



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-25L-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11754  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/24/20  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-FT-LED-25L-50  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26259
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14657
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	14657
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	213 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4385 (16.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1206.4	N.A.	4.6
FM - Front-Medium (30-60)	8339.0	N.A.	31.8
FH - Front-High (60-80)	8678.0	N.A.	33.0
FVH - Front-Very High (80-90)	512.3	N.A.	2.0
BL - Back-Low (0-30)	1204.6	N.A.	4.6
BM - Back-Medium (30-60)	4301.4	N.A.	16.4
BH - Back-High (60-80)	1796.2	N.A.	6.8
BVH - Back-Very High (80-90)	156.2	N.A.	0.6
UL - Uplight-Low (90-100)	19.1	N.A.	0.1
UH - Uplight-High (100-180)	46.2	N.A.	0.2
Total	26259.4	N.A.	100.0
BUG Rating	B3-U2-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>5.0</b>	<b>15.0</b>	<b>25.0</b>	<b>35.0</b>	<b>37.5</b>	<b>45.0</b>	<b>55.0</b>	<b>65.0</b>	<b>75.0</b>
<b>0.0</b>	2331	2331	2331	2331	2331	2331	2331	2331	2331	2331
<b>2.5</b>	2346	2337	2311	2315	2300	2312	2296	2285	2295	2300
<b>5.0</b>	2186	2140	2151	2206	2193	2210	2195	2117	2133	2141
<b>7.5</b>	2059	2034	2084	2007	1987	1973	1976	2017	2143	2152
<b>10.0</b>	2010	2001	2036	1913	1962	1963	2012	2075	2097	2174
<b>12.5</b>	2098	2170	2074	1984	2078	2060	2063	2152	2153	2252
<b>15.0</b>	2150	2283	2217	2253	2309	2267	2181	2257	2264	2395
<b>17.5</b>	2320	2396	2318	2410	2434	2399	2434	2369	2402	2561
<b>20.0</b>	2609	2676	2640	2637	2658	2622	2609	2630	2585	2745
<b>22.5</b>	2925	2837	2906	2972	3000	2917	2892	2947	2798	2942
<b>25.0</b>	3291	3189	3306	3284	3301	3333	3300	3199	3174	3165
<b>27.5</b>	3726	3930	3924	3711	3677	3725	3715	3550	3470	3435
<b>30.0</b>	4385	4313	4214	4224	4192	4104	4158	4047	3815	3718
<b>32.5</b>	5204	5248	4881	4631	4706	4694	4560	4536	4247	4001
<b>35.0</b>	5897	5776	5621	5326	5186	5180	5193	5055	4622	4413
<b>37.5</b>	6655	6660	6221	5915	5862	5832	5744	5542	5102	4625
<b>40.0</b>	7118	7138	6890	6697	6499	6447	6291	6101	5588	4960
<b>42.5</b>	7576	7575	7414	7392	7133	7122	6901	6619	5977	5179
<b>45.0</b>	8013	8012	7973	7921	7794	7721	7568	7166	6363	5429
<b>47.5</b>	8405	8448	8451	8430	8419	8350	8205	7808	6845	5735
<b>50.0</b>	8752	8797	8876	8914	9001	8990	8866	8479	7440	6147
<b>52.5</b>	9038	9073	9217	9323	9553	9589	9490	9253	8183	6680
<b>55.0</b>	9212	9285	9458	9692	10086	10058	10120	10099	8981	7295
<b>57.5</b>	9296	9398	9613	9996	10555	10506	10778	10968	9882	7942
<b>60.0</b>	9359	9451	9726	10144	10976	11075	11505	11851	10717	8575
<b>62.5</b>	9513	9596	9934	10340	11478	11698	12309	12733	11459	8994
<b>65.0</b>	9853	9906	10340	10836	12212	12446	13158	13448	11898	8919
<b>67.5</b>	10181	10277	10970	11778	13230	13387	13936	13797	11468	7890
<b>70.0</b>	9581	9691	10768	12793	14358	14447	14477	13190	9634	5795
<b>72.5</b>	7816	8101	9341	11860	14535	14657	13991	10812	6645	3437
<b>75.0</b>	5216	5524	6958	9390	12391	12678	11336	7502	3979	2225
<b>77.5</b>	2804	3000	4018	6031	8161	8377	7232	4630	2533	1469
<b>80.0</b>	1402	1556	2537	3550	4222	4385	4006	2852	1612	931
<b>82.5</b>	871	917	1608	2096	2073	2225	2267	1522	973	524
<b>85.0</b>	647	687	1073	1269	1383	1326	1044	679	474	290
<b>87.5</b>	432	471	716	649	754	654	222	238	147	126
<b>90.0</b>	114	160	213	75	65	54	28	14	8	10
<b>92.5</b>	22	23	19	13	10	12	10	8	8	8
<b>95.0</b>	9	9	10	12	10	12	10	8	7	8
<b>97.5</b>	8	8	9	10	9	10	9	8	7	8
<b>100.0</b>	7	7	8	9	8	8	9	8	7	8
<b>102.5</b>	6	7	7	7	7	8	8	7	7	8
<b>105.0</b>	6	6	7	7	7	7	7	7	7	8
<b>107.5</b>	7	6	7	7	7	7	7	7	7	8
<b>110.0</b>	7	7	7	7	7	7	7	7	7	8
<b>112.5</b>	7	7	7	7	7	7	8	7	7	8
<b>115.0</b>	8	8	8	8	8	8	8	7	8	9
<b>117.5</b>	9	9	9	9	8	8	8	8	8	9
<b>120.0</b>	10	10	10	10	9	9	9	8	8	10
<b>122.5</b>	12	12	12	12	9	9	9	8	9	10
<b>125.0</b>	12	12	12	12	10	10	10	8	9	10
<b>127.5</b>	12	12	12	12	12	12	10	9	9	12
<b>130.0</b>	13	13	13	12	12	12	12	9	9	13

