



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5363A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/30/16  
[TEST DATE]03/30/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XGBM-3-LED-HO-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	17316
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	287.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12143
Maximum Candela Angle	52.5H 57.5V
Maximum Candela (<90 Degrees Vertical)	12143
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2061 (11.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2007.5	N.A.	11.6
FM - Front-Medium (30-60)	8606.4	N.A.	49.7
FH - Front-High (60-80)	4309.9	N.A.	24.9
FVH - Front-Very High (80-90)	186.7	N.A.	1.1
BL - Back-Low (0-30)	913.5	N.A.	5.3
BM - Back-Medium (30-60)	1006.6	N.A.	5.8
BH - Back-High (60-80)	275.6	N.A.	1.6
BVH - Back-Very High (80-90)	9.6	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	17315.8	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	2763	2763	2763	2763	2763	2763	2763	2763	2763	2763
<b>2.5</b>	2797	2811	2802	2809	2809	2818	2834	2812	2826	2828
<b>5.0</b>	2818	2828	2831	2850	2884	2933	2982	2977	3030	3074
<b>7.5</b>	2976	2989	2992	3038	3077	3176	3274	3290	3353	3441
<b>10.0</b>	3137	3157	3220	3389	3558	3656	3668	3660	3742	3777
<b>12.5</b>	3340	3364	3486	3735	4016	4179	4236	4206	4045	4029
<b>15.0</b>	3628	3671	3837	4172	4462	4556	4623	4626	4387	4211
<b>17.5</b>	3987	4039	4340	4744	4965	4907	4875	4865	4716	4296
<b>20.0</b>	4417	4449	4905	5408	5510	5286	5077	5011	4815	4309
<b>22.5</b>	4899	4993	5664	6129	6124	5714	5193	5045	4845	4448
<b>25.0</b>	5158	5316	6146	6855	6787	6039	5347	5149	4779	4546
<b>27.5</b>	4985	5195	6238	7108	7120	6335	5498	5227	4596	4401
<b>30.0</b>	4820	5051	6196	7005	7121	6609	5630	5363	4446	4201
<b>32.5</b>	4911	5211	6372	6977	6915	6682	6069	5658	4500	4175
<b>35.0</b>	4998	5381	6778	7201	6829	6622	6338	6108	4806	4288
<b>37.5</b>	4996	5395	7083	7457	6957	6513	6560	6427	5268	4514
<b>40.0</b>	5068	5577	7375	7595	7495	6547	6586	6629	5812	4983
<b>42.5</b>	5717	6376	8052	7845	7996	7144	6723	6812	6783	5716
<b>45.0</b>	6519	7202	8880	8512	8442	8080	7188	7241	7829	6435
<b>47.5</b>	7361	7960	9276	9086	9209	9044	8285	8127	8775	6926
<b>50.0</b>	7893	8667	9766	9377	9862	10254	9484	9310	9047	7025
<b>52.5</b>	7394	8302	9429	9655	10087	11280	10713	10443	9003	7073
<b>55.0</b>	7353	8240	8879	8902	10292	11507	11763	11299	8929	6815
<b>57.5</b>	5902	6549	7588	8505	9762	11732	12143	11771	8772	6901
<b>60.0</b>	5402	5940	6161	6818	9192	11290	11674	11674	8912	6695
<b>62.5</b>	3995	4498	4991	5994	7610	10127	10987	10737	8381	6575
<b>65.0</b>	2188	2512	2914	4458	6656	8751	9437	9466	8526	6677
