



IES ROAD REPORT

PHOTOMETRIC FILENAME : HLN-5W-LED-27L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8462
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]01/17/17
[TESTDATE]01/16/17
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]HLN-5W-LED-27L-50
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27098
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	236.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13272
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	13272
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1754 (6.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1231.1	N.A.	4.5
FM - Front-Medium (30-60)	5556.3	N.A.	20.5
FH - Front-High (60-80)	6626.5	N.A.	24.5
FVH - Front-Very High (80-90)	135.2	N.A.	0.5
BL - Back-Low (0-30)	1231.1	N.A.	4.5
BM - Back-Medium (30-60)	5556.3	N.A.	20.5
BH - Back-High (60-80)	6626.5	N.A.	24.5
BVH - Back-Very High (80-90)	135.2	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	27098.2	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2427	2427	2427	2427	2427	2427	2427	2427	2427	2427
2.5	2434	2433	2434	2437	2437	2437	2412	2433	2435	2425
5.0	2454	2451	2453	2456	2456	2457	2417	2452	2454	2444
7.5	2484	2483	2486	2488	2489	2488	2438	2484	2486	2475
10.0	2532	2531	2535	2539	2536	2536	2479	2528	2528	2517
12.5	2595	2597	2602	2608	2604	2599	2545	2588	2585	2570
15.0	2674	2676	2684	2693	2693	2684	2644	2668	2661	2641
17.5	2762	2767	2779	2793	2797	2794	2763	2768	2750	2723
20.0	2857	2867	2881	2905	2918	2918	2906	2890	2854	2816
22.5	2963	2975	2995	3033	3058	3063	3068	3026	2983	2920
25.0	3077	3085	3116	3173	3215	3225	3250	3180	3126	3037
27.5	3195	3208	3249	3326	3388	3407	3450	3361	3280	3167
30.0	3320	3339	3390	3490	3574	3600	3665	3548	3443	3307
32.5	3441	3466	3538	3662	3771	3812	3888	3748	3621	3463
35.0	3572	3602	3695	3839	3976	4033	4117	3956	3807	3632
37.5	3705	3742	3859	4027	4201	4265	4370	4175	4010	3811
40.0	3852	3891	4027	4229	4424	4505	4619	4404	4221	3998
42.5	4014	4059	4207	4444	4663	4756	4872	4649	4446	4196
45.0	4204	4249	4406	4656	4903	5008	5130	4897	4672	4401
47.5	4416	4461	4625	4885	5144	5276	5404	5159	4905	4637
50.0	4634	4700	4859	5129	5398	5542	5671	5417	5158	4880
52.5	4904	4958	5120	5392	5660	5809	5945	5686	5448	5152
55.0	5210	5279	5414	5683	5953	6103	6251	5969	5756	5455
57.5	5588	5651	5799	6018	6298	6469	6636	6323	6110	5816
60.0	6030	6087	6243	6445	6749	6921	7115	6755	6533	6247
62.5	6579	6632	6790	7008	7327	7522	7750	7301	7064	6794
65.0	7273	7331	7506	7804	8157	8353	8623	8114	7862	7594
67.5	7940	8027	8369	8808	9489	9894	10252	9421	8999	8690
70.0	7480	7566	8306	9484	11108	12052	12452	11189	9934	8845
72.5	4700	5026	6091	7927	11079	13272	13257	11494	8632	6470
75.0	1285	1358	2260	4238	7777	10575	10845	8201	4503	2759
77.5	471	484	618	1174	2967	5051	5353	3320	1514	867
80.0	278	283	336	522	923	1516	1754	1154	716	461
82.5	148	150	179	262	469	680	732	557	373	257
85.0	90	89	98	134	222	324	359	271	185	147
87.5	58	56	59	76	113	150	167	130	104	84
90.0	0	0	0	0	0	0	0	0	0	0