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**CANDELA TABULATION - (Cont.)**

132.5	13	13	13	13	12	12	12	9	9	13
135.0	12	12	10	10	10	10	9	8	8	10
137.5	6	6	5	6	6	7	6	6	6	7
140.0	2	2	3	4	5	5	5	5	5	6
142.5	1	1	3	4	4	4	4	4	5	5
145.0	1	1	3	4	4	4	4	4	4	5
147.5	1	1	3	4	4	4	4	4	4	5
150.0	2	1	3	4	4	4	4	4	4	5
152.5	2	1	3	4	4	4	4	4	4	5
155.0	2	1	3	4	4	4	4	4	4	4
157.5	1	1	3	4	4	4	4	4	4	4
160.0	1	1	3	3	4	3	3	3	4	4
162.5	1	1	3	3	3	3	3	3	3	4
165.0	1	1	3	3	3	3	3	3	3	4
167.5	1	1	3	3	4	4	4	3	4	4
170.0	1	1	3	3	4	4	4	4	4	4
172.5	1	1	3	3	4	4	4	4	4	4
175.0	1	1	2	4	4	4	4	4	4	4
177.5	1	1	3	4	4	4	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

**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	2331	2331	2331	2331	2331	2331	2331	2331	2331	2331
2.5	2308	2315	2315	2291	2317	2320	2325	2339	2319	2329
5.0	2175	2174	2165	2171	2188	2263	2268	2244	2254	2215
7.5	2148	2147	2173	2264	2278	2144	2105	2079	2131	2149
10.0	2145	2172	2214	2371	2182	2142	2102	2027	2080	2139
12.5	2268	2303	2337	2382	2234	2167	2130	2214	2330	2348
15.0	2402	2440	2430	2420	2269	2237	2368	2477	2546	2602
17.5	2574	2570	2584	2500	2339	2437	2610	2655	2681	2726
20.0	2841	2853	2848	2655	2463	2715	2831	2828	2912	2964
22.5	3175	3132	3088	2899	2787	2969	2932	3035	3077	3053
25.0	3365	3391	3412	3096	3129	3154	3158	3148	3179	3255
27.5	3640	3577	3616	3262	3460	3379	3309	3247	3393	3443
30.0	3824	3826	3791	3461	3680	3633	3472	3470	3559	3642
32.5	3978	4036	3951	3689	3840	3795	3630	3590	3657	3897
35.0	4289	4192	4149	3866	3974	3920	3820	3762	3922	4174
37.5	4467	4414	4265	4119	4056	4001	3896	3942	4086	4440
40.0	4537	4458	4294	4191	4052	4027	3982	4047	4285	4669
42.5	4600	4461	4264	4099	3974	3992	3925	4119	4411	4496
45.0	4717	4509	4278	4024	3818	3885	3849	4046	4445	4129
47.5	4864	4589	4300	3947	3644	3735	3689	3910	4228	3758
50.0	5104	4731	4368	3868	3468	3584	3528	3790	3907	3447
52.5	5392	4921	4461	3801	3291	3391	3345	3633	3610	3157
55.0	5754	5135	4581	3747	3089	3176	3157	3400	3293	2893
57.5	6101	5342	4711	3675	2863	2969	2970	3157	2984	2600
60.0	6381	5457	4686	3535	2650	2770	2775	2893	2617	2367
62.5	6379	5303	4251	3300	2428	2570	2571	2596	2324	2147
65.0	5945	4606	3358	2914	2191	2348	2331	2330	2068	1968
67.5	4737	3466	2375	2374	1934	2090	2117	2116	1834	1804
70.0	3029	2230	1645	1839	1646	1807	1897	1892	1629	1638
72.5	1723	1294	1133	1369	1338	1515	1654	1660	1430	1454
75.0	1203	850	771	1007	1053	1212	1384	1397	1146	1048
77.5	795	559	538	733	811	973	1099	935	688	705

