



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11769  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 04/27/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-PT-3-LED-05L-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 III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5426
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4913
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	4913
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	27 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	566 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	158.1	N.A.	2.9
FM - Front-Medium (30-60)	2135.8	N.A.	39.4
FH - Front-High (60-80)	1889.5	N.A.	34.8
FVH - Front-Very High (80-90)	52.5	N.A.	1.0
BL - Back-Low (0-30)	153.2	N.A.	2.8
BM - Back-Medium (30-60)	686.8	N.A.	12.7
BH - Back-High (60-80)	308.4	N.A.	5.7
BVH - Back-Very High (80-90)	29.5	N.A.	0.5
UL - Uplight-Low (90-100)	4.4	N.A.	0.1
UH - Uplight-High (100-180)	8.1	N.A.	0.1
Total	5426.3	N.A.	100.0
BUG Rating	B1-U1-G2		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES**

**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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	251	251	251	251	251	251	251	251	251	251
2.5	248	248	244	244	246	247	249	248	248	249
5.0	225	227	232	238	242	231	232	232	230	230
7.5	220	226	232	228	224	223	229	231	242	236
10.0	224	227	230	224	227	240	240	241	241	241
12.5	237	247	241	235	245	250	250	251	251	258
15.0	260	267	266	269	273	269	273	274	273	270
17.5	281	286	286	290	297	302	296	295	296	297
20.0	327	323	325	326	334	335	335	337	327	322
22.5	356	371	374	383	382	381	396	389	371	361
25.0	411	411	424	443	459	454	465	465	444	415
27.5	507	528	528	533	546	576	564	561	550	511
30.0	625	605	629	659	671	740	724	710	693	627
32.5	811	804	776	800	869	896	910	880	854	741
35.0	1023	999	983	995	1043	1107	1120	1082	1014	887
37.5	1201	1186	1181	1202	1265	1326	1323	1286	1190	995
40.0	1375	1390	1406	1421	1512	1558	1514	1482	1357	1118
42.5	1535	1554	1593	1701	1745	1773	1700	1656	1487	1204
45.0	1743	1765	1833	1972	2007	2011	1868	1805	1602	1287
47.5	2017	2058	2142	2254	2274	2201	2024	1949	1716	1380
50.0	2348	2391	2469	2550	2535	2392	2174	2093	1845	1489
52.5	2720	2766	2844	2862	2778	2591	2329	2252	2002	1633
55.0	3097	3108	3200	3195	3036	2769	2507	2431	2194	1846
57.5	3362	3393	3507	3490	3376	2988	2772	2709	2473	2147
60.0	3286	3353	3574	3696	3785	3381	3149	3111	2884	2550
62.5	2646	2701	3066	3502	4024	3876	3667	3612	3302	2883
65.0	1525	1572	1939	2674	3708	4269	4286	4217	3687	3039
67.5	713	734	915	1446	2685	4123	4823	4722	3886	2894
70.0	389	393	484	719	1496	3363	4913	4869	3697	2245
72.5	230	233	302	466	833	2046	4042	4011	2817	1181
75.0	147	157	205	326	564	1082	2453	2482	1468	460
77.5	104	111	151	259	416	607	1200	1189	612	211
80.0	72	77	113	207	327	361	566	566	304	113
82.5	46	51	85	148	237	219	229	247	154	74
85.0	36	39	61	105	131	118	98	108	86	46
87.5	30	31	46	79	70	38	34	32	31	24
90.0	19	19	25	27	21	9	7	6	5	4
92.5	4	4	6	5	3	3	3	3	3	2
95.0	2	2	2	2	2	2	3	3	2	2
97.5	2	2	2	2	2	2	2	2	2	2
100.0	1	1	1	1	1	2	2	2	2	2
102.5	1	1	1	1	1	2	2	2	1	2
105.0	1	1	1	1	1	1	1	1	1	2
107.5	1	1	1	1	1	1	1	1	1	2
110.0	1	1	1	1	1	1	1	1	1	2
112.5	1	1	1	1	1	1	1	1	1	2
115.0	2	1	2	2	2	2	1	1	2	2
117.5	2	1	1	2	2	2	1	1	2	2
120.0	2	2	2	2	2	2	1	1	1	2
122.5	2	2	2	2	2	2	1	1	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES**

