



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5012A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-FT-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 IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15273
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	187
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10149
Maximum Candela Angle	25H 52.5V
Maximum Candela (<90 Degrees Vertical)	10149
Maximum Candela Angle (<90 Degrees Vertical)	25H 52.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3765 (24.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1627.4	N.A.	10.7
FM - Front-Medium (30-60)	6660.6	N.A.	43.6
FH - Front-High (60-80)	5727.1	N.A.	37.5
FVH - Front-Very High (80-90)	470.1	N.A.	3.1
BL - Back-Low (0-30)	275.3	N.A.	1.8
BM - Back-Medium (30-60)	384.9	N.A.	2.5
BH - Back-High (60-80)	118.4	N.A.	0.8
BVH - Back-Very High (80-90)	9.0	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	15272.8	N.A.	100.0
BUG Rating	B1-U0-G3		

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

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</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	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062
2.5	1332	1298	1302	1270	1287	1235	1203	1169	1117	1075
5.0	2102	2050	2025	1947	1954	1812	1679	1530	1359	1219
7.5	3120	3104	2983	2817	2806	2579	2305	2008	1704	1396
10.0	3991	3979	3882	3782	3741	3485	3085	2557	2097	1616
12.5	4474	4470	4431	4351	4336	4143	3789	3275	2531	1870
15.0	4709	4703	4705	4673	4688	4571	4327	3855	3068	2180
17.5	4728	4735	4774	4795	4835	4824	4679	4308	3596	2523
20.0	4929	4951	4821	4788	4831	4857	4882	4648	4050	2874
22.5	4851	4867	4993	5079	5111	4829	4967	4969	4469	3242
25.0	4531	4548	4698	4796	4848	5157	5018	5115	4776	3647
27.5	4055	4106	4266	4429	4526	4974	5450	5193	5103	3957
30.0	3846	3878	3942	4045	4138	4680	5304	5305	5279	4244
32.5	4255	4282	4245	3946	3963	4337	5044	5683	5338	4428
35.0	4508	4503	4464	4409	4455	4259	4684	5486	5269	4543
37.5	5085	5067	4871	4755	4771	4830	4437	5180	5136	4699
40.0	6388	6337	5825	5466	5404	5112	4479	4756	5315	4844
42.5	7147	7135	7023	6999	6744	5609	4860	4351	5219	4809
45.0	8201	8193	8000	7960	7938	6803	5112	4181	4779	4704
47.5	8491	8476	8437	9137	9249	8087	5691	4489	4411	4592
50.0	9022	9056	9206	9527	9441	9113	6913	4555	3939	4370
52.5	8798	8867	9337	10131	10149	9116	7482	4820	3664	4129
55.0	8586	8669	9223	9891	9907	9668	7986	5474	3741	4048
57.5	8841	8810	9082	9539	9540	9278	7960	6158	3682	3646
60.0	8580	8656	9727	10030	9733	8918	8013	6584	3722	3377
62.5	8397	8430	9421	9562	9560	9013	7861	6421	4097	2868
65.0	8800	8846	9875	9536	9351	8671	7351	6549	4379	2406
67.5	7795	7867	9004	9468	9542	8611	7268	5909	4628	2330
70.0	8065	8131	8861	8581	8431	8307	6804	5453	4576	2190
72.5	7312	7477	8199	8570	8659	7747	6512	5051	4113	2184
75.0	5822	5943	6560	7258	7422	7175	5918	4813	3346	2221
77.5	4458	4534	4753	5231	5399	5527	5209	3890	2949	2009
80.0	2605	2660	2974	3579	3742	3765	3461	3236	2417	1553
82.5	1242	1259	1322	1472	1475	1774	1908	1886	1732	1019
85.0	372	380	406	421	479	590	633	734	800	597
87.5	177	174	180	188	188	188	168	171	158	179
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-SS-CW-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>85.0</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	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062
2.5	1041	1025	1009	983	960	946	935	927	930	919
5.0	1087	1036	990	921	877	853	837	831	829	821
7.5	1153	1061	987	893	844	818	783	752	738	729
10.0	1225	1087	986	878	830	775	733	719	698	679
12.5	1320	1132	1006	883	799	744	711	669	643	624
15.0	1453	1202	1047	914	791	732	671	628	579	555
17.5	1599	1273	1089	933	810	709	635	569	516	487
20.0	1744	1339	1120	925	805	700	598	512	456	408
22.5	1862	1350	1110	893	767	663	560	467	390	353
25.0	1930	1324	1078	872	744	616	498	394	339	304
27.5	2009	1305	1060	883	730	570	433	344	296	270
30.0	2063	1284	1049	856	714	523	386	306	259	225
32.5	2091	1239	1043	853	675	479	343	278	220	212
35.0	2116	1183	966	801	610	433	316	235	213	213
37.5	2168	1164	930	758	543	385	282	232	213	193
40.0	2321	1191	936	711	482	343	264	231	190	181
42.5	2450	1198	908	667	443	295	256	211	171	132
45.0	2549	1205	898	641	418	247	255	200	115	98
47.5	2628	1215	905	613	383	235	223	139	94	91
50.0	2765	1240	933	573	342	232	196	100	86	78
52.5	2846	1251	948	518	290	233	118	94	73	65
55.0	2772	1205	923	488	260	218	97	78	62	52
57.5	2754	1128	879	443	250	138	87	62	49	42
60.0	2778	1073	824	397	237	108	71	48	38	31
62.5	2639	989	776	352	200	97	57	37	27	22
65.0	2483	980	737	304	150	84	46	27	16	0
67.5	2276	922	654	277	124	66	35	14	0	0
70.0	2034	794	573	247	109	50	23	0	0	0
72.5	1650	692	488	182	86	36	7	0	0	0
75.0	1342	563	391	129	63	18	6	1	0	0
77.5	1034	436	263	119	44	13	6	1	0	0