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**CANDELA TABULATION - (Cont.)**

80.0	441	342	392	551	639	761	655	616	523	545
82.5	292	229	282	415	500	439	453	467	360	407
85.0	173	119	170	280	265	281	303	274	184	271
87.5	62	39	76	118	130	137	122	120	88	126
90.0	10	9	22	29	35	32	26	19	9	10
92.5	9	9	21	30	36	32	26	18	7	6
95.0	8	9	20	28	32	30	24	18	8	7
97.5	7	9	17	24	28	26	22	17	9	8
100.0	7	9	15	20	24	23	20	16	10	9
102.5	8	9	12	16	19	20	18	15	10	10
105.0	8	9	10	14	16	17	16	15	10	10
107.5	8	9	10	13	15	16	15	14	12	10
110.0	9	10	10	13	14	15	14	14	12	10
112.5	9	10	12	13	14	15	15	14	12	12
115.0	9	10	12	13	15	16	16	16	14	13
117.5	10	12	12	14	15	17	17	17	15	14
120.0	10	12	13	15	16	17	18	17	16	14
122.5	12	13	14	15	17	17	18	18	16	15
125.0	13	14	15	15	16	17	18	18	16	15
127.5	14	14	15	15	16	17	17	17	17	15
130.0	14	14	15	16	17	17	17	17	16	15
132.5	14	15	15	16	16	16	16	15	15	14
135.0	13	13	14	14	14	14	14	13	13	12
137.5	8	8	8	9	8	7	7	6	5	5
140.0	6	6	7	7	6	5	4	3	2	1
142.5	6	6	6	6	5	4	3	2	1	0
145.0	5	6	6	6	5	4	3	2	1	0
147.5	5	6	6	6	5	4	3	2	1	0
150.0	5	5	6	5	5	4	3	2	1	0
152.5	5	5	5	5	4	3	3	1	0	0
155.0	5	5	5	5	4	3	2	1	0	0
157.5	5	5	5	5	4	3	2	1	0	0
160.0	4	5	5	5	4	3	2	0	0	0
162.5	4	5	5	4	4	2	2	0	0	0
165.0	4	5	5	4	4	2	1	0	0	0
167.5	4	5	5	4	4	2	1	0	0	0
170.0	5	5	5	5	4	2	1	0	0	0
172.5	5	5	5	5	4	3	1	0	0	0
175.0	5	5	5	4	3	2	1	0	0	0
177.5	5	5	5	4	3	2	1	0	0	0
180.0	3	3	3	3	3	3	3	3	3	3

**Vert. Horizontal Angles**  
**Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	2331	2331
2.5	2353	2356
5.0	2191	2186
7.5	2131	2131
10.0	2151	2188
12.5	2450	2427
15.0	2697	2651
17.5	2831	2827
20.0	3032	3041
22.5	3161	3112
25.0	3354	3343

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**CANDELA TABULATION - (Cont.)**

