



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5308A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XGBM-FT-LED-LW-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_SOURCE TYPE] 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	9365
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	136.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6577
Maximum Candela Angle	20H 67.5V
Maximum Candela (<90 Degrees Vertical)	6577
Maximum Candela Angle (<90 Degrees Vertical)	20H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2539 (27.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	900.9	N.A.	9.6
FM - Front-Medium (30-60)	4069.6	N.A.	43.5
FH - Front-High (60-80)	3707.6	N.A.	39.6
FVH - Front-Very High (80-90)	278.2	N.A.	3.0
BL - Back-Low (0-30)	140.4	N.A.	1.5
BM - Back-Medium (30-60)	203.5	N.A.	2.2
BH - Back-High (60-80)	61.0	N.A.	0.7
BVH - Back-Very High (80-90)	3.9	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	9365.1	N.A.	100.0
BUG Rating	B1-U0-G3		

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

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	482	482	482	482	482	482	482	482	482	482
2.5	535	534	532	534	533	521	511	502	491	482
5.0	672	668	664	657	648	611	582	557	533	507
7.5	1117	1129	1104	1072	1017	867	757	657	582	539
10.0	1711	1724	1672	1619	1527	1333	1115	860	681	574
12.5	2278	2317	2238	2182	2095	1870	1568	1210	848	640
15.0	2709	2735	2682	2633	2557	2341	2061	1600	1144	760
17.5	2947	2954	2937	2921	2895	2762	2492	2066	1443	910
20.0	3086	3067	2998	3017	3027	3036	2869	2444	1789	1086
22.5	3150	3154	3175	3226	3230	3077	3122	2808	2196	1308
25.0	3050	3067	3139	3191	3189	3270	3219	3152	2542	1489
27.5	2790	2810	2914	2973	3036	3314	3473	3386	2853	1661
30.0	2486	2504	2608	2695	2798	3246	3587	3516	3113	1856
32.5	2636	2642	2636	2469	2551	3064	3627	3768	3322	2066
35.0	2702	2703	2699	2699	2768	2831	3377	3807	3408	2218
37.5	3017	3010	2919	2864	2903	3043	3040	3664	3347	2373
40.0	3632	3666	3448	3328	3268	3169	2822	3303	3350	2546
42.5	4388	4402	4272	4195	3994	3425	3031	2954	3363	2710
45.0	4826	4829	4748	4839	4930	4018	3130	2677	3178	2789
47.5	5033	5019	5163	5387	5551	5013	3452	2763	2950	2828
50.0	5395	5386	5406	5623	5744	5562	4043	2812	2662	2789
52.5	5616	5624	5877	6110	6119	5686	4623	2925	2386	2673
55.0	5333	5297	5806	6268	6437	5832	4862	3244	2260	2558
57.5	5545	5539	5974	6190	6080	6065	4927	3720	2242	2349
60.0	5433	5417	6177	6442	6286	5681	5001	3859	2242	2140
62.5	5327	5356	6128	6249	6206	5823	4971	3890	2437	1881
65.0	5672	5689	6455	6392	6160	5668	4852	3965	2673	1572
67.5	5423	5495	6475	6577	6448	5657	4746	3794	2716	1458
70.0	5282	5351	5970	5935	5899	5823	4552	3519	2819	1374
72.5	4864	4980	5544	5710	5809	5357	4458	3286	2658	1337
75.0	3624	3701	3923	4280	4831	5028	3968	3133	2192	1255
77.5	2769	2752	2914	3191	3646	3647	3467	2623	1908	1161
80.0	1674	1607	1844	2205	2539	2431	2159	2113	1662	949
82.5	647	677	769	860	946	1074	1134	1152	1099	604
85.0	144	153	188	196	210	257	312	411	447	337
87.5	54	55	61	64	66	68	64	70	85	101
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
PHOTOMETRIC FILENAME : XGBM-FT-LED-LW-NW-HSS.IES

