



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-05L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11762

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-FT-LED-05L-40-IL

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

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

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3818
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2701
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	2701
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	11 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	337 (8.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	213.6	N.A.	5.6
FM - Front-Medium (30-60)	1737.0	N.A.	45.5
FH - Front-High (60-80)	1259.4	N.A.	33.0
FVH - Front-Very High (80-90)	46.0	N.A.	1.2
BL - Back-Low (0-30)	145.2	N.A.	3.8
BM - Back-Medium (30-60)	342.2	N.A.	9.0
BH - Back-High (60-80)	60.0	N.A.	1.6
BVH - Back-Very High (80-90)	3.1	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.1
UH - Uplight-High (100-180)	8.9	N.A.	0.2
Total	3818.3	N.A.	100.0
BUG Rating	B1-U1-G1		

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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>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	378	378	378	378	378	378	378	378	378	378
2.5	369	374	374	374	374	376	378	380	379	376
5.0	347	346	355	362	361	358	361	352	348	348
7.5	329	335	340	335	325	330	327	347	364	364
10.0	328	331	329	323	326	333	342	351	356	364
12.5	357	348	346	334	337	344	346	355	374	384
15.0	375	367	371	373	374	369	367	377	395	408
17.5	400	394	390	399	411	408	414	408	419	441
20.0	441	442	446	446	446	454	458	457	453	481
22.5	488	496	508	525	515	513	515	519	502	531
25.0	562	565	570	586	620	611	599	603	579	578
27.5	693	676	686	679	700	716	708	695	667	641
30.0	786	796	798	806	803	818	821	817	754	708
32.5	995	953	932	926	942	941	943	940	853	791
35.0	1095	1105	1074	1082	1069	1082	1065	1061	977	866
37.5	1261	1261	1210	1220	1230	1230	1198	1197	1090	969
40.0	1367	1369	1375	1371	1373	1370	1353	1314	1222	1059
42.5	1450	1453	1472	1487	1517	1492	1485	1462	1350	1135
45.0	1536	1547	1558	1587	1654	1628	1633	1576	1464	1225
47.5	1637	1648	1658	1693	1768	1766	1772	1713	1588	1321
50.0	1733	1743	1763	1819	1898	1921	1936	1854	1723	1407
52.5	1813	1827	1859	1937	2047	2093	2091	2017	1845	1472
55.0	1882	1896	1939	2041	2201	2245	2236	2175	1926	1517
57.5	1944	1961	2030	2149	2349	2387	2399	2290	1968	1513
60.0	1995	2014	2102	2268	2472	2528	2525	2354	1970	1458
62.5	2006	2025	2157	2380	2585	2645	2613	2352	1903	1349
65.0	1851	1870	2063	2368	2635	2701	2644	2265	1753	1173
67.5	1562	1566	1806	2166	2508	2592	2526	2100	1522	956
70.0	924	924	1241	1756	2167	2276	2202	1804	1223	675
72.5	371	403	570	980	1551	1721	1751	1386	843	428
75.0	279	297	382	534	778	891	1035	883	522	281
77.5	226	240	315	417	480	495	501	493	333	201
80.0	181	195	264	331	337	321	297	241	210	134
82.5	135	147	192	216	185	164	136	102	104	88
85.0	75	80	98	97	71	67	55	46	49	50
87.5	27	28	33	32	23	21	16	15	15	19
90.0	9	9	11	9	7	6	4	3	2	2
92.5	4	4	3	2	2	2	2	2	2	2
95.0	1	1	1	1	2	2	2	2	2	2
97.5	1	1	1	1	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	2	2
105.0	1	1	1	1	1	1	2	2	2	2
107.5	1	1	1	1	1	2	2	2	2	2
110.0	1	1	1	1	1	2	2	2	2	2
112.5	1	1	1	1	2	2	2	2	2	2
115.0	1	1	1	1	2	2	2	2	2	2
117.5	1	1	1	1	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	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
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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	2	2	2	2
137.5	1	1	1	1	2	2	2	2	2	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	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	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</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	378	378	378	378	378	378	378	378	378	378
2.5	378	381	377	376	378	378	380	382	376	368
5.0	350	354	349	358	360	364	367	370	367	358
7.5	361	368	369	378	367	348	333	342	338	351
10.0	369	360	365	370	356	353	342	341	329	342
12.5	381	389	397	392	370	347	347	359	348	347
15.0	421	415	417	398	370	376	373	349	324	293
17.5	439	441	436	429	393	389	370	313	261	231
20.0	492	482	479	432	408	397	324	260	221	208
22.5	535	528	523	478	433	376	280	230	212	207
25.0	591	583	572	511	457	346	250	222	214	215
27.5	641	631	611	557	469	312	245	226	230	239
30.0	684	685	651	577	452	306	250	237	252	264
32.5	747	718	674	587	432	307	258	249	273	308
35.0	798	780	711	594	405	311	266	259	298	342
37.5	870	828	761	580	389	312	266	266	315	358
40.0	917	854	777	565	377	310	262	264	315	325
42.5	962	875	781	546	361	304	250	246	277	246
45.0	1011	905	801	522	343	289	230	206	205	172
47.5	1057	925	811	496	323	263	197	160	141	122
50.0	1093	930	800	477	296	226	160	121	98	89
52.5	1114	932	788	460	257	180	119	88	71	67
55.0	1119	925	770	436	208	127	81	61	52	50
57.5	1096	895	737	398	155	83	57	43	37	37
60.0	1030	839	675	337	108	62	44	32	26	26
62.5	919	738	583	271	78	50	35	24	19	19
65.0	774	602	456	199	62	41	28	18	14	13
67.5	583	445	299	123	50	33	22	15	10	9
70.0	383	293	177	72	38	26	17	12	8	7
72.5	226	167	108	47	26	18	13	10	6	5
75.0	161	114	74	33	19	14	11	7	4	2
77.5	113	79	51	25	15	11	9	4	2	1

