



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-2-LED-35-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-8713

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]03/20/17

[TEST DATE]03/20/17

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]XMR-2-LED-35-50-IL

[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25414
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	25593
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	25593
Maximum Candela Angle (<90 Degrees Vertical)	80H 67.5V
Maximum Candela At 90 Degrees Vertical	177 (0.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1539 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2464.3	N.A.	9.7
FM - Front-Medium (30-60)	11847.5	N.A.	46.6
FH - Front-High (60-80)	6774.9	N.A.	26.7
FVH - Front-Very High (80-90)	92.2	N.A.	0.4
BL - Back-Low (0-30)	1326.7	N.A.	5.2
BM - Back-Medium (30-60)	2069.5	N.A.	8.1
BH - Back-High (60-80)	814.8	N.A.	3.2
BVH - Back-Very High (80-90)	5.9	N.A.	0.0
UL - Uplight-Low (90-100)	5.4	N.A.	0.0
UH - Uplight-High (100-180)	12.7	N.A.	0.0
Total	25413.9	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	4876	4876	4876	4876	4876	4876	4876	4876	4876	4876
2.5	4935	4939	4938	4933	4933	4922	4928	4902	4890	4885
5.0	5017	5020	5027	5017	5017	5002	5001	4965	4944	4933
7.5	5105	5111	5118	5109	5107	5094	5095	5052	5020	5006
10.0	5206	5216	5225	5217	5218	5206	5208	5168	5128	5109
12.5	5313	5324	5338	5350	5356	5356	5364	5337	5280	5255
15.0	5380	5387	5418	5458	5519	5538	5567	5547	5480	5448
17.5	5421	5428	5469	5539	5651	5741	5817	5806	5724	5684
20.0	5462	5469	5530	5626	5764	5912	6098	6098	6005	5968
22.5	5481	5497	5580	5710	5882	6061	6334	6425	6348	6286
25.0	5495	5514	5612	5785	5996	6208	6530	6787	6721	6651
27.5	5518	5544	5656	5856	6108	6362	6713	7173	7163	7089
30.0	5652	5672	5780	5977	6253	6540	6925	7551	7665	7585
32.5	5907	5922	6013	6189	6443	6757	7179	7892	8232	8123
35.0	6274	6303	6351	6490	6708	7034	7491	8198	8795	8698
37.5	6753	6777	6815	6885	7060	7394	7854	8519	9353	9334
40.0	7353	7365	7400	7386	7503	7858	8278	8848	9879	9960
42.5	8165	8219	8168	8070	8111	8435	8768	9217	10357	10586
45.0	9277	9340	9266	9075	8939	9182	9391	9589	10808	11245
47.5	10634	10573	10517	10407	10250	10253	10298	10061	11305	11983
50.0	11179	11162	11222	11432	11802	12069	11555	10739	11947	12852
52.5	10872	10892	11084	11585	12646	14049	13523	11723	12634	13812
55.0	9978	10042	10368	11067	12547	15114	16414	13147	13430	15061
57.5	7895	8039	8658	9631	11551	14829	19009	15075	14647	16704
60.0	4545	4491	5008	6720	9305	13085	20255	18762	15895	18711
62.5	1569	1536	1767	2765	5478	9741	20475	22251	17834	21205
65.0	856	825	850	1039	2122	4978	18384	23762	19763	23750
67.5	535	542	555	632	923	1840	12631	23239	22034	25593
70.0	311	319	340	423	607	957	5812	18835	22133	24570
72.5	164	167	169	242	418	643	2094	11557	17553	16386
75.0	83	86	87	125	233	453	991	5054	8653	5999
77.5	65	65	65	75	110	256	508	2024	3417	1867
80.0	67	65	59	63	77	117	243	720	1539	936
82.5	64	62	55	55	66	100	144	345	670	508
85.0	40	41	41	45	55	90	150	262	418	327
87.5	15	15	16	19	28	61	142	322	335	208
90.0	8	7	7	10	12	24	63	172	177	95
92.5	2	2	4	3	1	0	1	4	4	4
95.0	0	1	2	2	0	0	0	0	1	2
97.5	0	0	2	2	0	0	0	0	0	0
100.0	1	1	2	2	0	0	0	0	0	0
102.5	1	0	2	2	0	0	0	0	0	0
105.0	0	1	2	2	0	0	0	0	0	0
107.5	0	0	2	1	0	0	0	0	0	0
110.0	0	0	3	2	0	0	0	0	0	0
112.5	0	0	2	2	0	0	0	0	0	0
115.0	0	1	2	2	0	0	0	0	0	0
117.5	0	1	2	2	0	0	0	0	0	1
120.0	0	1	2	2	0	0	0	0	0	1
122.5	0	1	3	2	0	0	0	0	0	1
125.0	1	0	3	2	0	0	0	0	0	1
127.5	0	0	2	2	0	0	0	0	0	2
130.0	0	1	2	1	0	0	0	0	0	1

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CANDELA TABULATION - (Cont.)