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

CANDELA TABULATION - (Cont.)

80.0	655	305	169	86	32	12	6	2	0	0
82.5	355	185	104	57	23	12	6	3	1	0
85.0	205	86	48	31	16	10	7	4	2	0
87.5	88	21	18	15	13	10	7	5	3	1
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

	<u>175.0</u>	<u>180.0</u>
0.0	1062	1062
2.5	913	926
5.0	813	823
7.5	720	731
10.0	668	677
12.5	612	616
15.0	540	543
17.5	471	473
20.0	387	393
22.5	331	329
25.0	283	284

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

CANDELA TABULATION - (Cont.)

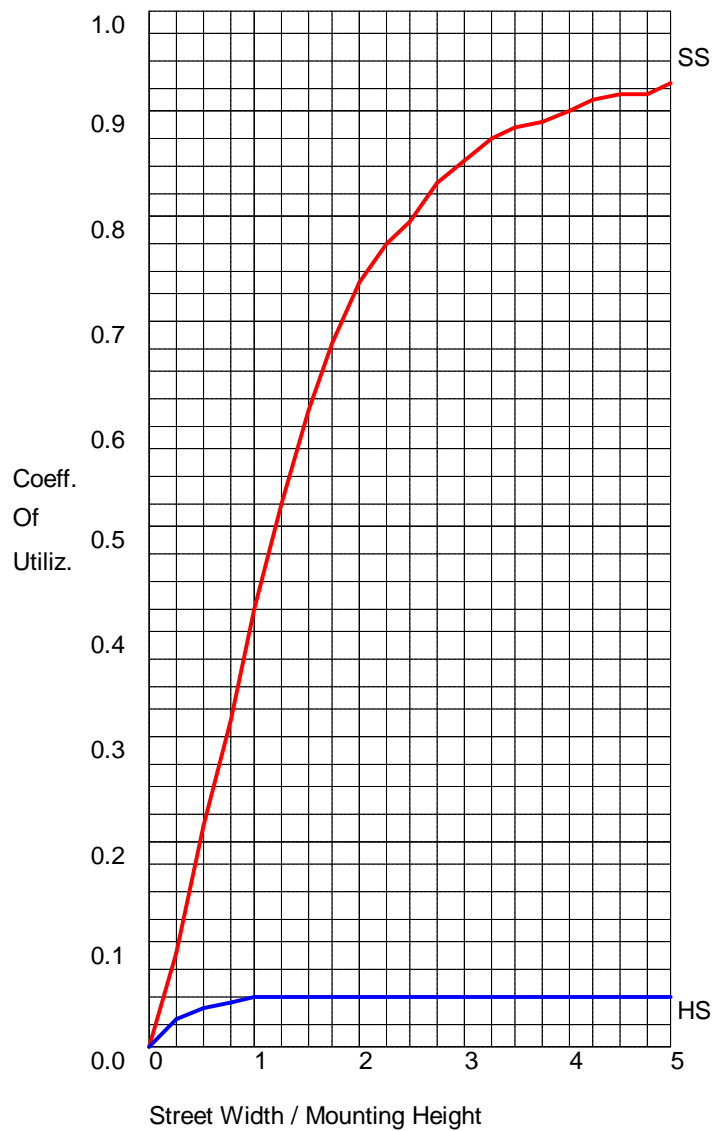
27.5	250	250
30.0	208	210
32.5	202	205
35.0	201	205
37.5	179	180
40.0	157	155
42.5	105	103
45.0	86	84
47.5	78	77
50.0	66	63
52.5	56	53
55.0	44	42
57.5	36	34
60.0	25	25
62.5	19	18
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	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-SS-CW-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