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CANDELA TABULATION - (Cont.)

80.0	69	51	36	18	12	9	7	3	1	1
82.5	46	35	25	13	9	8	6	3	1	1
85.0	31	21	14	8	7	7	5	3	1	1
87.5	14	9	6	5	6	5	4	2	1	1
90.0	3	2	3	5	5	5	4	2	1	1
92.5	2	2	4	5	6	5	4	3	1	1
95.0	2	2	3	5	5	5	4	3	1	1
97.5	2	2	3	4	5	4	4	3	2	1
100.0	2	2	2	3	4	4	3	2	2	1
102.5	2	2	2	2	3	3	3	2	2	1
105.0	2	2	2	2	3	3	3	2	2	1
107.5	2	2	2	2	2	3	2	2	2	2
110.0	2	2	2	2	2	2	2	2	2	2
112.5	2	2	2	2	2	2	2	2	2	2
115.0	2	2	2	2	3	3	3	2	2	2
117.5	2	2	2	2	3	3	3	3	2	2
120.0	2	2	2	2	3	3	3	3	2	2
122.5	2	2	2	3	3	3	3	3	3	2
125.0	2	2	3	3	3	3	3	3	3	2
127.5	2	3	3	3	3	3	3	3	3	2
130.0	3	3	3	3	3	3	3	3	3	2
132.5	3	3	3	3	3	3	3	3	3	2
135.0	2	2	3	3	3	3	3	2	2	2
137.5	2	2	2	2	2	2	2	2	1	1
140.0	2	2	2	2	2	2	2	1	1	1
142.5	1	1	2	2	2	1	1	1	1	1
145.0	1	1	1	2	2	1	1	1	1	0
147.5	1	1	1	1	1	1	1	1	1	0
150.0	1	1	1	1	1	1	1	1	1	0
152.5	1	1	1	1	1	1	1	1	1	0
155.0	1	1	1	1	1	1	1	1	1	0
157.5	1	1	1	1	1	1	1	1	0	0
160.0	1	1	1	1	1	1	1	1	0	0
162.5	1	1	1	1	1	1	1	1	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