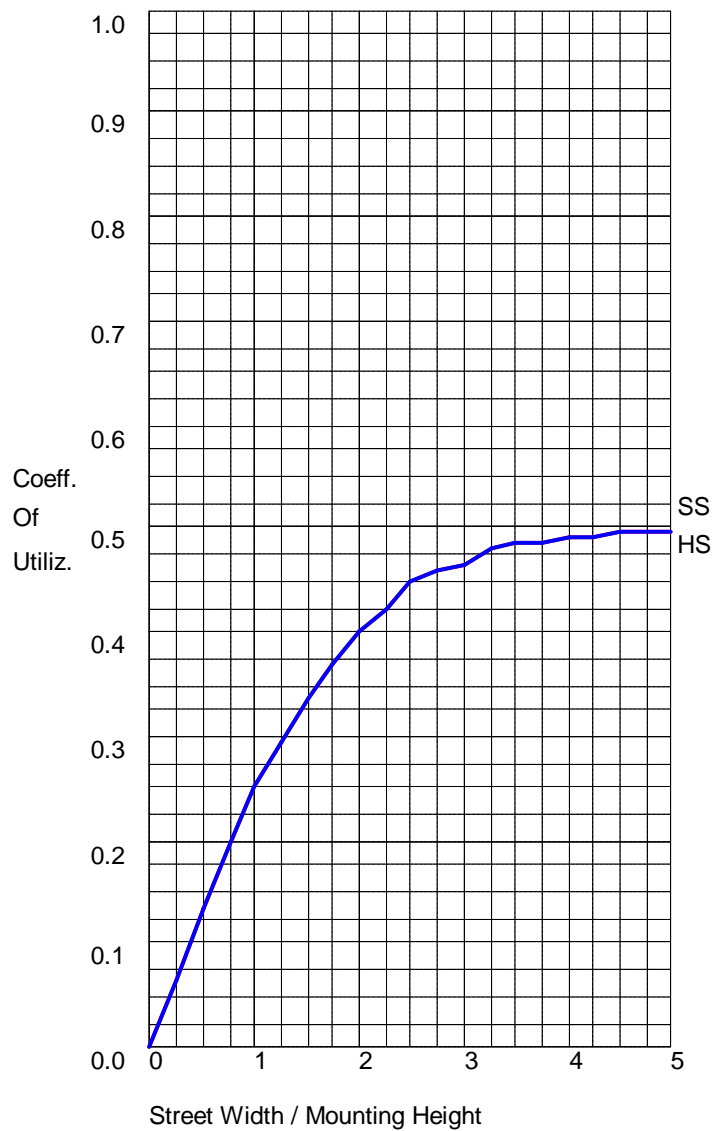
Vert. Angles	Horizontal Angles	
	<u>85.0</u>	<u>90.0</u>
0.0	2427	2427
2.5	2426	2434
5.0	2445	2453
7.5	2475	2481
10.0	2514	2520
12.5	2568	2576
15.0	2634	2641
17.5	2710	2718
20.0	2797	2804
22.5	2891	2898
25.0	2996	3003
27.5	3113	3120

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CANDELA TABULATION - (Cont.)

30.0	3237	3243
32.5	3375	3382
35.0	3527	3531
37.5	3698	3691
40.0	3865	3866
42.5	4057	4055
45.0	4249	4246
47.5	4459	4454
50.0	4699	4698
52.5	4962	4965
55.0	5249	5254
57.5	5590	5598
60.0	5997	5994
62.5	6558	6593
65.0	7380	7382
67.5	8340	8326
70.0	8074	7984
72.5	5330	5215
75.0	2026	1983
77.5	683	674
80.0	405	410
82.5	235	234
85.0	148	147
87.5	83	82
90.0	0	0