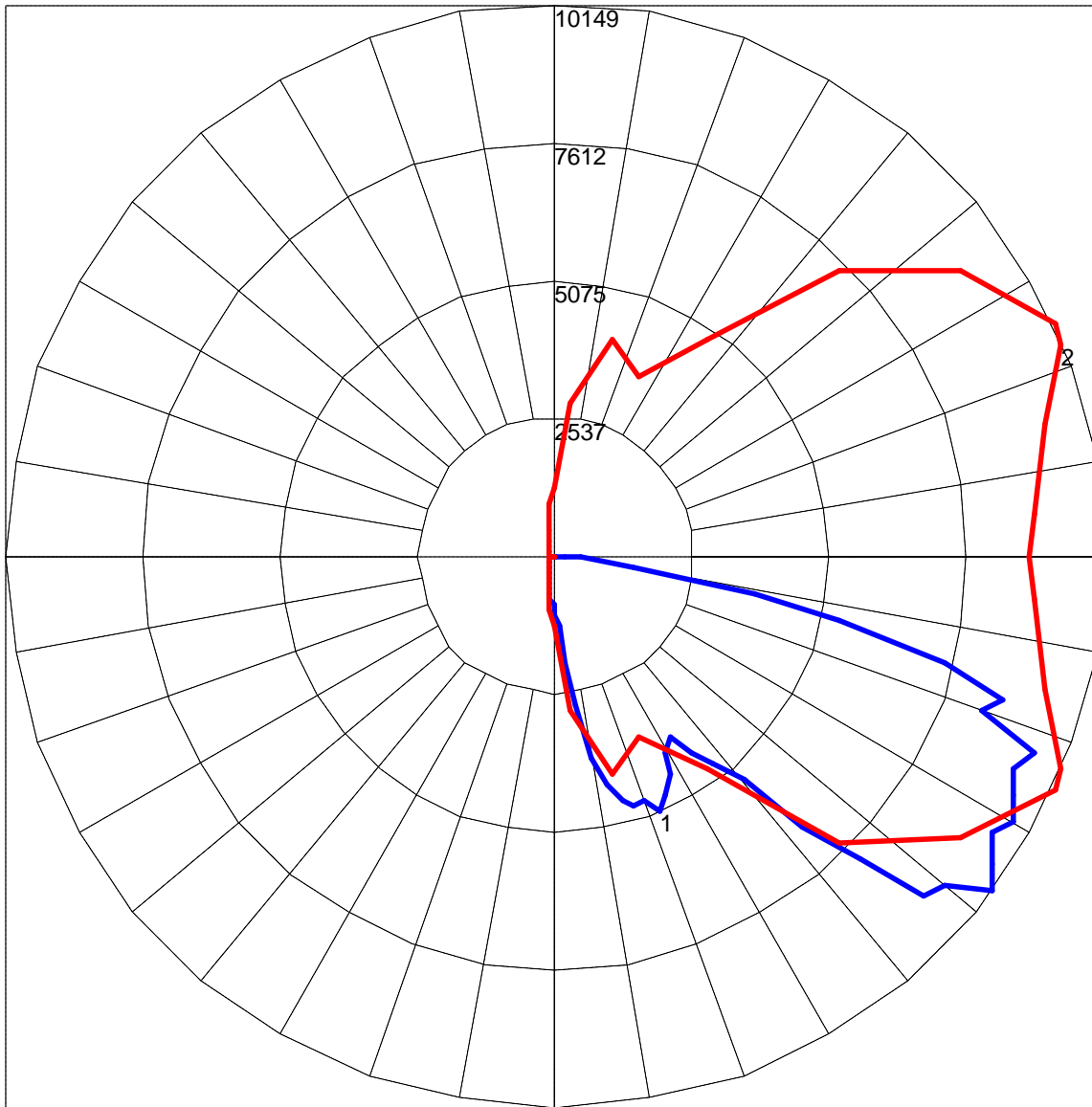
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

