1964	1971	1967	1966	1966	1984	1992	1996	2000	1993
5.0	1957	1957	1967	1995	2040	2112	2133	2174	2219	2234
7.5	2141	2128	2145	2181	2214	2292	2303	2356	2462	2543
10.0	2316	2308	2372	2490	2636	2733	2731	2706	2726	2818
12.5	2544	2558	2656	2831	3009	3138	3163	3204	2979	2951
15.0	2772	2802	3032	3319	3507	3459	3435	3398	3274	3001
17.5	3017	3060	3403	3840	3975	3804	3711	3498	3404	3042
20.0	3258	3342	3879	4354	4408	4112	3955	3636	3406	3087
22.5	3323	3435	4205	4887	4800	4323	4200	3764	3359	3133
25.0	3301	3438	4354	5127	5111	4529	4366	3908	3303	3080
27.5	3277	3432	4492	5182	5220	4847	4664	4090	3356	2984
30.0	3301	3498	4679	5225	5194	5029	4884	4322	3497	2983
32.5	3465	3737	5158	5369	5161	5041	5015	4720	3733	3058
35.0	3618	3958	5575	5792	5144	4974	4985	4948	4047	3224
37.5	3709	4128	5746	5861	5444	4950	4949	5096	4413	3508
40.0	4012	4511	5963	5776	5754	5259	5068	5152	5006	3862
42.5	4716	5298	6583	6083	6071	5827	5551	5330	5544	4344
45.0	5275	5910	7046	6712	6604	6472	6273	5740	6069	4732
47.5	5918	6612	7458	7068	7262	7310	7093	6411	6275	5002
50.0	6123	6875	7756	7561	7612	8209	7989	7161	6412	5341
52.5	5553	6301	7100	7662	8248	8894	8837	7830	6601	5640
55.0	5558	6259	6872	7073	8500	9187	9196	8550	6828	5711
57.5	4347	4930	5574	6724	8000	9451	9338	8892	6965	5796
60.0	3918	4374	4761	5377	7572	8746	9055	8595	6813	5668
62.5	2298	2733	3450	4759	6216	8176	8263	8120	6761	5591
65.0	1755	1858	1990	2977	5525	6697	7372	7657	6939	5549
67.5	893	904	1329	2244	3413	6311	6496	7372	6375	4940
70.0	207	236	305	801	2652	5078	5788	6221	5318	4414
72.5	162	182	246	436	1602	4251	4443	5032	4342	3461
75.0	136	144	217	348	1352	2939	3257	3428	3002	2592
77.5	114	118	172	230	831	1780	1952	2149	1958	1747
80.0	102	109	134	169	428	795	897	933	936	676
82.5	98	105	123	133	203	314	326	302	310	249
85.0	101	109	122	133	149	152	146	133	108	90
87.5	111	116	136	150	168	155	140	95	71	51
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

**IES ROAD REPORT**  
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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	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954
2.5	2006	1996	1988	1978	1968	1937	1923	1898	1883	1873
5.0	2249	2236	2211	2163	2097	1993	1899	1798	1707	1660
7.5	2550	2531	2487	2401	2242	2059	1918	1793	1671	1577
10.0	2848	2815	2755	2593	2364	2182	2057	1890	1601	1412
12.5	2990	2946	2874	2643	2443	2308	1990	1700	1413	1190
15.0	3041	2978	2874	2597	2460	2140	1796	1452	1157	923
17.5	3024	2952	2785	2508	2384	1864	1477	1132	858	636
20.0	2985	2905	2680	2429	2032	1514	1083	736	576	475
22.5	2915	2820	2599	2378	1806	1210	729	514	472	367
25.0	2810	2711	2543	2330	1590	927	525	438	369	330
27.5	2685	2602	2503	2234	1363	679	475	378	348	306
30.0	2613	2544	2481	2001	1136	544	396	362	328	279
32.5	2640	2563	2493	1858	915	509	387	338	290	250
35.0	2744	2668	2556	1736	745	438	380	301	268	239
37.5	2892	2837	2699	1634	657	432	347	261	251	216
40.0	3090	3043	2875	1538	639	413	311	224	210	183
42.5	3364	3303	3061	1433	587	381	272	198	162	155
45.0	3591	3427	3197	1319	523	344	223	156	131	109
47.5	3782	3569	3279	1163	497	299	184	114	102	83
50.0	3880	3635	3334	1019	471	255	143	87	63	49
52.5	3797	3528	3269	943	424	223	111	62	35	20
55.0	3565	3401	3134	848	332	223	84	38	22	14
57.5	3279	3234	2860	724	276	185	60	24	18	10
60.0	3078	3053	2651	602	231	145	38	18	10	8
62.5	3004	2981	2533	463	176	71	27	14	8	4
65.0	2900	2833	2369	382	121	41	20	10	6	1
67.5	2573	2447	1997	260	91	36	16	8	1	0
70.0	2405	2124	1602	174	45	33	12	4	2	0
72.5	1902	1566	1107	110	31	28	8	4	2	0
75.0	1500	1151	664	70	27	22	9	4	2	1
77.5	1040	719	326	32	28	20	8	4	2	1