**CANDELA TABULATION - (Cont.)**

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	1	1	2	2
137.5	1	1	1	1	1	1	1	1	1	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	0	1	0	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	0	0	0	0	1	1	1	1
160.0	0	0	0	0	1	0	1	1	1	1
162.5	0	0	0	0	0	0	1	1	1	1
165.0	0	0	0	0	1	1	1	1	1	1
167.5	0	0	0	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	0	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

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	251	251	251	251	251	251	251	251	251	251
2.5	251	252	253	252	254	255	259	259	254	252
5.0	232	233	236	244	250	251	255	259	259	255
7.5	240	240	245	259	255	250	248	256	258	265
10.0	237	238	246	256	253	265	265	266	265	271
12.5	253	255	266	267	272	271	282	298	298	314
15.0	268	269	269	273	275	299	311	330	337	333
17.5	285	278	278	290	294	327	350	360	365	365
20.0	305	297	297	294	317	354	365	384	392	392
22.5	341	319	318	318	351	384	402	408	410	420
25.0	382	365	352	334	405	419	422	424	437	449
27.5	450	405	393	365	436	444	445	456	470	483
30.0	519	461	427	393	461	487	476	490	496	514
32.5	587	517	461	422	490	519	516	530	559	588
35.0	678	579	503	445	503	543	558	565	641	684
37.5	755	642	534	460	513	558	571	620	710	810
40.0	811	677	549	466	515	564	576	641	844	932
42.5	855	709	559	456	501	560	568	664	988	908
45.0	913	746	573	449	485	544	559	661	1132	828
47.5	977	788	593	445	466	524	540	639	1184	786
50.0	1065	841	623	446	446	507	521	610	1144	766
52.5	1164	898	650	448	426	487	503	574	1064	752
55.0	1277	963	678	447	405	463	481	527	953	731
57.5	1428	1055	704	433	379	432	455	481	819	694
60.0	1655	1166	684	400	351	395	424	437	654	668
62.5	1915	1202	593	356	322	353	379	386	516	640
65.0	1991	1081	450	310	296	316	334	352	403	596
67.5	1733	803	334	274	269	284	300	322	332	521
70.0	1053	476	237	238	237	246	264	294	289	424
72.5	452	233	159	188	199	208	224	262	241	318
75.0	188	117	113	149	163	177	192	215	160	196
77.5	97	73	86	121	138	151	150	121	96	134

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES**

**CANDELA TABULATION - (Cont.)**

80.0	64	50	69	102	117	108	81	93	71	94
82.5	43	35	54	84	90	67	62	71	43	67
85.0	26	21	41	65	52	47	43	31	21	43
87.5	12	8	28	39	34	27	19	15	8	22
90.0	2	2	9	12	12	10	7	4	1	2
92.5	2	2	5	7	10	9	7	3	1	0
95.0	2	2	4	7	9	9	6	3	1	0
97.5	2	2	4	6	8	7	5	3	1	0
100.0	2	2	3	5	6	6	4	3	1	0
102.5	2	2	3	4	5	5	4	2	1	1
105.0	2	2	3	3	4	4	3	2	1	1
107.5	2	2	3	3	4	3	3	2	1	1
110.0	2	2	2	3	3	3	3	2	1	1
112.5	2	2	2	3	3	3	3	2	1	1
115.0	2	2	3	3	3	3	3	2	1	1
117.5	2	2	2	3	3	3	3	2	1	1
120.0	2	2	2	3	3	3	3	2	1	1
122.5	2	2	2	3	3	3	3	2	2	1
125.0	2	2	3	3	3	3	3	3	2	1
127.5	2	2	3	3	3	3	3	2	2	1
130.0	2	2	3	3	3	3	3	2	2	1
132.5	2	2	2	3	3	3	3	2	2	1
135.0	2	2	2	3	3	3	2	2	1	1
137.5	2	2	2	2	2	2	2	1	1	0
140.0	1	2	2	2	2	2	1	1	0	0
142.5	1	1	2	2	2	2	1	1	0	0
145.0	1	1	1	1	2	1	1	1	0	0
147.5	1	1	1	2	2	1	1	0	0	0
150.0	1	1	1	1	2	1	1	0	0	0
152.5	1	1	1	1	1	1	1	0	0	0
155.0	1	1	1	1	2	1	1	0	0	0
157.5	1	1	1	1	1	1	1	0	0	0
160.0	1	1	1	1	1	1	1	0	0	0
162.5	1	1	1	1	1	1	0	0	0	0
165.0	1	1	1	1	1	1	1	0	0	0
167.5	1	1	1	1	1	1	1	0	0	0
170.0	1	1	1	1	1	1	1	0	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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