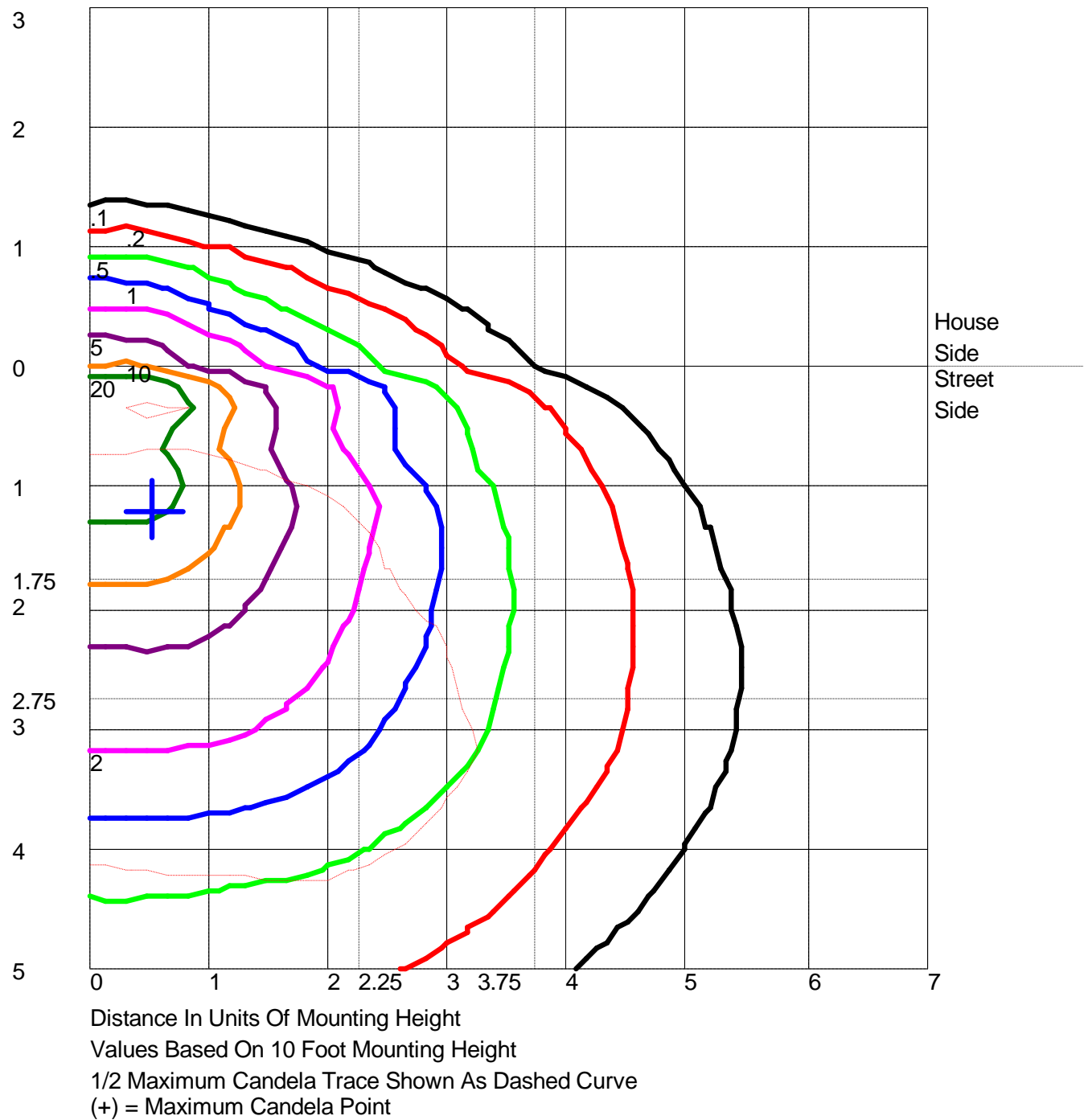
	Lumens	Percent Of Luminaire
Downward Street Side	14485.1	94.8
Downward House Side	787.6	5.2
Downward Total	15272.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15272.7	100.0

