



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-30.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
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-3-LED-05L-30
[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	4691
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4247
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	4247
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	24 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	490 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-30.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	136.7	N.A.	2.9
FM - Front-Medium (30-60)	1846.1	N.A.	39.3
FH - Front-High (60-80)	1633.2	N.A.	34.8
FVH - Front-Very High (80-90)	45.3	N.A.	1.0
BL - Back-Low (0-30)	132.4	N.A.	2.8
BM - Back-Medium (30-60)	593.5	N.A.	12.7
BH - Back-High (60-80)	266.6	N.A.	5.7
BVH - Back-Very High (80-90)	25.5	N.A.	0.5
UL - Uplight-Low (90-100)	4.1	N.A.	0.1
UH - Uplight-High (100-180)	8.1	N.A.	0.2
Total	4691.5	N.A.	100.0
BUG Rating	B1-U1-G1		

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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	217	217	217	217	217	217	217	217	217	217
2.5	214	214	211	211	213	214	215	214	214	215
5.0	195	196	201	205	209	200	201	201	199	199
7.5	190	195	201	197	194	193	198	200	209	204
10.0	194	196	199	194	196	207	207	208	208	208
12.5	205	214	208	203	212	216	216	217	217	223
15.0	224	231	230	233	236	233	236	237	236	233
17.5	243	247	247	251	257	261	256	255	256	257
20.0	282	280	281	281	289	290	290	291	282	279
22.5	308	320	323	331	330	329	342	337	320	312
25.0	356	356	366	383	396	393	402	402	384	358
27.5	438	456	456	461	472	498	488	485	475	442
30.0	540	523	544	569	580	640	626	614	599	542
32.5	701	695	671	691	751	775	786	761	738	641
35.0	884	863	850	860	901	956	968	936	877	766
37.5	1038	1025	1021	1039	1093	1147	1144	1111	1029	860
40.0	1188	1202	1215	1228	1307	1346	1308	1281	1173	966
42.5	1327	1343	1377	1470	1508	1533	1470	1432	1285	1041
45.0	1507	1526	1584	1705	1735	1738	1614	1560	1384	1112
47.5	1744	1779	1851	1948	1965	1902	1749	1685	1483	1193
50.0	2030	2067	2134	2204	2191	2068	1879	1809	1594	1287
52.5	2351	2391	2459	2474	2402	2240	2013	1946	1730	1412
55.0	2677	2687	2766	2762	2624	2393	2167	2101	1897	1595
57.5	2906	2933	3031	3017	2918	2583	2396	2342	2137	1856
60.0	2840	2898	3089	3194	3271	2923	2722	2689	2493	2204
62.5	2287	2335	2650	3027	3478	3350	3170	3122	2854	2492
65.0	1318	1359	1676	2311	3205	3690	3705	3645	3187	2627
67.5	616	634	791	1250	2321	3563	4169	4081	3359	2501
70.0	337	339	418	622	1293	2907	4247	4209	3195	1940
72.5	199	202	261	403	720	1768	3494	3467	2435	1021
75.0	127	136	177	281	488	936	2120	2146	1269	397
77.5	90	96	130	224	359	525	1037	1028	529	183
80.0	62	67	98	179	282	312	490	490	262	98
82.5	40	44	73	128	205	189	198	214	133	64
85.0	31	33	52	90	113	102	85	93	74	40
87.5	26	27	40	68	61	33	29	28	27	21
90.0	16	16	22	24	18	8	6	5	5	4
92.5	4	4	5	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	217	217	217	217	217	217	217	217	217	217
2.5	217	218	219	218	220	221	224	224	220	218
5.0	201	202	204	211	216	217	221	224	224	221
7.5	207	207	212	224	221	216	214	222	223	229
10.0	205	205	213	222	219	229	229	230	229	234
12.5	219	221	230	231	235	234	243	258	258	271
15.0	232	233	233	236	238	259	269	285	291	288
17.5	246	241	241	251	254	282	302	311	316	316
20.0	263	257	257	254	274	306	316	332	338	338
22.5	295	276	275	275	303	332	347	353	355	363
25.0	330	316	304	289	350	362	365	366	377	388
27.5	389	350	339	316	376	384	385	395	406	417
30.0	449	398	369	339	398	421	412	423	429	444
32.5	508	447	398	365	423	449	446	458	483	509
35.0	586	500	434	385	434	470	482	489	554	591
37.5	652	555	461	397	443	482	493	536	614	700
40.0	701	585	474	403	445	488	498	554	729	805
42.5	739	613	483	395	433	484	491	574	854	785
45.0	789	645	495	388	419	471	483	571	978	716
47.5	844	681	512	385	403	453	467	552	1023	680
50.0	920	727	538	385	385	438	451	528	989	662
52.5	1006	776	562	387	368	421	434	496	919	650
55.0	1104	833	586	386	350	400	415	455	823	632
57.5	1234	912	608	375	328	374	394	415	708	600
60.0	1431	1008	591	346	303	341	366	377	566	577
62.5	1655	1039	512	308	279	305	328	334	446	553
65.0	1721	935	389	268	256	273	289	304	348	515
67.5	1498	694	289	237	233	245	260	279	287	451
70.0	910	412	205	205	205	213	228	254	250	366
72.5	391	202	138	163	172	180	194	226	208	275
75.0	163	101	98	128	141	153	166	186	138	169
77.5	84	63	74	105	119	130	129	105	83	116