132.5	0	0	2	2	0	0	0	0	0	1
135.0	1	1	2	2	0	0	0	0	1	2
137.5	0	0	1	1	0	0	0	0	0	1
140.0	0	1	2	1	0	0	0	0	0	0
142.5	0	0	1	0	0	0	0	0	0	0
145.0	0	0	1	0	0	0	0	0	0	0
147.5	0	0	1	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	1	0	0	0	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	2	1	0	0	0	0	0	0	0	0
162.5	2	0	0	0	0	0	0	0	0	0
165.0	2	1	0	0	0	0	0	0	0	0
167.5	2	2	1	0	0	0	0	0	0	0
170.0	2	1	1	1	0	0	0	0	0	0
172.5	2	1	1	1	0	0	0	0	0	0
175.0	3	2	2	2	0	0	0	0	0	0
177.5	3	2	2	2	0	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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	4876	4876	4876	4876	4876	4876	4876	4876	4876	4876
2.5	4879	4861	4874	4878	4879	4864	4868	4842	4857	4858
5.0	4921	4898	4909	4900	4887	4851	4829	4774	4765	4745
7.5	4987	4958	4961	4934	4894	4811	4728	4611	4551	4488
10.0	5084	5052	5041	4987	4892	4729	4551	4331	4187	4093
12.5	5219	5186	5158	5061	4889	4607	4287	3962	3743	3543
15.0	5398	5354	5312	5156	4877	4433	3960	3421	2923	2551
17.5	5618	5561	5507	5262	4855	4210	3368	2507	1893	1509
20.0	5884	5799	5720	5382	4798	3783	2511	1616	1058	801
22.5	6187	6083	5975	5523	4687	3043	1725	945	648	563
25.0	6539	6418	6279	5692	4393	2321	1095	639	534	490
27.5	6997	6830	6651	5893	3893	1657	728	544	479	441
30.0	7490	7311	7098	6089	3275	1107	594	493	434	392
32.5	8031	7839	7581	6214	2635	770	527	444	384	335
35.0	8609	8405	8121	6212	1984	625	473	392	323	259
37.5	9225	9004	8650	6017	1348	550	417	327	237	172
40.0	9864	9637	9202	5611	906	491	360	249	147	101
42.5	10522	10325	9783	4978	683	434	293	157	80	55
45.0	11237	11059	10332	4127	578	375	214	91	42	27
47.5	12114	11868	10914	3069	505	309	135	48	17	9
50.0	13044	12766	11464	2134	450	240	82	20	6	4
52.5	14118	13768	11964	1406	426	170	45	9	3	4
55.0	15559	14815	12360	1033	411	113	21	5	4	5
57.5	17280	16525	12607	924	388	76	12	4	5	6
60.0	19377	18096	12520	874	342	71	10	5	6	8
62.5	21653	19578	11752	780	251	65	11	5	6	6
65.0	23591	20507	10016	650	210	44	10	6	4	8
67.5	24335	19543	7161	414	161	32	10	3	9	21
70.0	21323	15108	3726	210	86	22	7	9	12	7
72.5	12332	7764	1416	99	42	15	9	7	3	1
75.0	4130	2662	569	43	15	9	6	2	0	0
77.5	1272	905	297	15	8	6	1	0	0	0

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CANDELA TABULATION - (Cont.)