<b>67.5</b>	1645	1730	2025	2761	4952	7319	8756	8868	8473	6294
<b>70.0</b>	370	409	655	1763	3285	6798	7787	7869	6934	5541
<b>72.5</b>	242	281	347	590	2349	5441	6865	6596	6158	4964
<b>75.0</b>	211	246	322	494	1669	4158	5110	5107	4624	3827
<b>77.5</b>	170	192	253	403	1328	2834	3500	3374	3106	2865
<b>80.0</b>	156	171	208	292	720	1618	1912	2061	1905	1478
<b>82.5</b>	138	153	181	215	359	676	818	805	907	592
<b>85.0</b>	136	151	175	186	216	287	318	314	307	248
<b>87.5</b>	144	160	185	196	222	224	169	150	128	85
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>92.5</b>	0	0	0	0	0	0	0	0	0	0
<b>95.0</b>	0	0	0	0	0	0	0	0	0	0
<b>97.5</b>	0	0	0	0	0	0	0	0	0	0
<b>100.0</b>	0	0	0	0	0	0	0	0	0	0
<b>102.5</b>	0	0	0	0	0	0	0	0	0	0
<b>105.0</b>	0	0	0	0	0	0	0	0	0	0
<b>107.5</b>	0	0	0	0	0	0	0	0	0	0
<b>110.0</b>	0	0	0	0	0	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0	0	0	0	0	0
<b>115.0</b>	0	0	0	0	0	0	0	0	0	0
<b>117.5</b>	0	0	0	0	0	0	0	0	0	0
<b>120.0</b>	0	0	0	0	0	0	0	0	0	0
<b>122.5</b>	0	0	0	0	0	0	0	0	0	0
<b>125.0</b>	0	0	0	0	0	0	0	0	0	0
<b>127.5</b>	0	0	0	0	0	0	0	0	0	0
<b>130.0</b>	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	2763	2763	2763	2763	2763	2763	2763	2763	2763	2763
2.5	2810	2815	2796	2789	2752	2731	2707	2686	2653	2649
5.0	3052	3042	3018	2944	2837	2723	2627	2537	2452	2417
7.5	3441	3416	3375	3215	3018	2822	2666	2519	2407	2330
10.0	3791	3757	3682	3437	3194	2967	2808	2552	2243	2057
12.5	4055	3987	3877	3560	3310	3117	2696	2340	2054	1858
15.0	4218	4146	3990	3615	3379	2927	2492	2155	1842	1625
17.5	4241	4163	3975	3587	3304	2629	2216	1846	1566	1374
20.0	4217	4122	3872	3495	2928	2330	1846	1508	1355	1254
22.5	4213	4074	3755	3406	2644	2000	1498	1283	1247	1184
25.0	4095	3945	3657	3315	2389	1660	1294	1199	1126	1053
27.5	3883	3789	3593	3130	2099	1370	1173	1081	1028	877
30.0	3714	3673	3568	2861	1773	1174	1084	985	818	628
32.5	3699	3696	3605	2632	1417	1014	977	804	570	401
35.0	3775	3759	3642	2467	1122	815	789	571	398	294
37.5	3956	3918	3741	2302	976	650	581	375	315	250
40.0	4329	4250	3944	2109	906	573	413	284	238	180
42.5	4791	4696	4196	1917	830	497	314	233	177	148
45.0	5188	5093	4409	1747	771	392	250	160	157	128
47.5	5389	5282	4472	1508	742	341	197	117	117	57
50.0	5430	5273	4388	1314	706	284	186	90	45	19
52.5	5297	5078	4175	1131	528	242	154	49	22	13
55.0	4898	4751	3887	916	394	182	112	30	13	9
57.5	4690	4422	3585	686	316	142	58	18	8	6
60.0	4251	4086	3288	543	251	128	28	11	5	3
62.5	3954	4020	2887	458	181	70	20	8	4	1
65.0	3890	3977	2500	346	133	38	20	6	2	0
67.5	3471	3393	2152	255	85	30	12	5	0	0
70.0	3184	2966	1945	195	45	25	9	0	0	0
72.5	2822	2544	1673	120	43	23	5	0	0	0
75.0	2260	1896	1189	56	39	17	5	0	0	0
77.5	1708	1342	738	34	42	14	4	1	0	0

