



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11768

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-05L-50

[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	5446
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4934
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	4934
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	30 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	595 (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)	158.6	N.A.	2.9
FM - Front-Medium (30-60)	2136.7	N.A.	39.2
FH - Front-High (60-80)	1903.5	N.A.	35.0
FVH - Front-Very High (80-90)	53.3	N.A.	1.0
BL - Back-Low (0-30)	153.9	N.A.	2.8
BM - Back-Medium (30-60)	687.8	N.A.	12.6
BH - Back-High (60-80)	309.5	N.A.	5.7
BVH - Back-Very High (80-90)	29.7	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	5445.9	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	252	252	252	252	252	252	252	252	252	252
2.5	250	248	245	246	247	248	250	250	249	250
5.0	227	228	234	237	242	233	233	233	232	232
7.5	220	227	233	226	224	225	230	232	241	237
10.0	226	228	232	225	229	240	240	241	241	242
12.5	235	249	241	236	246	251	250	251	251	258
15.0	259	267	267	270	275	268	274	275	273	270
17.5	283	287	285	290	296	303	297	296	297	297
20.0	331	325	323	324	333	337	340	337	330	323
22.5	360	372	372	382	381	382	399	388	375	361
25.0	414	414	424	442	461	457	471	469	449	418
27.5	506	529	531	531	547	577	574	566	553	513
30.0	622	608	631	660	673	740	716	715	695	629
32.5	804	809	781	803	871	897	903	881	856	741
35.0	1015	1001	989	1001	1045	1109	1107	1085	1013	887
37.5	1195	1193	1188	1215	1269	1320	1317	1275	1185	995
40.0	1374	1394	1419	1440	1528	1551	1510	1478	1347	1119
42.5	1549	1558	1601	1721	1755	1787	1690	1663	1488	1204
45.0	1757	1766	1837	1966	2017	2012	1874	1812	1606	1286
47.5	2031	2043	2130	2248	2270	2208	2035	1956	1726	1377
50.0	2352	2387	2451	2540	2541	2413	2186	2102	1855	1483
52.5	2728	2764	2824	2848	2786	2600	2341	2262	2006	1632
55.0	3069	3109	3186	3181	3041	2771	2513	2448	2199	1842
57.5	3353	3399	3509	3494	3377	2981	2754	2705	2474	2143
60.0	3325	3369	3580	3712	3791	3352	3114	3101	2852	2523
62.5	2723	2721	3041	3491	4030	3855	3618	3593	3272	2883
65.0	1601	1586	1950	2643	3719	4267	4245	4202	3667	3049
67.5	703	742	922	1518	2763	4131	4853	4755	3916	2923
70.0	384	405	499	745	1561	3369	4934	4922	3709	2285
72.5	227	235	310	481	840	2058	4032	4089	2800	1253
75.0	151	158	207	333	569	1086	2564	2491	1528	485
77.5	106	111	151	260	417	631	1256	1240	636	220
80.0	75	78	112	205	326	373	595	589	321	119
82.5	46	51	85	146	236	221	241	259	161	75
85.0	36	39	62	106	131	120	101	105	84	45
87.5	30	31	47	80	72	36	30	30	30	24
90.0	17	19	27	30	23	7	6	6	5	4
92.5	4	4	6	6	3	3	3	3	3	3
95.0	2	2	2	2	2	2	3	3	2	2
97.5	2	2	2	2	1	2	2	2	2	2
100.0	1	1	1	1	2	2	2	2	2	2
102.5	2	1	1	1	1	2	2	2	2	2
105.0	1	1	1	1	1	1	2	1	1	2
107.5	1	1	1	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	2
112.5	1	1	1	2	2	1	1	1	1	2
115.0	1	1	2	2	1	2	1	1	2	2
117.5	2	2	2	2	2	2	1	1	1	2
120.0	2	2	2	2	2	2	2	1	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	1	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	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	252	252	252	252	252	252	252	252	252	252
2.5	253	253	253	252	256	257	260	259	255	253
5.0	232	233	236	245	251	253	256	259	259	257
7.5	240	240	247	259	256	251	250	258	259	267
10.0	239	242	247	257	254	267	267	268	268	273
12.5	255	255	267	268	271	271	282	301	301	316
15.0	269	269	272	274	276	301	312	331	340	334
17.5	287	279	279	291	297	330	352	360	365	366
20.0	304	298	298	296	319	356	364	386	393	394
22.5	342	321	319	320	355	388	401	410	410	420
25.0	382	366	353	336	409	422	425	426	439	452
27.5	450	405	393	367	440	446	447	460	471	484
30.0	517	460	428	395	463	489	478	493	496	516
32.5	592	521	461	423	490	521	517	530	560	590
35.0	681	583	504	447	504	544	560	567	648	685
37.5	763	648	536	461	513	560	572	625	715	812
40.0	817	681	549	468	516	567	576	640	849	929
42.5	859	712	559	458	503	562	569	666	987	908
45.0	914	747	572	450	485	546	559	661	1129	827
47.5	978	789	592	447	465	526	542	641	1181	786
50.0	1062	842	619	447	445	506	524	613	1143	767
52.5	1160	897	647	449	425	487	503	576	1065	752
55.0	1272	960	676	449	405	464	481	528	959	732
57.5	1435	1056	704	436	381	436	456	482	812	695
60.0	1666	1180	682	404	354	398	424	435	652	670
62.5	1927	1216	592	360	325	357	379	384	514	639
65.0	2020	1098	450	311	299	317	335	351	405	595
67.5	1775	837	335	276	270	285	301	323	335	522
70.0	1118	499	237	238	235	247	266	295	291	429
72.5	493	246	162	187	198	208	226	262	242	324
75.0	200	118	115	149	164	177	191	213	165	195
77.5	98	71	85	123	139	152	148	122	94	134

