



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-40.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-40
[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	5184
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4693
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	4693
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	26 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	541 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-40.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	151.0	N.A.	2.9
FM - Front-Medium (30-60)	2040.1	N.A.	39.4
FH - Front-High (60-80)	1804.8	N.A.	34.8
FVH - Front-Very High (80-90)	50.1	N.A.	1.0
BL - Back-Low (0-30)	146.4	N.A.	2.8
BM - Back-Medium (30-60)	655.9	N.A.	12.7
BH - Back-High (60-80)	294.6	N.A.	5.7
BVH - Back-Very High (80-90)	28.2	N.A.	0.5
UL - Uplight-Low (90-100)	4.4	N.A.	0.1
UH - Uplight-High (100-180)	8.1	N.A.	0.2
Total	5183.6	N.A.	100.0
BUG Rating	B1-U1-G2		

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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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	240	240	240	240	240	240	240	240	240	240
2.5	237	237	233	233	235	236	238	237	237	238
5.0	215	217	222	227	231	221	222	222	220	220
7.5	210	216	222	218	214	213	219	221	231	225
10.0	214	217	220	214	217	229	229	230	230	230
12.5	226	236	230	224	234	239	239	240	240	246
15.0	248	255	254	257	261	257	261	262	261	258
17.5	268	273	273	277	284	288	283	282	283	284
20.0	312	309	310	311	319	320	320	322	312	308
22.5	340	354	357	366	365	364	378	372	354	345
25.0	393	393	405	423	438	434	444	444	424	396
27.5	484	504	504	509	522	550	539	536	525	488
30.0	597	578	601	629	641	707	692	678	662	599
32.5	775	768	741	764	830	856	869	841	816	708
35.0	977	954	939	950	996	1057	1070	1034	969	847
37.5	1147	1133	1128	1148	1208	1267	1264	1228	1137	950
40.0	1313	1328	1343	1357	1444	1488	1446	1416	1296	1068
42.5	1466	1484	1522	1625	1667	1694	1624	1582	1420	1150
45.0	1665	1686	1751	1884	1917	1921	1784	1724	1530	1229
47.5	1927	1966	2046	2153	2172	2102	1933	1862	1639	1318
50.0	2243	2284	2358	2436	2421	2285	2077	1999	1762	1422
52.5	2598	2642	2717	2734	2654	2475	2225	2151	1912	1560
55.0	2958	2969	3057	3052	2900	2645	2395	2322	2096	1763
57.5	3211	3241	3350	3334	3225	2854	2648	2588	2362	2051
60.0	3139	3203	3414	3530	3615	3230	3008	2972	2755	2436
62.5	2527	2580	2929	3345	3844	3702	3503	3450	3154	2754
65.0	1457	1502	1852	2554	3542	4078	4094	4028	3522	2903
67.5	681	701	874	1381	2565	3938	4607	4510	3712	2764
70.0	372	375	462	687	1429	3212	4693	4651	3531	2144
72.5	220	223	288	445	796	1954	3861	3831	2691	1128
75.0	140	150	196	311	539	1034	2343	2371	1402	439
77.5	99	106	144	247	397	580	1146	1136	585	202
80.0	69	74	108	198	312	345	541	541	290	108
82.5	44	49	81	141	226	209	219	236	147	71
85.0	34	37	58	100	125	113	94	103	82	44
87.5	29	30	44	75	67	36	32	31	30	23
90.0	18	18	24	26	20	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

