



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5289A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-FT-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 IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11519
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	8710
Maximum Candela Angle	20H 60V
Maximum Candela (<90 Degrees Vertical)	8710
Maximum Candela Angle (<90 Degrees Vertical)	20H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3015 (26.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1054.0	N.A.	9.2
FM - Front-Medium (30-60)	4967.8	N.A.	43.1
FH - Front-High (60-80)	4662.5	N.A.	40.5
FVH - Front-Very High (80-90)	333.6	N.A.	2.9
BL - Back-Low (0-30)	172.3	N.A.	1.5
BM - Back-Medium (30-60)	246.0	N.A.	2.1
BH - Back-High (60-80)	76.2	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	11518.8	N.A.	100.0
BUG Rating	B1-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	627	627	627	627	627	627	627	627	627	627
2.5	687	686	689	683	677	669	659	644	635	624
5.0	817	816	816	800	785	763	737	713	682	648
7.5	1290	1287	1263	1212	1139	1010	892	804	738	688
10.0	1958	1950	1898	1814	1713	1540	1294	1011	826	734
12.5	2638	2654	2574	2491	2410	2145	1774	1415	996	805
15.0	3180	3191	3120	3046	2973	2718	2358	1872	1316	928
17.5	3424	3424	3420	3405	3408	3237	2877	2395	1696	1090
20.0	3510	3490	3463	3496	3524	3547	3357	2854	2094	1286
22.5	3667	3672	3707	3728	3720	3559	3664	3303	2548	1523
25.0	3511	3531	3624	3674	3705	3812	3750	3746	2963	1749
27.5	3250	3259	3366	3417	3515	3866	4001	3998	3351	1964
30.0	2917	2917	3059	3136	3285	3785	4245	4148	3686	2204
32.5	3100	3096	3014	2897	3003	3628	4270	4415	3974	2447
35.0	3169	3175	3182	3170	3239	3362	3974	4556	4099	2634
37.5	3453	3446	3377	3324	3402	3595	3617	4361	4027	2834
40.0	4065	4059	3884	3747	3758	3769	3351	3897	4044	3084
42.5	5013	5002	4835	4659	4496	4011	3602	3526	4042	3294
45.0	5648	5684	5539	5606	5644	4574	3708	3231	3852	3391
47.5	6090	6075	6108	6376	6627	5664	4017	3320	3540	3416
50.0	6712	6630	6586	6906	7012	6620	4678	3401	3233	3377
52.5	7255	7249	7463	7771	7601	6982	5490	3483	2926	3292
55.0	7070	7088	7849	8420	8352	7280	5940	3790	2781	3082
57.5	7396	7395	8008	8338	8201	7919	6197	4380	2701	2836
60.0	7272	7330	8378	8710	8454	7764	6487	4687	2657	2567
62.5	6914	6945	8093	8339	8423	7910	6718	4816	2863	2331