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**CANDELA TABULATION - (Cont.)**

80.0	915	666	352	23	33	12	5	2	0	0
82.5	433	300	145	14	16	9	5	3	0	0
85.0	166	106	52	9	9	8	6	3	1	0
87.5	36	17	8	8	9	9	6	4	2	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	2763	2763
2.5	2625	2661
5.0	2374	2404
7.5	2276	2289
10.0	1952	1961
12.5	1735	1743
15.0	1497	1506
17.5	1306	1301
20.0	1196	1195
22.5	1092	1080
25.0	970	958

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

CANDELA TABULATION - (Cont.)

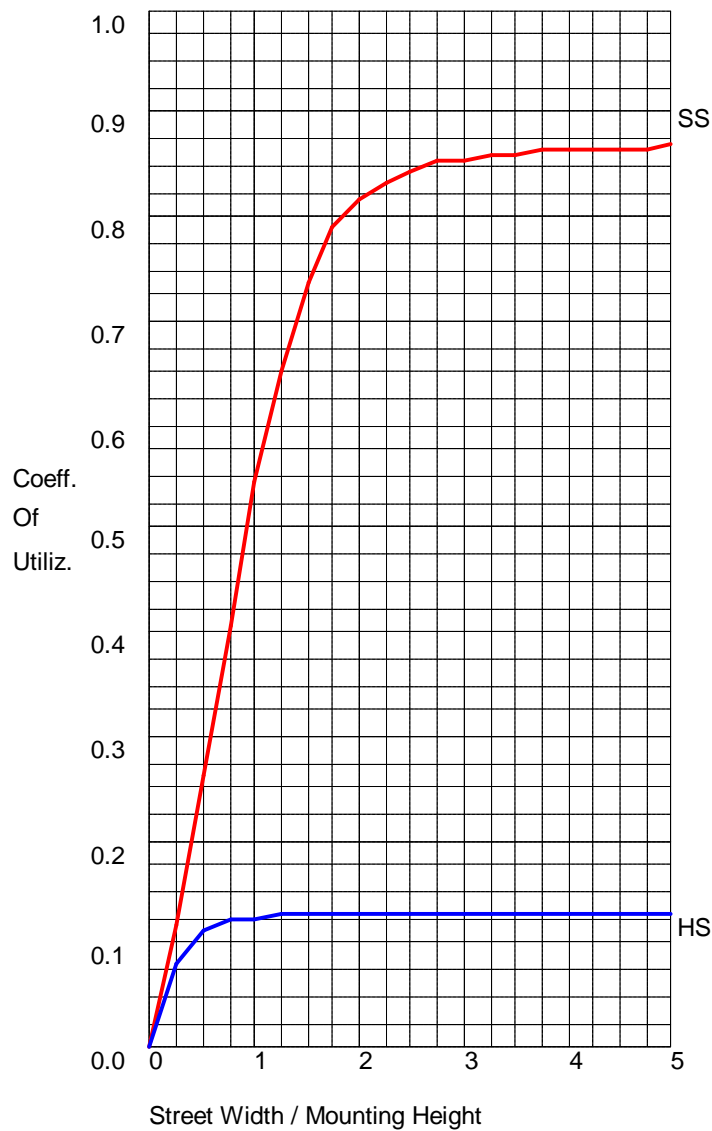
27.5	760	733
30.0	502	469
32.5	287	265
35.0	214	196
37.5	166	155
40.0	127	121
42.5	108	103
45.0	78	73
47.5	35	33
50.0	16	15
52.5	10	10
55.0	7	7
57.5	4	4
60.0	2	2
62.5	1	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	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.)**