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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	240	240	240	240	240	240	240	240	240	240
2.5	240	241	242	241	243	244	247	247	243	241
5.0	222	223	225	233	239	240	244	247	247	244
7.5	229	229	234	247	244	239	237	245	246	253
10.0	226	227	235	245	242	253	253	254	253	259
12.5	242	244	254	255	260	259	269	285	285	300
15.0	256	257	257	261	263	286	297	315	322	318
17.5	272	266	266	277	281	312	334	344	349	349
20.0	291	284	284	281	303	338	349	367	374	374
22.5	326	305	304	304	335	367	384	390	392	401
25.0	365	349	336	319	387	400	403	405	417	429
27.5	430	387	375	349	416	424	425	436	449	461
30.0	496	440	408	375	440	465	455	468	474	491
32.5	561	494	440	403	468	496	493	506	534	562
35.0	648	553	480	425	480	519	533	540	612	653
37.5	721	613	510	439	490	533	545	592	678	774
40.0	775	647	524	445	492	539	550	612	806	890
42.5	817	677	534	436	479	535	543	634	944	867
45.0	872	713	547	429	463	520	534	631	1081	791
47.5	933	753	566	425	445	501	516	610	1131	751
50.0	1017	803	595	426	426	484	498	583	1093	732
52.5	1112	858	621	428	407	465	480	548	1016	718
55.0	1220	920	648	427	387	442	459	503	910	698
57.5	1364	1008	672	414	362	413	435	459	782	663
60.0	1581	1114	653	382	335	377	405	417	625	638
62.5	1829	1148	566	340	308	337	362	369	493	611
65.0	1902	1033	430	296	283	302	319	336	385	569
67.5	1655	767	319	262	257	271	287	308	317	498
70.0	1006	455	226	227	226	235	252	281	276	405
72.5	432	223	152	180	190	199	214	250	230	304
75.0	180	112	108	142	156	169	183	205	153	187
77.5	93	70	82	116	132	144	143	116	92	128

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CANDELA TABULATION - (Cont.)

80.0	61	48	66	97	112	103	77	89	68	90
82.5	41	33	52	80	86	64	59	68	41	64
85.0	25	20	39	62	50	45	41	30	20	41
87.5	11	8	27	37	32	26	18	14	8	21
90.0	2	2	9	11	11	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	240	240
2.5	237	236
5.0	244	245
7.5	253	253
10.0	270	268
12.5	303	304
15.0	333	340
17.5	363	367
20.0	387	392
22.5	400	421
25.0	437	449

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CANDELA TABULATION - (Cont.)

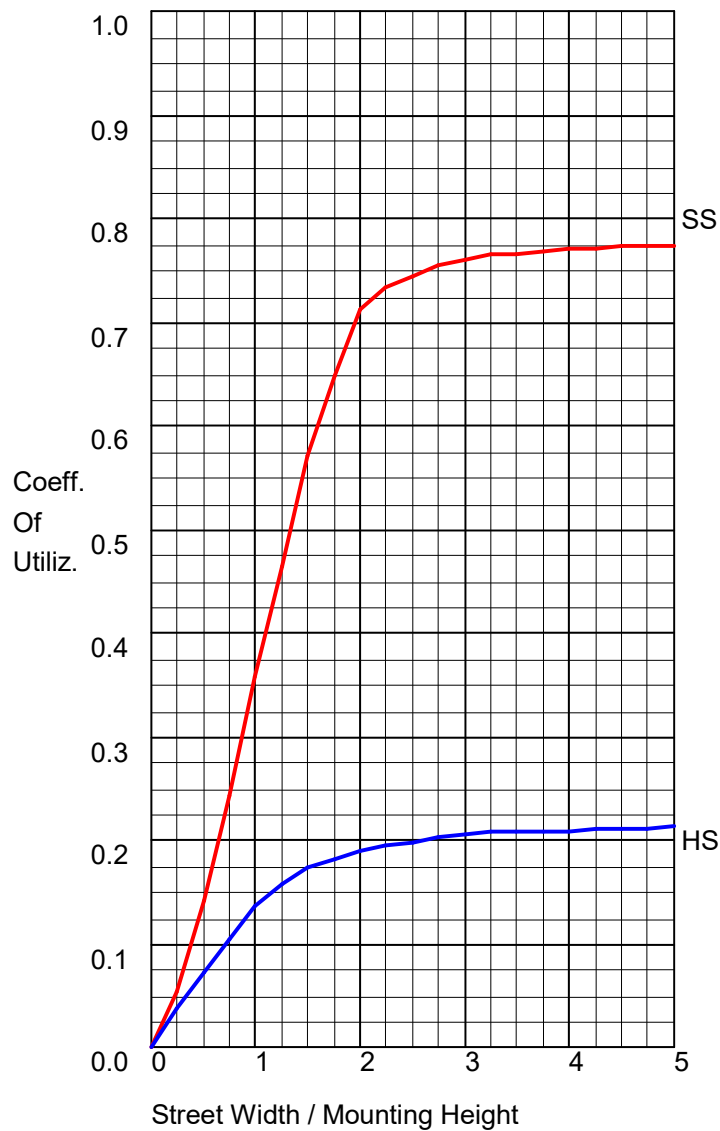
27.5	462	495
30.0	496	541
32.5	577	608
35.0	655	699
37.5	727	763
40.0	674	698
42.5	590	611
45.0	549	561
47.5	518	524
50.0	489	494
52.5	465	461
55.0	444	430
57.5	418	388
60.0	418	370
62.5	437	366
65.0	465	381
67.5	491	429
70.0	495	480
72.5	436	477
75.0	341	425
77.5	287	349
80.0	217	248
82.5	156	168
85.0	115	119
87.5	83	103
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
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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