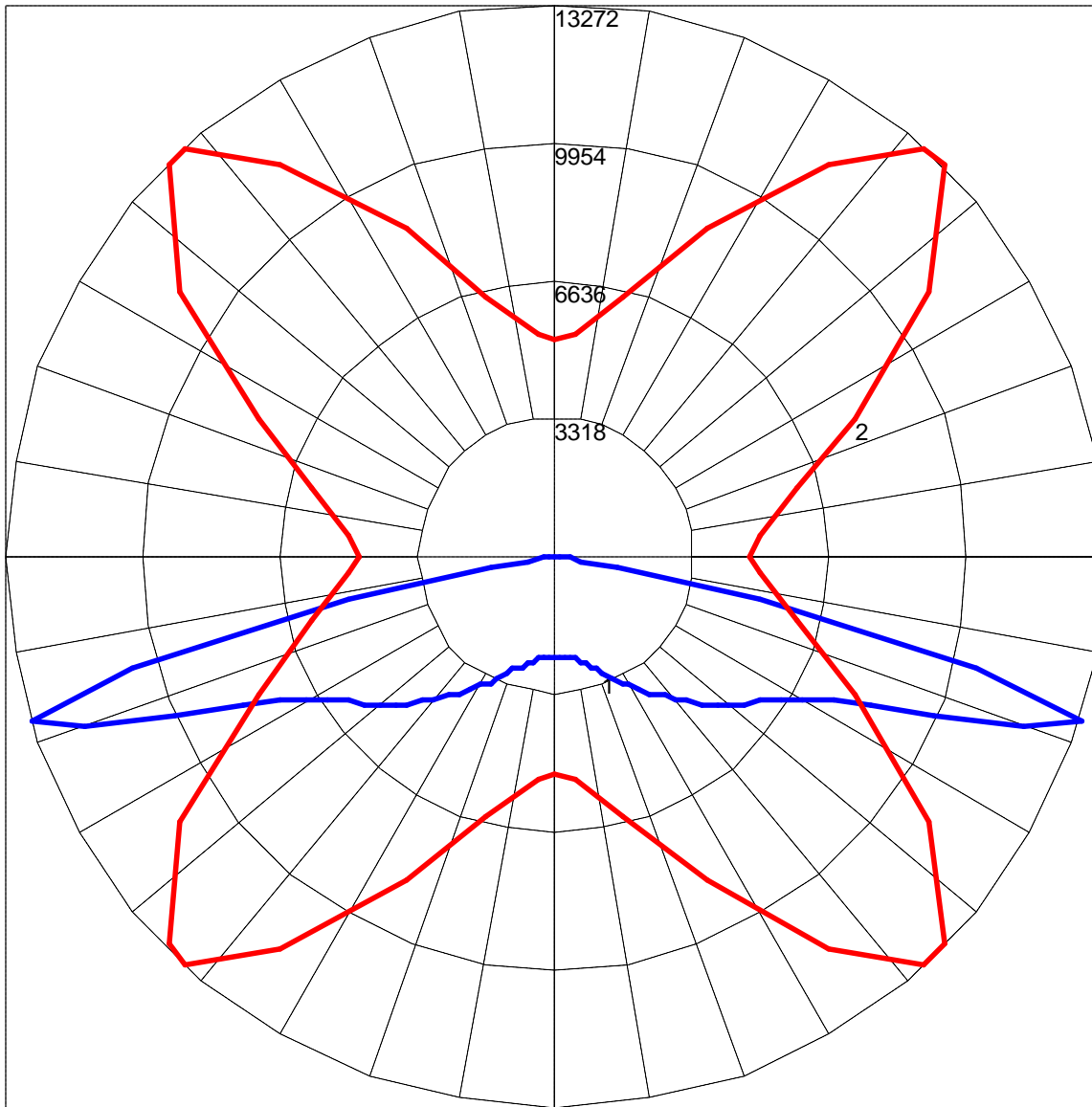
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

