



## IES ROAD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11768  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 06/10/20  
[TESTDATE] 04/27/20  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-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	5189
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	4701
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	4701
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	29 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	567 (10.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	151.1	N.A.	2.9
FM - Front-Medium (30-60)	2035.8	N.A.	39.2
FH - Front-High (60-80)	1813.5	N.A.	34.9
FVH - Front-Very High (80-90)	50.8	N.A.	1.0
BL - Back-Low (0-30)	146.7	N.A.	2.8
BM - Back-Medium (30-60)	655.3	N.A.	12.6
BH - Back-High (60-80)	294.9	N.A.	5.7
BVH - Back-Very High (80-90)	28.3	N.A.	0.5
UL - Uplight-Low (90-100)	4.5	N.A.	0.1
UH - Uplight-High (100-180)	8.4	N.A.	0.2
Total	5189.3	N.A.	100.0
BUG Rating	B1-U1-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>57.5</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	240	240	240	240	240	240	240	240	240	240
<b>2.5</b>	238	236	233	234	235	236	238	238	237	238
<b>5.0</b>	216	217	223	226	231	222	222	222	221	221
<b>7.5</b>	210	216	222	215	213	214	219	221	230	226
<b>10.0</b>	215	217	221	214	218	229	229	230	230	231
<b>12.5</b>	224	237	230	225	234	239	238	239	239	246
<b>15.0</b>	247	254	254	257	262	255	261	262	260	257
<b>17.5</b>	270	273	272	276	282	289	283	282	283	283
<b>20.0</b>	315	310	308	309	317	321	324	321	314	308
<b>22.5</b>	343	354	354	364	363	364	380	370	357	344
<b>25.0</b>	394	394	404	421	439	435	449	447	428	398
<b>27.5</b>	482	504	506	506	521	550	547	539	527	489
<b>30.0</b>	593	579	601	629	641	705	682	681	662	599
<b>32.5</b>	766	771	744	765	830	855	860	839	816	706
<b>35.0</b>	967	954	942	954	996	1057	1055	1034	965	845
<b>37.5</b>	1139	1137	1132	1158	1209	1258	1255	1215	1129	948
<b>40.0</b>	1309	1328	1352	1372	1456	1478	1439	1408	1283	1066
<b>42.5</b>	1476	1484	1525	1640	1672	1703	1610	1584	1418	1147
<b>45.0</b>	1674	1683	1750	1873	1922	1917	1785	1726	1530	1225
<b>47.5</b>	1935	1946	2029	2142	2163	2104	1939	1864	1644	1312
<b>50.0</b>	2241	2274	2335	2420	2421	2299	2083	2003	1767	1413
<b>52.5</b>	2599	2633	2691	2713	2654	2477	2230	2155	1911	1555
<b>55.0</b>	2924	2962	3035	3031	2897	2640	2394	2332	2095	1755
<b>57.5</b>	3195	3238	3343	3329	3217	2840	2624	2577	2357	2042
<b>60.0</b>	3168	3210	3411	3537	3612	3194	2967	2954	2717	2404
<b>62.5</b>	2594	2592	2897	3326	3840	3673	3447	3423	3117	2747
<b>65.0</b>	1525	1511	1858	2518	3543	4065	4044	4003	3494	2905
<b>67.5</b>	670	707	878	1446	2632	3936	4624	4530	3731	2785