80.0	642	474	179	12	7	4	0	0	0	0
82.5	344	251	98	11	6	1	0	0	0	0
85.0	212	140	34	6	1	1	0	0	0	0
87.5	115	52	6	1	1	0	0	1	0	0
90.0	29	7	4	3	2	2	2	3	2	0
92.5	4	3	3	2	2	1	1	1	0	0
95.0	2	3	4	4	3	3	2	1	0	0
97.5	1	2	4	5	5	3	2	1	0	0
100.0	1	3	4	6	6	4	3	1	0	1
102.5	1	2	4	7	7	5	4	2	1	1
105.0	1	3	5	7	7	5	4	3	1	1
107.5	1	2	4	7	6	6	5	4	2	1
110.0	1	3	5	7	7	6	5	5	3	2
112.5	1	3	5	6	7	6	6	4	3	2
115.0	2	3	5	6	7	6	6	5	4	3
117.5	2	3	5	6	7	7	6	5	4	3
120.0	2	3	5	6	7	7	7	5	4	4
122.5	2	4	5	7	8	7	7	6	5	4
125.0	3	4	5	7	8	8	7	6	5	5
127.5	3	4	5	7	8	8	8	7	5	5
130.0	3	4	5	7	8	8	8	7	5	5
132.5	3	3	5	7	8	8	8	7	6	5
135.0	2	4	5	7	8	8	8	8	6	5
137.5	2	3	4	6	8	8	7	7	6	5
140.0	1	2	3	5	7	7	7	7	6	4
142.5	0	1	2	4	6	6	7	6	5	3
145.0	0	1	1	3	5	6	6	6	5	3
147.5	0	0	1	3	5	6	6	6	5	3
150.0	0	0	1	2	4	5	6	5	4	2
152.5	0	0	0	2	4	5	5	5	3	2
155.0	0	0	0	2	4	4	5	5	3	1
157.5	0	0	0	2	3	4	4	4	3	1
160.0	0	0	0	1	3	4	4	4	2	1
162.5	0	0	0	1	2	3	3	3	1	0
165.0	0	0	0	0	1	3	3	2	1	0
167.5	0	0	0	0	1	1	2	2	1	0
170.0	0	0	0	0	1	2	2	2	0	0
172.5	0	0	0	0	0	1	1	1	0	0
175.0	0	0	0	0	0	0	1	1	0	0
177.5	0	0	0	0	0	1	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	4876	4876
2.5	4842	4831
5.0	4720	4705
7.5	4443	4427
10.0	4020	4003
12.5	3452	3428
15.0	2408	2380
17.5	1363	1339
20.0	707	713
22.5	534	527
25.0	471	466

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CANDELA TABULATION - (Cont.)

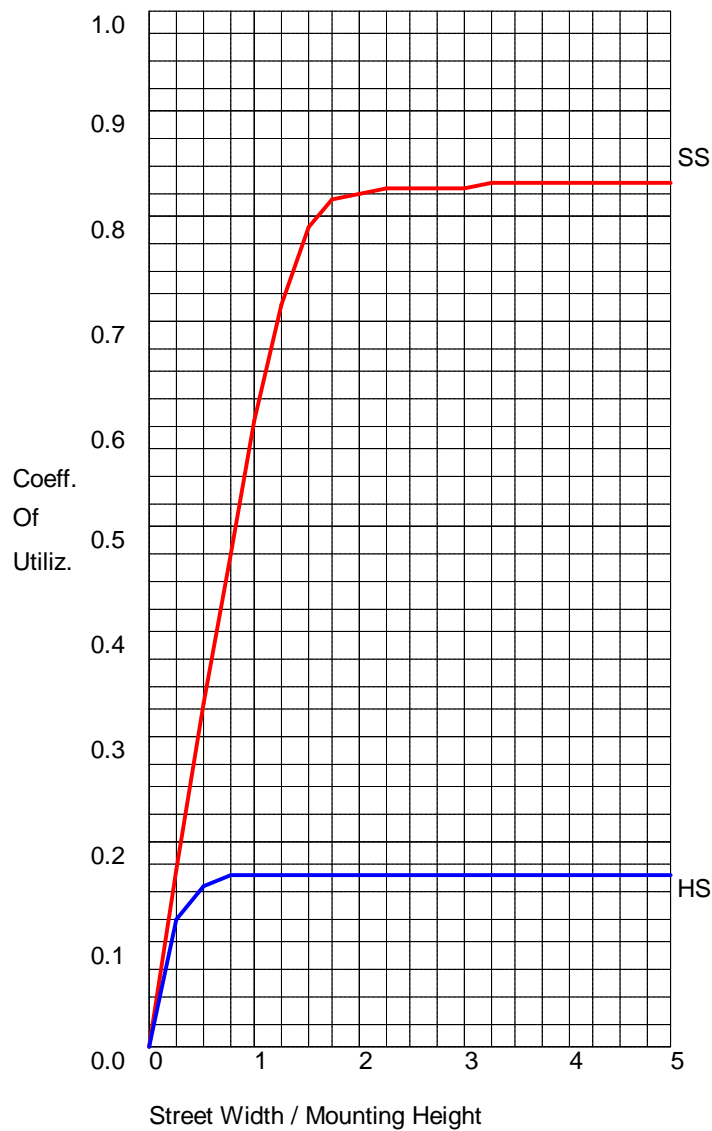
27.5	421	415
30.0	365	364
32.5	304	301
35.0	226	220
37.5	144	141
40.0	85	82
42.5	48	47
45.0	22	21
47.5	4	3
50.0	1	0
52.5	2	0
55.0	3	3
57.5	5	5
60.0	8	8
62.5	4	4
65.0	7	6
67.5	21	19
70.0	2	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	1	0
120.0	1	0
122.5	1	0
125.0	2	1
127.5	2	1
130.0	2	2
132.5	2	2
135.0	3	2
137.5	3	2
140.0	2	0
142.5	1	0
145.0	1	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	1	1