<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

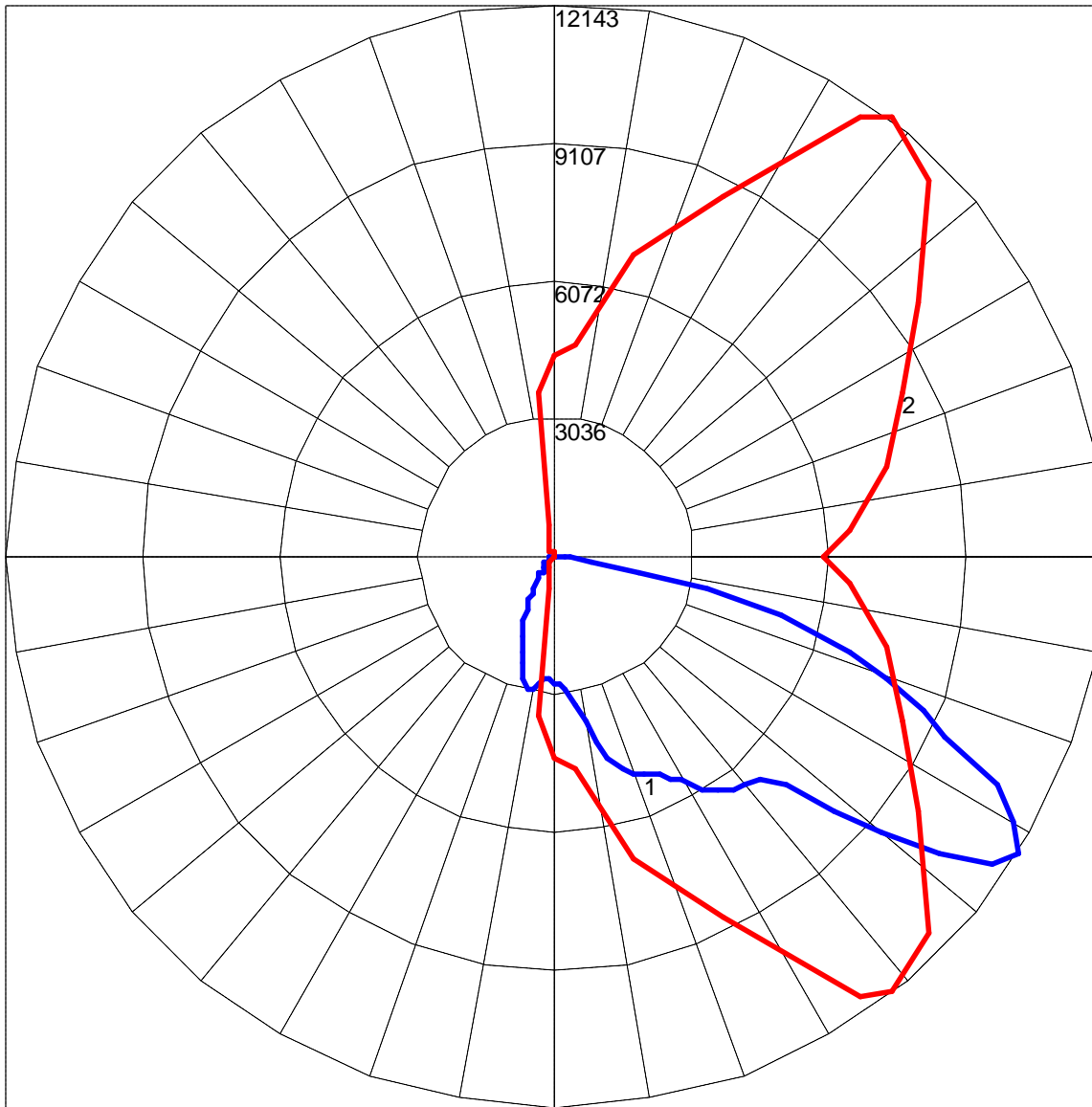


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15110.5	87.3
Downward House Side	2205.3	12.7
Downward Total	17315.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17315.8	100.0