<b>70.0</b>	366	386	475	710	1487	3210	4701	4689	3534	2177
<b>72.5</b>	216	224	295	458	800	1961	3841	3896	2668	1194
<b>75.0</b>	144	151	197	317	542	1035	2443	2373	1456	462
<b>77.5</b>	101	106	144	248	397	601	1197	1181	606	210
<b>80.0</b>	71	74	107	195	311	355	567	561	306	113
<b>82.5</b>	44	49	81	139	225	211	230	247	153	71
<b>85.0</b>	34	37	59	101	125	114	96	100	80	43
<b>87.5</b>	29	30	45	76	69	34	29	29	29	23
<b>90.0</b>	16	18	26	29	22	7	6	6	5	4
<b>92.5</b>	4	4	6	6	3	3	3	3	3	3
<b>95.0</b>	2	2	2	2	2	2	3	3	2	2
<b>97.5</b>	2	2	2	2	1	2	2	2	2	2
<b>100.0</b>	1	1	1	1	2	2	2	2	2	2
<b>102.5</b>	2	1	1	1	1	2	2	2	2	2
<b>105.0</b>	1	1	1	1	1	1	2	1	1	2
<b>107.5</b>	1	1	1	1	1	1	1	1	1	1
<b>110.0</b>	1	1	1	1	1	1	1	1	1	2
<b>112.5</b>	1	1	1	2	2	1	1	1	1	2
<b>115.0</b>	1	1	2	2	1	2	1	1	2	2
<b>117.5</b>	2	2	2	2	2	2	1	1	1	2
<b>120.0</b>	2	2	2	2	2	2	2	1	2	2
<b>122.5</b>	2	2	2	2	2	2	2	2	2	2
<b>125.0</b>	2	2	2	2	2	2	2	1	2	2
<b>127.5</b>	2	2	2	2	2	2	2	2	2	2
<b>130.0</b>	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	0	1	0	0	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	0	1	0	1	1	1	1	1
157.5	0	0	1	1	1	0	1	1	1	1
160.0	0	0	0	0	0	0	1	1	1	1
162.5	0	0	0	1	1	1	1	1	1	1
165.0	0	0	0	1	0	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	0	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	241	241	241	240	244	245	248	247	243	241
5.0	221	222	225	233	239	241	244	247	247	245
7.5	229	229	235	247	244	239	238	246	247	254
10.0	228	231	235	245	242	254	254	255	255	260
12.5	243	243	254	255	258	258	269	287	287	301
15.0	256	256	259	261	263	287	297	315	324	318
17.5	273	266	266	277	283	314	335	343	348	349
20.0	290	284	284	282	304	339	347	368	374	375
22.5	326	306	304	305	338	370	382	391	391	400
25.0	364	349	336	320	390	402	405	406	418	431
27.5	429	386	374	350	419	425	426	438	449	461
30.0	493	438	408	376	441	466	455	470	473	492
32.5	564	496	439	403	467	496	493	505	534	562
35.0	649	555	480	426	480	518	534	540	617	653
37.5	727	617	511	439	489	534	545	595	681	774
40.0	778	649	523	446	492	540	549	610	809	885
42.5	818	678	533	436	479	535	542	635	940	865
45.0	871	712	545	429	462	520	533	630	1076	788
47.5	932	752	564	426	443	501	516	611	1125	749
50.0	1012	802	590	426	424	482	499	584	1089	731
52.5	1105	855	616	428	405	464	479	549	1015	716
55.0	1212	915	644	428	386	442	458	503	914	697
57.5	1367	1006	671	415	363	415	434	459	774	662
60.0	1587	1124	650	385	337	379	404	414	621	638
62.5	1836	1159	564	343	310	340	361	366	490	609
65.0	1925	1046	429	296	285	302	319	334	386	567
67.5	1691	797	319	263	257	272	287	308	319	497
70.0	1065	475	226	227	224	235	253	281	277	409
72.5	470	234	154	178	189	198	215	250	231	309
75.0	191	112	110	142	156	169	182	203	157	186
77.5	93	68	81	117	132	145	141	116	90	128