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</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	482	482	482	482	482	482	482	482	482	482
2.5	474	470	466	461	458	456	454	455	454	456
5.0	484	473	463	449	440	435	428	427	424	423
7.5	498	478	463	443	430	418	410	401	393	388
10.0	518	490	468	444	424	404	384	369	350	342
12.5	549	509	482	449	420	386	354	334	325	315
15.0	607	550	512	463	415	364	337	317	293	276
17.5	674	598	546	481	411	353	322	288	263	238
20.0	726	630	568	485	402	352	296	257	224	201
22.5	758	642	574	475	393	333	274	221	193	174
25.0	768	650	586	472	389	312	241	191	170	159
27.5	747	633	583	478	380	286	218	175	159	152
30.0	758	626	579	485	373	255	205	167	147	139
32.5	765	609	554	463	372	234	192	160	142	143
35.0	765	578	528	433	358	217	186	156	147	138
37.5	796	552	492	396	318	207	169	163	135	107
40.0	842	560	475	360	273	199	173	156	103	70
42.5	873	569	478	332	230	181	174	122	71	58
45.0	919	576	485	310	202	195	146	85	61	44
47.5	989	588	484	301	183	209	104	67	43	35
50.0	1058	605	487	286	175	184	75	46	34	27
52.5	1131	618	492	261	164	137	59	35	26	17
55.0	1165	621	494	244	168	85	41	26	17	10
57.5	1187	612	497	231	164	68	35	17	10	3
60.0	1256	617	500	227	122	54	26	10	4	0
62.5	1260	585	476	218	89	47	17	4	0	0
65.0	1175	525	422	192	80	36	9	1	0	0
67.5	1130	480	362	173	59	22	5	0	0	0
70.0	1029	430	299	125	49	13	2	0	0	0
72.5	873	353	251	93	33	6	2	0	0	0
75.0	707	277	190	77	23	6	2	0	0	0
77.5	575	207	139	62	16	5	2	0	0	0

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

CANDELA TABULATION - (Cont.)

80.0	377	135	99	42	12	5	2	0	0	0
82.5	198	76	51	24	7	4	2	0	0	0
85.0	111	31	21	10	7	5	2	1	0	0
87.5	34	9	9	8	6	4	3	1	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</u>	<u>180</u>
0.0	482	482
2.5	454	458
5.0	419	424
7.5	382	387
10.0	335	338
12.5	311	314
15.0	270	273
17.5	230	231
20.0	190	194
22.5	166	168
25.0	153	154

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

CANDELA TABULATION - (Cont.)

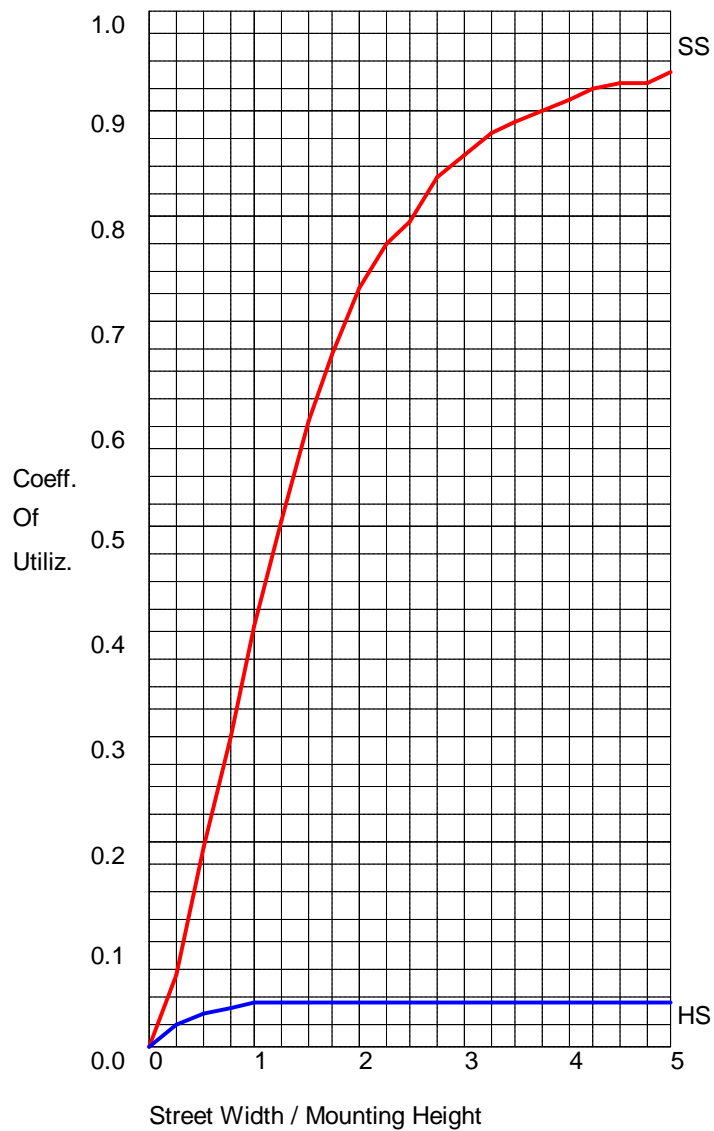
27.5	144	144
30.0	135	137
32.5	138	139
35.0	123	124
37.5	90	89
40.0	57	57
42.5	47	47
45.0	34	33
47.5	27	26
50.0	19	19
52.5	12	11
55.0	5	5
57.5	1	0
60.0	0	0
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
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