	<u>175.0</u>	<u>180.0</u>
0.0	251	251
2.5	248	247
5.0	255	256
7.5	265	265
10.0	283	281
12.5	317	318
15.0	349	356
17.5	380	384
20.0	405	410
22.5	419	441
25.0	457	470

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES**

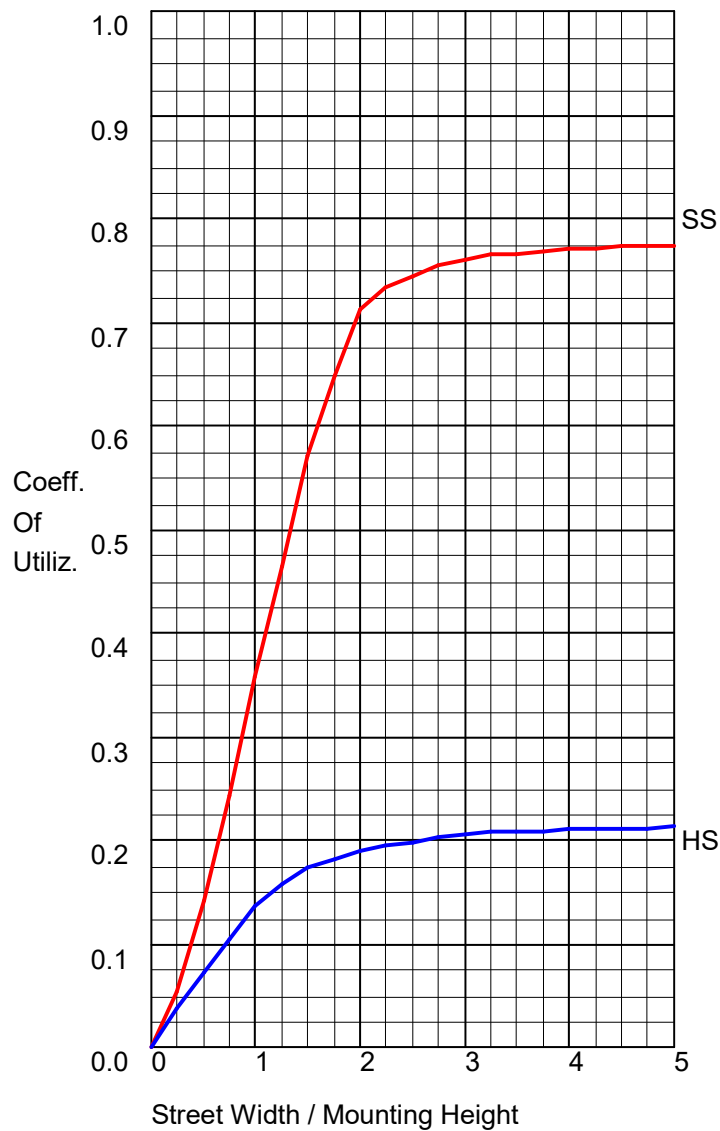
**CANDELA TABULATION - (Cont.)**

27.5	484	518
30.0	519	566
32.5	604	637
35.0	686	732
37.5	761	799
40.0	706	731
42.5	618	640
45.0	575	587
47.5	542	549
50.0	512	517
52.5	487	483
55.0	465	450
57.5	438	406
60.0	438	387
62.5	457	383
65.0	487	399
67.5	514	449
70.0	518	503
72.5	456	499
75.0	357	445
77.5	300	365
80.0	227	260
82.5	163	176
85.0	120	125
87.5	87	108
90.0	4	5
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	1	1
127.5	1	1
130.0	1	1
132.5	0	1
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