65.0	7128	7155	8259	8209	8044	7722	6496	5068	3215	1993
67.5	6682	6693	7938	8155	8132	7348	6398	5122	3383	1841
70.0	6226	6309	7083	7149	7192	7336	6007	4805	3542	1713
72.5	5493	5592	6385	6666	6818	6661	5781	4457	3490	1629
75.0	4076	4134	4587	4790	5517	6139	4975	4137	3015	1580
77.5	3070	3092	3300	3599	4268	4397	4086	3382	2621	1501
80.0	1819	1831	2038	2510	3015	2839	2599	2597	2164	1265
82.5	732	741	815	935	1021	1182	1407	1366	1370	829
85.0	194	196	223	243	238	333	395	466	552	444
87.5	77	77	86	88	93	96	98	104	114	124
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									
	85	90	95	105	115	125	135	145	155	165
0.0	627	627	627	627	627	627	627	627	627	627
2.5	616	612	608	602	601	599	598	601	599	595
5.0	628	616	606	590	578	570	562	556	551	547
7.5	643	624	608	581	563	544	527	509	498	485
10.0	667	638	613	580	548	516	482	450	427	414
12.5	706	665	633	586	535	482	435	407	390	375
15.0	778	720	673	603	523	449	410	374	340	321
17.5	850	774	712	619	509	432	377	330	298	272
20.0	919	816	738	619	494	417	342	294	255	224
22.5	943	822	740	597	481	391	312	251	216	196
25.0	962	833	757	591	465	363	273	219	193	181
27.5	953	835	764	602	450	329	249	201	181	173
