



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XGBM-FT-LED-SS-NW-HSS.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5343A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/16  
[TEST DATE]03/30/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XGBM-FT-LED-SS-NW-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 IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12597
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	189
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9658
Maximum Candela Angle	15H 65V
Maximum Candela (<90 Degrees Vertical)	9658
Maximum Candela Angle (<90 Degrees Vertical)	15H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2633 (20.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1200.4	N.A.	9.5
FM - Front-Medium (30-60)	5363.9	N.A.	42.6
FH - Front-High (60-80)	5130.9	N.A.	40.7
FVH - Front-Very High (80-90)	298.6	N.A.	2.4
BL - Back-Low (0-30)	210.3	N.A.	1.7
BM - Back-Medium (30-60)	295.6	N.A.	2.3
BH - Back-High (60-80)	91.0	N.A.	0.7
BVH - Back-Very High (80-90)	6.4	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	12597.1	N.A.	100.0
BUG Rating	B1-U0-G3		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>17.5</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	769	769	769	769	769	769	769	769	769	769
2.5	813	826	819	820	810	799	792	780	771	764
5.0	1036	1024	1004	1000	966	920	885	844	812	783
7.5	1735	1734	1605	1590	1462	1299	1137	993	889	824
10.0	2649	2655	2519	2497	2331	2075	1685	1296	1032	881
12.5	3479	3491	3391	3322	3165	2864	2439	1880	1296	977
15.0	3901	3945	3913	3885	3818	3576	3106	2492	1682	1131
17.5	3849	3902	3970	3987	4048	3984	3708	3056	2207	1331
20.0	3690	3730	3791	3809	3891	4026	4053	3601	2709	1552
22.5	3716	3776	3864	3874	3826	3857	4139	4029	3181	1853
25.0	3525	3587	3677	3686	3712	3901	4019	4285	3665	2204
27.5	3154	3213	3310	3347	3523	3810	4023	4389	4099	2520
30.0	3036	3076	3097	3115	3202	3667	4158	4343	4408	2832
32.5	3346	3365	3201	3149	3154	3432	4079	4332	4536	3123
35.0	3577	3617	3574	3560	3521	3407	3746	4346	4461	3280
37.5	3910	3938	3817	3793	3814	3759	3512	4141	4190	3453
40.0	4683	4679	4407	4353	4198	4103	3488	3731	4012	3716
42.5	5624	5616	5380	5252	5048	4419	3910	3397	3997	3912
45.0	6485	6501	6271	6206	6180	5140	4087	3305	3752	3884
47.5	6990	7028	6975	7048	7203	6187	4441	3494	3439	3760
50.0	7700	7767	7837	7900	7857	7031	5131	3681	3095	3613
52.5	7581	7685	8167	8414	8695	7525	5984	3815	2900	3380
55.0	7551	7651	8161	8369	8612	8149	6494	4251	2905	3242
57.5	7662	7735	8174	8401	8523	8084	6719	4886	3063	2940
60.0	7717	7788	8517	8747	8668	7938	7044	5337	3019	2590
62.5	8250	8296	8997	9093	8707	7988	6872	5395	3134	2205
65.0	8729	8822	9658	9628	9160	8028	6720	5467	3386	1902
67.5	8391	8522	9410	9489	9497	8478	6562	5059	3607	1826
70.0	8066	8213	8766	8740	8809	8561	6543	4802	3710	1791
72.5	6597	6725	7313	7361	8283	7768	6502	4659	3457	1799
75.0	4439	4573	4955	5185	6241	6616	5860	4558	3121	1755
77.5	2939	2949	3137	3242	3767	4443	4435	3833	2786	1693
80.0	1206	1249	1464	1560	2164	2453	2403	2633	2355	1406
82.5	580	603	644	704	773	866	1020	1234	1408	935
85.0	170	171	183	193	190	239	335	364	449	509
87.5	155	156	171	175	176	165	144	114	90	100
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	769	769	769	769	769	769	769	769	769	769
2.5	757	755	753	752	749	748	747	747	746	751
5.0	766	760	752	735	712	696	681	678	677	677
7.5	784	771	758	716	682	666	658	643	622	612
10.0	808	790	767	704	675	647	608	589	561	538
12.5	851	825	788	706	669	609	567	512	480	467
15.0	919	875	825	731	652	583	499	465	426	399
17.5	985	929	869	758	654	532	467	405	357	332
20.0	1038	961	886	759	635	512	417	350	302	273
22.5	1081	979	885	739	592	482	378	303	262	240
25.0	1108	983	878	729	570	435	324	262	234	217
27.5	1139	994	881	737	549	395	291	238	216	201
30.0	1173	1006	897	709	523	352	270	223	190	173
32.5	1201	1002	894	683	495	328	255	203	175	170
35.0	1186	950	845	641	451	312	242	187	174	175
37.5	1159	897	791	599	393	295	214	190	173	132
40.0	1213	901	763	552	352	279	217	195	118	91
42.5	1305	919	760	503	327	232	218	146	92	87
45.0	1387	933	765	466	313	202	209	106	90	76
47.5	1489	935	768	435	294	193	138	100	76	68
50.0	1617	954	769	402	269	192	113	83	68	58
52.5	1745	990	777	365	232	144	95	71	55	43
55.0	1802	990	758	337	218	107	77	56	40	34
57.5	1792	944	718	315	215	103	65	40	31	24
60.0	1772	895	678	287	165	91	50	30	24	17
62.5	1805	851	618	264	122	81	39	23	16	11
65.0	1772	797	567	229	117	62	30	16	10	0
67.5	1680	774	515	204	103	46	22	9	0	0
70.0	1468	691	442	156	84	33	15	2	0	0
72.5	1275	602	362	122	60	22	7	2	0	0
75.0	994	517	283	123	42	12	6	2	0	0
77.5	836	379	201	100	29	10	6	2	0	0