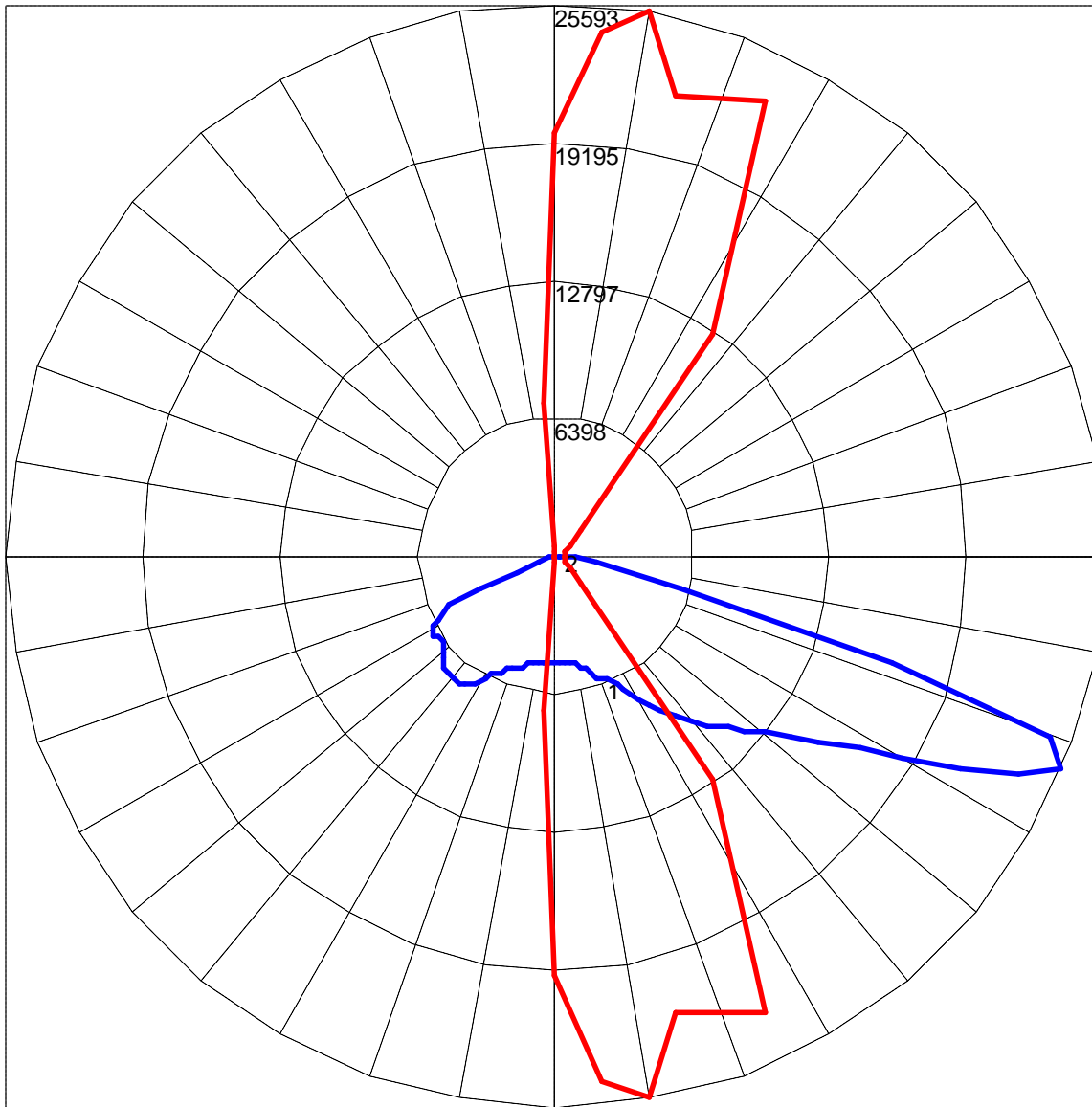
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