POLAR GRAPH

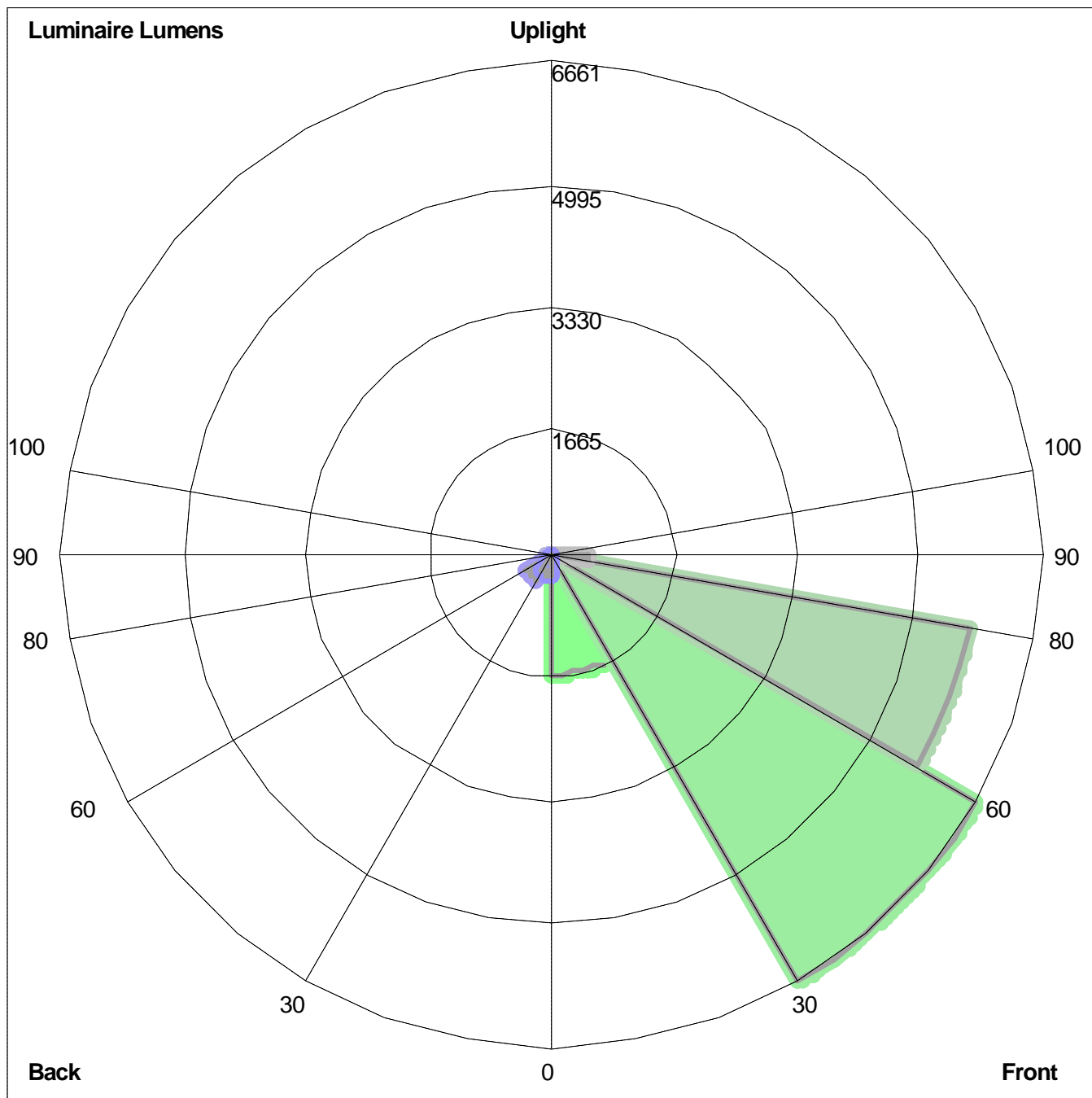


Maximum Candela = 10149 Located At Horizontal Angle = 25, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1627.4, Medium=6660.6, High=5727.1, Very High=470.1
Back: Low=275.3, Medium=384.9, High=118.4, Very High=9.0
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3