



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-05L-40-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11759

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/26/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-05L-40-IL

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

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

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4274
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4668
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	4668
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	11 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	199 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	158.9	N.A.	3.7
FM - Front-Medium (30-60)	2533.2	N.A.	59.3
FH - Front-High (60-80)	1113.2	N.A.	26.0
FVH - Front-Very High (80-90)	26.5	N.A.	0.6
BL - Back-Low (0-30)	76.9	N.A.	1.8
BM - Back-Medium (30-60)	289.8	N.A.	6.8
BH - Back-High (60-80)	57.3	N.A.	1.3
BVH - Back-Very High (80-90)	6.3	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.1
UH - Uplight-High (100-180)	9.0	N.A.	0.2
Total	4274.0	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	207	207	207	207	207	207	207	207	207	207
2.5	204	203	203	202	206	205	205	204	205	203
5.0	208	203	205	205	204	199	196	196	195	195
7.5	200	198	202	201	197	195	199	198	199	199
10.0	198	198	204	193	202	202	211	210	210	208
12.5	217	217	213	210	215	213	221	221	224	220
15.0	233	230	231	234	243	240	240	240	242	244
17.5	246	251	246	255	266	278	265	264	264	266
20.0	285	294	291	289	298	311	313	314	301	299
22.5	330	329	341	345	360	371	389	389	371	357
25.0	416	410	419	435	454	468	500	500	485	442
27.5	578	580	585	570	592	623	650	647	659	583
30.0	760	753	745	762	777	827	851	858	852	759
32.5	982	983	940	927	977	1029	1084	1087	1092	937
35.0	1190	1182	1157	1182	1168	1276	1321	1333	1295	1120
37.5	1489	1484	1409	1396	1422	1471	1535	1531	1480	1234
40.0	1756	1757	1718	1665	1650	1695	1739	1715	1626	1364
42.5	2068	2096	2036	1947	1903	1917	1890	1887	1740	1479
45.0	2412	2446	2414	2290	2196	2160	2062	2047	1869	1616
47.5	2753	2780	2765	2666	2568	2446	2270	2254	2056	1834
50.0	3007	3037	3115	3064	2928	2782	2597	2560	2345	2110
52.5	2991	3051	3251	3392	3413	3222	3044	3011	2778	2429
55.0	2794	2824	3072	3424	3677	3707	3752	3736	3371	2683
57.5	2254	2311	2662	3165	3716	4065	4414	4422	3798	2762
60.0	1449	1521	1931	2605	3452	4137	4652	4668	3885	2638
62.5	770	796	1115	1800	2841	3809	4477	4489	3730	2371
65.0	413	426	570	1030	1978	3132	4018	4047	3272	1870
67.5	240	243	314	549	1189	2121	3133	3207	2509	1205
70.0	158	168	212	362	661	1200	2112	2157	1653	683
72.5	117	124	153	267	439	602	1126	1220	895	298
75.0	80	85	111	209	337	345	508	563	379	145
77.5	57	60	83	172	265	228	226	249	195	91
80.0	44	46	64	136	199	149	118	125	119	68
82.5	34	36	51	108	133	89	71	70	78	53
85.0	25	26	38	78	81	44	44	43	45	36
87.5	15	16	27	45	30	16	16	15	17	17
90.0	3	4	6	11	6	4	3	3	3	2
92.5	1	1	2	2	2	2	2	2	2	2
95.0	1	1	1	2	2	2	2	2	2	2
97.5	1	1	1	2	2	2	2	2	1	1
100.0	1	1	1	2	2	2	2	2	1	1
102.5	1	1	1	2	2	2	2	2	1	1
105.0	1	1	1	2	2	2	2	2	1	1
107.5	1	1	1	2	2	2	2	1	1	1
110.0	1	1	1	2	2	2	2	2	1	1
112.5	1	1	1	2	2	2	2	2	2	2
115.0	1	1	1	2	2	2	2	2	2	2
117.5	1	1	1	2	2	2	2	2	2	2
120.0	1	1	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