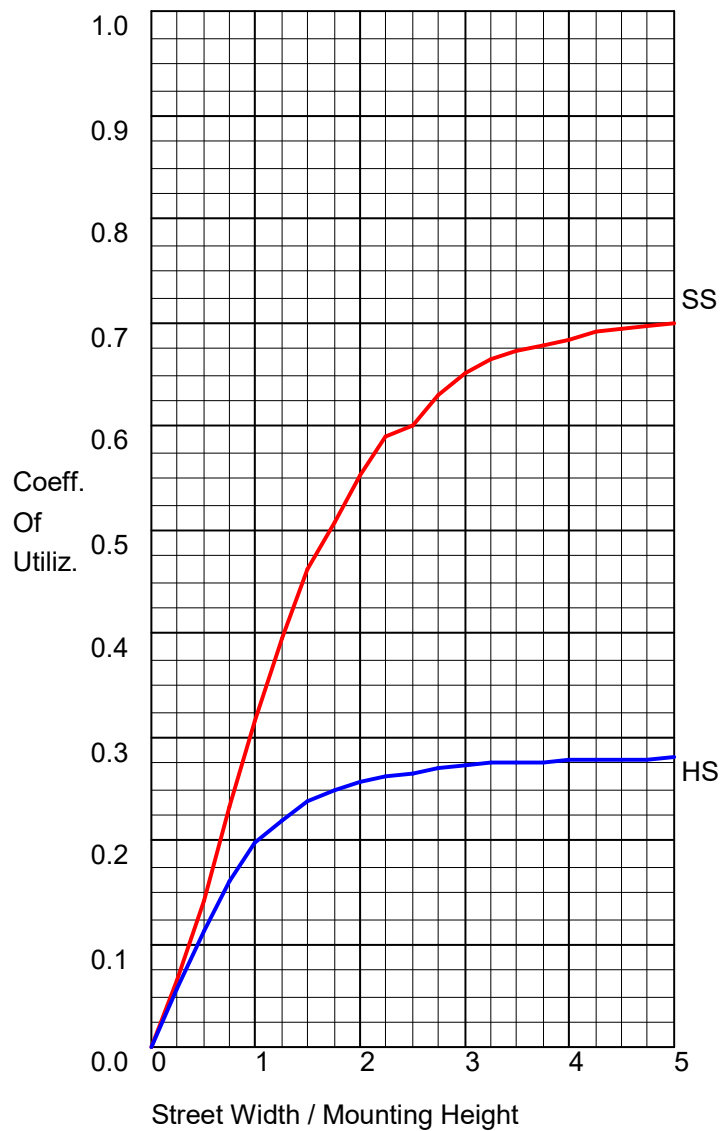
<b>27.5</b>	3549	3586
<b>30.0</b>	3787	3740
<b>32.5</b>	4121	4151
<b>35.0</b>	4328	4333
<b>37.5</b>	4660	4626
<b>40.0</b>	4584	4526
<b>42.5</b>	4152	4078
<b>45.0</b>	3791	3732
<b>47.5</b>	3513	3461
<b>50.0</b>	3259	3228
<b>52.5</b>	3027	2987
<b>55.0</b>	2800	2732
<b>57.5</b>	2516	2468
<b>60.0</b>	2319	2278
<b>62.5</b>	2144	2117
<b>65.0</b>	2004	1978
<b>67.5</b>	1883	1857
<b>70.0</b>	1768	1750
<b>72.5</b>	1601	1604
<b>75.0</b>	1166	1146
<b>77.5</b>	910	933
<b>80.0</b>	754	798
<b>82.5</b>	595	633
<b>85.0</b>	419	457
<b>87.5</b>	238	286
<b>90.0</b>	14	29
<b>92.5</b>	3	3
<b>95.0</b>	4	4
<b>97.5</b>	5	5
<b>100.0</b>	7	7
<b>102.5</b>	8	7
<b>105.0</b>	8	8
<b>107.5</b>	8	8
<b>110.0</b>	8	8
<b>112.5</b>	8	8
<b>115.0</b>	10	9
<b>117.5</b>	10	10
<b>120.0</b>	12	12
<b>122.5</b>	12	12
<b>125.0</b>	12	12
<b>127.5</b>	12	12
<b>130.0</b>	12	12
<b>132.5</b>	12	12
<b>135.0</b>	8	8
<b>137.5</b>	3	3
<b>140.0</b>	0	0
<b>142.5</b>	0	0
<b>145.0</b>	0	0
<b>147.5</b>	0	0
<b>150.0</b>	0	0
<b>152.5</b>	0	0
<b>155.0</b>	0	0
<b>157.5</b>	0	0
<b>160.0</b>	0	0
<b>162.5</b>	0	0
<b>165.0</b>	0	0