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CANDELA TABULATION - (Cont.)

80.0	64	49	69	102	118	110	82	92	69	93
82.5	44	36	55	84	93	67	62	70	43	67
85.0	26	21	41	65	54	47	43	34	22	43
87.5	13	9	28	39	31	27	19	16	9	22
90.0	3	3	9	10	12	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	252	252
2.5	249	248
5.0	255	257
7.5	267	267
10.0	283	282
12.5	317	318
15.0	348	358
17.5	381	386
20.0	408	416
22.5	421	444
25.0	460	480

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CANDELA TABULATION - (Cont.)

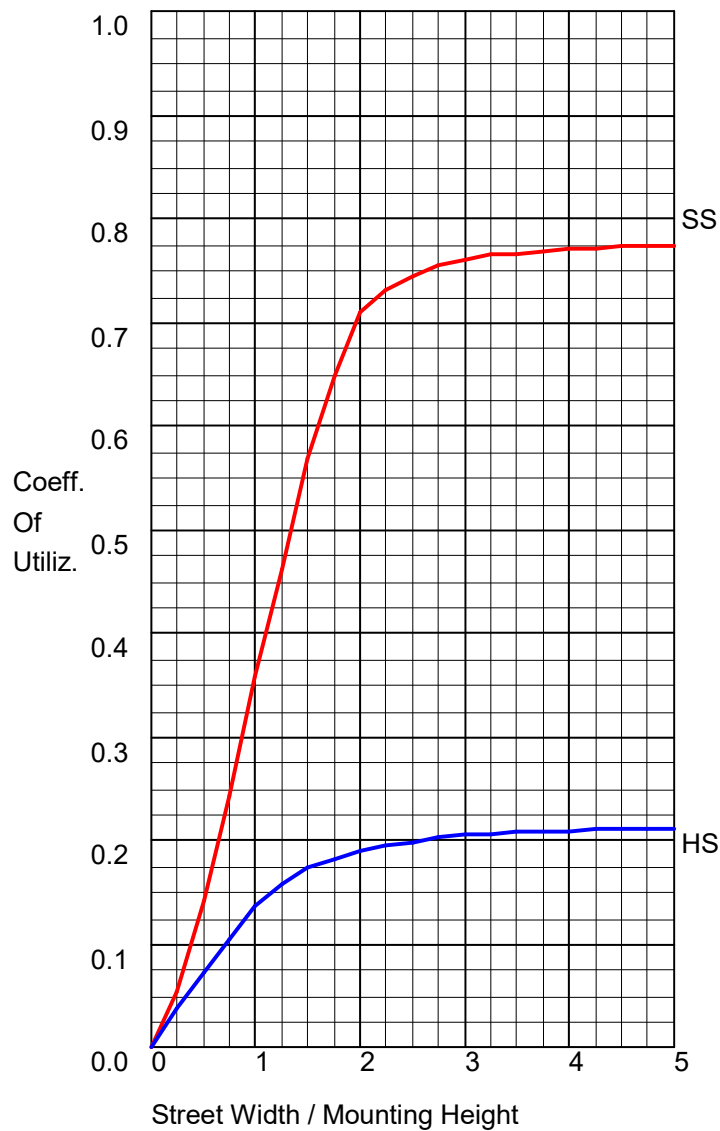
27.5	485	525
30.0	522	566
32.5	606	637
35.0	687	733
37.5	761	802
40.0	713	739
42.5	619	644
45.0	576	593
47.5	541	550
50.0	513	516
52.5	488	483
55.0	465	449
57.5	437	409
60.0	438	389
62.5	456	383
65.0	484	398
67.5	511	452
70.0	516	504
72.5	457	489
75.0	360	447
77.5	302	372
80.0	233	266
82.5	168	179
85.0	122	124
87.5	87	105
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

