



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5349A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-FTA-LED-SS-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_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	12516
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	189.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8493
Maximum Candela Angle	20H 62.5V
Maximum Candela (<90 Degrees Vertical)	8493
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	2162 (17.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1433.7	N.A.	11.5
FM - Front-Medium (30-60)	4819.8	N.A.	38.5
FH - Front-High (60-80)	4298.2	N.A.	34.3
FVH - Front-Very High (80-90)	255.2	N.A.	2.0
BL - Back-Low (0-30)	771.8	N.A.	6.2
BM - Back-Medium (30-60)	774.9	N.A.	6.2
BH - Back-High (60-80)	157.9	N.A.	1.3
BVH - Back-Very High (80-90)	5.0	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	12516.5	N.A.	100.0
BUG Rating	B2-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	3057	3057	3057	3057	3057	3057	3057	3057	3057	3057
2.5	3116	3135	3124	3109	3113	3092	3085	3071	3053	3046
5.0	3232	3253	3239	3221	3220	3194	3167	3136	3097	3073
7.5	3446	3453	3429	3353	3329	3281	3243	3210	3162	3107
10.0	3600	3612	3614	3595	3605	3566	3415	3274	3218	3147
12.5	3598	3615	3610	3584	3588	3599	3602	3505	3289	3212
15.0	3441	3476	3500	3523	3566	3613	3595	3649	3428	3304
17.5	3193	3208	3250	3271	3347	3490	3627	3676	3706	3437
20.0	3013	3033	3050	3067	3129	3261	3539	3742	3841	3553
22.5	3085	3101	3139	3131	3083	3100	3374	3805	3953	3710
25.0	3018	3036	3036	3041	3073	3150	3206	3727	4084	4023
27.5	2991	3012	3015	3006	3039	3102	3112	3511	4212	4300
30.0	3072	3084	3044	3010	3015	3077	3172	3358	4203	4420
32.5	3351	3350	3186	3124	3104	3077	3180	3331	4003	4337
35.0	3481	3488	3473	3437	3390	3205	3256	3470	3695	4202
37.5	3690	3687	3625	3541	3545	3542	3350	3417	3417	4128
40.0	3960	3969	3846	3770	3767	3851	3545	3374	3254	4002
42.5	4528	4539	4378	4137	4049	4148	3909	3317	3311	3684
45.0	4885	4910	4803	4712	4719	4362	4005	3343	3126	3423
47.5	5248	5284	5107	5117	5245	4967	4176	3511	3036	3159
50.0	5762	5754	5651	5707	5770	5374	4353	3613	2977	2943
52.5	6138	6090	6046	6303	6416	5630	4807	3718	2988	2818
55.0	6158	6202	6353	6779	6813	6084	5061	3917	3081	2775
57.5	6284	6266	6343	6756	6874	6361	5394	4280	3231	2763
60.0	7130	7049	7131	7300	6983	6453	5797	4405	3165	2641
62.5	7667	7680	8152	8493	7907	6453	5980	4470	3128	2490
65.0	6652	6627	7500	8185	8285	7271	5960	4646	3062	2278
67.5	6175	6184	6638	6893	6934	7313	6132	4468	2928	2100
70.0	6081	6082	6546	6600	6593	6256	5866	4062	2882	1832
72.5	5292	5384	5877	6096	6526	6174	4737	3867	2707	1566
75.0	3964	4069	4478	4954	5593	5515	4296	3250	2224	1264
77.5	2332	2406	2636	3199	3761	3943	3516	2704	1893	973
80.0	1221	1275	1368	1722	1988	2134	2162	2044	1357	880
82.5	591	573	618	679	741	812	927	1032	884	555
85.0	277	262	297	324	334	357	354	366	346	252
87.5	147	149	163	167	167	166	159	139	88	51
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	3057	3057	3057	3057	3057	3057	3057	3057	3057	3057
2.5	3037	3029	3034	3032	3028	3025	3030	3030	3023	3040
5.0	3052	3036	3036	3017	2986	2954	2939	2914	2900	2907
7.5	3066	3041	3023	2991	2931	2875	2851	2825	2791	2795
10.0	3081	3051	3023	2962	2885	2822	2766	2647	2464	2411
12.5	3117	3075	3036	2932	2850	2759	2453	2318	2189	2115
15.0	3194	3139	3077	2924	2811	2480	2257	2015	1790	1638
17.5	3280	3210	3126	2936	2736	2317	1991	1620	1301	1096
20.0	3354	3246	3143	2937	2511	2135	1653	1156	822	638
22.5	3427	3293	3168	2930	2437	1925	1240	747	473	362
25.0	3536	3361	3205	2945	2328	1662	898	474	305	275
27.5	3650	3446	3271	2890	2165	1312	660	358	271	241
30.0	3727	3490	3276	2712	1959	1010	532	357	240	208
32.5	3684	3414	3198	2591	1701	774	543	357	210	175
35.0	3655	3351	3128	2434	1364	655	530	367	188	160
37.5	3620	3308	3075	2261	1029	630	496	291	186	154
40.0	3532	3244	3014	2026	765	577	474	241	175	124
42.5	3400	3166	2956	1783	558	516	419	231	157	121
45.0	3304	3065	2861	1514	427	431	333	211	157	96
47.5	3216	2991	2780	1248	371	344	272	206	105	65
50.0	3150	2938	2719	995	329	277	220	161	76	47
52.5	3133	2885	2645	785	296	221	200	118	66	25
55.0	3049	2725	2488	649	271	174	131	75	48	21
57.5	2962	2554	2240	558	260	165	80	37	28	14
60.0	2759	2378	1954	518	247	118	37	21	13	8
62.5	2429	2133	1661	446	201	80	28	15	3	1
65.0	2048	1854	1397	350	164	47	22	7	0	0
67.5	1799	1610	1134	284	99	37	12	1	0	0
70.0	1560	1408	877	259	67	25	5	0	0	0
72.5	1196	1079	572	204	41	18	3	0	0	0
75.0	849	777	362	132	30	9	2	0	0	0
77.5	547	524	218	67	19	5	1	0	0	0