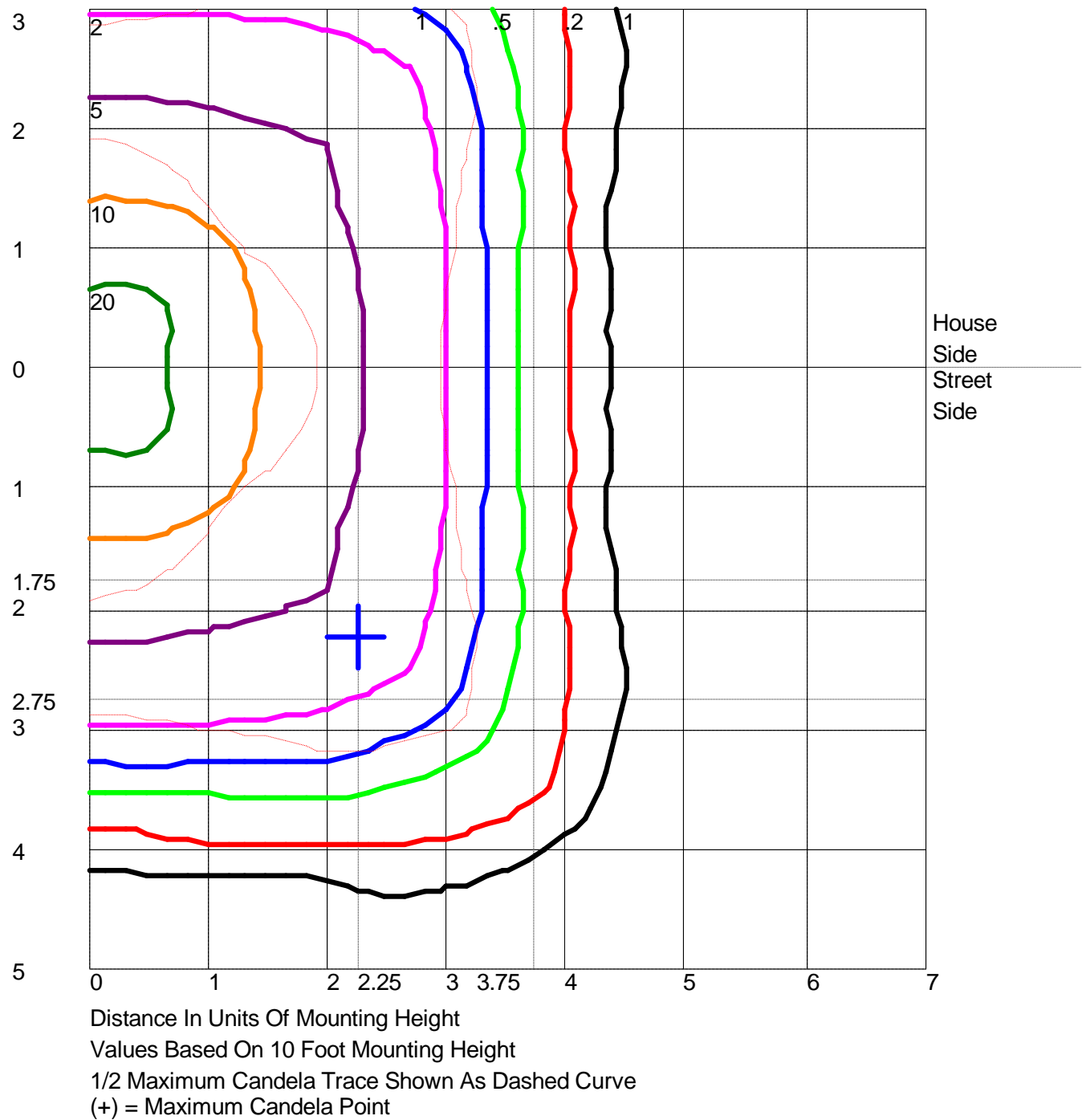
	Lumens	Percent Of Luminaire
Downward Street Side	13549.1	50.0
Downward House Side	13549.1	50.0
Downward Total	27098.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27098.2	100.0