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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

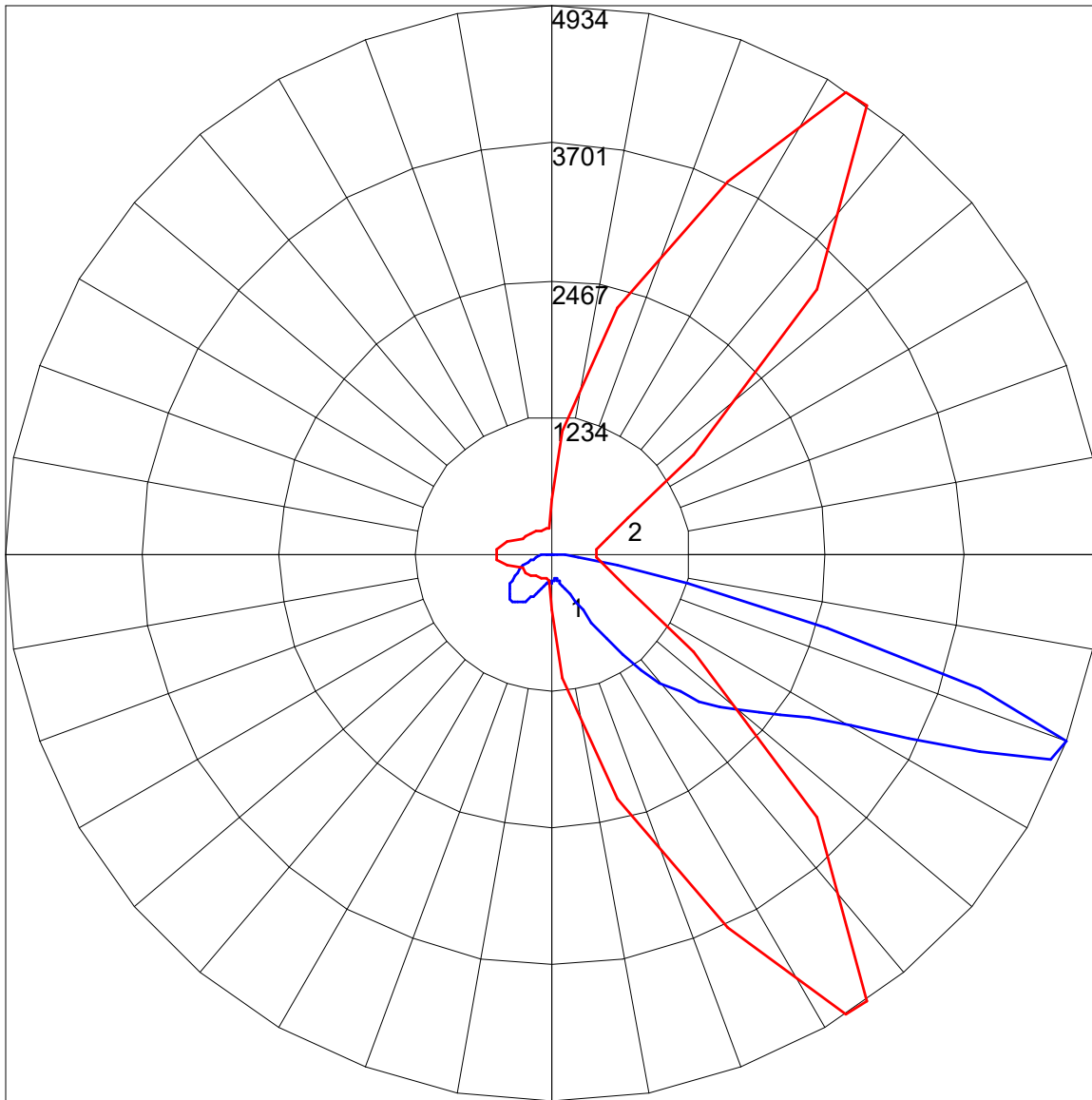
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