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CANDELA TABULATION - (Cont.)

80.0	387	361	124	46	13	4	1	0	0	0
82.5	208	167	62	30	8	4	1	0	0	0
85.0	91	64	18	17	5	3	1	0	0	0
87.5	21	11	6	5	4	3	2	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	3057	3057
2.5	3048	3083
5.0	2897	2937
7.5	2775	2815
10.0	2381	2419
12.5	2057	2083
15.0	1572	1584
17.5	971	969
20.0	535	530
22.5	300	299
25.0	259	260

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CANDELA TABULATION - (Cont.)

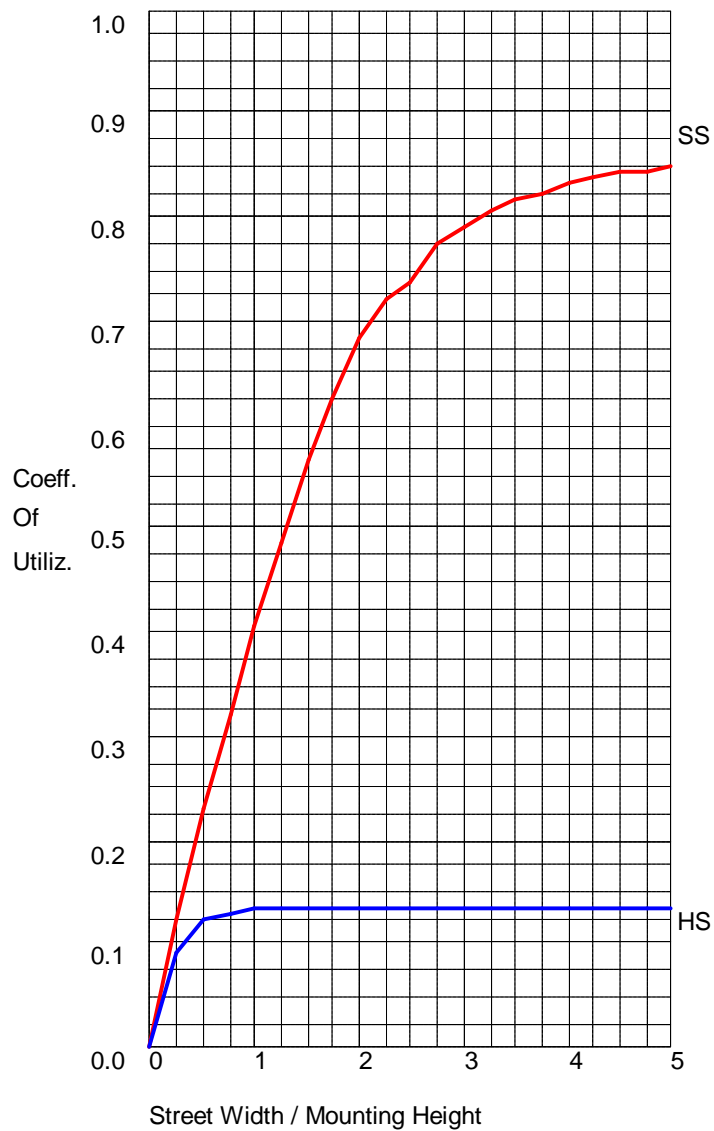
27.5	223	221
30.0	185	182
32.5	162	158
35.0	154	147
37.5	139	129
40.0	121	116
42.5	117	112
45.0	77	71
47.5	56	47
50.0	38	31
52.5	22	18
55.0	17	14
57.5	11	10
60.0	3	2
62.5	0	0
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
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

