



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5019A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-FTA-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	15213
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	187
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10365
Maximum Candela Angle	20H 62.5V
Maximum Candela (<90 Degrees Vertical)	10365
Maximum Candela Angle (<90 Degrees Vertical)	20H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1883 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1554.1	N.A.	10.2
FM - Front-Medium (30-60)	6247.1	N.A.	41.1
FH - Front-High (60-80)	4875.1	N.A.	32.0
FVH - Front-Very High (80-90)	147.9	N.A.	1.0
BL - Back-Low (0-30)	1067.9	N.A.	7.0
BM - Back-Medium (30-60)	1103.8	N.A.	7.3
BH - Back-High (60-80)	211.9	N.A.	1.4
BVH - Back-Very High (80-90)	5.4	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	15213.2	N.A.	100.0
BUG Rating	B3-U0-G2		

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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	3732	3732	3732	3732	3732	3732	3732	3732	3732	3732
2.5	3797	3819	3806	3794	3790	3768	3750	3748	3729	3725
5.0	3818	3833	3822	3817	3819	3799	3784	3776	3755	3749
7.5	3960	3977	3964	3942	3914	3813	3777	3794	3779	3775
10.0	3675	3711	3739	3746	3785	3865	3939	3794	3800	3802
12.5	3484	3515	3543	3553	3582	3636	3766	3947	3802	3837
15.0	3301	3321	3354	3362	3393	3488	3598	3785	3981	3886
17.5	3189	3205	3212	3219	3251	3328	3455	3643	3957	3974
20.0	3375	3376	3215	3178	3187	3209	3330	3560	3855	4066
22.5	3505	3518	3516	3495	3491	3177	3228	3433	3769	4285
25.0	3523	3542	3539	3522	3523	3493	3204	3370	3749	4432
27.5	3575	3592	3577	3546	3545	3523	3488	3358	3771	4502
30.0	3691	3705	3669	3623	3606	3561	3583	3401	3823	4500
32.5	4202	4215	4132	3851	3724	3649	3714	3822	3785	4376
35.0	4366	4374	4337	4281	4239	3822	3931	3969	3693	4177
37.5	4684	4715	4596	4493	4396	4404	4098	4014	3601	4023
40.0	5207	5154	4985	4830	4746	4678	4327	4016	3733	3865
42.5	5949	5900	5668	5518	5202	5097	4855	4063	3812	3665
45.0	6674	6699	6314	6183	6084	5580	5063	4142	3743	3493
47.5	7841	7826	7324	7084	7052	6419	5345	4554	3669	3338
50.0	8855	8876	8599	8569	8388	7153	5749	4662	3680	3248
52.5	9056	9090	9179	9642	9771	8103	6368	4912	3790	3257
55.0	8333	8362	8741	9679	10126	9339	6995	5237	4131	3505
57.5	7987	7923	8151	9009	9378	9511	8182	5804	4358	3437
60.0	8895	8816	8724	9288	8999	8653	8715	6370	4277	3254
62.5	9530	9550	9893	10365	9799	8255	8157	6778	4262	3080
65.0	8613	8640	9409	10051	10263	9124	7539	6601	4253	2760
67.5	7674	7715	8262	8640	8900	9808	7836	5650	3961	2606
70.0	5994	6023	6680	7108	7786	8825	8221	5069	3781	2422
72.5	3772	3774	4262	4857	5857	7273	6788	5446	3296	2090
75.0	1404	1572	1912	2481	3301	4538	4988	4668	2918	1756
77.5	395	441	560	803	1232	1844	2657	3319	2880	1405
80.0	232	233	288	349	412	543	872	1499	1883	1152
82.5	179	181	204	233	237	252	260	378	746	768
85.0	168	170	183	201	201	197	189	203	148	249
87.5	165	165	177	186	186	175	159	130	76	35
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</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	3732	3732	3732	3732	3732	3732	3732	3732	3732	3732
2.5	3721	3710	3709	3704	3707	3690	3704	3699	3693	3706
5.0	3735	3715	3705	3679	3637	3573	3539	3484	3457	3442
7.5	3744	3721	3705	3637	3522	3418	3360	3325	3293	3285
10.0	3767	3734	3706	3577	3419	3315	3266	3241	3191	3041
12.5	3811	3772	3727	3523	3346	3247	3171	2937	2906	2903
15.0	3897	3861	3793	3502	3307	3161	2925	2881	2773	2713
17.5	4022	3980	3892	3506	3299	2930	2872	2692	2454	2267
20.0	4142	4082	3951	3484	3212	2913	2706	2338	1930	1665
22.5	4275	4190	4003	3481	3043	2838	2395	1836	1334	1050
25.0	4484	4341	4074	3505	3082	2679	1931	1255	658	468
27.5	4675	4496	4159	3582	3125	2448	1460	640	376	310
30.0	4792	4607	4199	3586	3087	2145	1027	396	296	258
32.5	4769	4576	4092	3335	2947	1786	671	336	247	210
35.0	4691	4503	3960	3222	2644	1408	633	305	214	187
37.5	4631	4468	3872	3159	2203	959	638	292	196	172
40.0	4478	4358	3761	3047	1754	751	637	272	184	133
42.5	4202	4149	3638	2866	1329	666	531	261	144	123
45.0	4004	3959	3517	2670	777	598	402	244	143	103
47.5	3943	3879	3402	2412	524	490	351	267	105	59
50.0	3942	3834	3342	2115	422	392	266	233	89	39
52.5	3952	3847	3310	1785	388	286	235	141	72	14
55.0	3776	3681	3204	1488	361	201	164	70	47	9
57.5	3508	3463	2984	1161	336	174	104	22	23	7
60.0	3217	3235	2704	805	301	131	45	11	5	0
62.5	2848	2916	2292	634	235	86	19	9	1	0
65.0	2378	2422	1927	483	180	46	15	1	0	0
67.5	2057	2076	1639	377	118	28	7	0	0	0
70.0	1792	1800	1349	292	67	20	2	0	0	0
72.5	1441	1410	923	213	39	10	0	0	0	0
75.0	1022	1000	567	152	24	5	0	0	0	0
77.5	736	715	312	72	18	2	0	0	0	0