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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	<b>0</b>	<b>0</b>
<b>170.0</b>	<b>0</b>	<b>0</b>
<b>172.5</b>	<b>0</b>	<b>0</b>
<b>175.0</b>	<b>0</b>	<b>0</b>
<b>177.5</b>	<b>0</b>	<b>0</b>
<b>180.0</b>	<b>3</b>	<b>3</b>

### COEFFICIENTS OF UTILIZATION

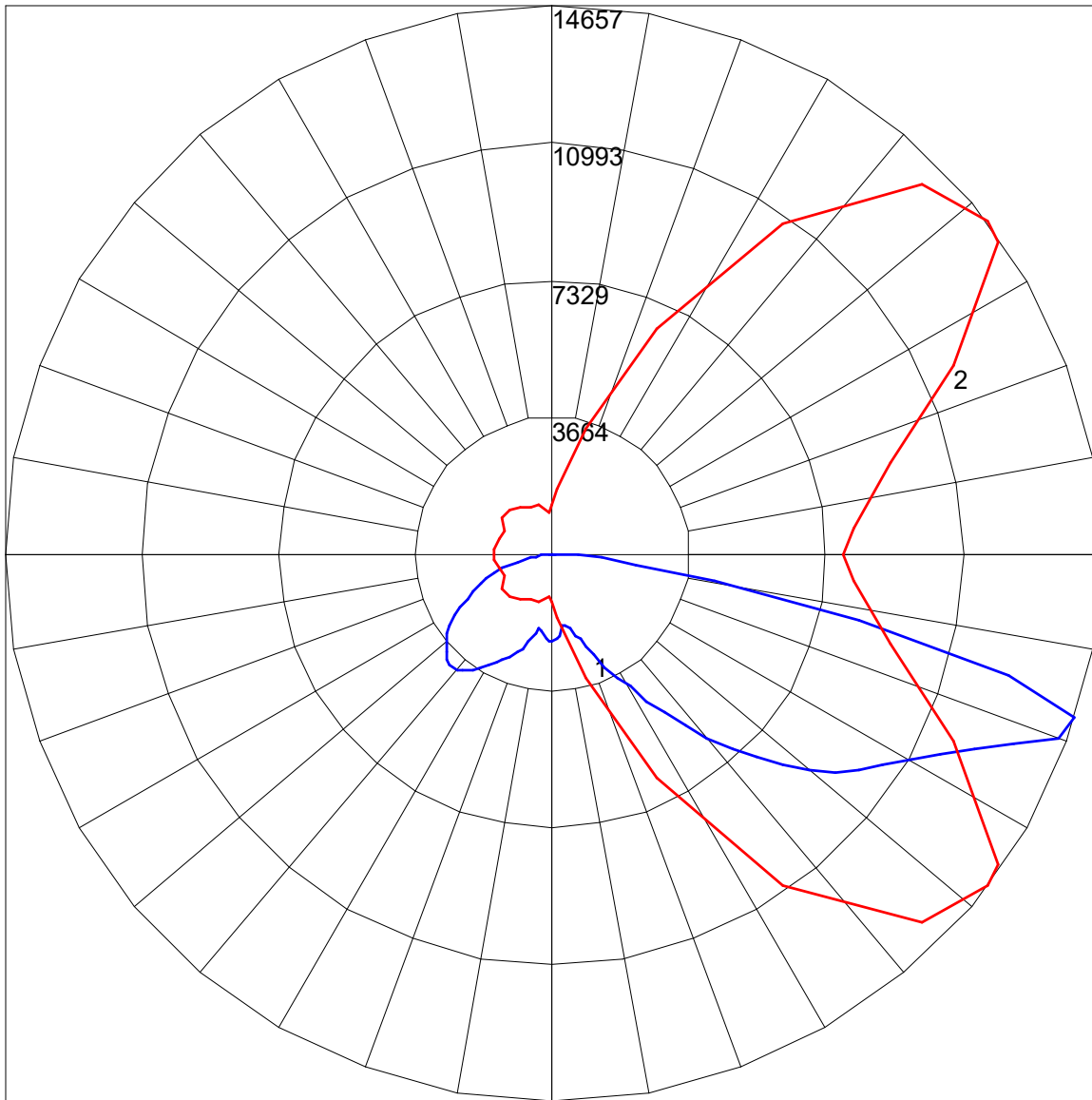


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	18735.7	71.3
Downward House Side	7458.3	28.4
Downward Total	26194.0	99.8
Upward Street Side	28.0	0.1
Upward House Side	37.2	0.1
Upward Total	65.2	0.2
Total Flux	26259.2	100.0