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**CANDELA TABULATION - (Cont.)**

80.0	439	303	123	24	29	16	8	5	3	2
82.5	162	103	50	18	23	11	8	5	4	2
85.0	50	30	16	13	12	10	8	6	4	3
87.5	24	12	10	10	11	10	8	6	5	3
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	1954	1954
2.5	1865	1869
5.0	1623	1621
7.5	1516	1515
10.0	1296	1279
12.5	1023	1013
15.0	758	745
17.5	490	472
20.0	376	357
22.5	293	284
25.0	257	245

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XGBM-3-LED-SS-CW-HSS.IES**

**CANDELA TABULATION - (Cont.)**

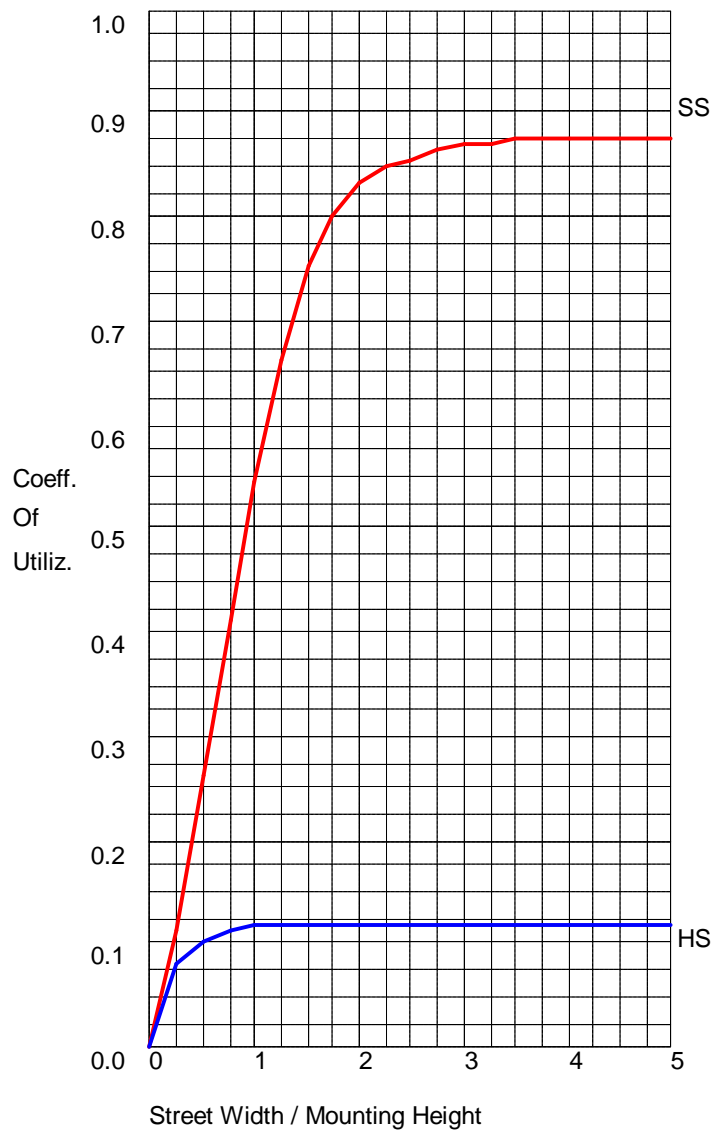
27.5	231	213
30.0	198	180
32.5	177	160
35.0	171	153
37.5	150	134
40.0	126	112
42.5	100	89
45.0	74	64
47.5	57	50
50.0	27	24
52.5	15	14
55.0	12	12
57.5	9	8
60.0	7	7
62.5	2	2
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	1	0
87.5	1	1
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	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