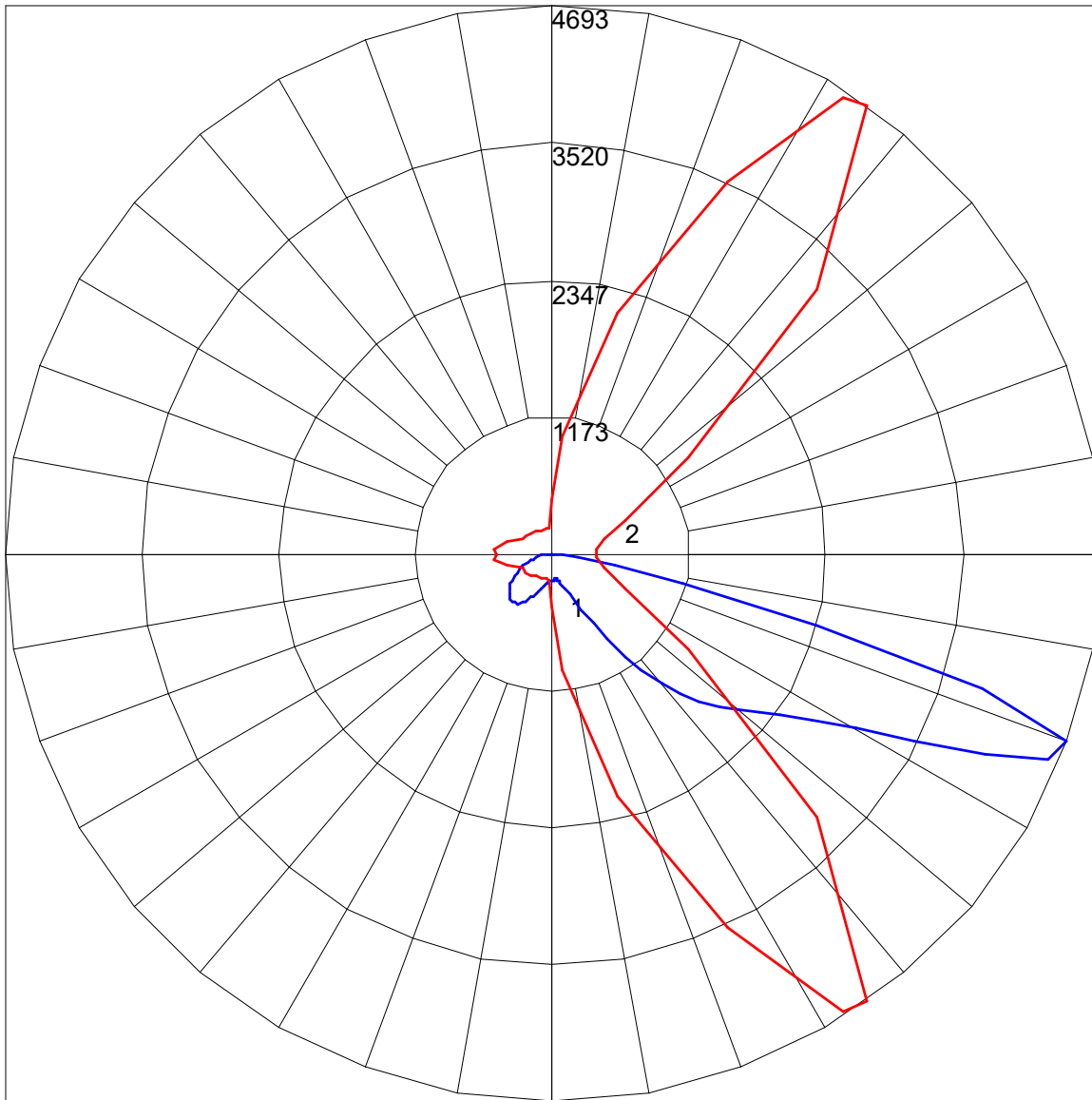
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