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**CANDELA TABULATION - (Cont.)**

80.0	529	262	139	72	18	9	5	1	0	0
82.5	295	147	71	43	12	8	5	2	0	0
85.0	181	58	39	14	10	8	5	2	0	0
87.5	68	13	12	10	9	7	5	2	1	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	769	769
2.5	749	750
5.0	675	675
7.5	610	611
10.0	525	518
12.5	455	454
15.0	380	378
17.5	313	313
20.0	260	259
22.5	228	227
25.0	208	207

IES ROAD REPORT  
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CANDELA TABULATION - (Cont.)

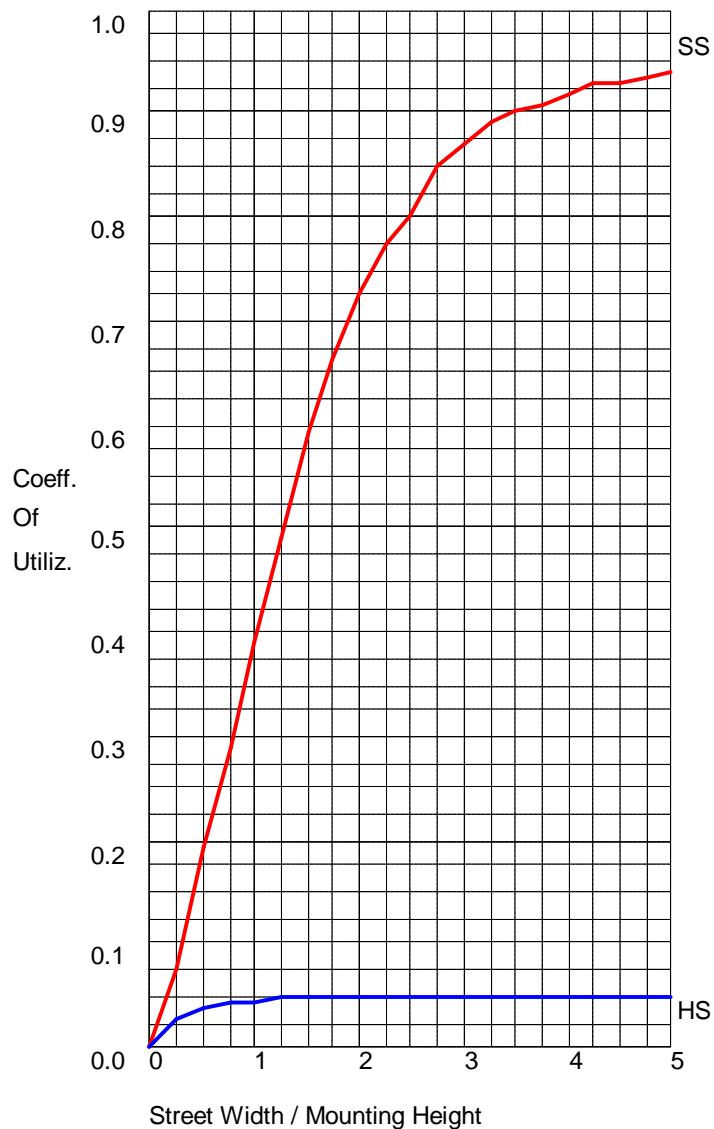
27.5	190	189
30.0	169	169
32.5	168	167
35.0	167	165
37.5	108	106
40.0	81	80
42.5	79	76
45.0	65	63
47.5	58	56
50.0	47	45
52.5	36	34
55.0	27	26
57.5	21	20
60.0	14	14
62.5	9	8
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	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.)**