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XGBM-3-LED-SS-CW-HSS.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

COEFFICIENTS OF UTILIZATION

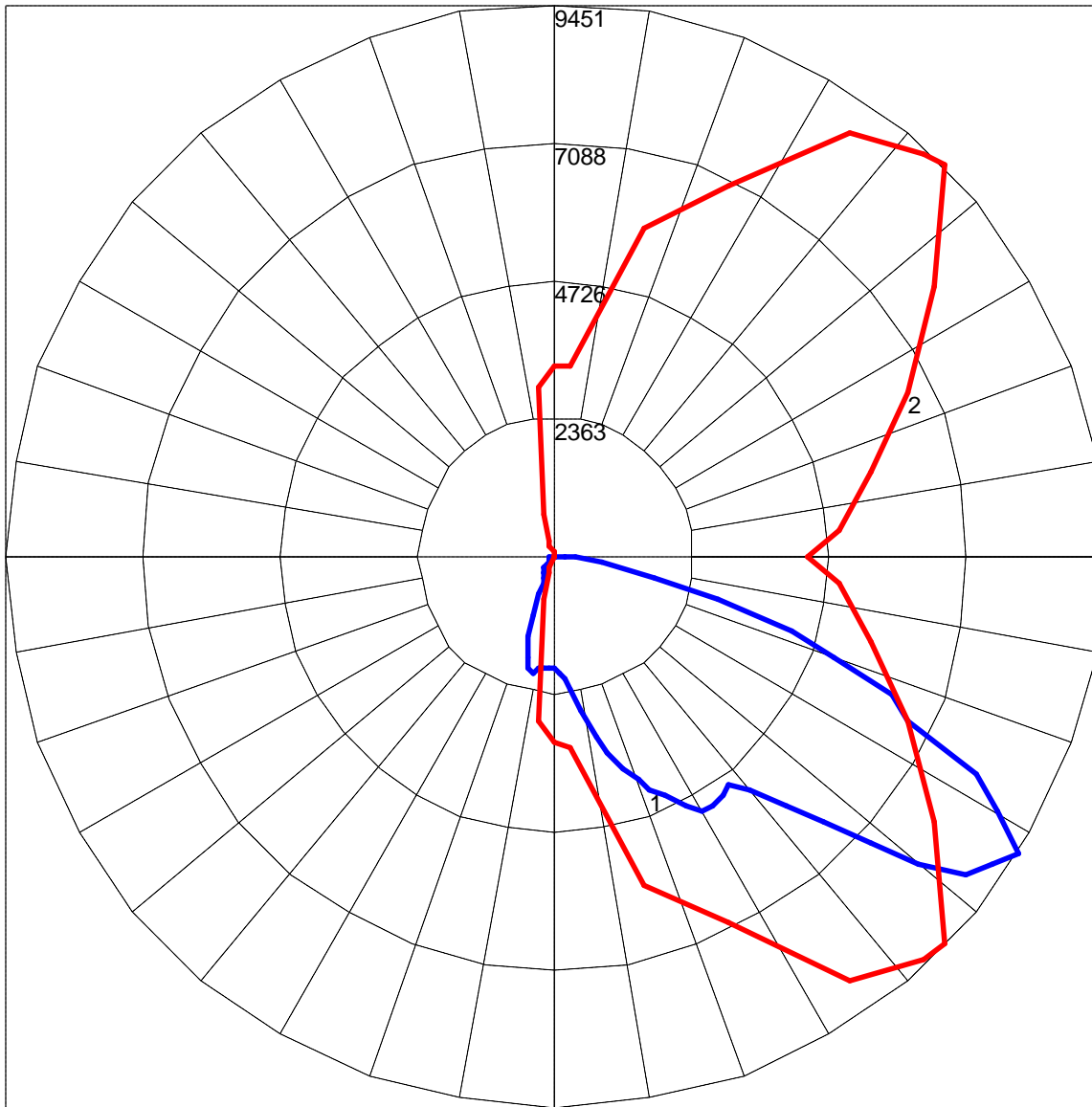


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11488.5	88.1
Downward House Side	1545.1	11.9
Downward Total	13033.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	13033.6	100.0