30.0	969	830	767	607	443	292	229	191	166	155
32.5	956	794	725	598	440	270	220	184	160	158
35.0	943	750	681	544	418	251	213	176	163	152
37.5	985	717	635	483	398	242	191	181	150	115
40.0	1045	726	604	430	341	233	196	174	113	82
42.5	1097	738	599	388	292	213	195	131	82	68
45.0	1161	745	605	360	239	215	164	100	73	53
47.5	1251	776	601	344	213	226	115	79	53	42
50.0	1335	806	611	326	196	219	90	58	44	33
52.5	1411	827	629	302	191	167	75	44	34	22
55.0	1440	814	617	283	195	113	54	35	23	15
57.5	1463	788	613	267	184	86	45	24	15	6
60.0	1568	804	609	259	141	73	35	16	8	2
62.5	1578	766	569	244	115	62	24	8	2	0
65.0	1480	706	514	232	96	46	15	2	0	0
67.5	1378	633	446	200	80	30	7	1	0	0
70.0	1260	545	359	149	64	19	4	1	0	0
72.5	1093	452	288	118	46	9	4	1	0	0
75.0	885	365	231	103	34	8	4	2	0	0
77.5	728	262	181	81	25	8	4	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	456	172	120	60	20	9	5	3	1	0
82.5	244	96	70	39	13	9	6	4	2	1
85.0	135	44	29	19	12	9	7	5	3	1
87.5	53	15	14	13	12	10	7	6	4	2
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</u>	<u>180</u>
0.0	627	627
2.5	595	603
5.0	545	551
7.5	479	486
10.0	408	414
12.5	364	370
15.0	309	316