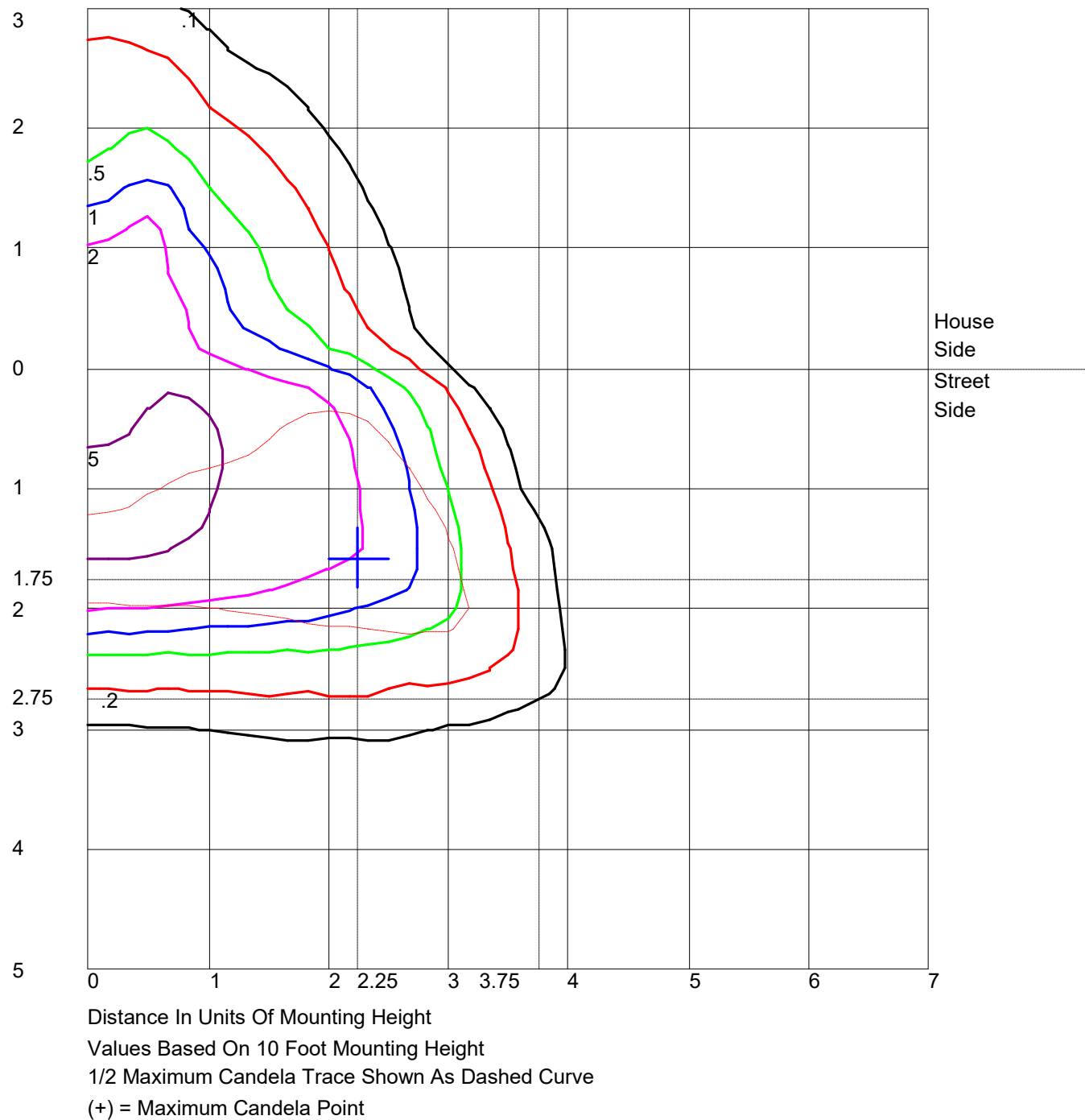
	Lumens	Percent Of Luminaire
Downward Street Side	4252.1	78.1
Downward House Side	1181.0	21.7
Downward Total	5433.1	99.8
Upward Street Side	5.7	0.1
Upward House Side	7.2	0.1
Upward Total	12.9	0.2
Total Flux	5446.0	100.0