	175	180
0.0	378	378
2.5	371	371
5.0	354	356
7.5	351	347
10.0	353	347
12.5	349	345
15.0	298	297
17.5	226	226
20.0	211	213
22.5	211	215
25.0	228	235

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

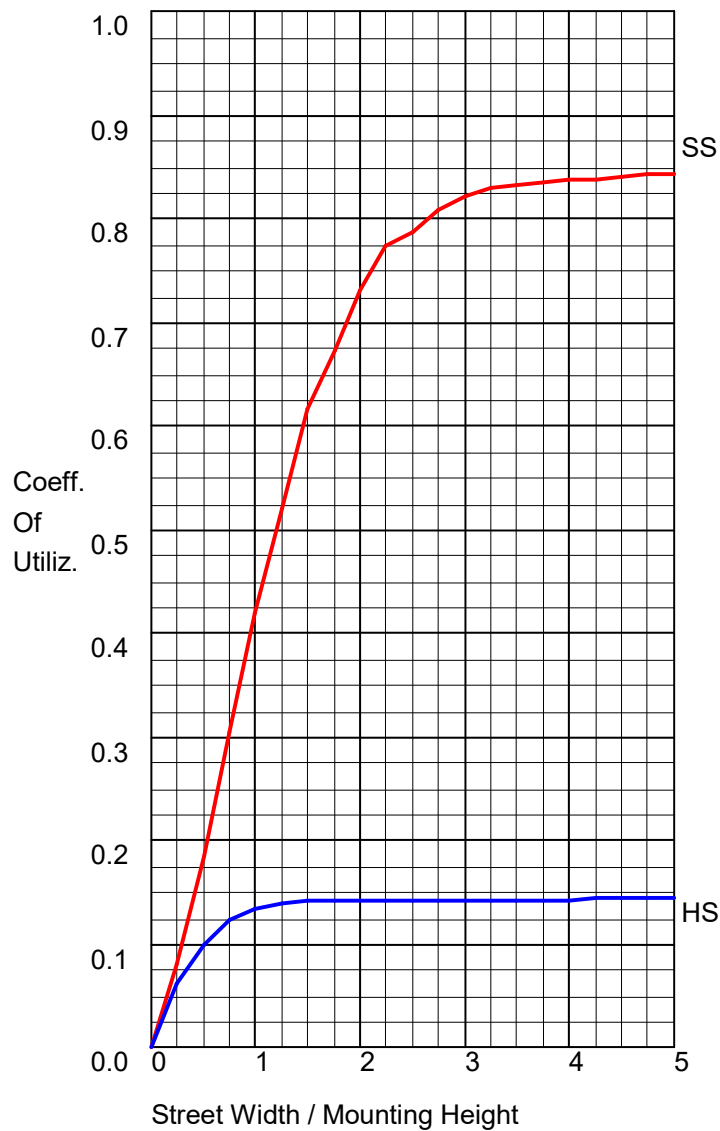
27.5	255	263
30.0	286	288
32.5	335	336
35.0	356	359
37.5	351	345
40.0	290	282
42.5	215	210
45.0	161	159
47.5	122	123
50.0	94	95
52.5	72	72
55.0	55	55
57.5	42	43
60.0	32	33
62.5	25	25
65.0	18	19
67.5	13	14
70.0	9	10
72.5	5	6
75.0	2	2
77.5	1	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	0
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	2	2
117.5	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	1
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