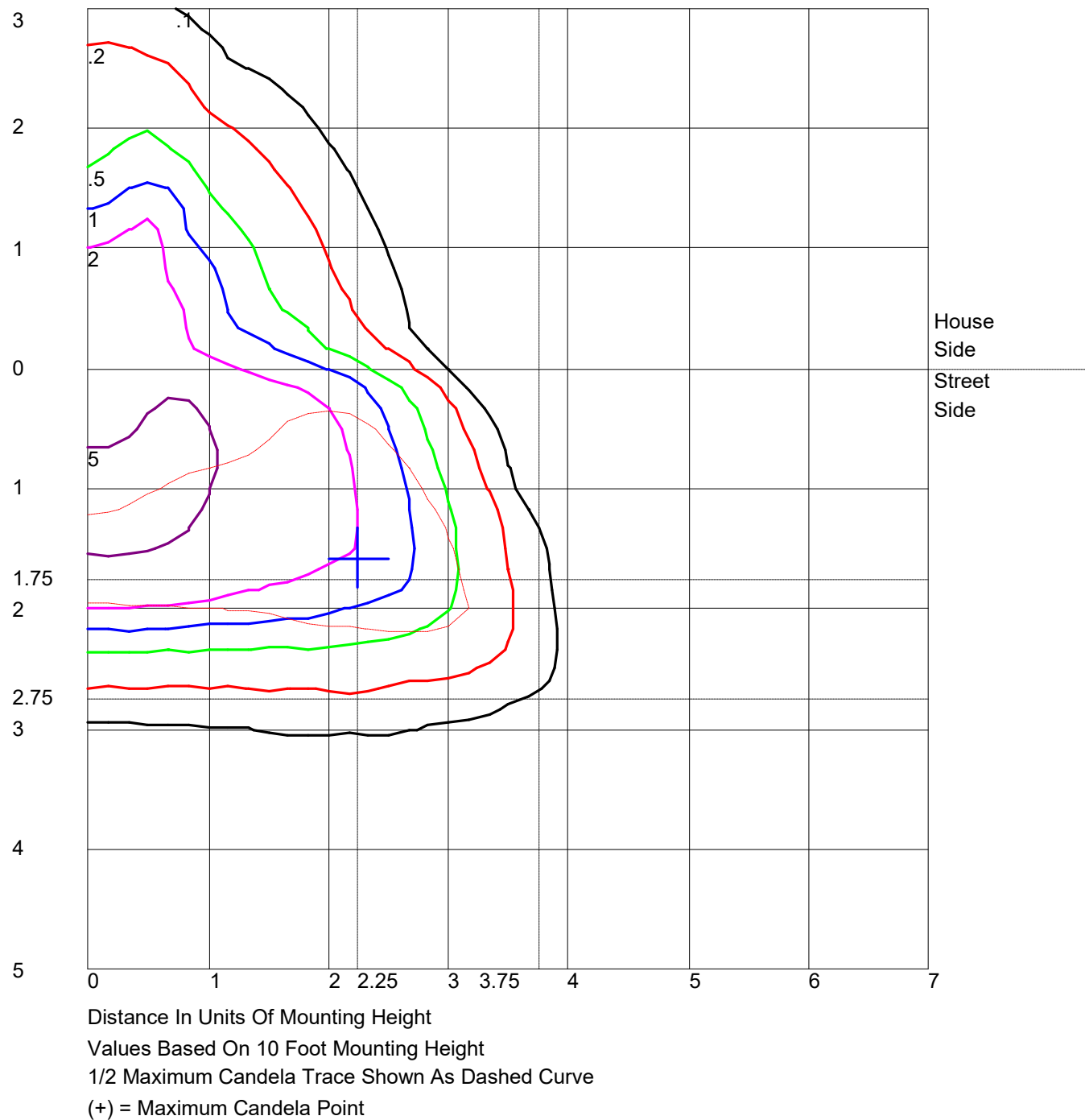
	Lumens	Percent Of Luminaire
Downward Street Side	4046.1	78.1
Downward House Side	1125.1	21.7
Downward Total	5171.2	99.8
Upward Street Side	5.6	0.1
Upward House Side	6.9	0.1
Upward Total	12.5	0.2
Total Flux	5183.7	100.0