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CANDELA TABULATION - (Cont.)

80.0	527	461	153	47	11	2	0	0	0	0
82.5	286	220	82	27	6	2	0	0	0	0
85.0	129	83	13	9	4	2	0	0	0	0
87.5	32	13	6	6	3	2	0	0	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	3732	3732
2.5	3693	3740
5.0	3430	3472
7.5	3278	3325
10.0	2980	3037
12.5	2888	2936
15.0	2657	2710
17.5	2184	2168
20.0	1556	1522
22.5	935	875
25.0	407	396

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CANDELA TABULATION - (Cont.)

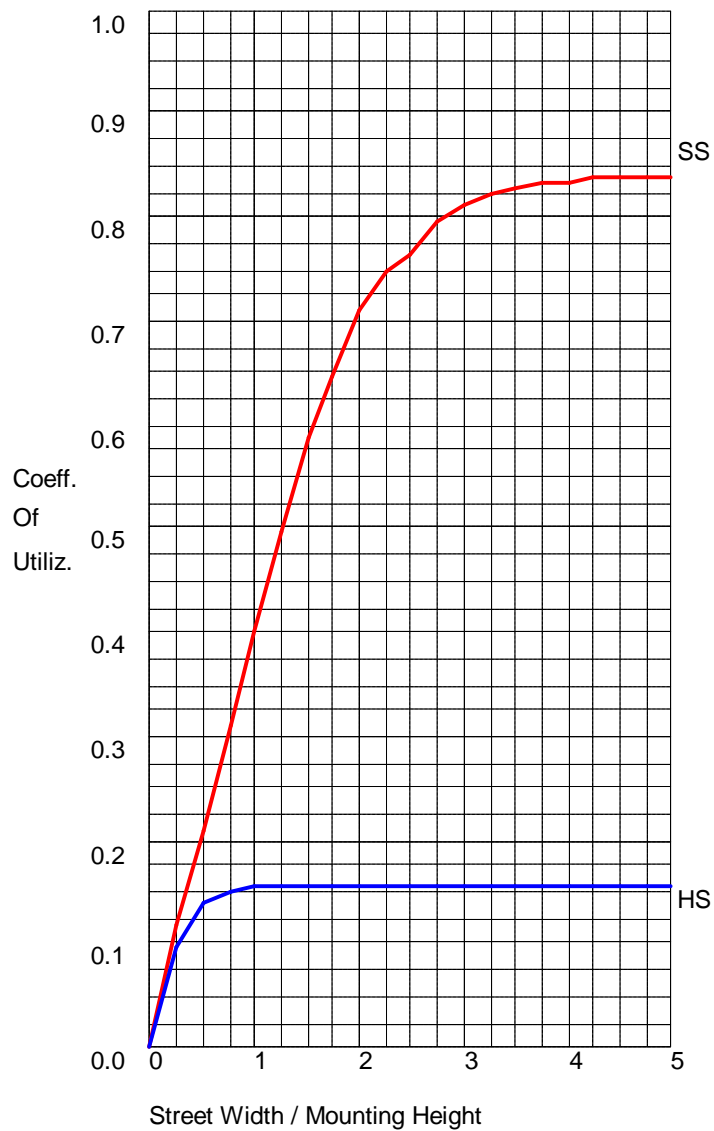
27.5	284	289
30.0	230	234
32.5	194	195
35.0	176	175
37.5	162	159
40.0	131	124
42.5	122	112
45.0	79	66
47.5	54	47
50.0	31	24
52.5	11	5
55.0	5	2
57.5	1	0
60.0	0	0
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	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