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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	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	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>85.0</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	207	207	207	207	207	207	207	207	207	207
2.5	205	206	206	206	208	210	208	208	208	208
5.0	197	197	197	194	202	204	205	204	203	200
7.5	196	197	198	201	199	196	192	188	184	186
10.0	205	202	201	212	202	196	179	173	160	158
12.5	214	213	213	213	201	189	168	148	139	133
15.0	225	220	220	222	204	176	151	136	127	121
17.5	245	238	240	223	197	160	143	133	125	118
20.0	269	258	250	232	186	152	137	133	127	117
22.5	323	301	289	249	182	152	139	135	131	121
25.0	396	363	338	264	187	162	139	136	145	140
27.5	506	447	405	281	207	175	141	143	174	179
30.0	634	551	473	295	218	183	150	155	213	225
32.5	741	636	530	304	220	188	155	172	252	286
35.0	850	706	574	308	215	189	160	175	295	357
37.5	944	778	611	313	206	186	158	178	355	448
40.0	1038	842	651	317	197	179	155	173	415	450
42.5	1144	913	692	322	188	169	147	161	449	356
45.0	1302	1035	753	331	178	157	134	147	364	265
47.5	1522	1181	828	343	167	139	118	133	238	197
50.0	1749	1339	923	349	151	113	95	113	135	151
52.5	1949	1470	972	343	124	82	69	86	88	121
55.0	2040	1501	953	313	96	62	52	59	62	98
57.5	2011	1417	847	265	79	52	43	41	43	79
60.0	1866	1247	666	206	67	46	37	32	32	64
62.5	1561	971	456	149	57	40	30	25	24	52
65.0	1036	638	281	102	48	33	25	19	18	43
67.5	594	373	166	70	39	27	19	15	14	35
70.0	269	189	95	50	32	21	14	12	10	27
72.5	116	98	66	41	25	17	12	10	7	20
75.0	72	67	56	37	21	15	10	7	4	15
77.5	54	52	47	34	18	13	9	6	3	11

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**CANDELA TABULATION - (Cont.)**

80.0	49	44	39	30	16	12	8	5	2	9
82.5	36	33	32	25	14	11	8	5	2	7
85.0	22	21	23	18	12	10	8	4	2	6
87.5	11	10	12	11	10	9	7	4	2	5
90.0	2	2	4	7	8	8	6	4	1	3
92.5	2	1	3	5	7	7	5	3	1	1
95.0	2	1	3	5	6	6	5	3	1	1
97.5	2	1	2	4	5	5	4	3	1	1
100.0	2	1	2	3	4	4	3	2	1	1
102.5	2	1	2	3	3	3	3	2	1	1
105.0	2	2	2	3	3	3	3	2	2	1
107.5	2	2	2	3	3	3	3	2	2	1
110.0	2	2	2	2	3	3	3	2	2	1
112.5	2	2	2	3	3	3	3	2	2	1
115.0	2	2	2	3	3	3	3	2	2	1
117.5	2	2	2	3	3	3	3	3	2	1
120.0	2	2	2	3	3	3	3	3	2	2
122.5	2	2	2	3	3	3	3	3	2	2
125.0	2	2	2	3	3	3	3	3	2	2
127.5	2	2	3	3	3	3	3	3	2	2
130.0	2	2	3	3	3	3	3	3	2	2
132.5	2	2	2	3	3	3	3	3	2	2
135.0	2	2	2	3	3	3	3	3	2	2
137.5	2	2	2	2	3	3	3	2	2	1
140.0	2	2	2	2	2	2	2	2	2	1
142.5	1	2	2	2	2	2	2	2	1	1
145.0	1	1	2	2	2	2	2	2	1	1
147.5	1	1	2	2	2	2	2	2	1	1
150.0	1	1	2	2	2	2	2	2	1	1
152.5	1	1	1	2	2	2	2	1	1	1
155.0	1	1	1	2	2	2	2	1	1	0
157.5	1	1	1	1	2	2	1	1	1	0
160.0	1	1	1	1	1	1	1	1	1	0
162.5	1	1	1	1	1	1	1	1	0	0
165.0	1	1	1	1	1	1	1	1	0	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	1	0	0
172.5	1	1	1	1	1	1	1	1	0	0
175.0	1	1	1	1	1	1	1	1	0	0
177.5	1	1	1	1	1	1	1	1	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	207	207
2.5	209	209
5.0	198	199
7.5	182	180
10.0	152	152
12.5	132	131
15.0	122	120
17.5	116	116
20.0	115	113
22.5	112	110
25.0	121	116