POLAR GRAPH

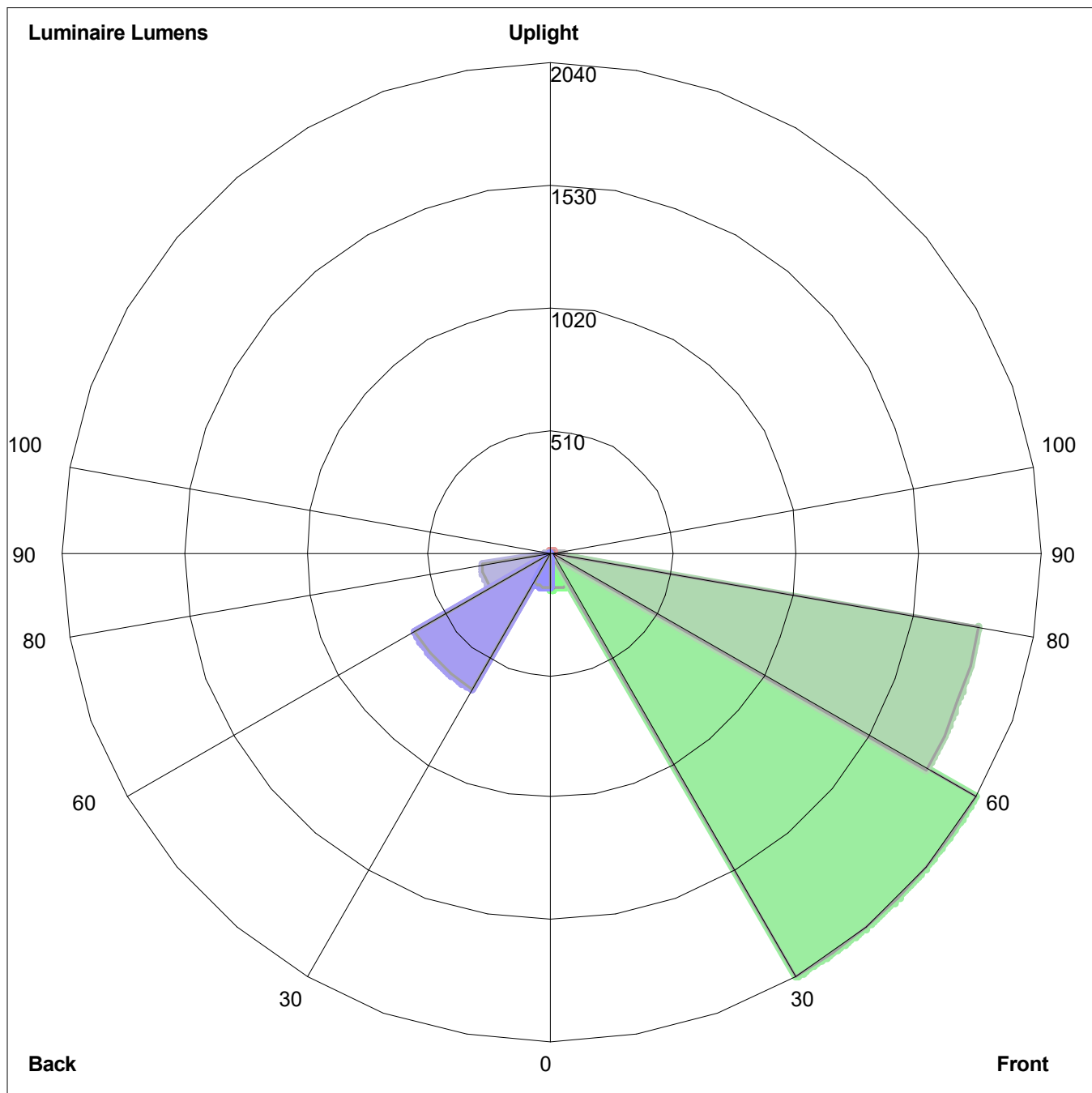


Maximum Candela = 4693 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=151.0, Medium=2040.1, High=1804.8, Very High=50.1
Back: Low=146.4, Medium=655.9, High=294.6, Very High=28.2
Uplight: Low=4.4, High=8.1

BUG Rating : B1-U1-G2