POLAR GRAPH

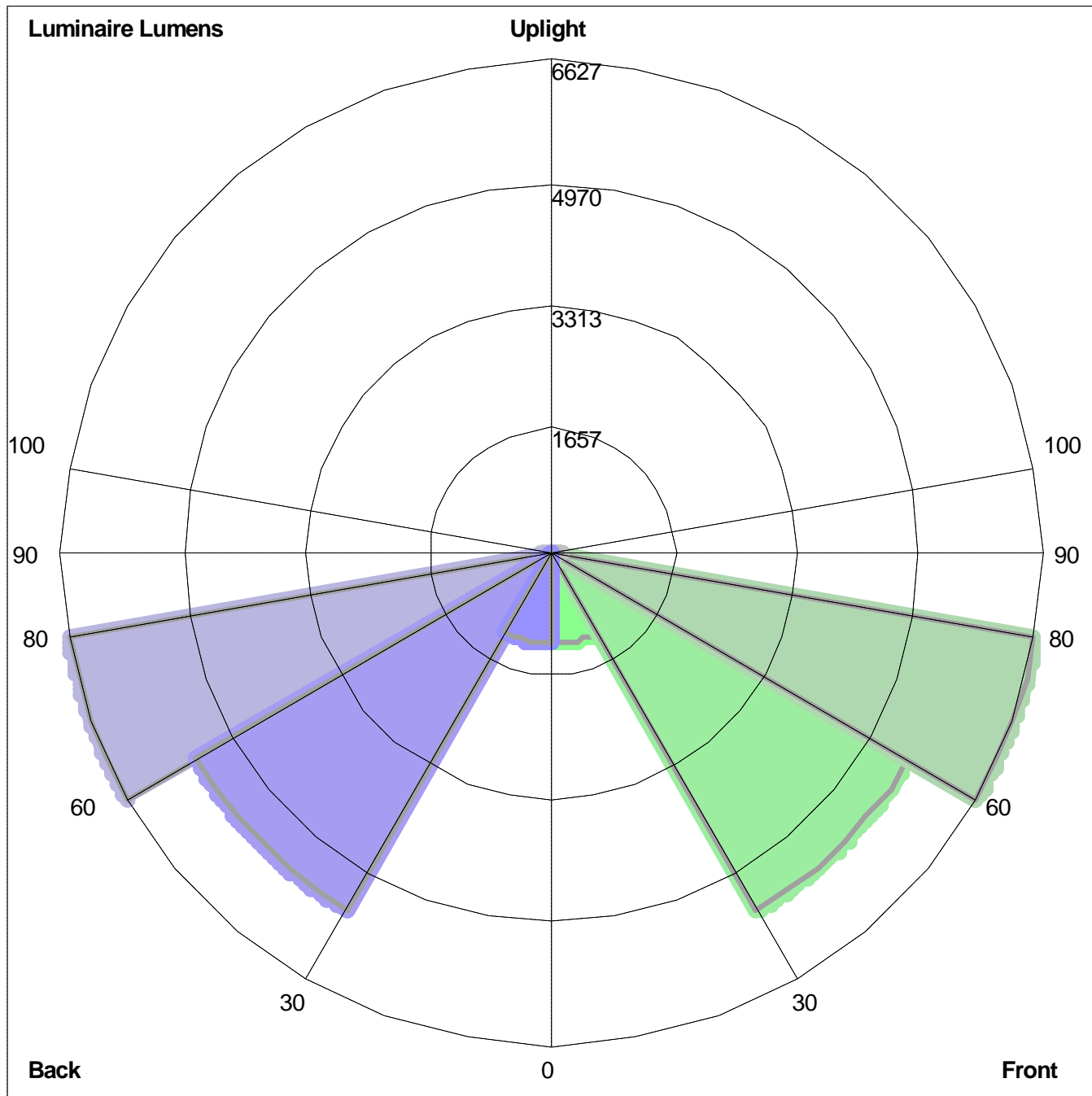


Maximum Candela = 13272 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1231.1, Medium=5556.3, High=6626.5, Very High=135.2
Back: Low=1231.1, Medium=5556.3, High=6626.5, Very High=135.2
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3