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CANDELA TABULATION - (Cont.)

80.0	55	43	60	88	101	93	70	81	62	81
82.5	37	30	47	72	78	58	53	62	37	58
85.0	23	18	35	56	45	41	37	27	18	37
87.5	10	7	24	33	29	24	16	13	7	19
90.0	2	2	8	10	10	9	6	4	1	2
92.5	2	2	5	6	9	8	6	3	1	0
95.0	2	2	4	6	8	8	5	3	1	0
97.5	2	2	4	5	7	6	5	3	1	0
100.0	2	2	3	5	5	5	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	217	217
2.5	214	214
5.0	221	222
7.5	229	229
10.0	244	243
12.5	274	275
15.0	301	308
17.5	328	332
20.0	350	355
22.5	362	381
25.0	395	406

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-30.IES

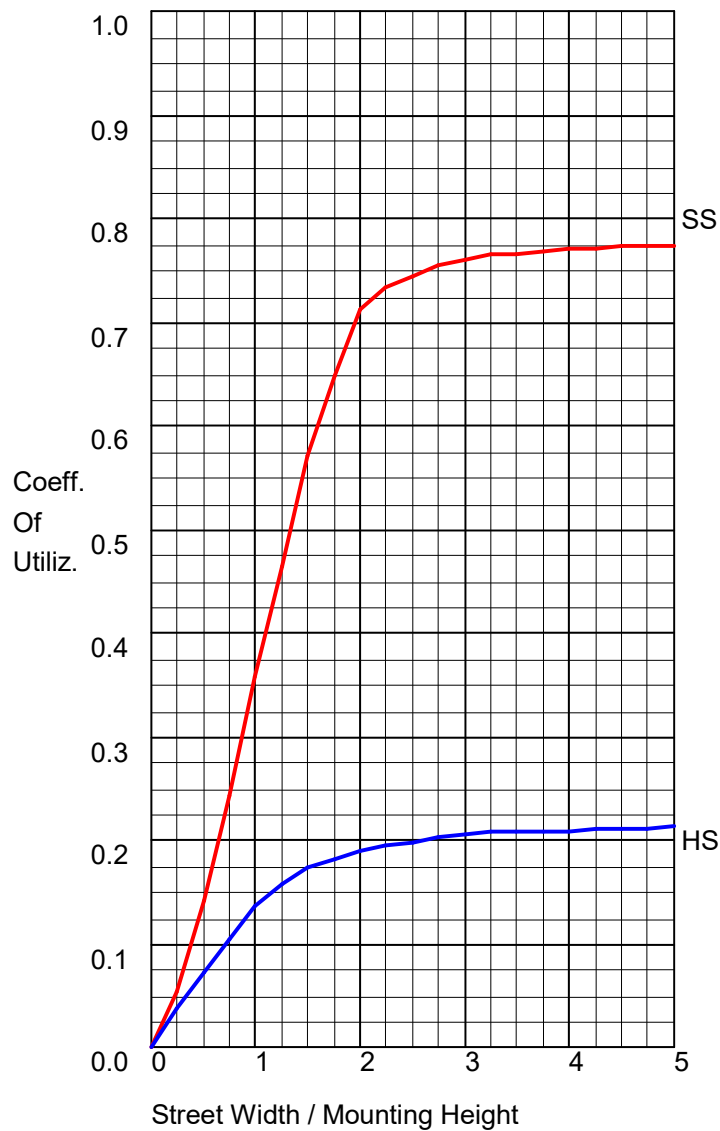
CANDELA TABULATION - (Cont.)