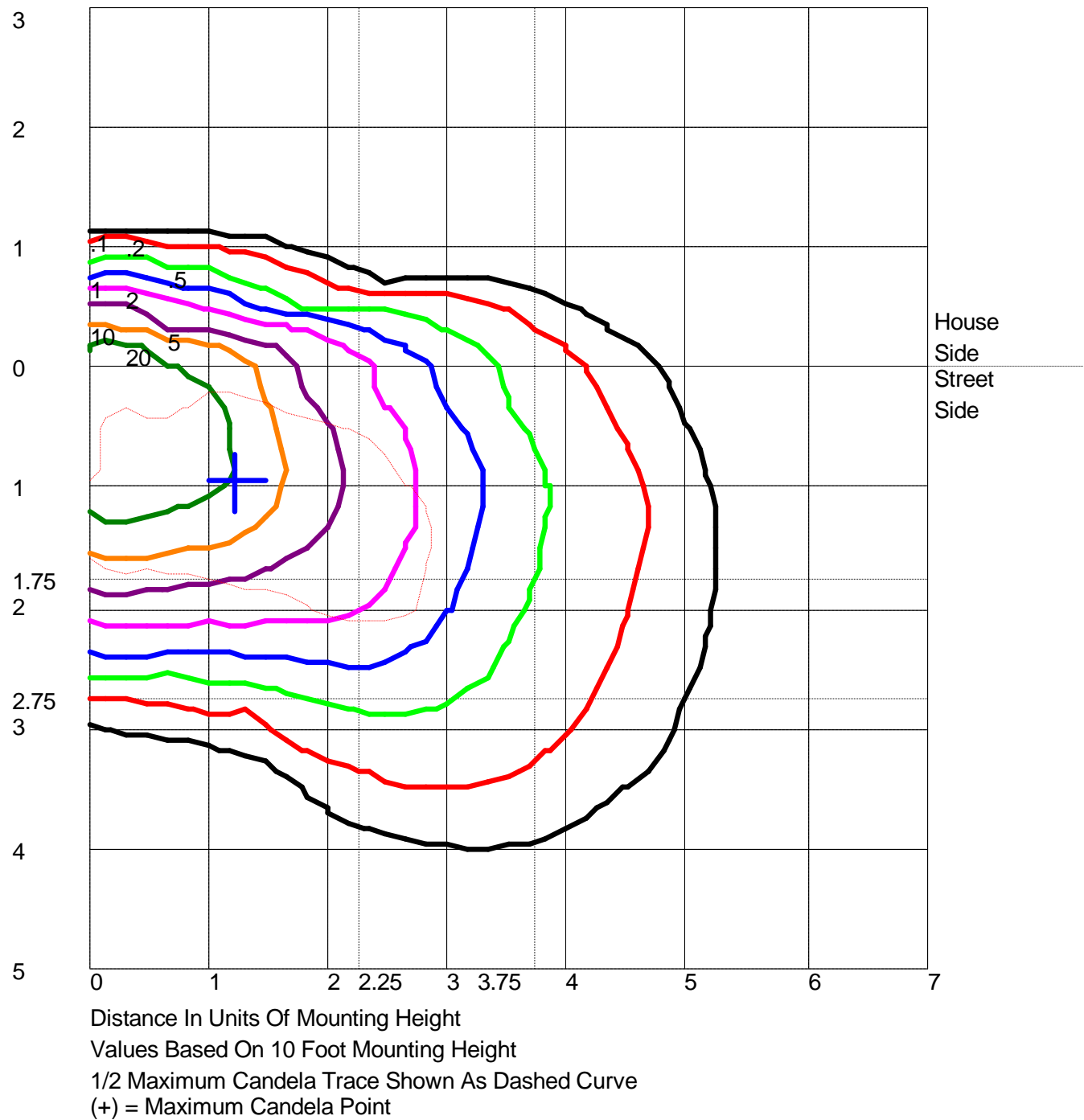


POLAR GRAPH

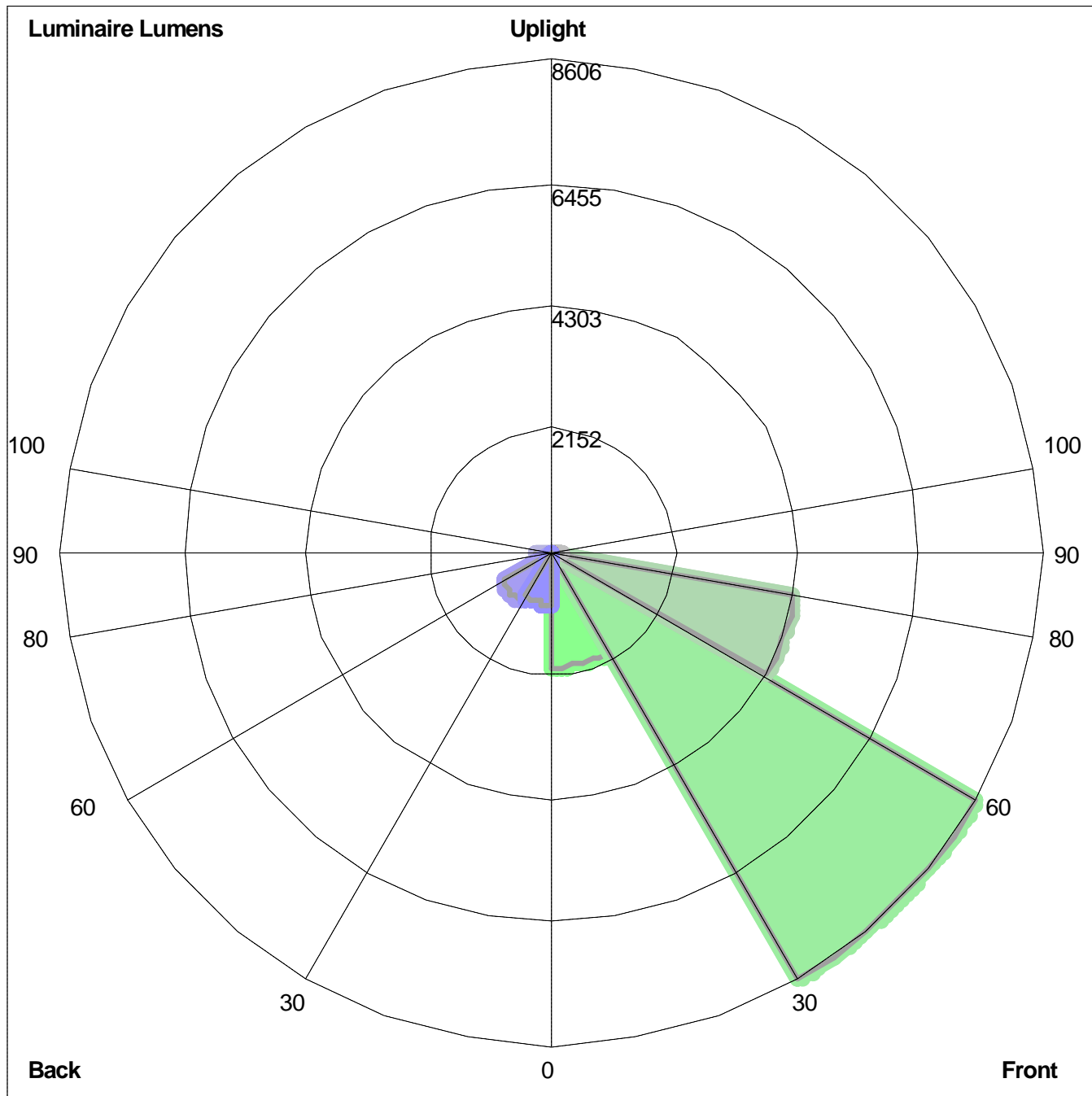


Maximum Candela = 12143 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2007.5, Medium=8606.4, High=4309.9, Very High=186.7  
Back: Low=913.5, Medium=1006.6, High=275.6, Very High=9.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2