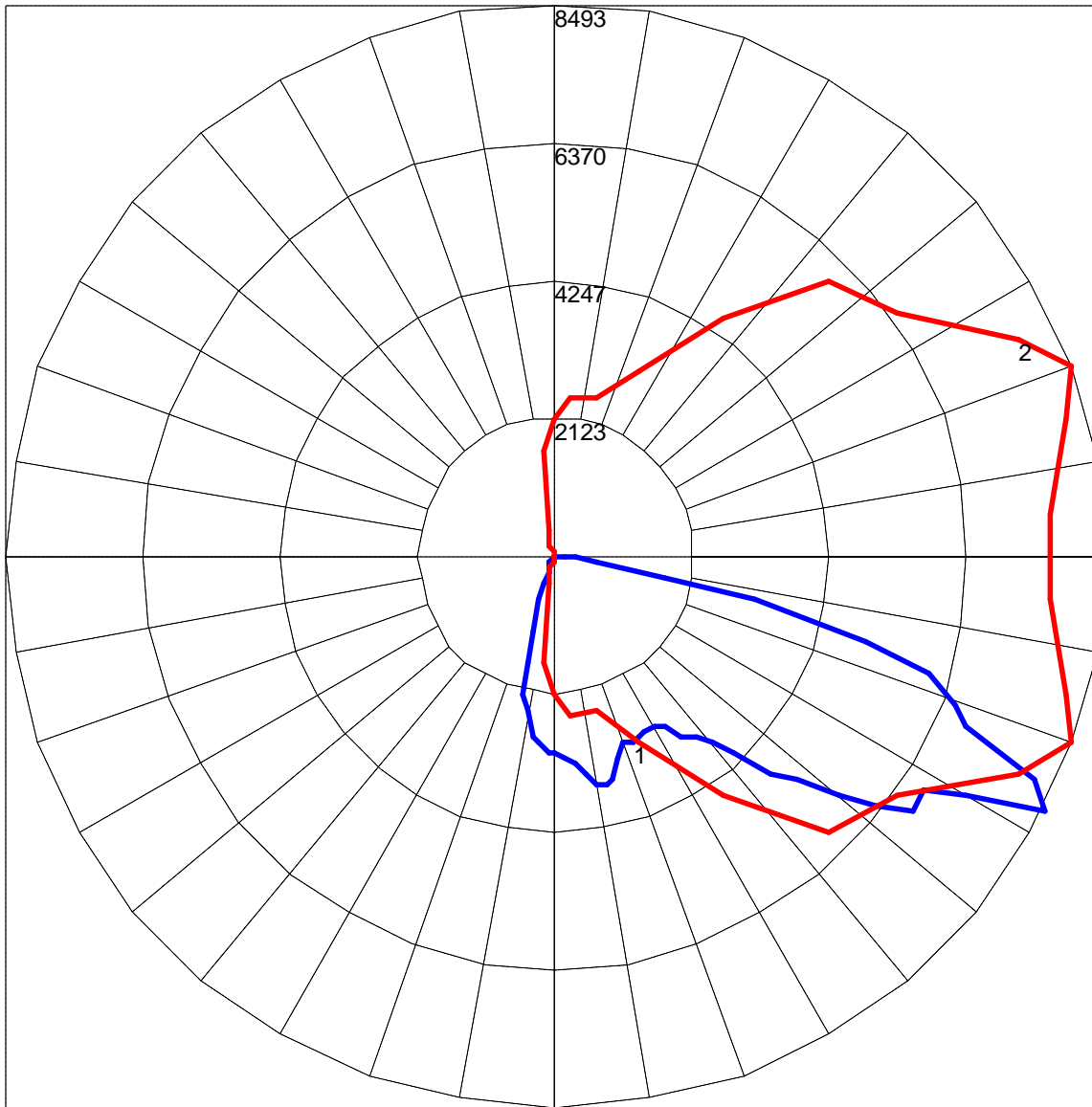
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