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

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

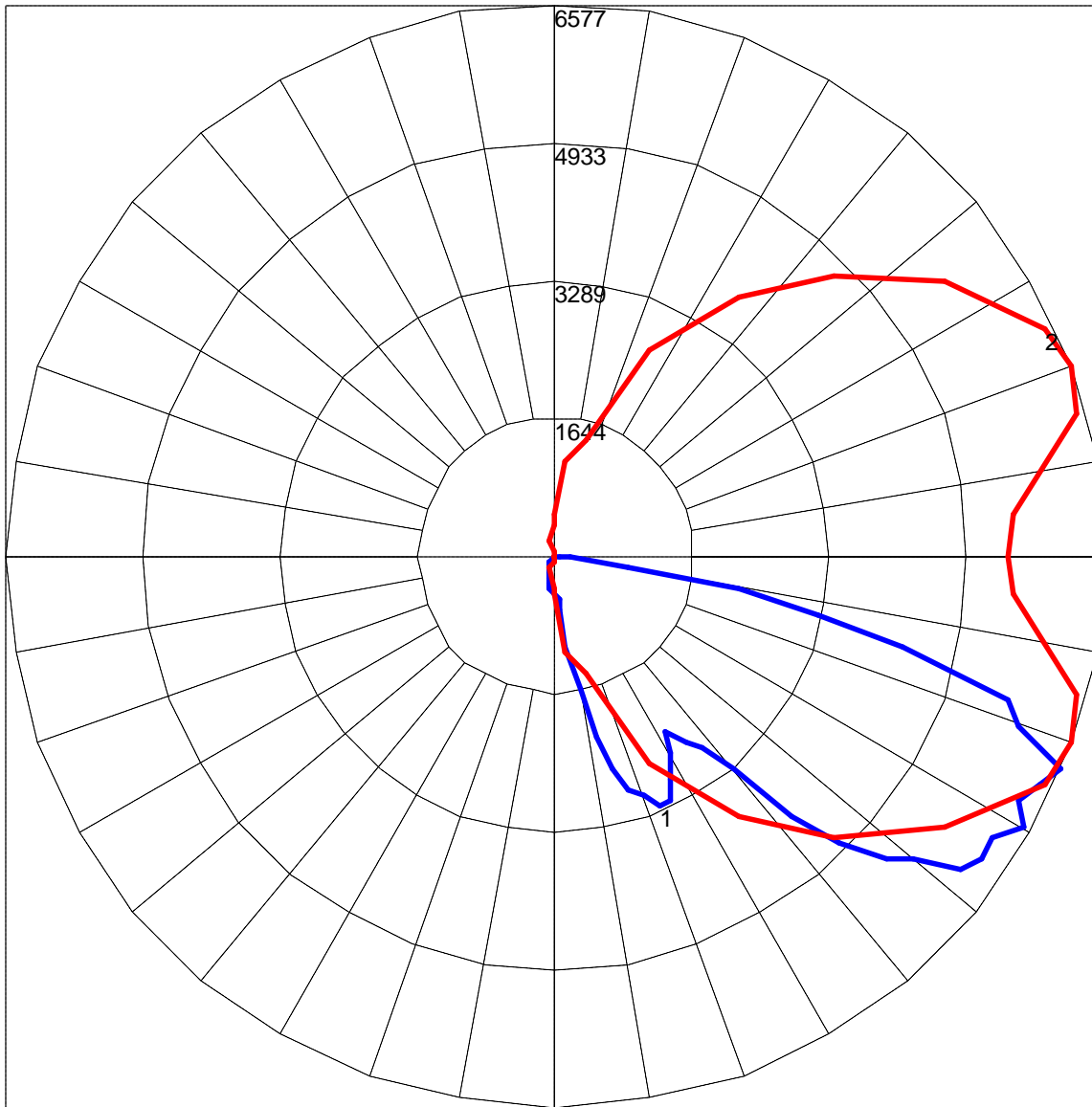
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