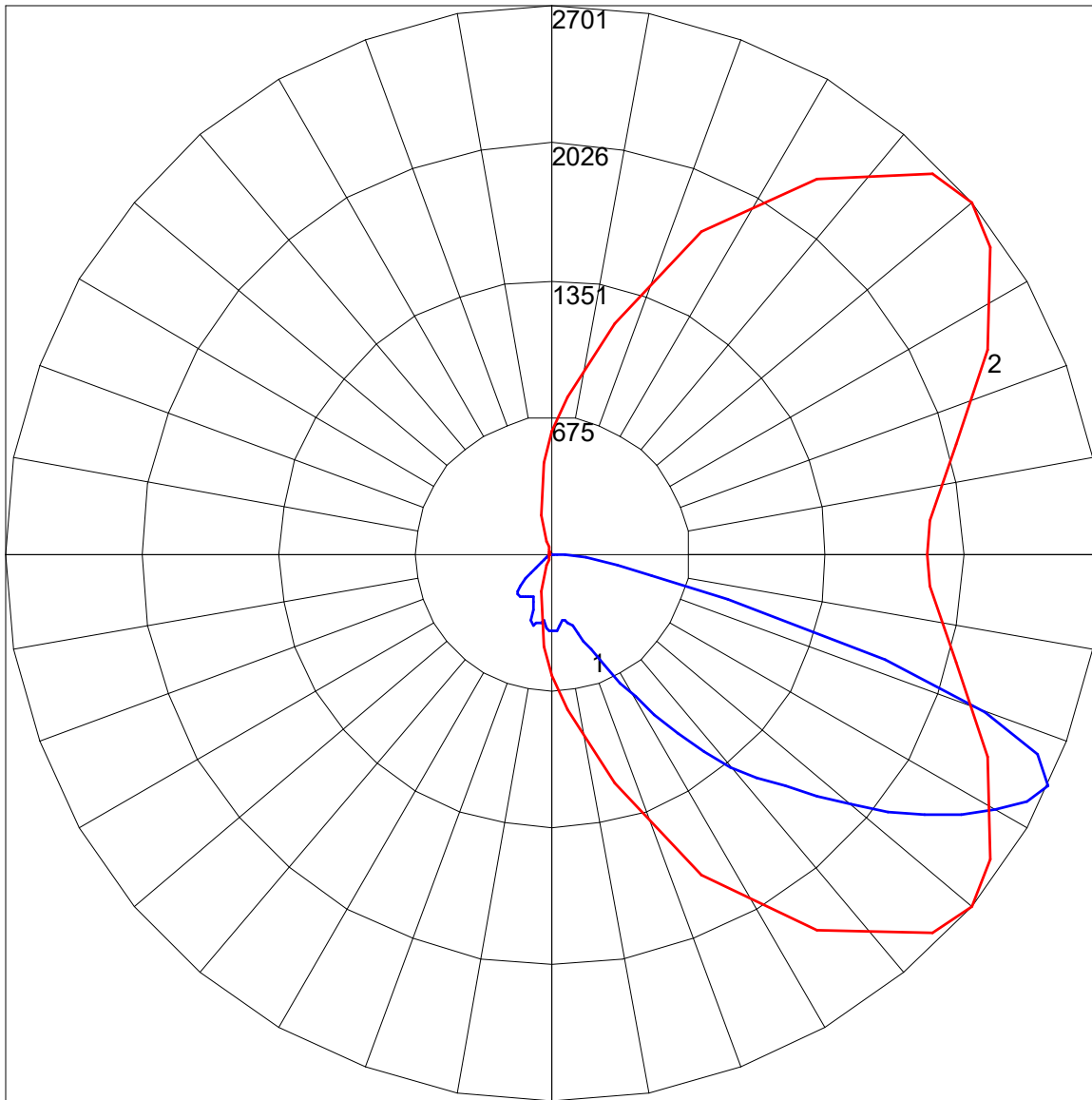
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