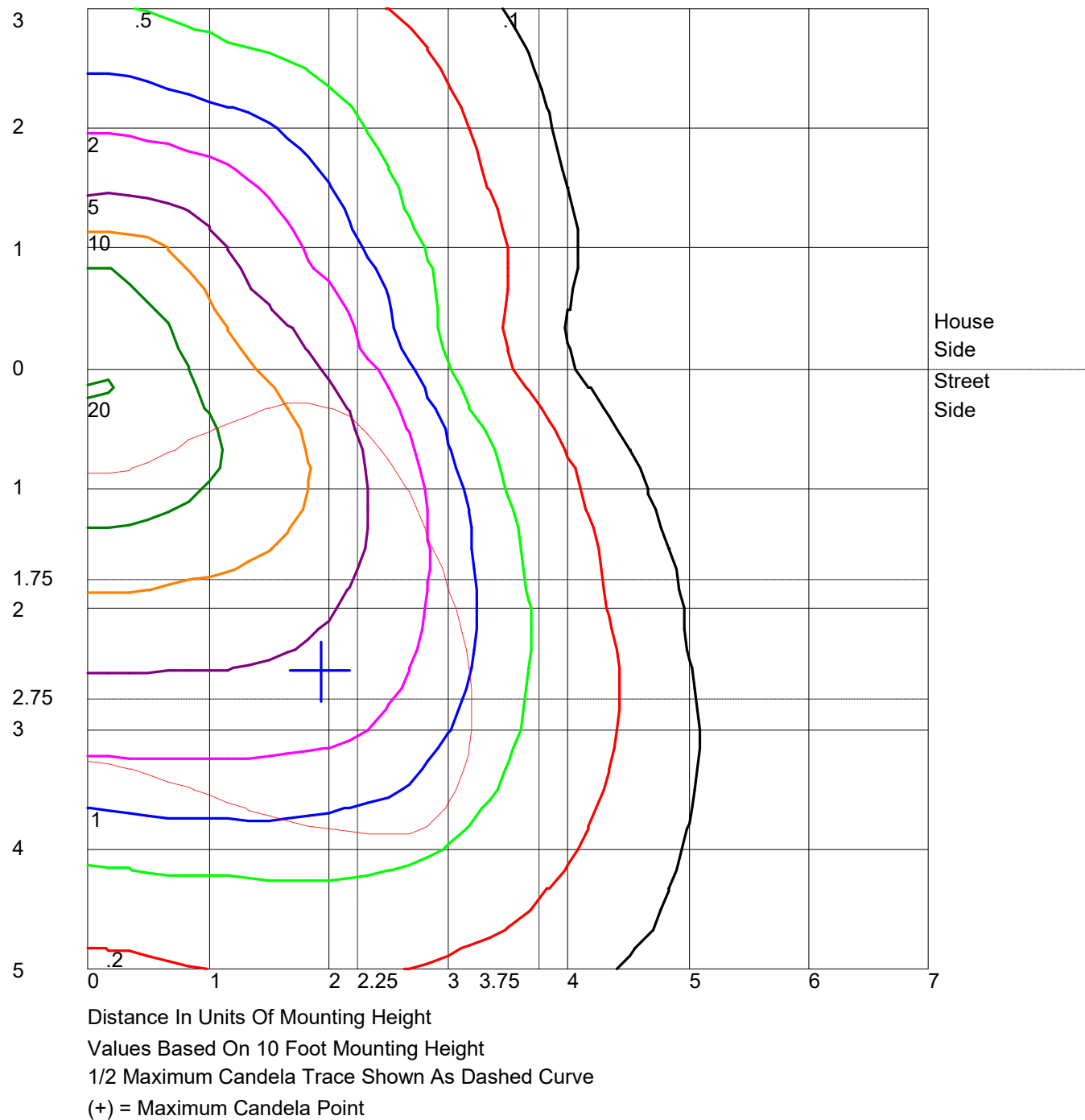


POLAR GRAPH

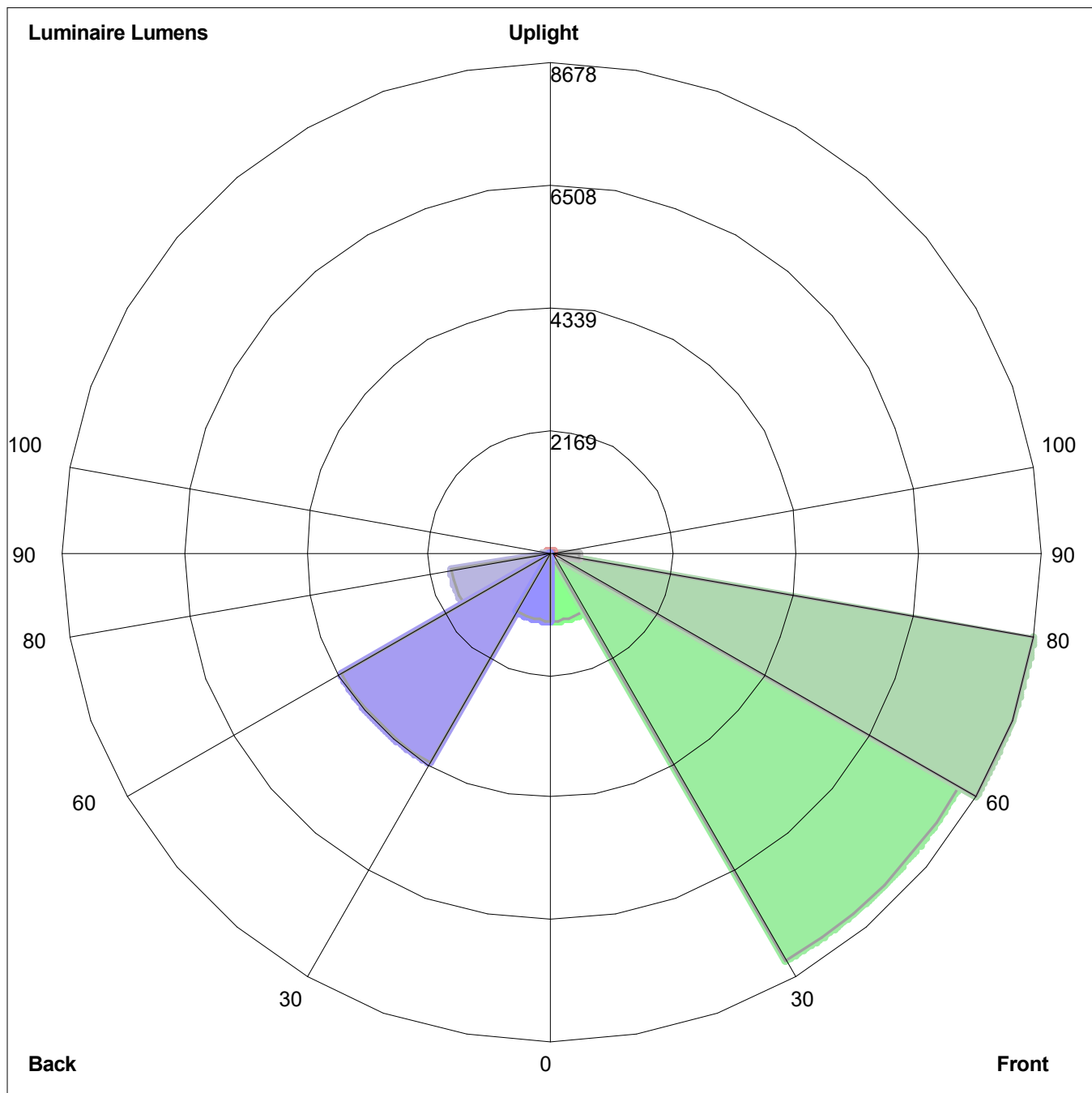


Maximum Candela = 14657 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1206.4, Medium= 8339.0, High= 8678.0, Very High=512.3  
Back: Low=1204.6, Medium=4301.4, High=1796.2, Very High=156.2  
Uplight: Low=19.1, High=46.2

BUG Rating : B3-U2-G4