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-3-LED-05L-40-IL.IES**

**CANDELA TABULATION - (Cont.)**

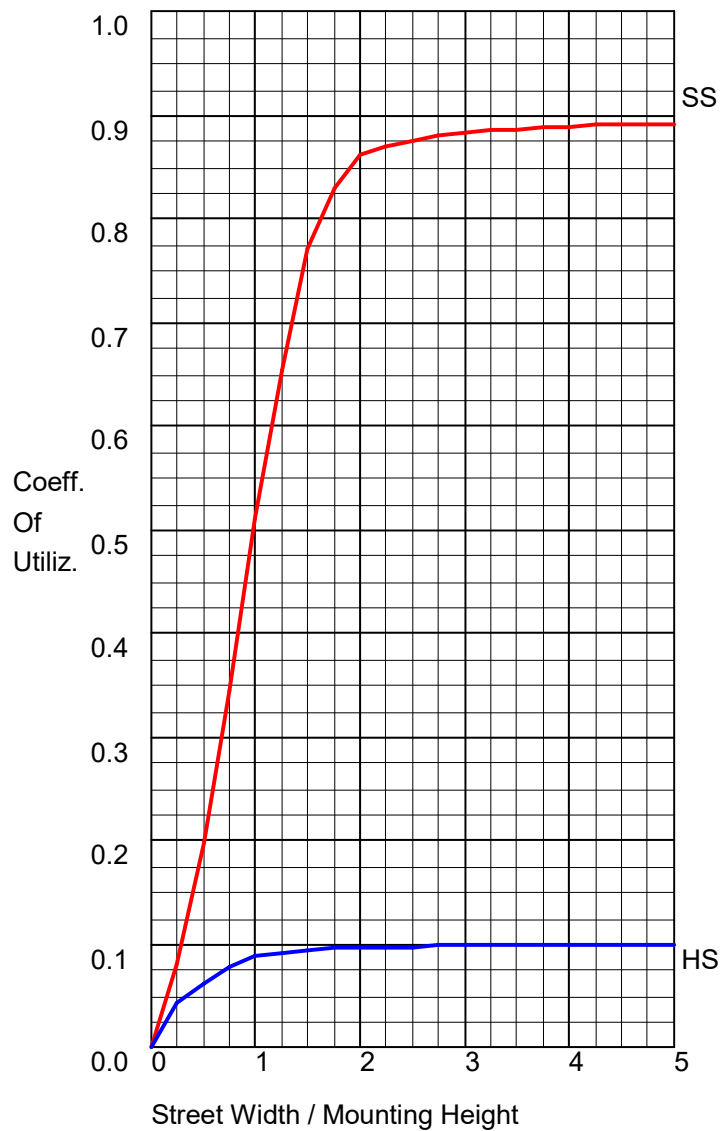
27.5	143	138
30.0	176	172
32.5	225	215
35.0	278	266
37.5	284	262
40.0	227	202
42.5	169	145
45.0	126	112
47.5	102	89
50.0	87	73
52.5	81	63
55.0	79	58
57.5	81	60
60.0	85	67
62.5	89	75
65.0	90	81
67.5	86	82
70.0	77	78
72.5	67	69
75.0	52	55
77.5	41	45
80.0	33	37
82.5	27	30
85.0	21	23
87.5	16	17
90.0	7	9
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	1	0
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	2	1
130.0	2	2
132.5	2	1
135.0	1	1
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

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**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