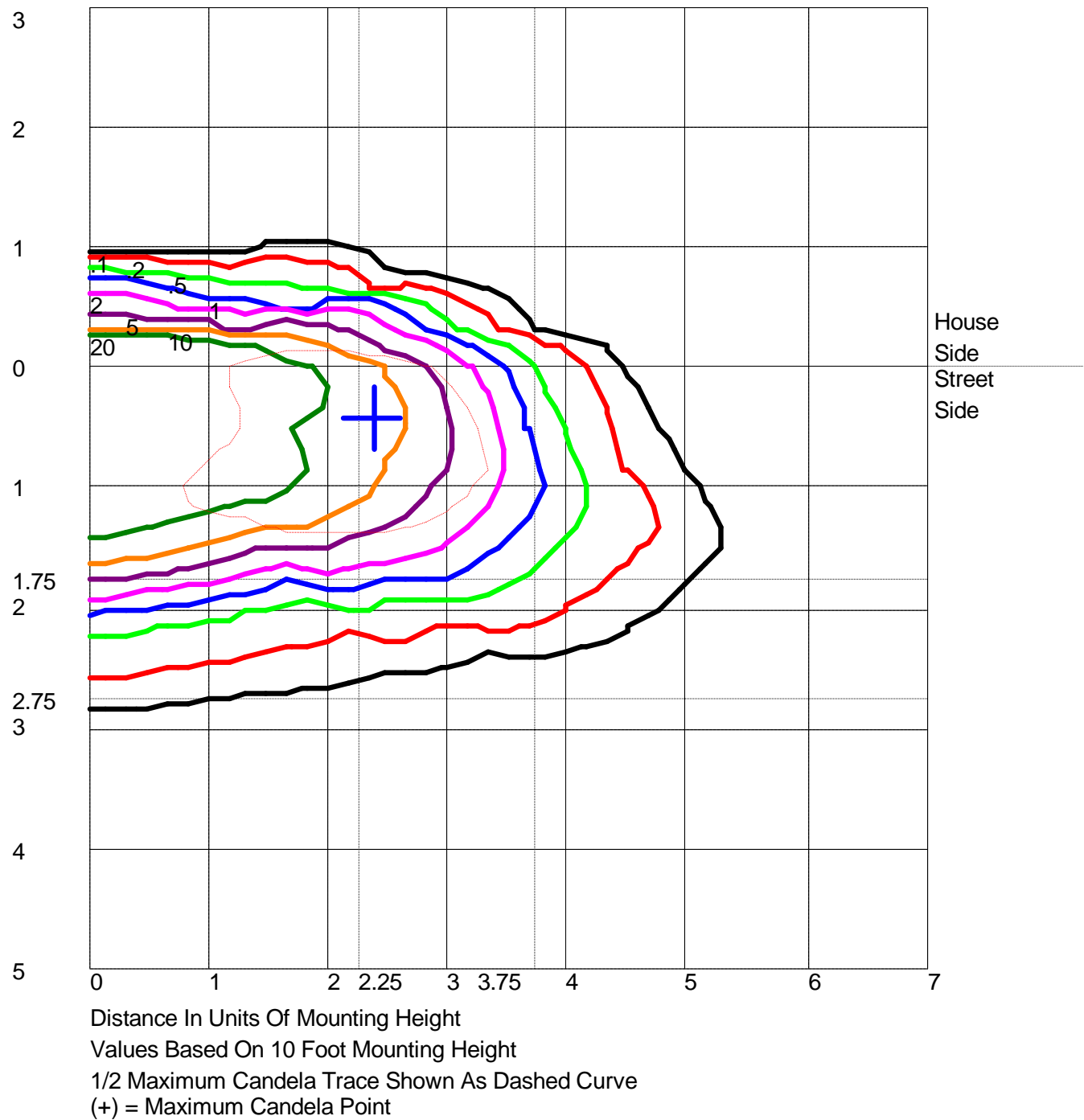
	Lumens	Percent Of Luminaire
Downward Street Side	21178.9	83.3
Downward House Side	4216.9	16.6
Downward Total	25395.8	99.9
Upward Street Side	5.8	0.0
Upward House Side	12.2	0.0
Upward Total	18.0	0.1
Total Flux	25413.8	100.0