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**CANDELA TABULATION - (Cont.)**

80.0	61	47	66	97	112	105	78	88	66	89
82.5	42	34	52	80	89	64	59	67	41	64
85.0	25	20	39	62	51	45	41	32	21	41
87.5	12	9	27	37	30	26	18	15	9	21
90.0	3	3	9	10	11	10	7	4	2	3
92.5	2	2	5	8	10	9	7	3	1	0
95.0	2	2	4	7	9	9	6	3	1	0
97.5	2	3	4	6	8	8	5	3	1	0
100.0	2	2	3	5	7	6	5	3	1	0
102.5	2	2	3	4	5	5	4	3	1	1
105.0	2	2	3	3	4	4	3	2	1	1
107.5	2	2	3	3	3	3	3	2	1	1
110.0	2	2	3	3	3	3	3	2	1	1
112.5	2	2	3	3	3	3	3	2	1	1
115.0	2	2	2	3	3	3	3	2	1	1
117.5	2	2	3	3	3	3	3	2	1	1
120.0	2	2	3	3	4	4	3	2	2	1
122.5	2	2	3	3	4	4	3	3	2	1
125.0	2	2	3	3	3	3	3	3	2	1
127.5	2	2	3	3	3	3	3	3	2	1
130.0	2	3	3	3	3	3	3	3	2	1
132.5	2	2	3	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	3	2	2	1	1	1
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	2	2	1	1	1	0	0
147.5	1	2	1	2	2	2	1	1	0	0
150.0	1	1	1	2	2	1	1	0	0	0
152.5	1	1	1	1	2	1	1	0	0	0
155.0	1	1	1	1	1	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	0	0	0	0
162.5	1	1	1	1	1	1	0	0	0	0
165.0	1	1	1	1	1	1	0	0	0	0
167.5	1	1	1	1	1	1	1	0	0	0
170.0	1	1	1	1	1	1	0	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	0	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	243	245
7.5	254	254
10.0	270	269
12.5	302	303
15.0	332	341
17.5	363	368
20.0	389	396
22.5	401	423
25.0	438	457

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

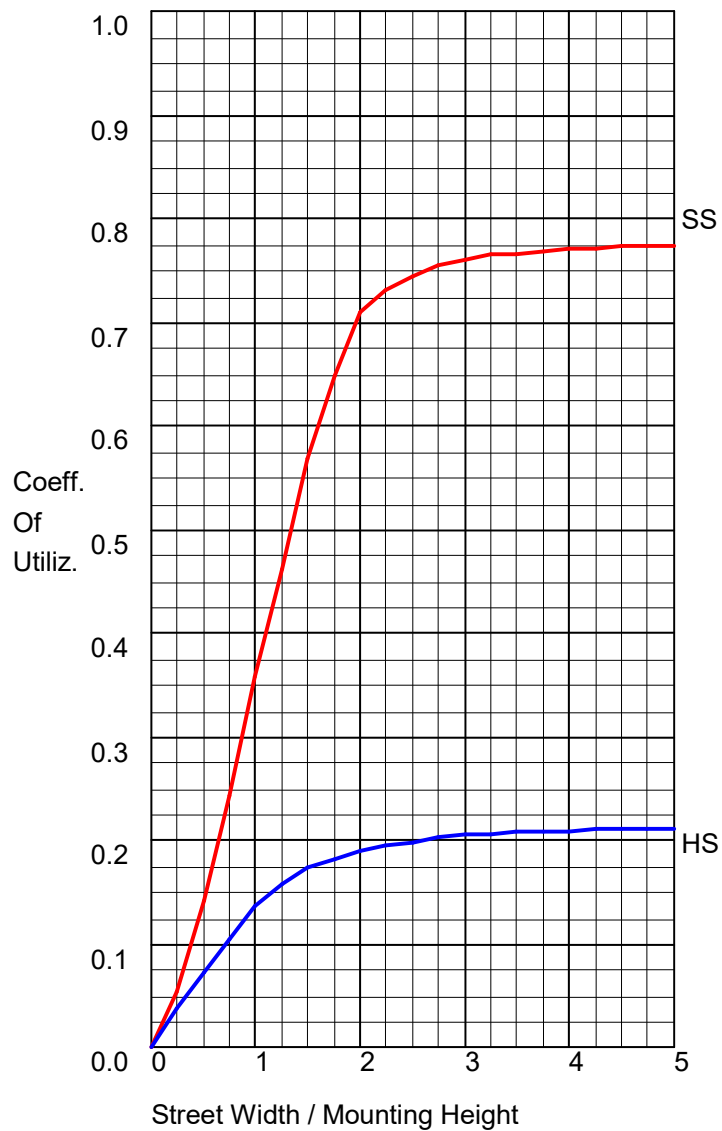
27.5	462	500
30.0	497	539
32.5	577	607
35.0	655	698
37.5	725	764
40.0	679	704
42.5	590	614
45.0	549	565
47.5	515	524
50.0	489	492
52.5	465	460
55.0	443	428
57.5	416	390
60.0	417	371
62.5	434	365
65.0	461	379
67.5	487	431
70.0	492	480
72.5	435	466
75.0	343	426
77.5	288	354
80.0	222	253
82.5	160	171
85.0	116	118
87.5	83	100
90.0	0	0
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	1	1
122.5	1	0
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	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 : LXM4-PT-3-LED-05L-40.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