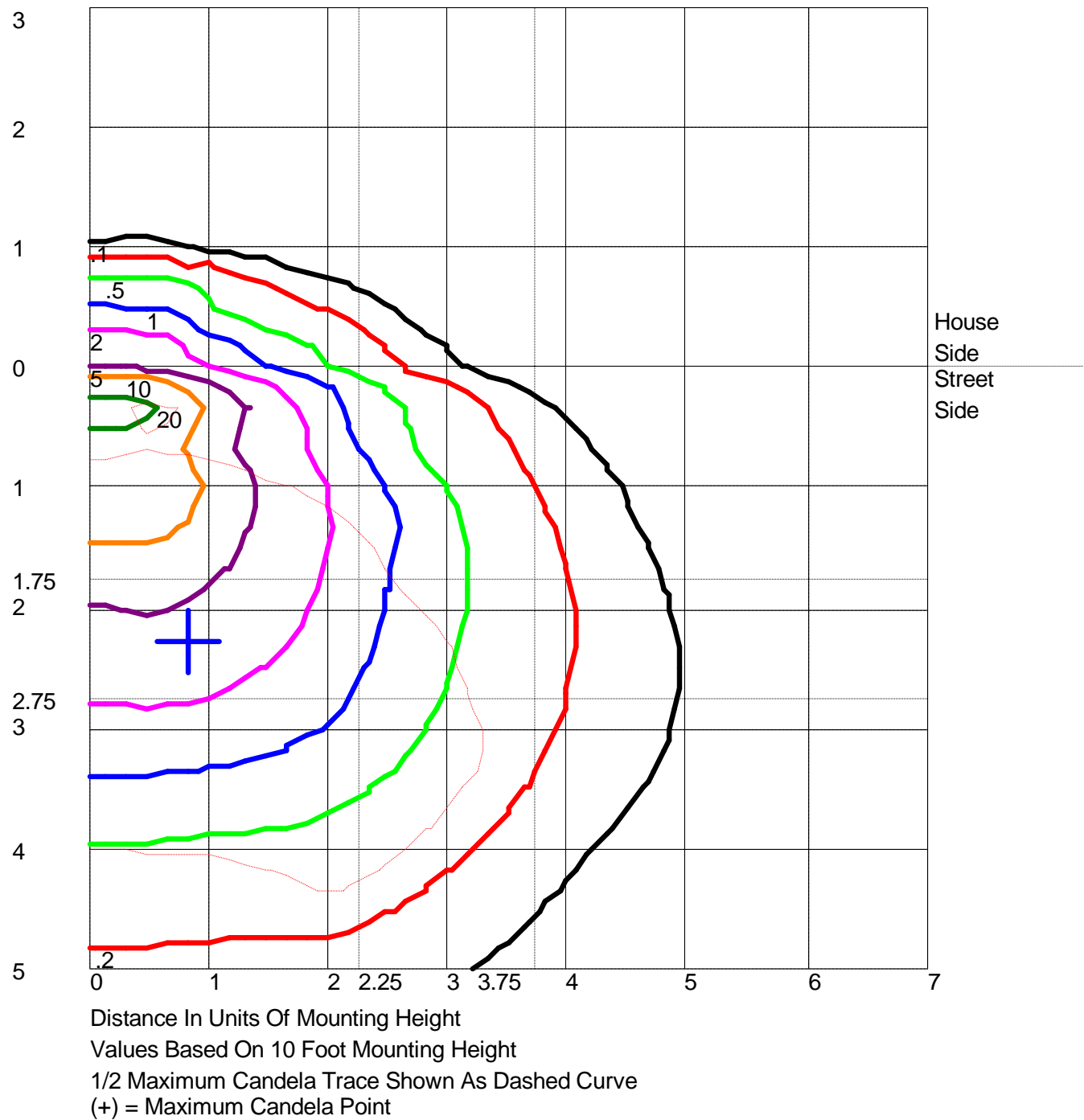
	Lumens	Percent Of Luminaire
Downward Street Side	8956.3	95.6
Downward House Side	408.9	4.4
Downward Total	9365.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9365.2	100.0