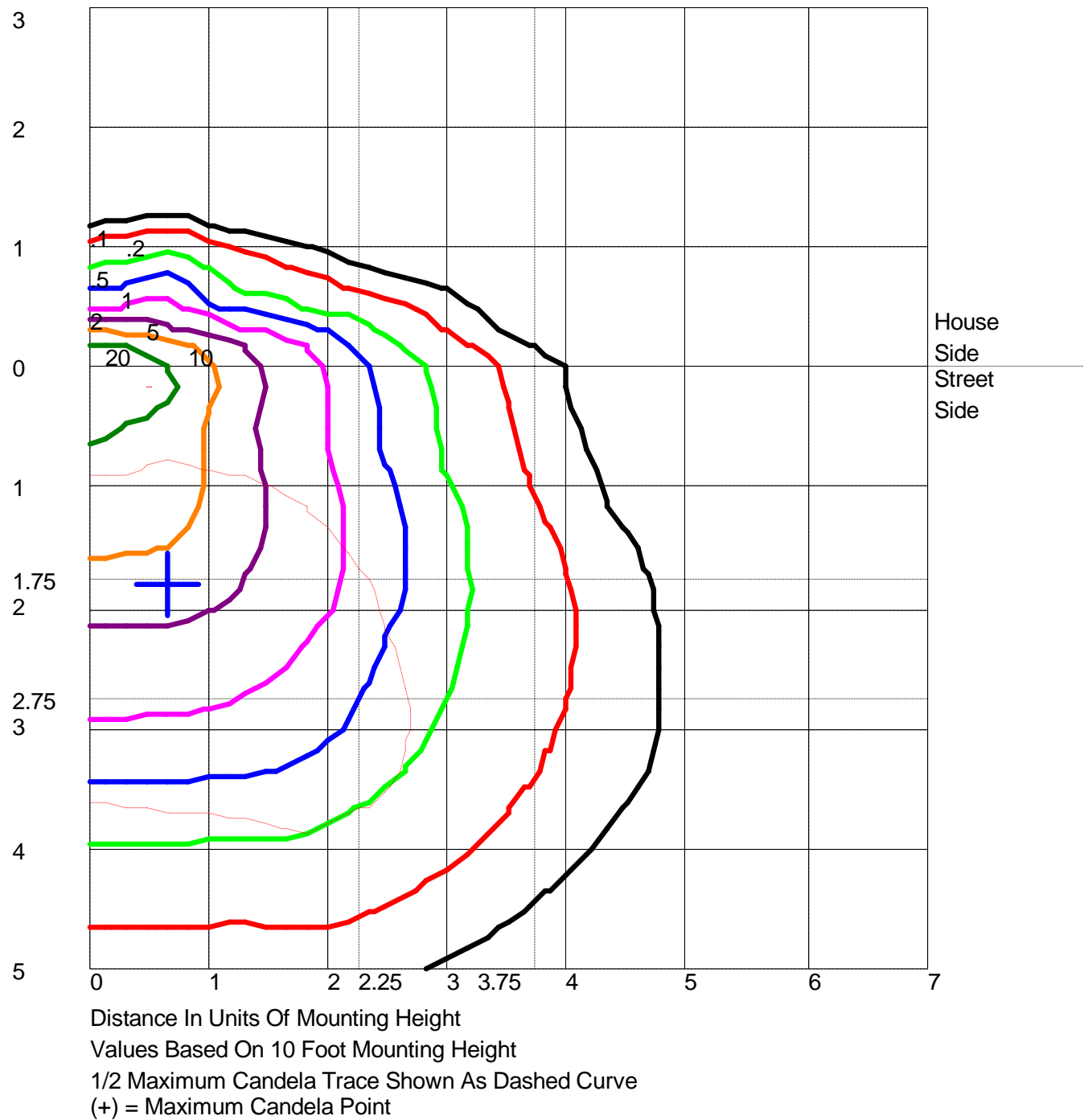
	Lumens	Percent Of Luminaire
Downward Street Side	10806.9	86.3
Downward House Side	1709.6	13.7
Downward Total	12516.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12516.5	100.0