27.5	418	448
30.0	449	490
32.5	522	550
35.0	593	633
37.5	658	690
40.0	610	632
42.5	534	553
45.0	497	508
47.5	469	474
50.0	442	447
52.5	421	417
55.0	402	389
57.5	378	351
60.0	378	335
62.5	395	331
65.0	421	345
67.5	444	388
70.0	448	434
72.5	395	432
75.0	309	385
77.5	260	316
80.0	196	224
82.5	141	152
85.0	104	108
87.5	75	93
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-30.IES****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

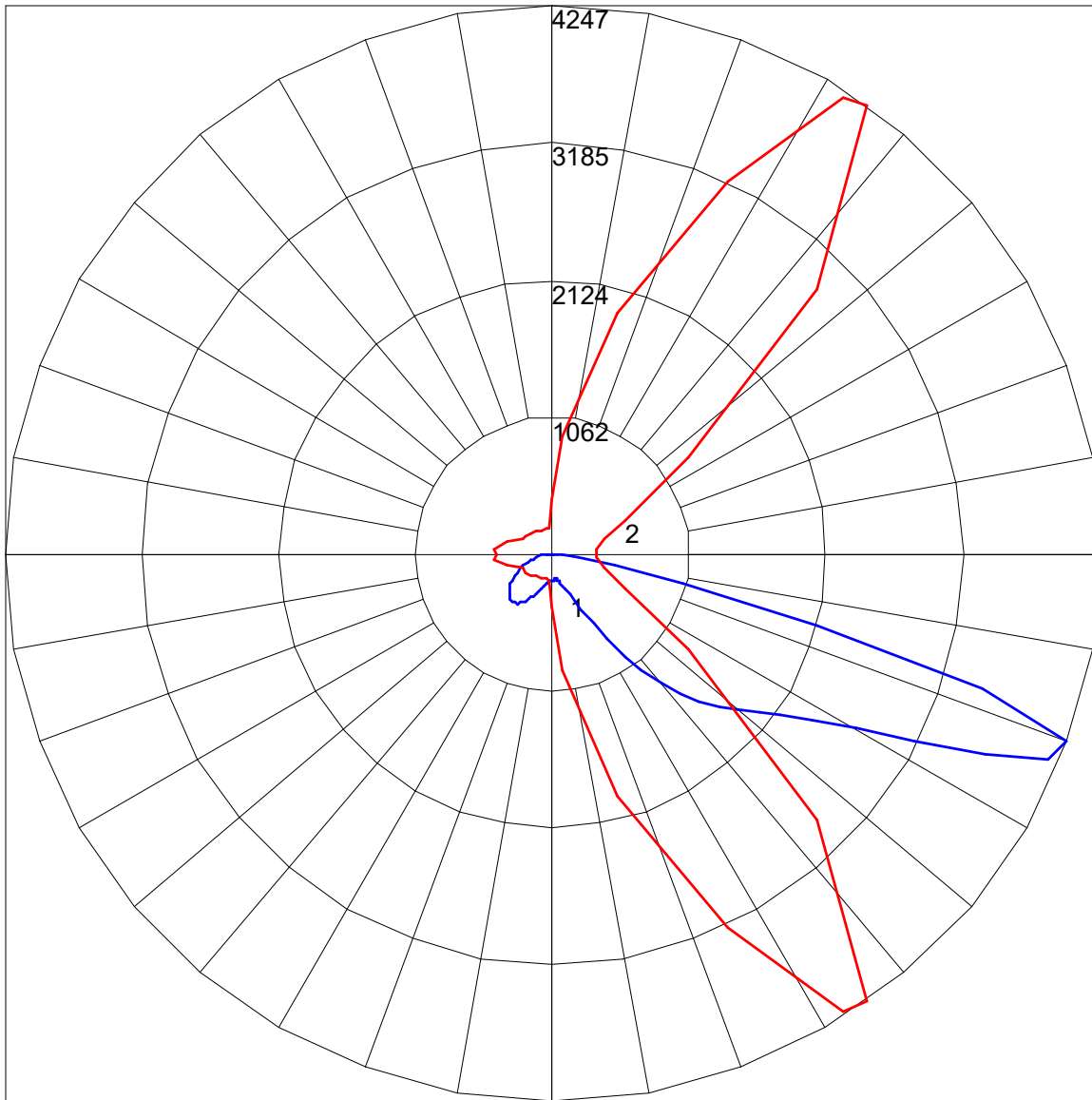
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