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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

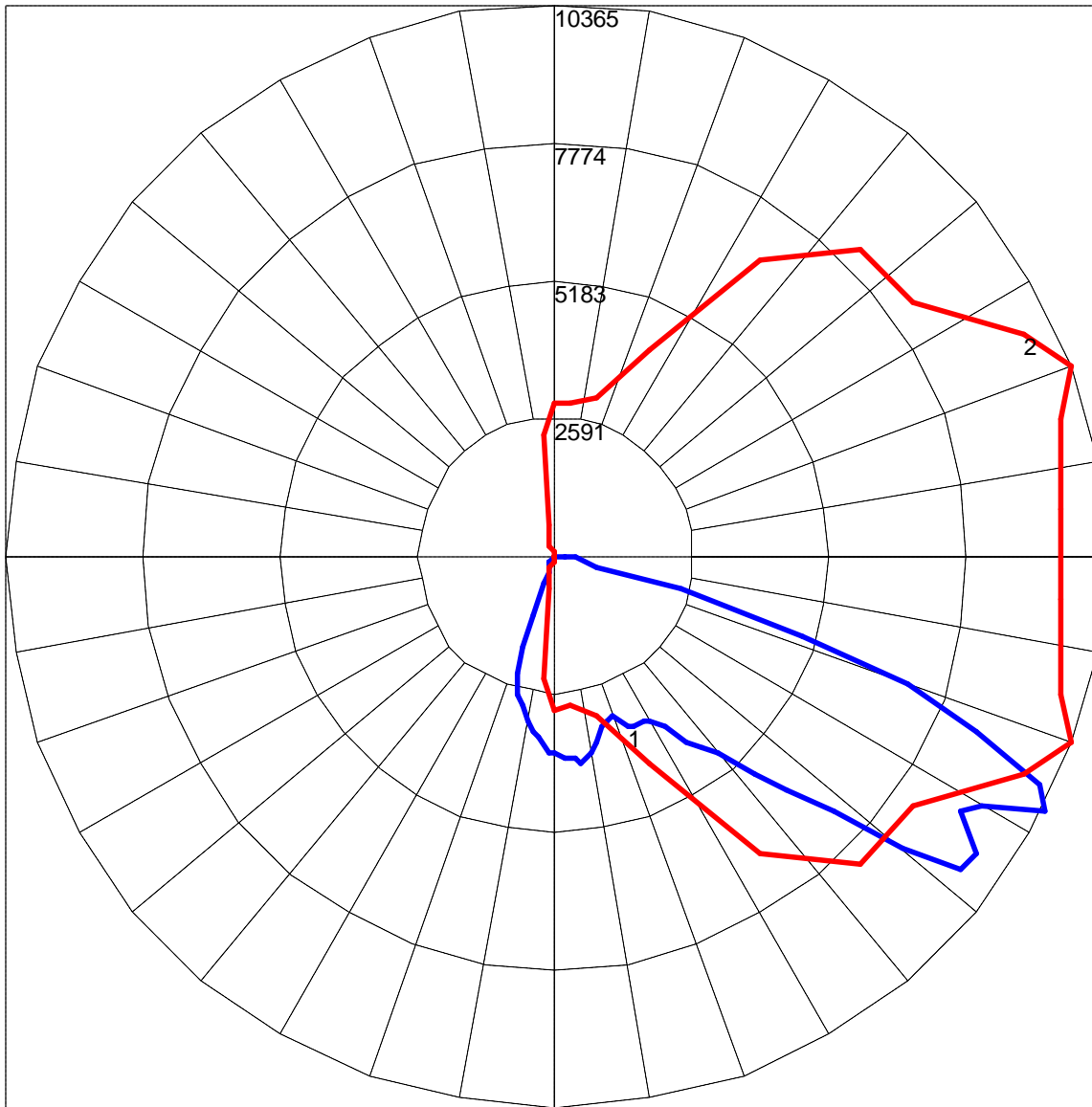
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