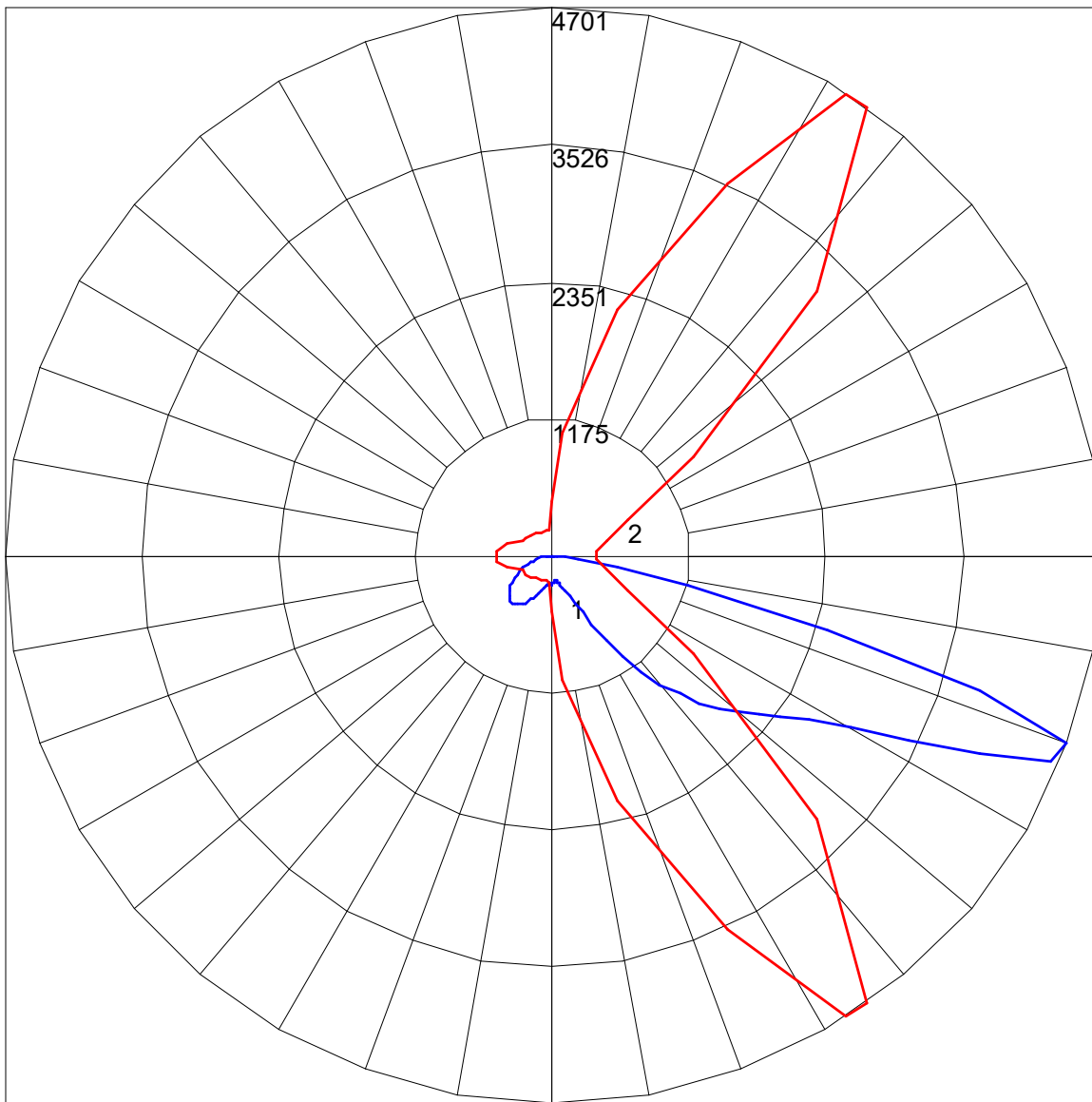


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	4051.1	78.1
Downward House Side	1125.2	21.7
Downward Total	5176.3	99.8
Upward Street Side	5.7	0.1
Upward House Side	7.2	0.1
Upward Total	12.9	0.2
Total Flux	5189.2	100.0