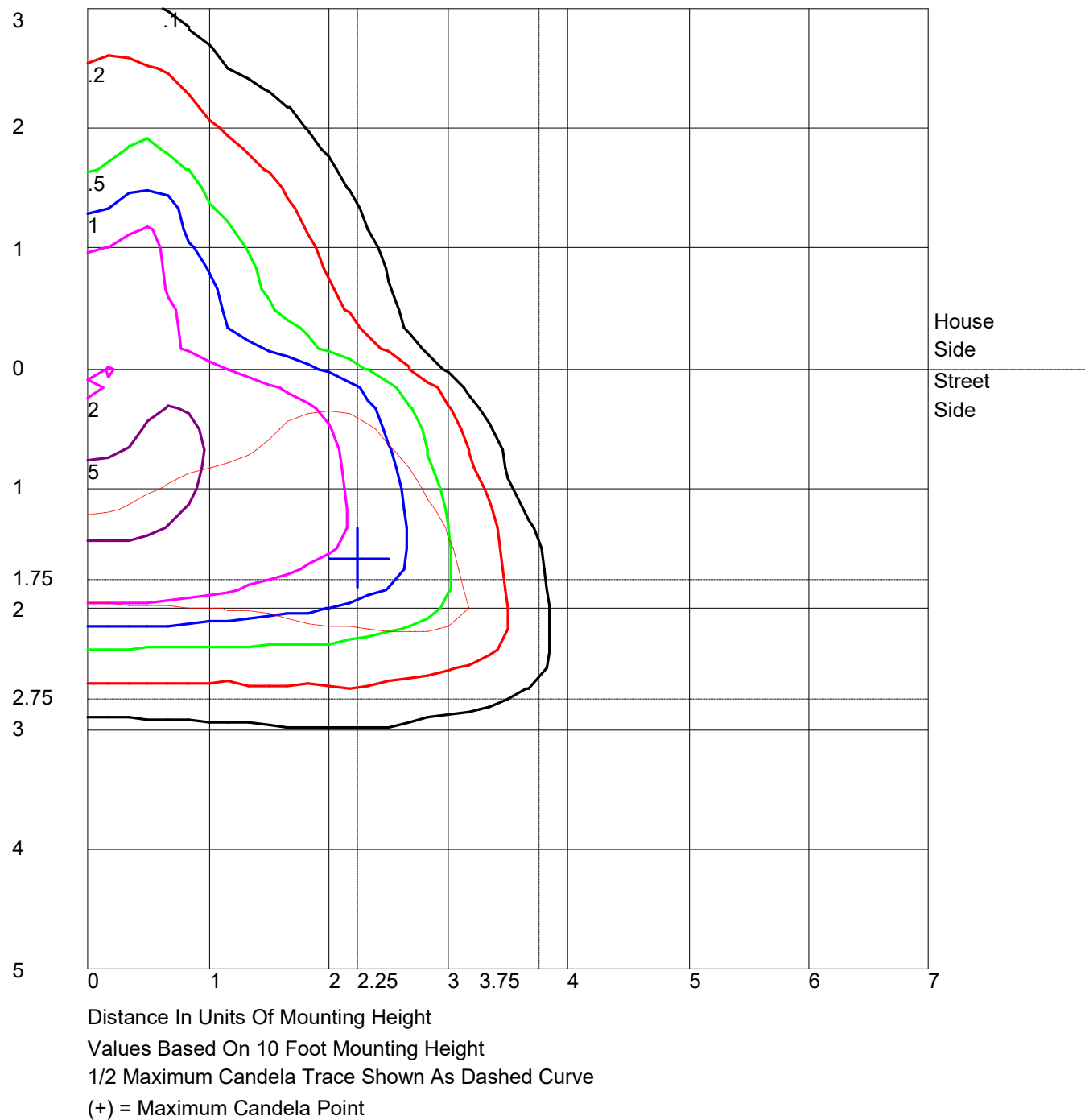
	Lumens	Percent Of Luminaire
Downward Street Side	3661.3	78.0
Downward House Side	1018.1	21.7
Downward Total	4679.4	99.7
Upward Street Side	5.5	0.1
Upward House Side	6.6	0.1
Upward Total	12.1	0.3
Total Flux	4691.5	100.0