<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

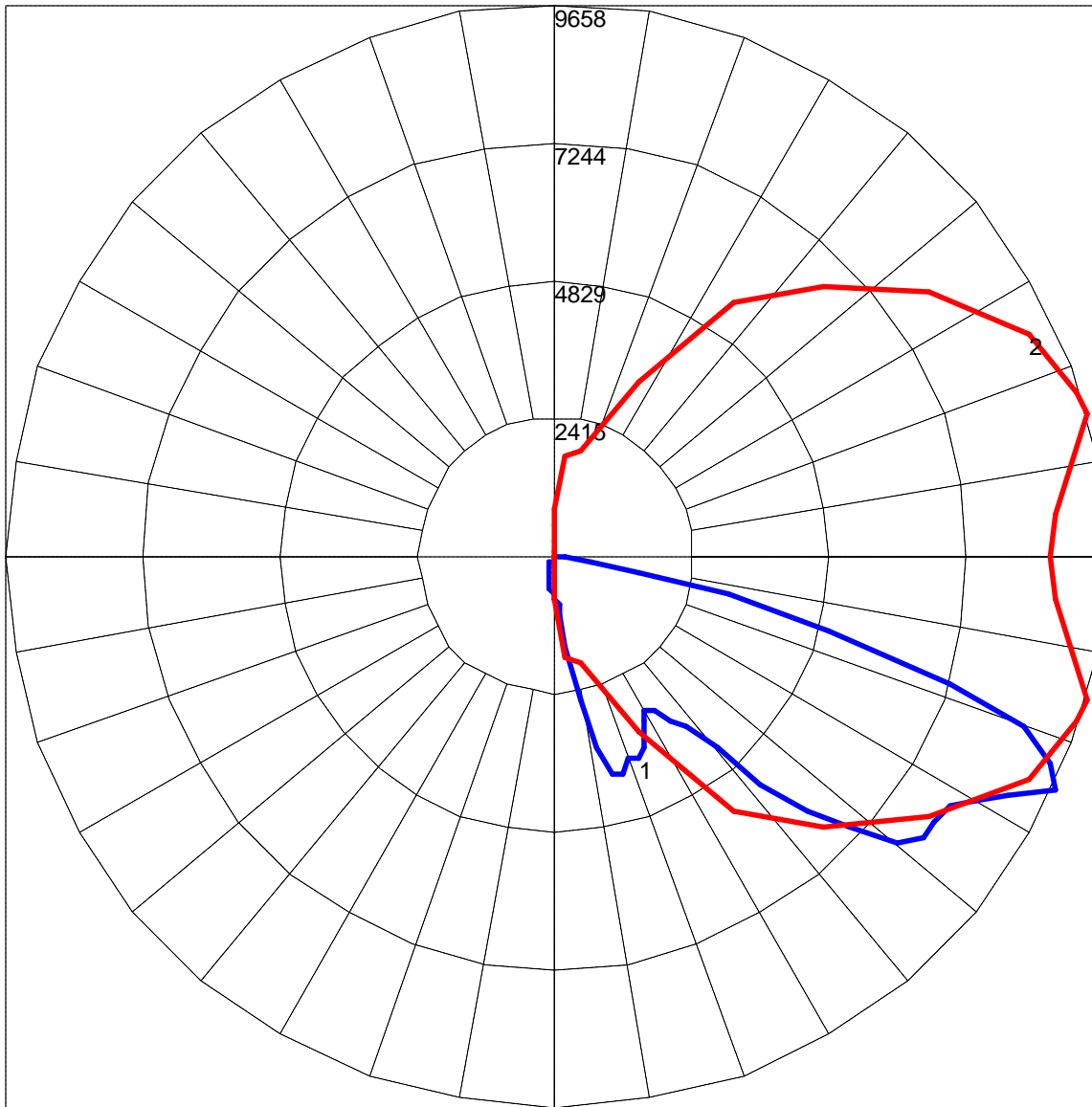


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11993.8	95.2
Downward House Side	603.4	4.8
Downward Total	12597.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12597.2	100.0