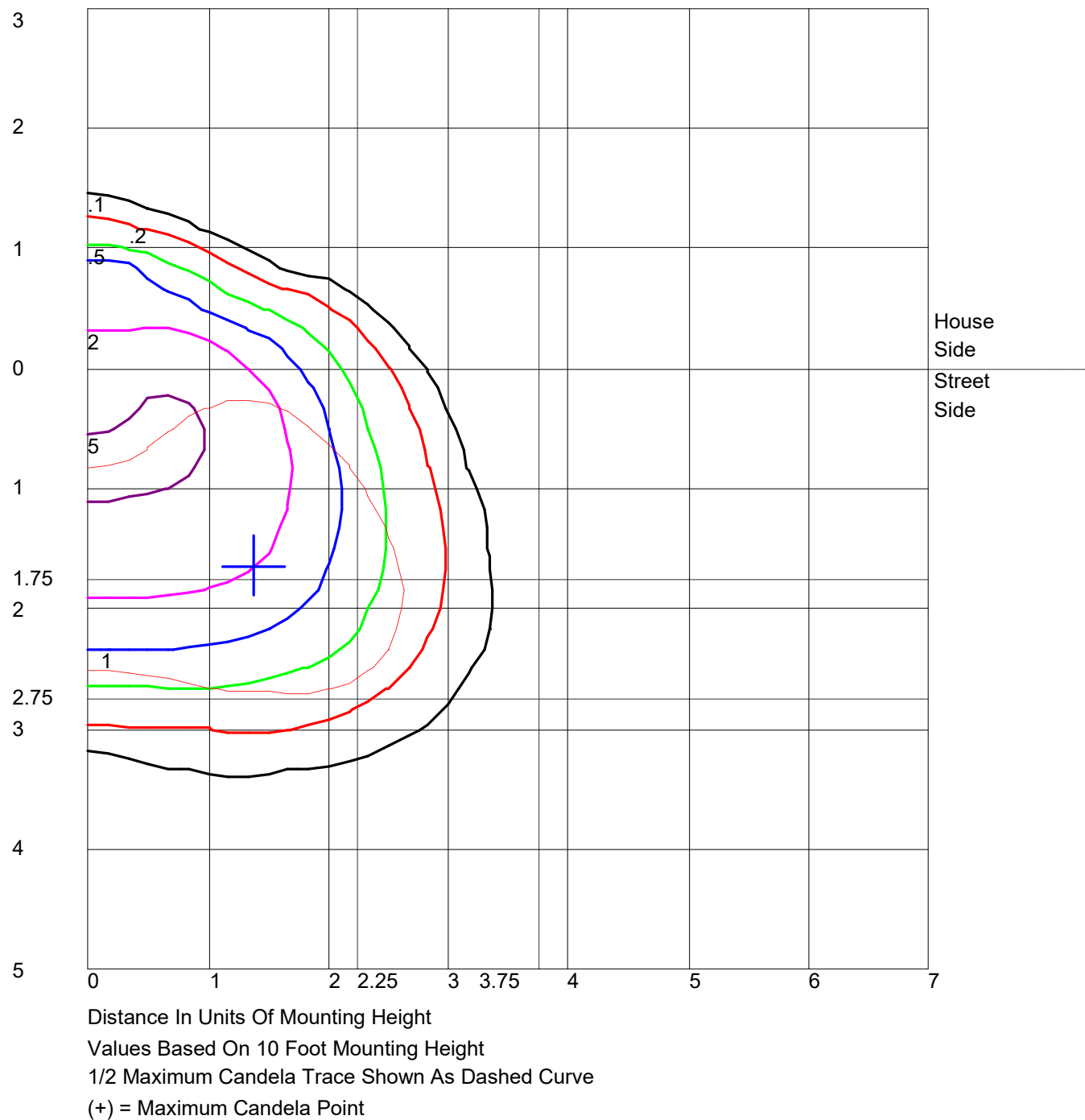
	Lumens	Percent Of Luminaire
Downward Street Side	3255.9	85.3
Downward House Side	550.4	14.4
Downward Total	3806.3	99.7
Upward Street Side	5.2	0.1
Upward House Side	6.5	0.2
Upward Total	11.7	0.3
Total Flux	3818.0	100.0