POLAR GRAPH

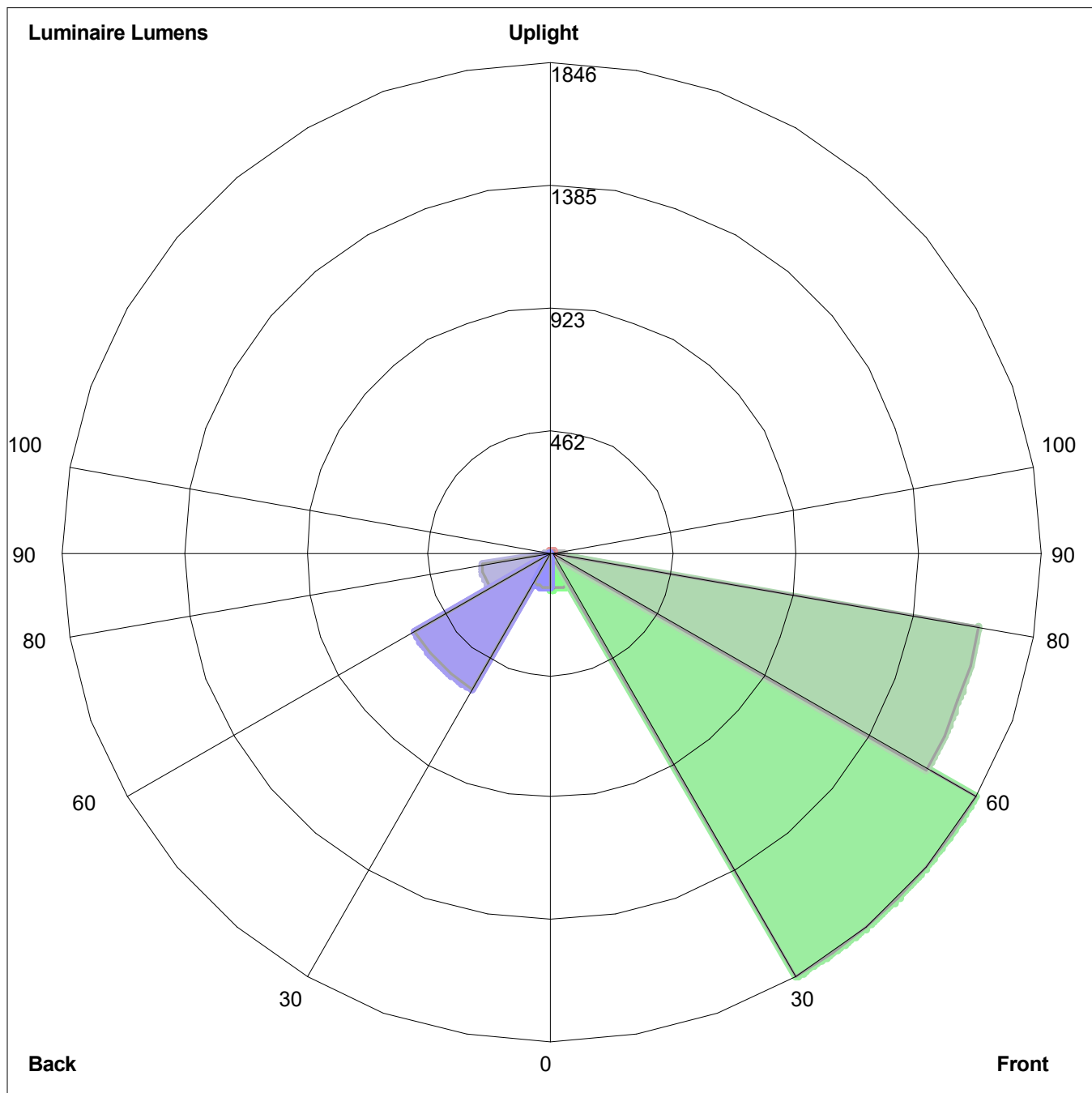


Maximum Candela = 4247 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=136.7, Medium=1846.1, High=1633.2, Very High=45.3
Back: Low=132.4, Medium=593.5, High=266.6, Very High=25.5
Uplight: Low=4.1, High=8.1

BUG Rating : B1-U1-G1