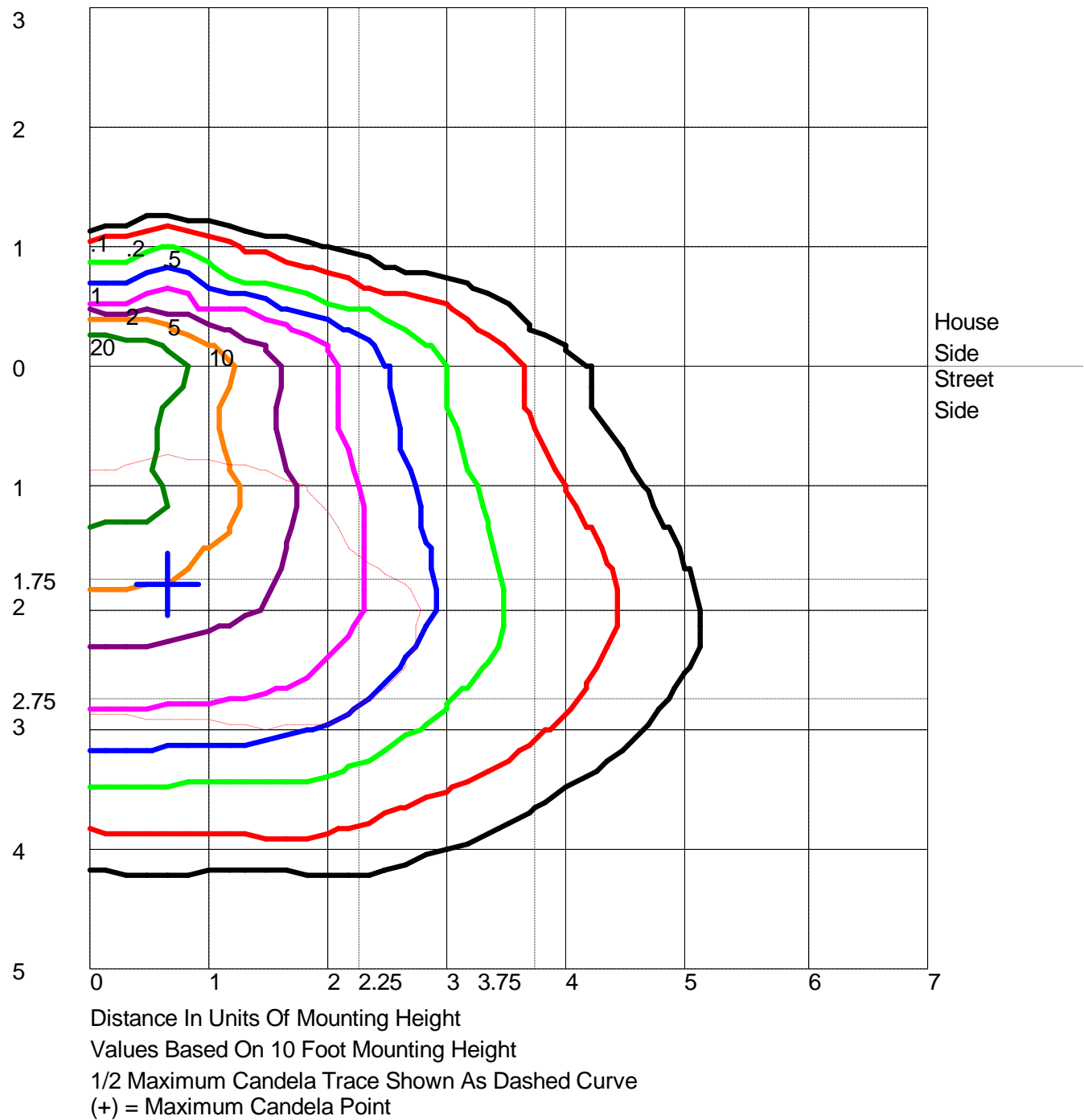
	Lumens	Percent Of Luminaire
Downward Street Side	12824.2	84.3
Downward House Side	2389.0	15.7
Downward Total	15213.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15213.2	100.0