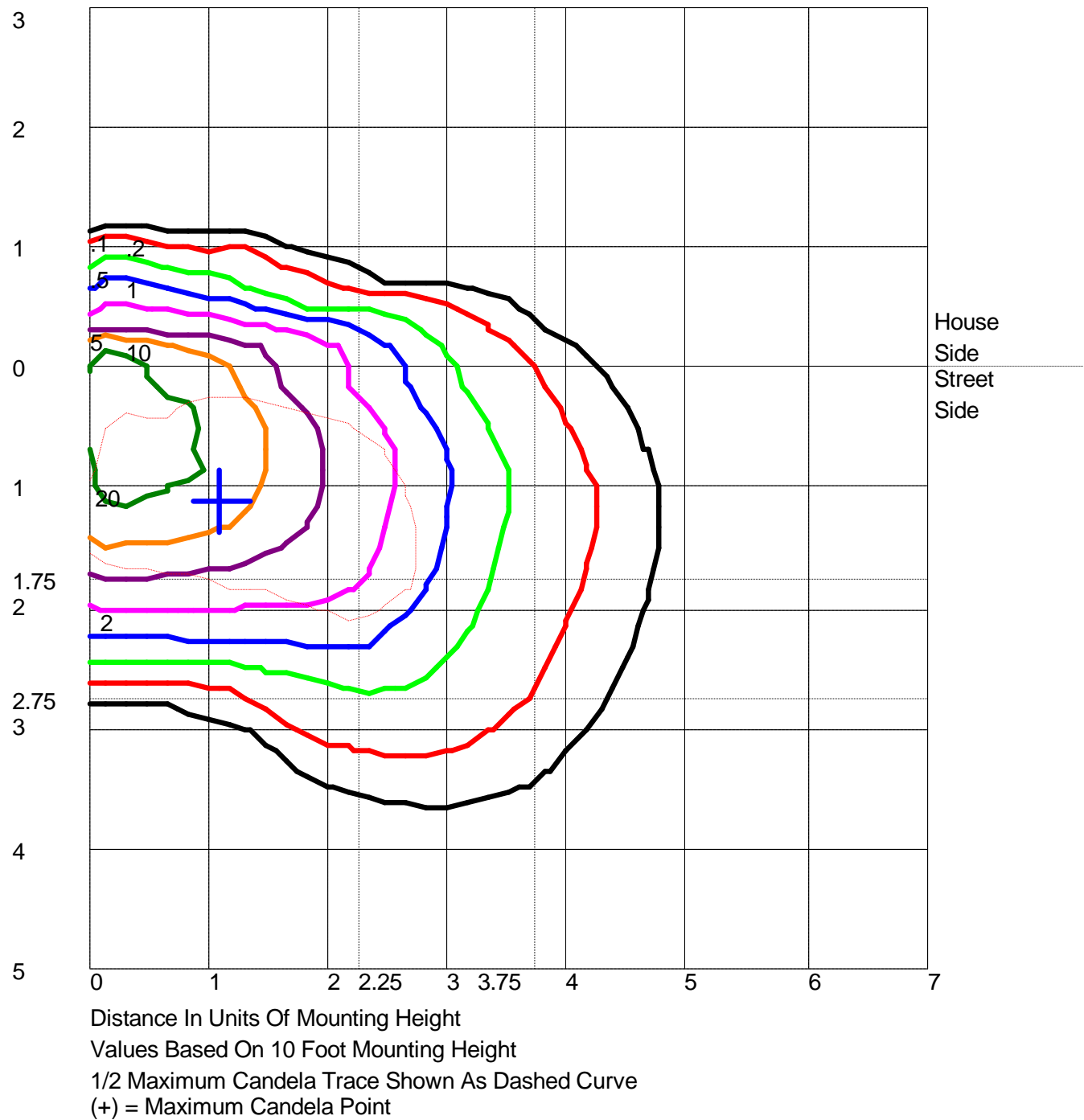


POLAR GRAPH

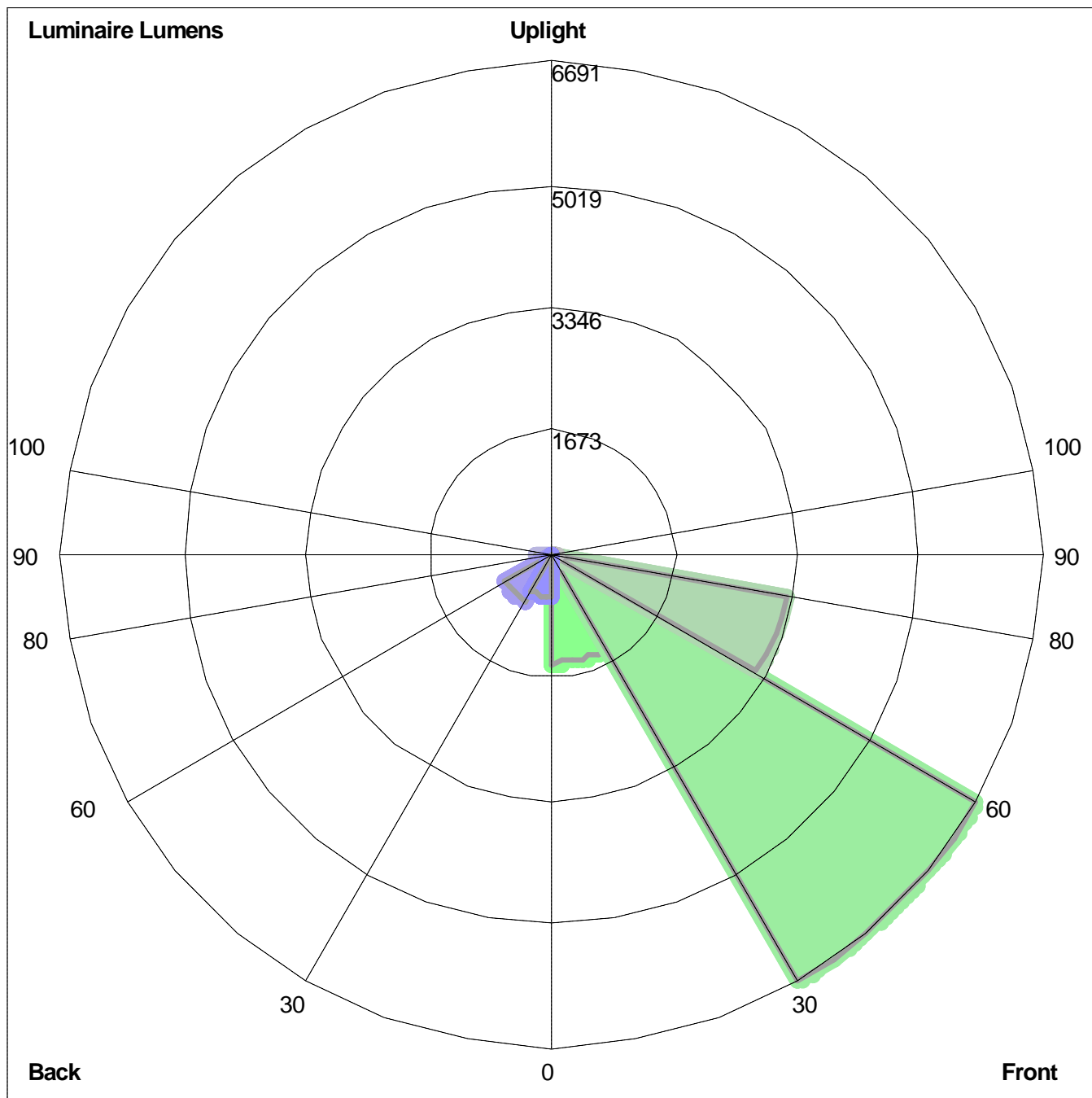


Maximum Candela = 9451 Located At Horizontal Angle = 45, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1480.6, Medium=6691.4, High=3222.7, Very High=93.7  
Back: Low=578.5, Medium=739.1, High=221.5, Very High=6.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2