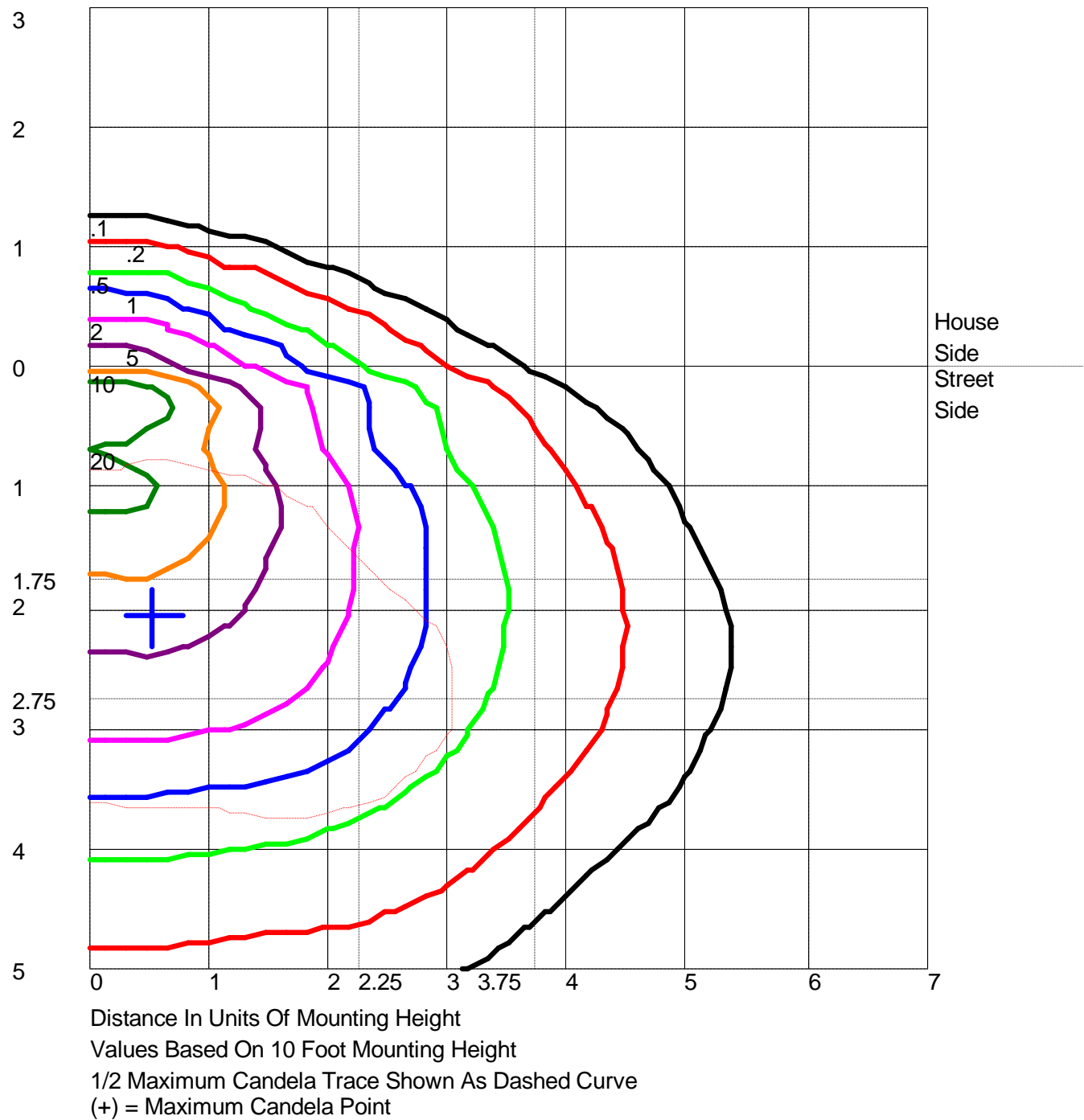


POLAR GRAPH

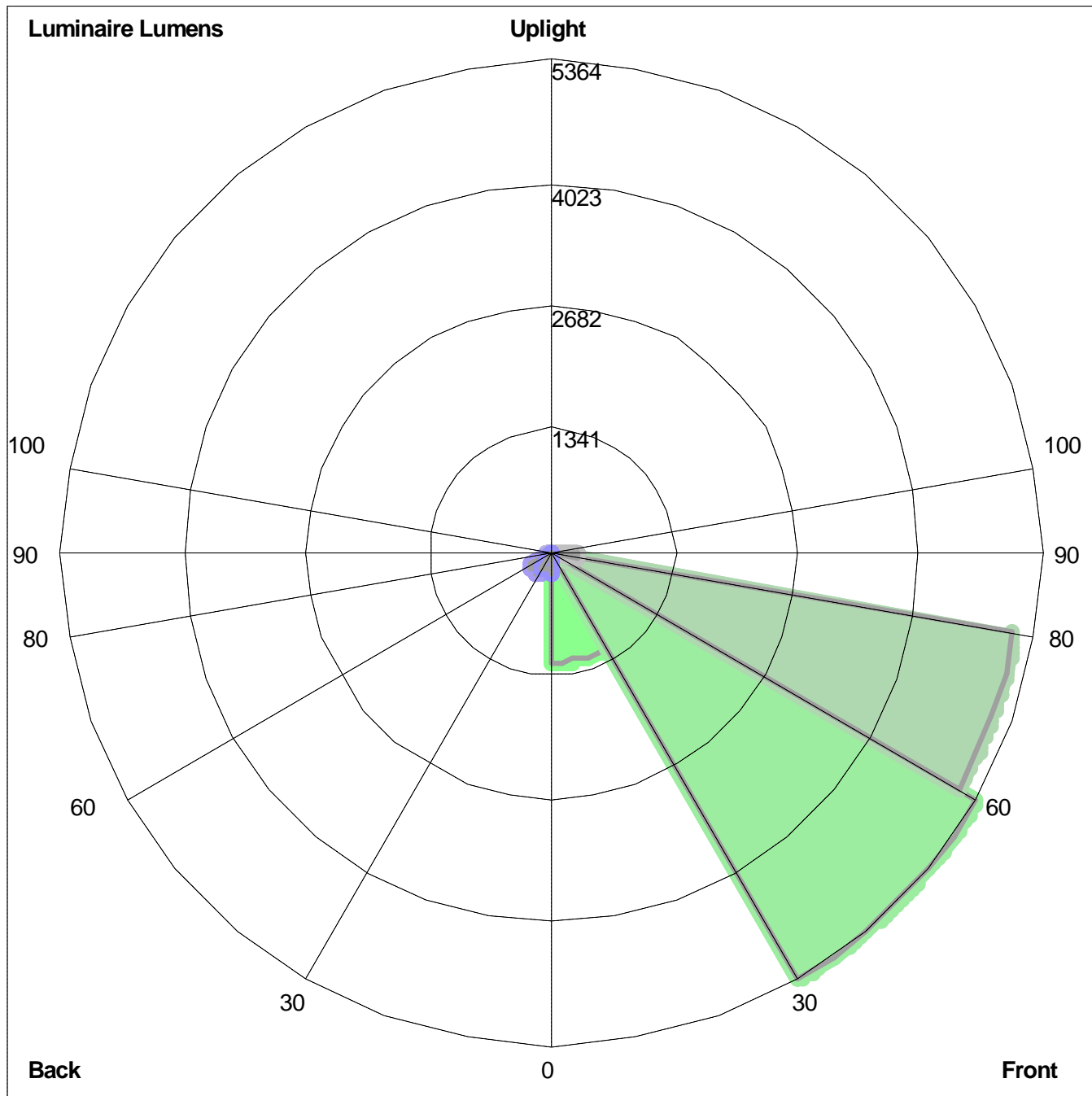


Maximum Candela = 9658 Located At Horizontal Angle = 15, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1200.4, Medium=5363.9, High=5130.9, Very High=298.6  
Back: Low=210.3, Medium=295.6, High=91.0, Very High=6.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3