17.5	258	262
20.0	213	216
22.5	188	188
25.0	176	177

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CANDELA TABULATION - (Cont.)

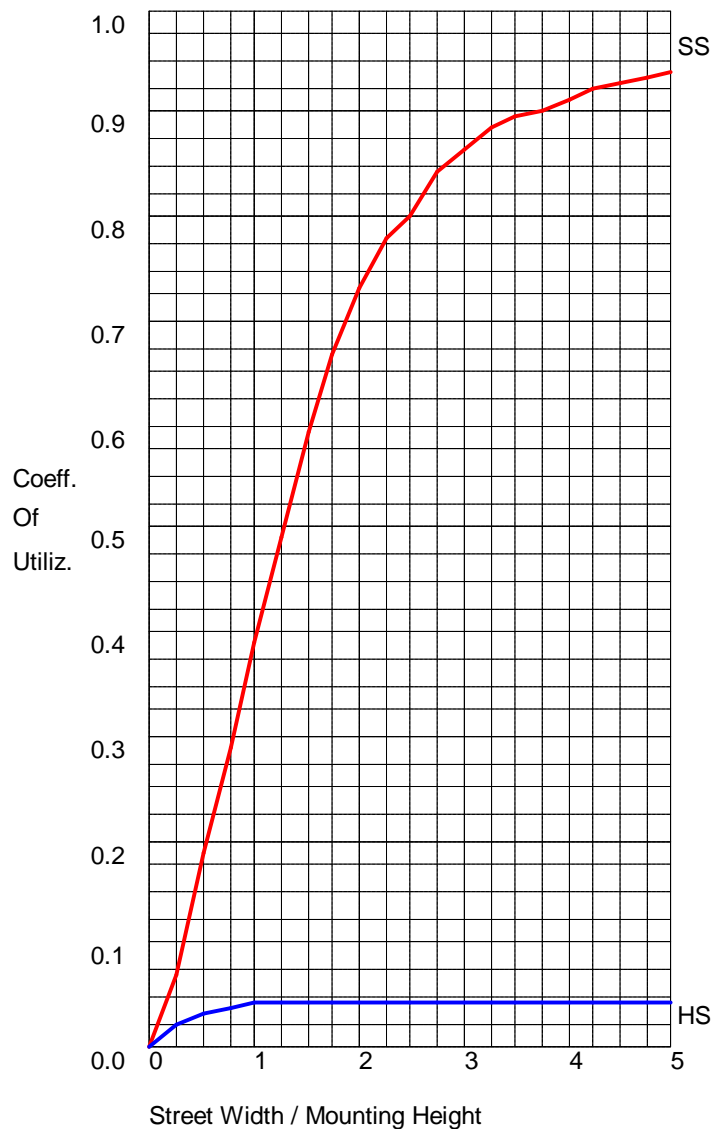
27.5	163	162
30.0	151	153
32.5	153	154
35.0	137	136
37.5	105	103
40.0	68	67
42.5	57	56
45.0	41	40
47.5	33	33
50.0	25	25
52.5	16	15
55.0	10	9
57.5	4	3
60.0	0	0
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	1	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	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

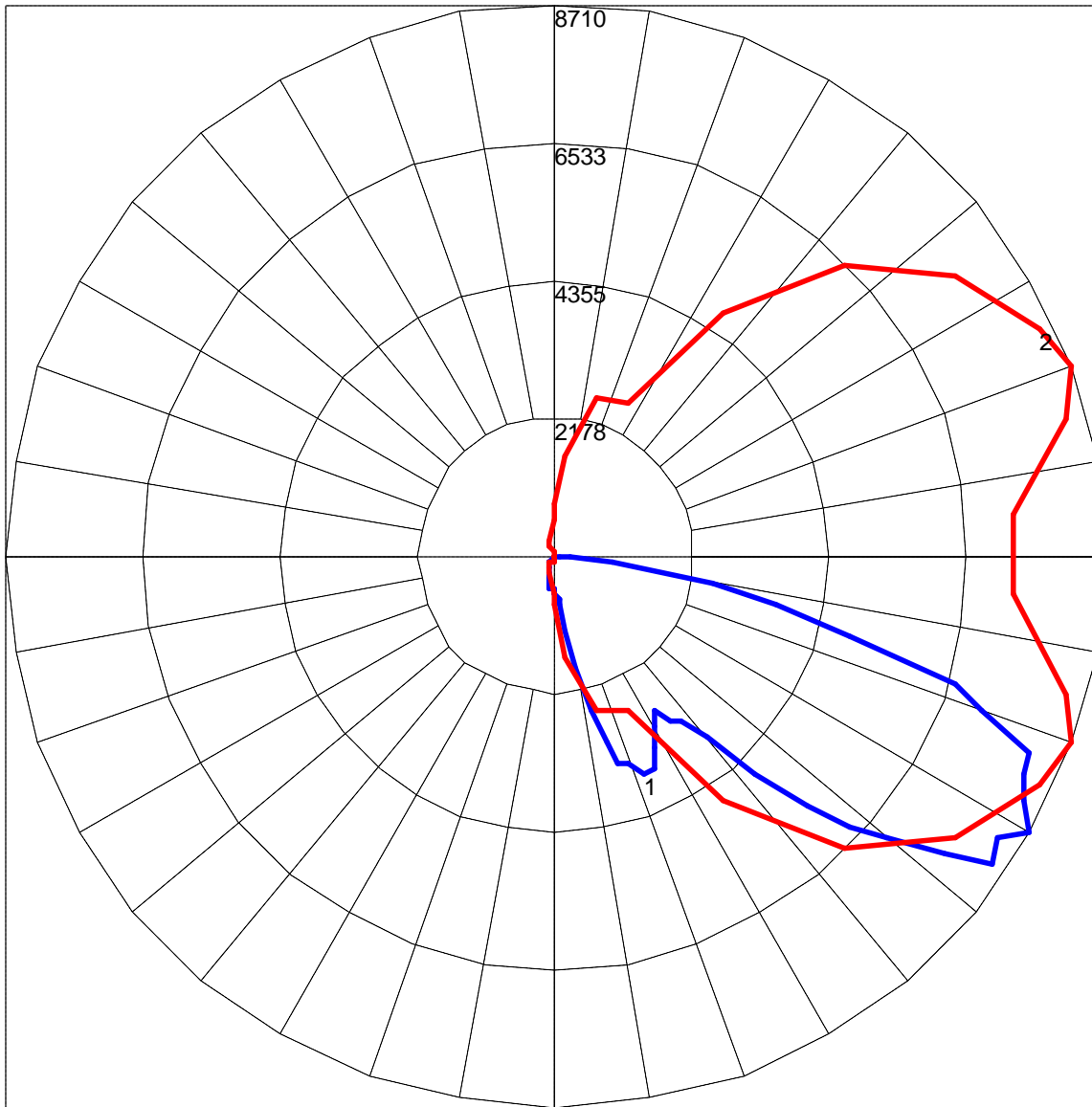
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

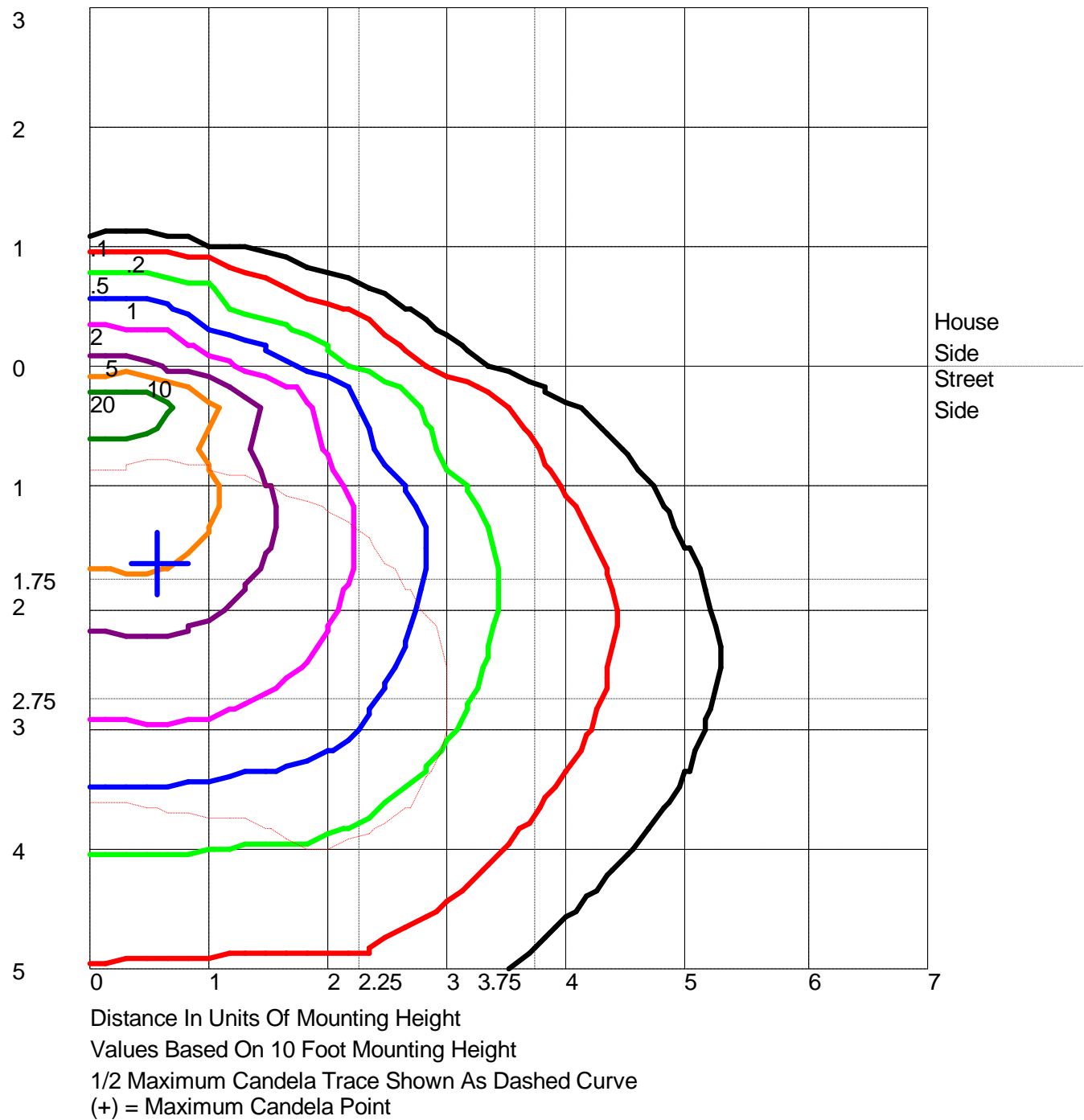
	Lumens	Percent Of Luminaire
Downward Street Side	11017.9	95.7
Downward House Side	500.9	4.3
Downward Total	11518.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11518.8	100.0

POLAR GRAPH

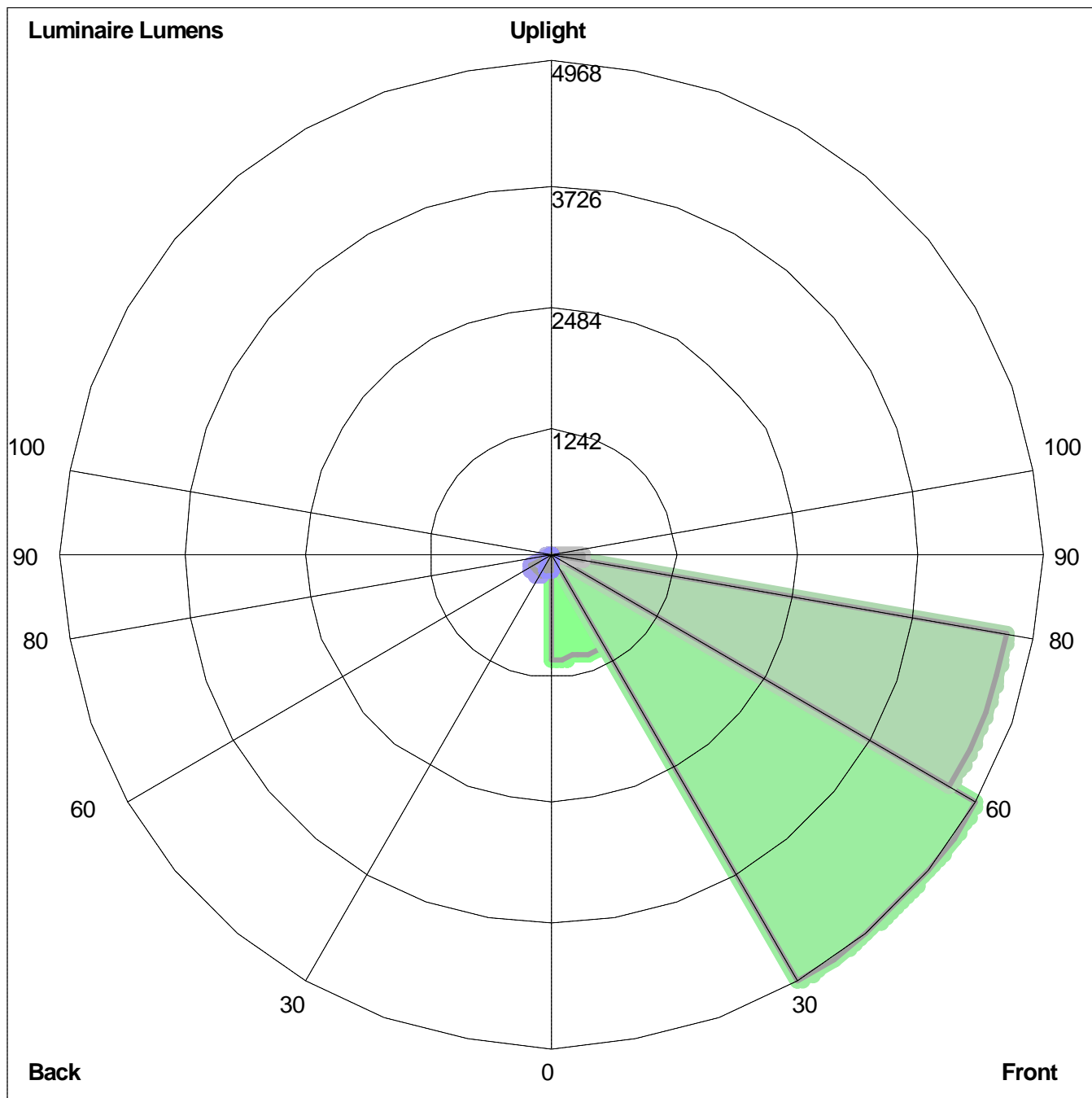


Maximum Candela = 8710 Located At Horizontal Angle = 20, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1054.0, Medium=4967.8, High=4662.5, Very High=333.6
Back: Low=172.3, Medium=246.0, High=76.2, Very High=6.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3