POLAR GRAPH

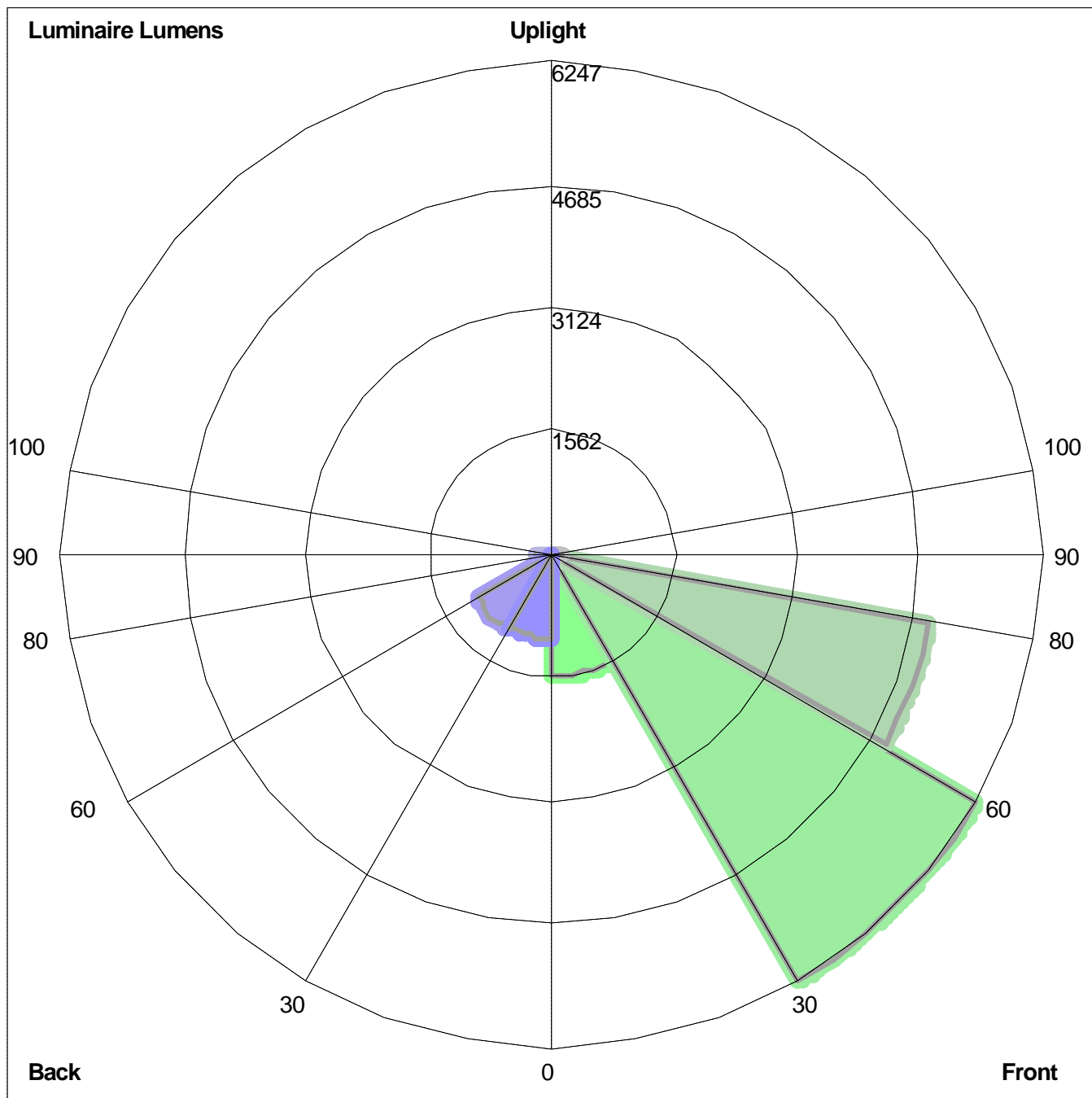


Maximum Candela = 10365 Located At Horizontal Angle = 20, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1554.1, Medium=6247.1, High=4875.1, Very High=147.9
Back: Low=1067.9, Medium=1103.8, High=211.9, Very High=5.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2