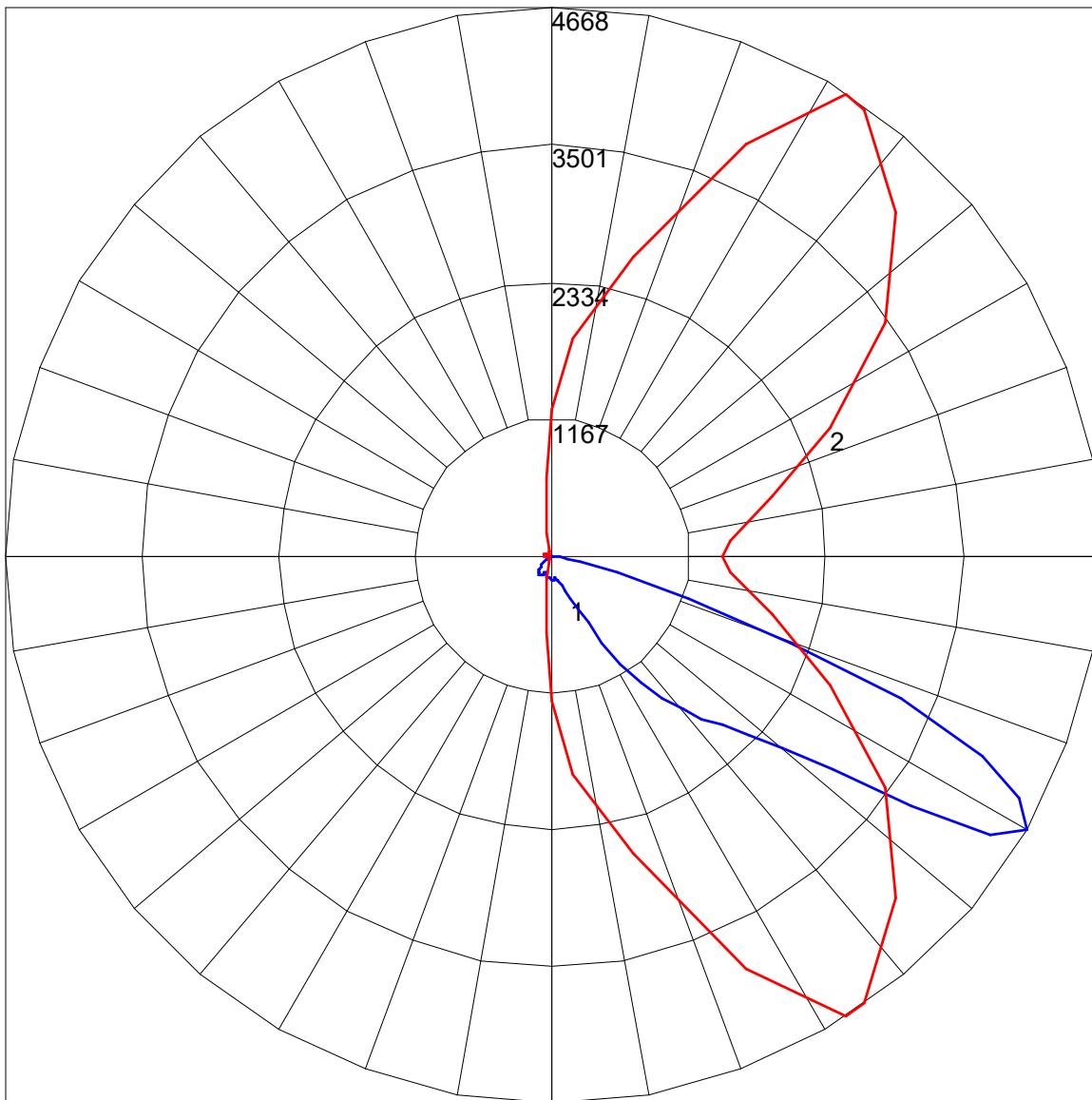


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3831.8	89.7
Downward House Side	430.3	10.1
Downward Total	4262.1	99.7
Upward Street Side	5.0	0.1
Upward House Side	6.9	0.2
Upward Total	11.9	0.3
Total Flux	4274.0	100.0