POLAR GRAPH

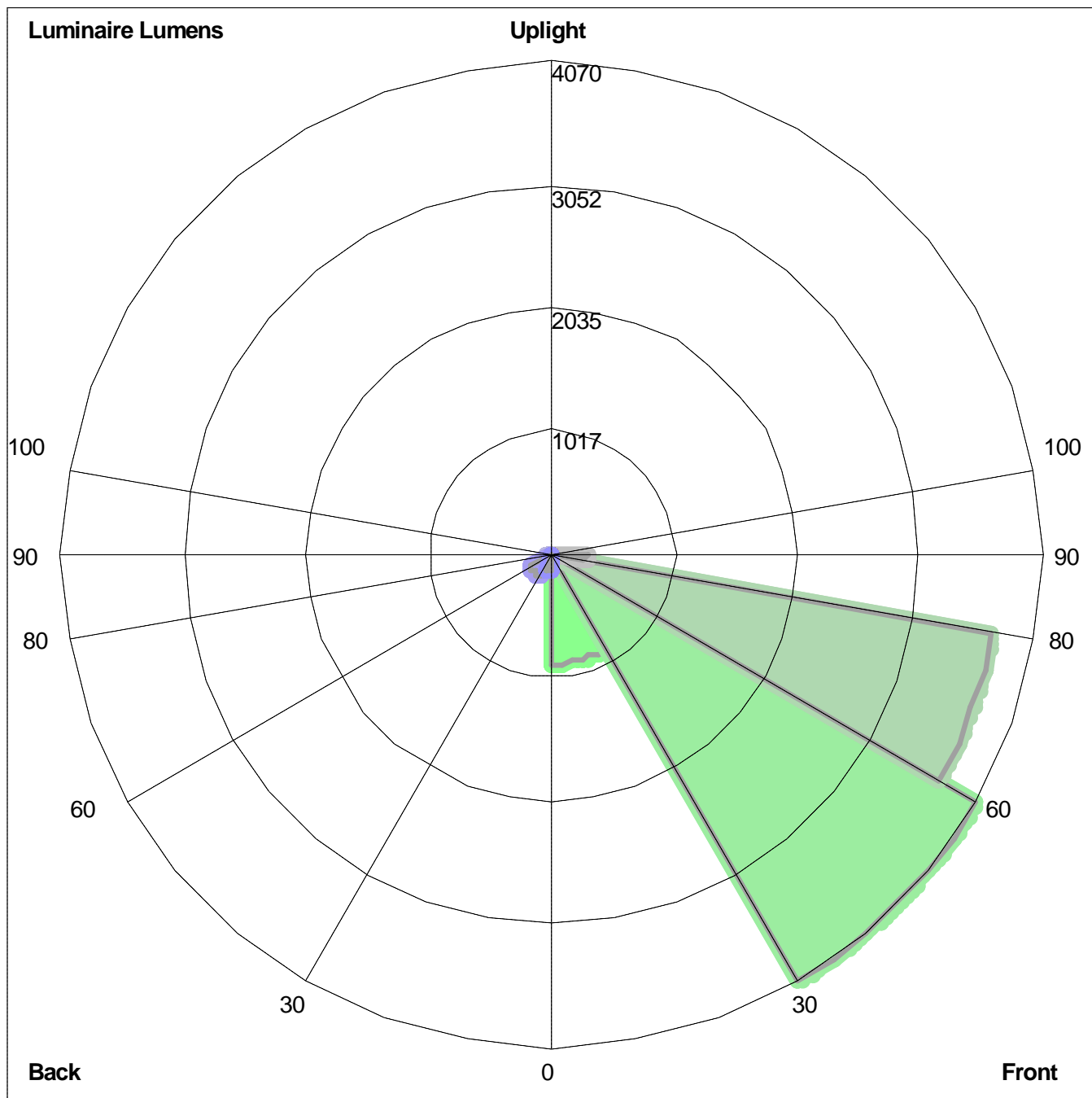


Maximum Candela = 6577 Located At Horizontal Angle = 20, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=900.9, Medium=4069.6, High=3707.6, Very High=278.2
Back: Low=140.4, Medium=203.5, High=61.0, Very High=3.9
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3