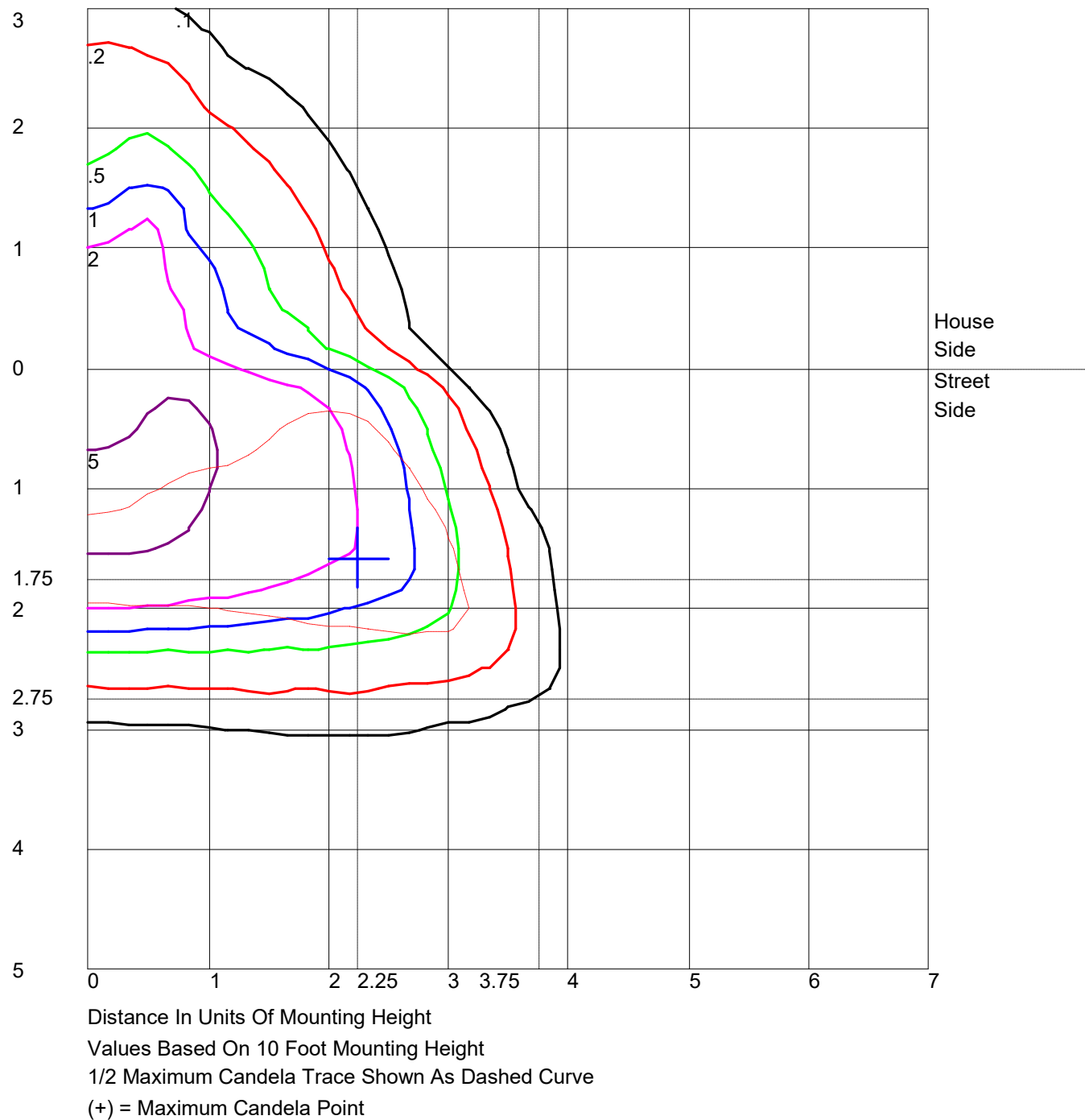


POLAR GRAPH

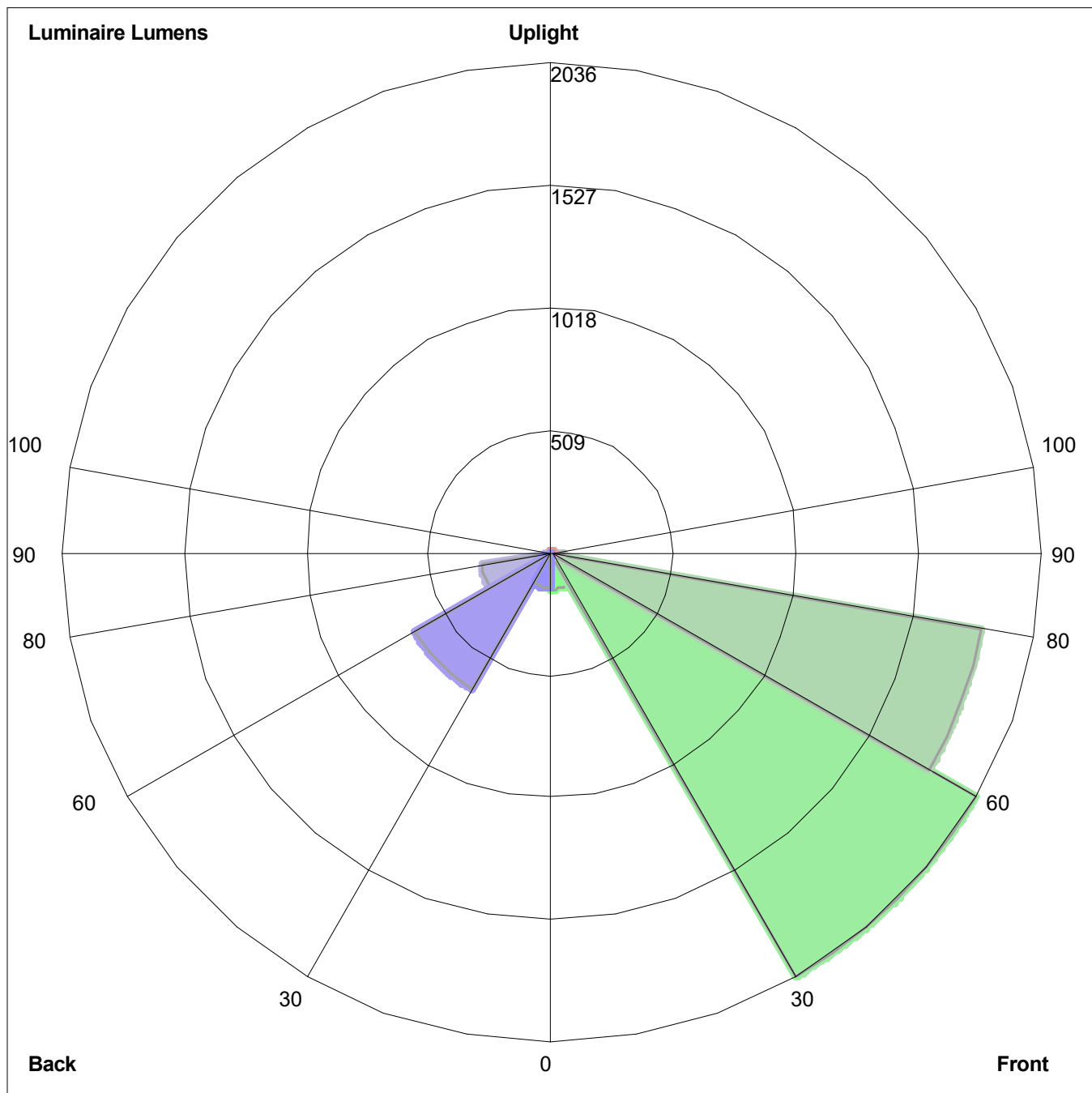


Maximum Candela = 4701 Located At Horizontal Angle = 55, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=151.1, Medium=2035.8, High=1813.5, Very High=50.8  
Back: Low=146.7, Medium=655.3, High=294.9, Very High=28.3  
Uplight: Low=4.5, High=8.4

BUG Rating : B1-U1-G2