**IES ROAD REPORT****PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50.IES****CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	1	1

### COEFFICIENTS OF UTILIZATION

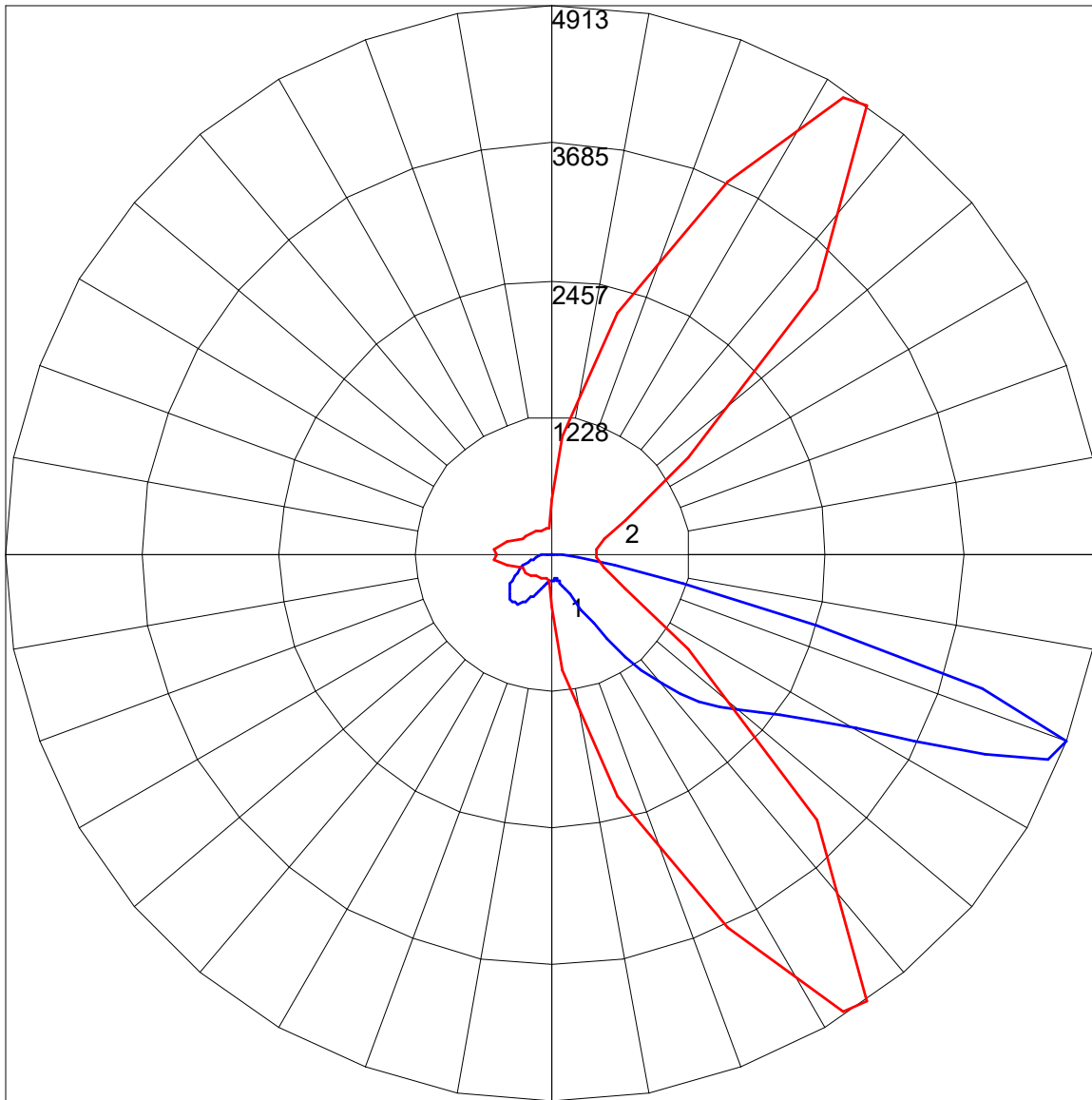


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4235.8	78.1
Downward House Side	1177.9	21.7
Downward Total	5413.7	99.8
Upward Street Side	5.6	0.1
Upward House Side	6.9	0.1
Upward Total	12.5	0.2
Total Flux	5426.2	100.0