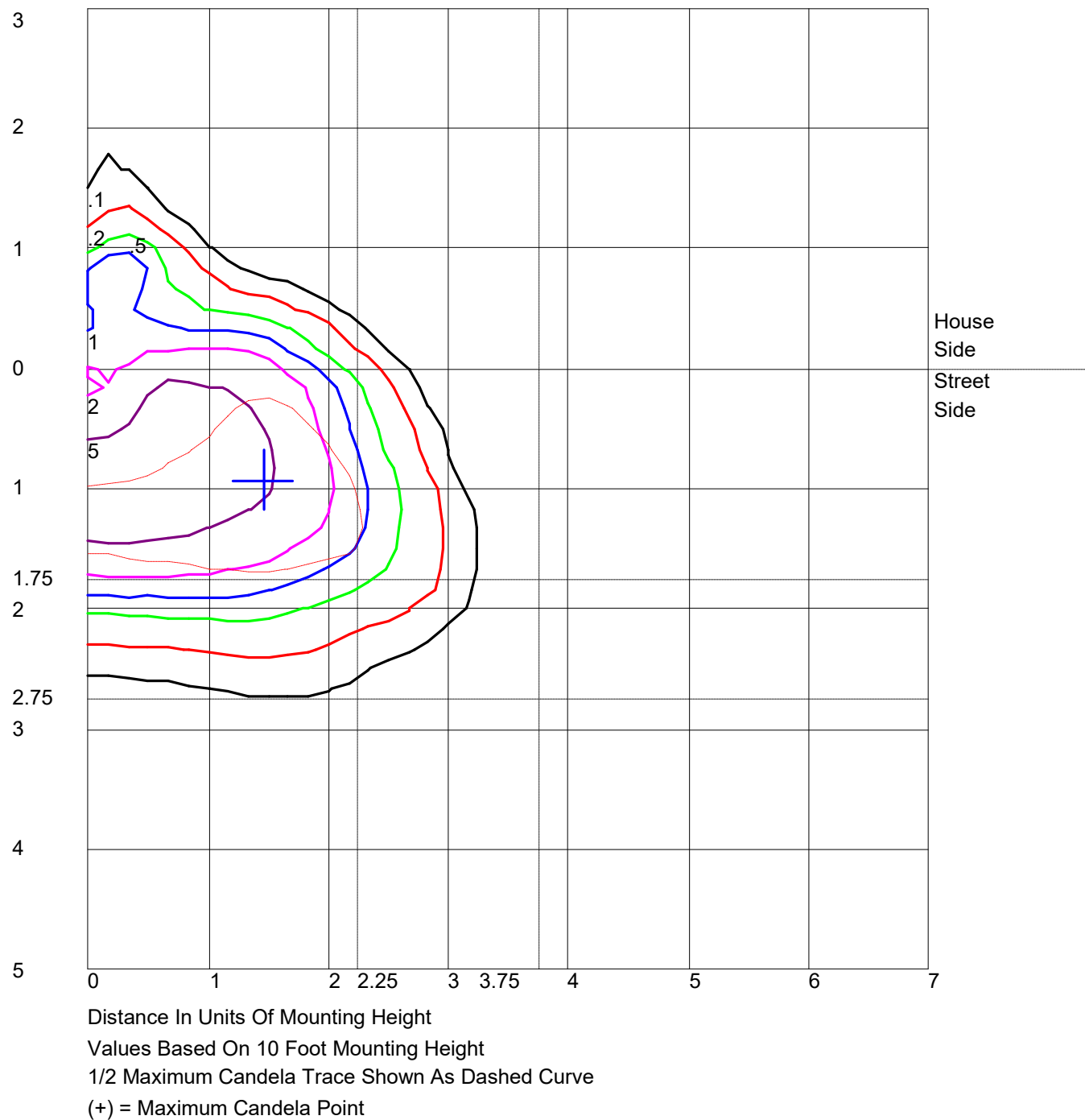


POLAR GRAPH

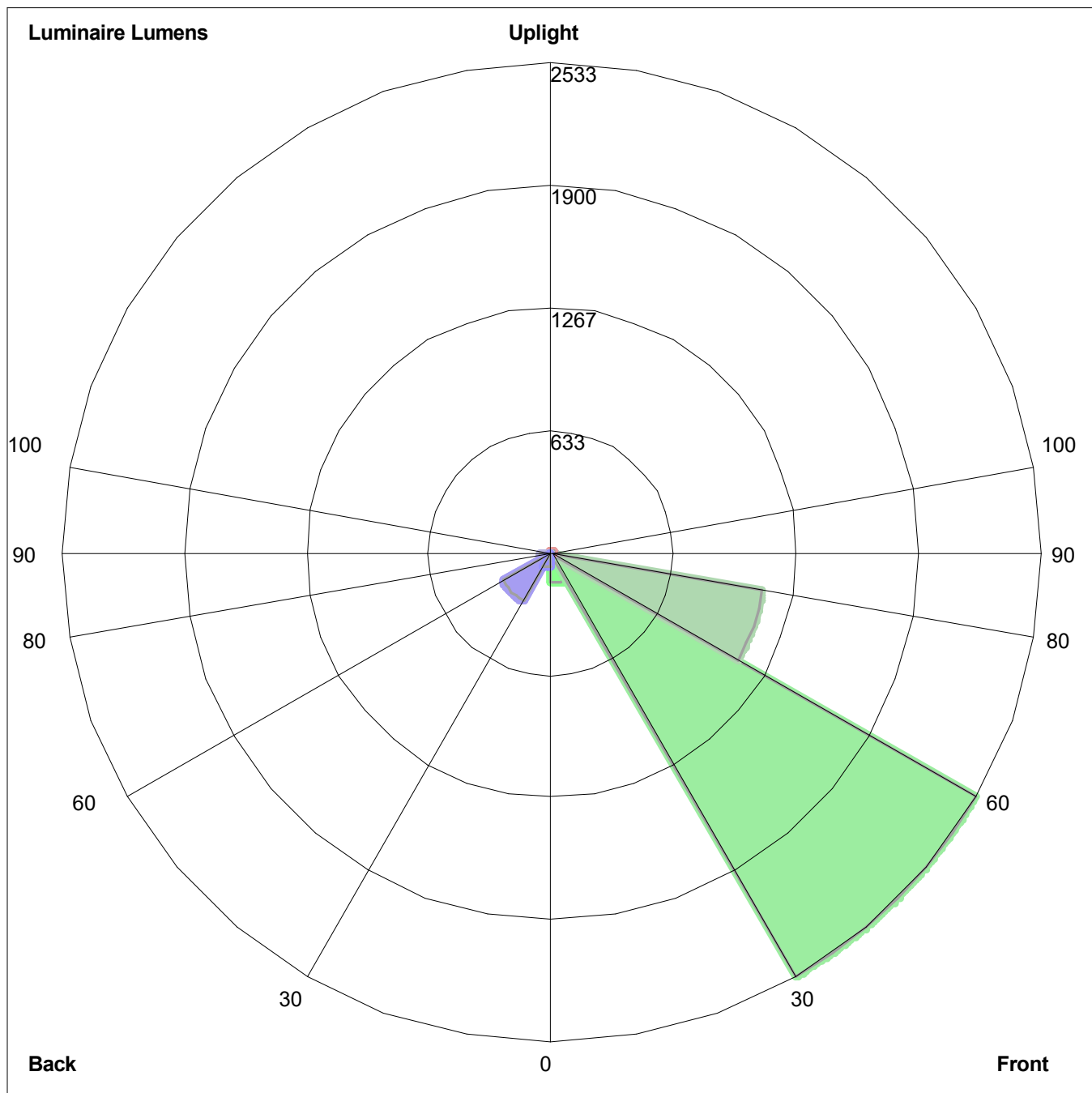


Maximum Candela = 4668 Located At Horizontal Angle = 57.5, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=158.9, Medium=2533.2, High=1113.2, Very High=26.5  
Back: Low=76.9, Medium=289.8, High=57.3, Very High=6.3  
Uplight: Low=2.9, High=9.0

BUG Rating : B1-U1-G1