POLAR GRAPH

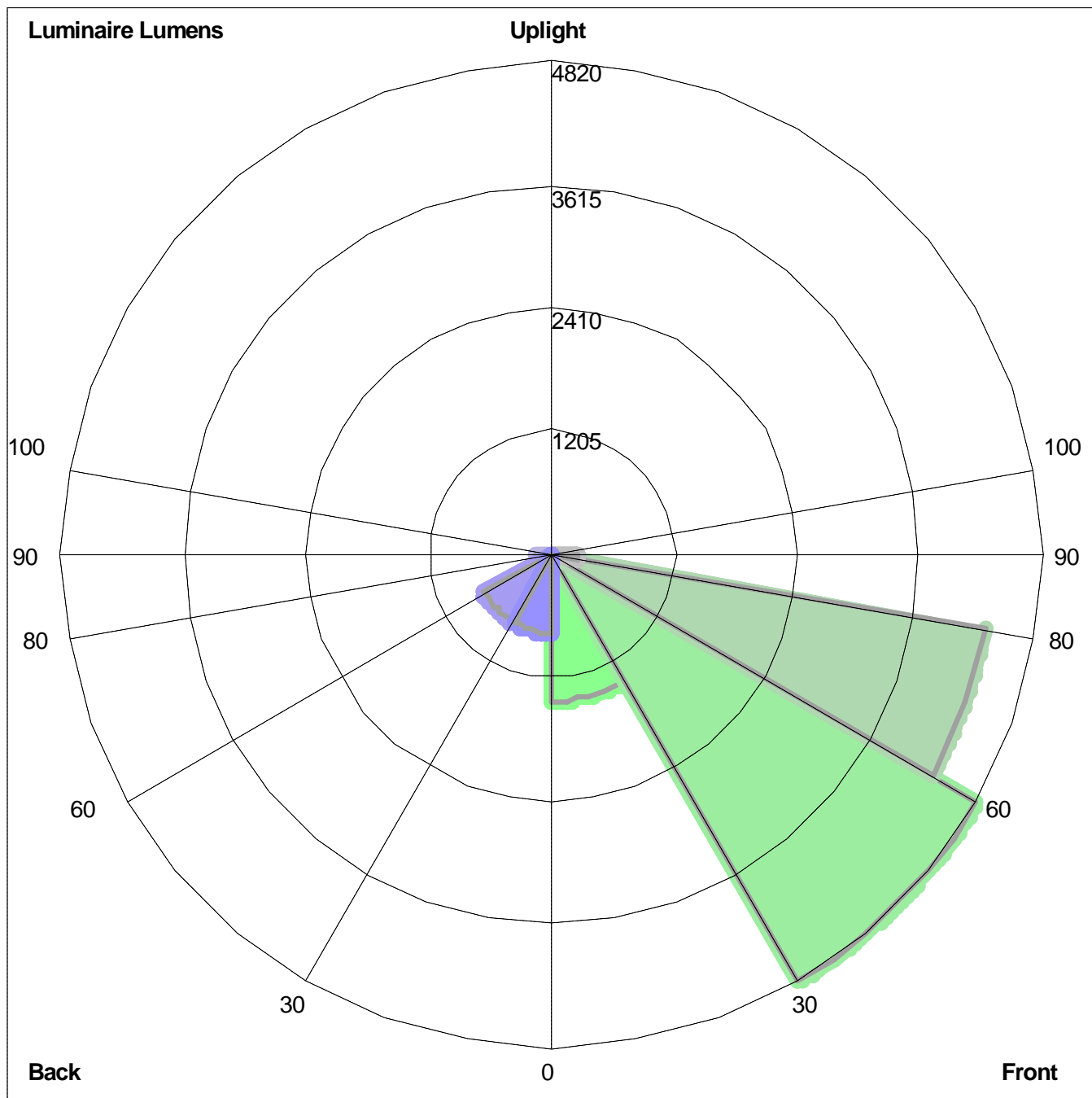


Maximum Candela = 8493 Located At Horizontal Angle = 20, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1433.7, Medium=4819.8, High=4298.2, Very High=255.2
Back: Low=771.8, Medium=774.9, High=157.9, Very High=5.0
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3