POLAR GRAPH

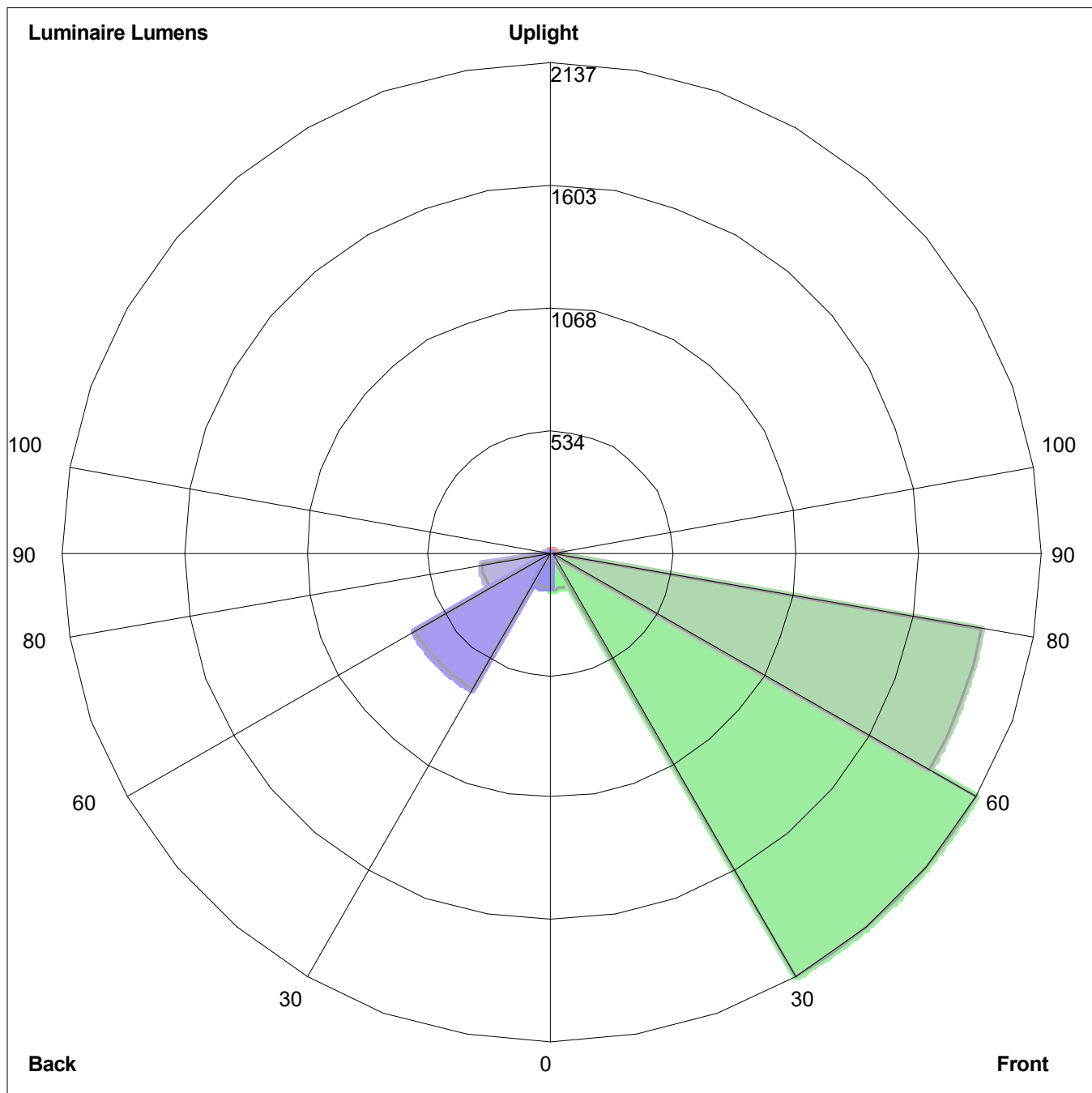


Maximum Candela = 4934 Located At Horizontal Angle = 55, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=158.6, Medium=2136.7, High=1903.5, Very High=53.3
Back: Low=153.9, Medium=687.8, High=309.5, Very High=29.7
Uplight: Low=4.5, High=8.4

BUG Rating : B1-U1-G2