POLAR GRAPH

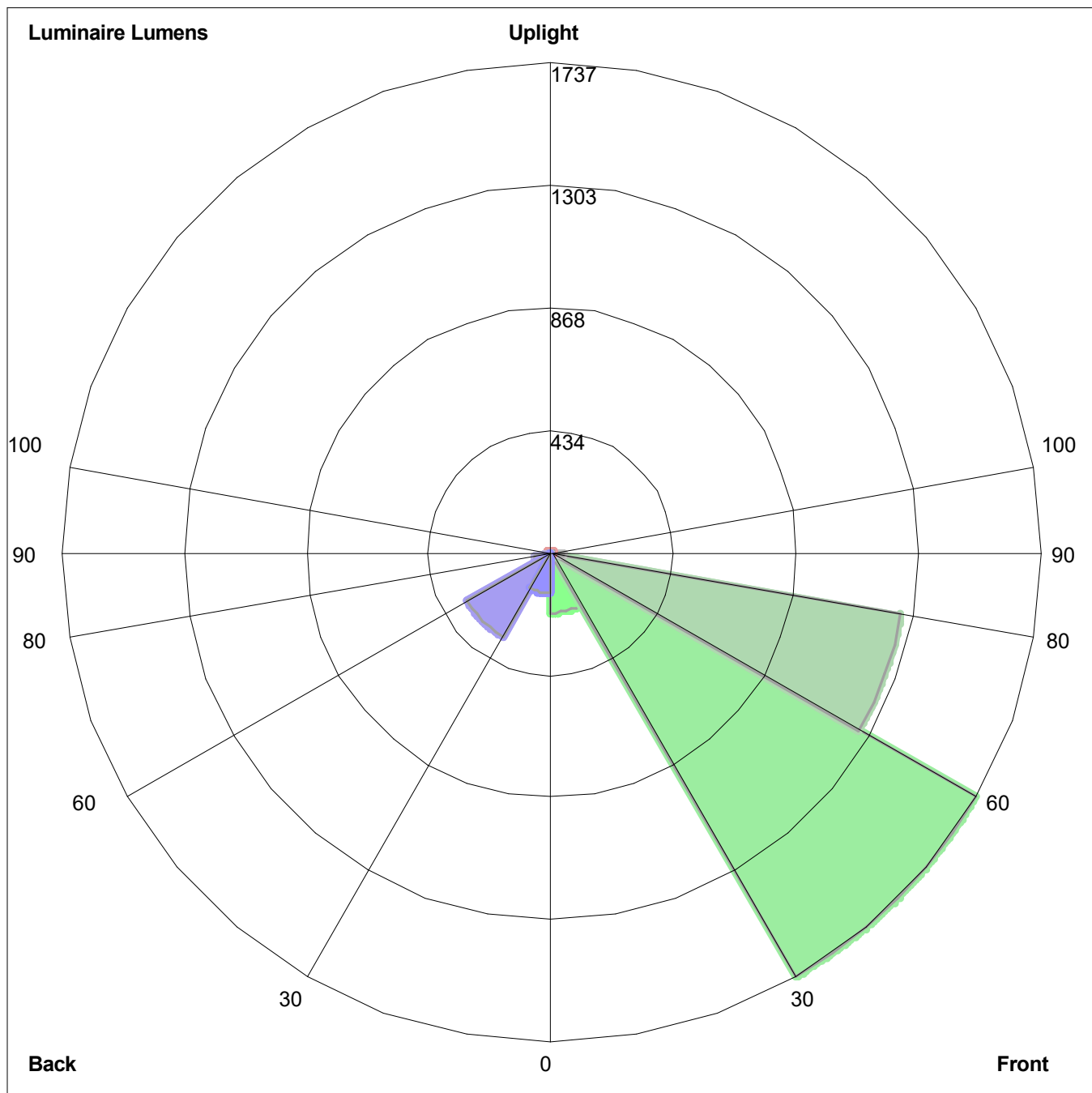


Maximum Candela = 2701 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=213.6, Medium= 1737.0, High=1259.4, Very High=46.0
Back: Low=145.2, Medium=342.2, High=60.0, Very High=3.1
Uplight: Low=2.9, High=8.9

BUG Rating : B1-U1-G1