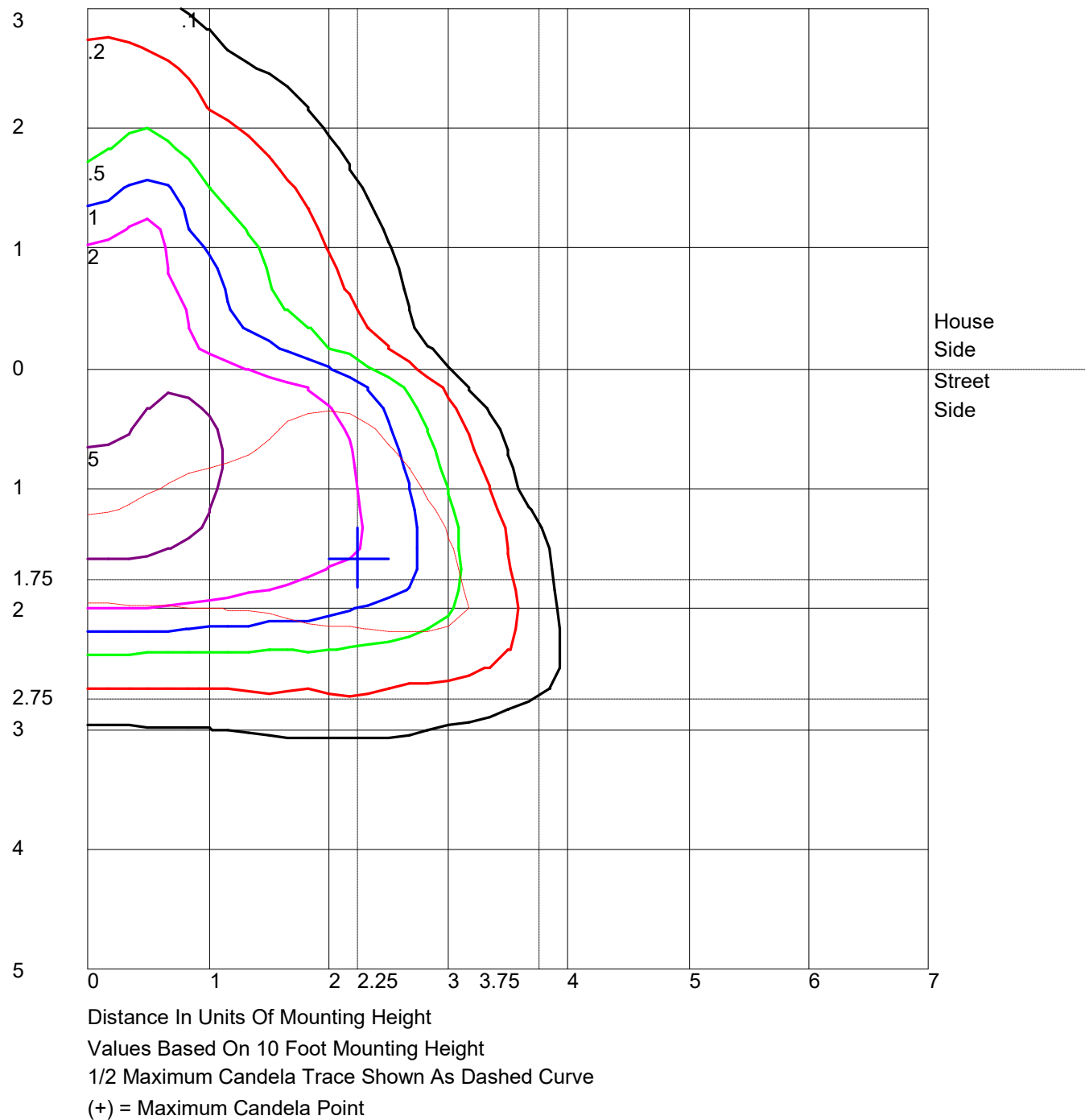


POLAR GRAPH

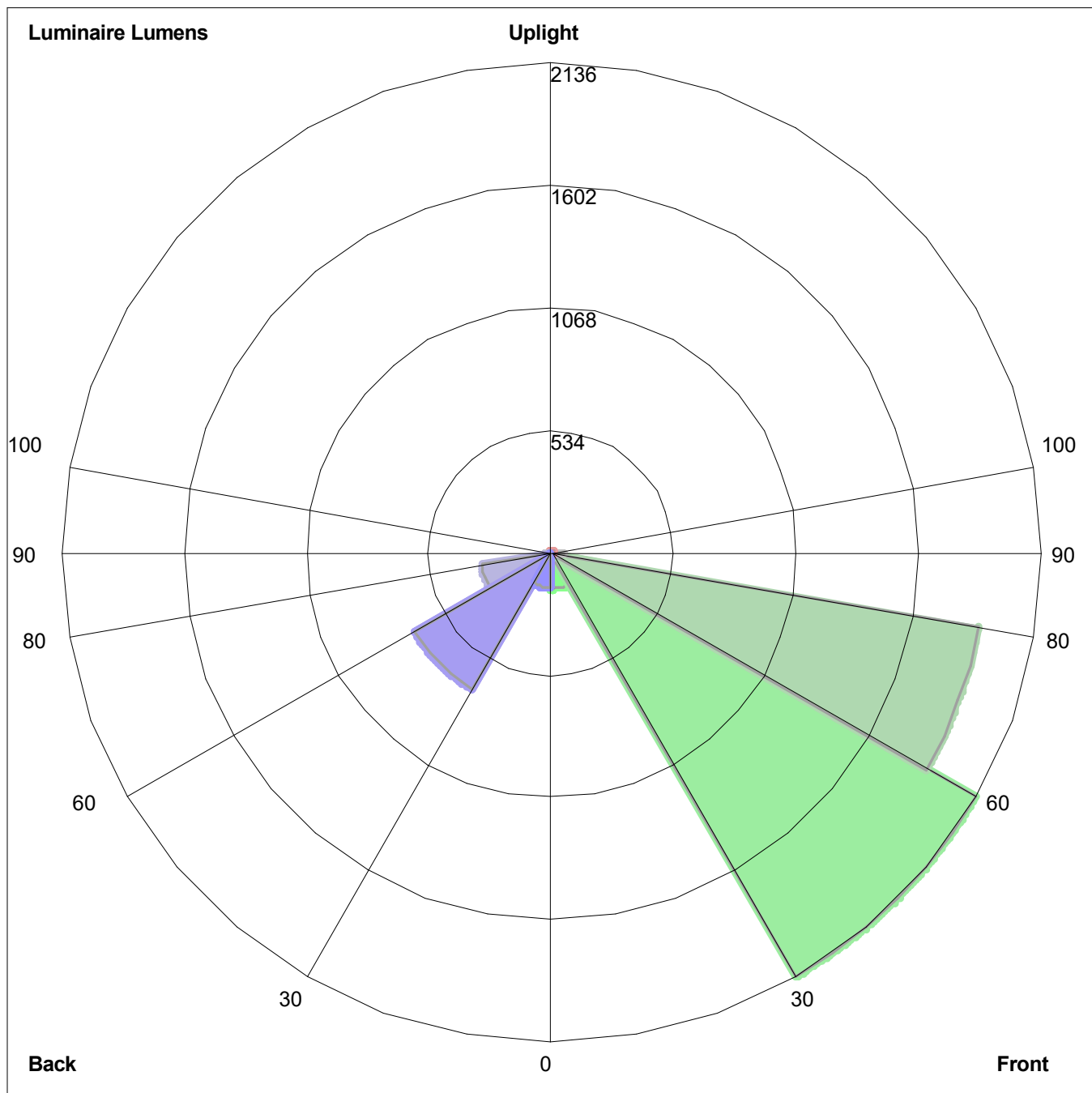


Maximum Candela = 4913 Located At Horizontal Angle = 55, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=158.1, Medium=2135.8, High=1889.5, Very High=52.5  
Back: Low=153.2, Medium=686.8, High=308.4, Very High=29.5  
Uplight: Low=4.4, High=8.1

BUG Rating : B1-U1-G2