POLAR GRAPH

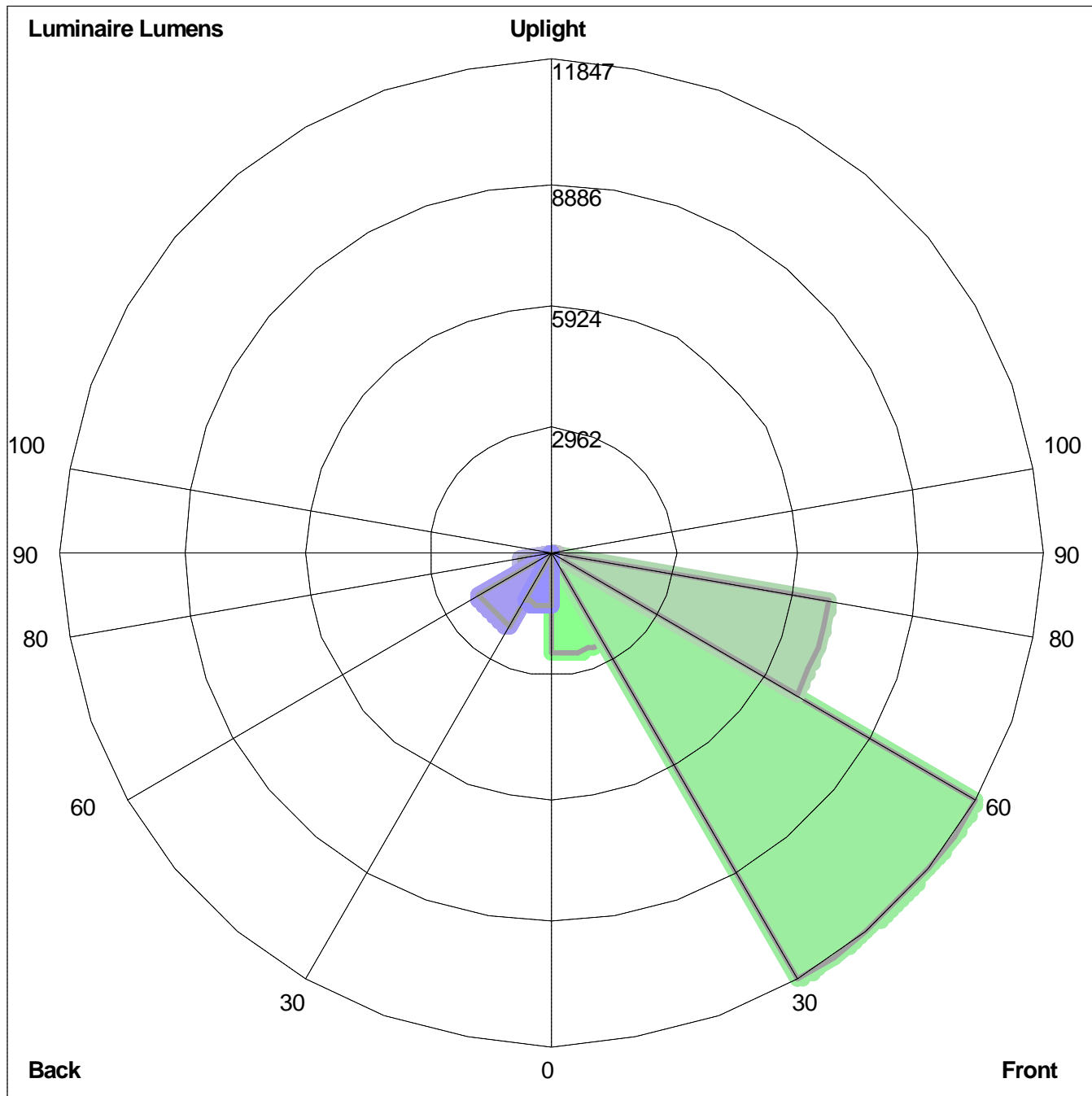


Maximum Candela = 25593 Located At Horizontal Angle = 80, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2464.3, Medium=11847.5, High=6774.9, Very High=92.2
Back: Low=1326.7, Medium=2069.5, High=814.8, Very High=5.9
Uplight: Low=5.4, High=12.7

BUG Rating : B3-U2-G3