



IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11766
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/27/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] LXM4-PT-FT-LED-05L-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5304
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3547
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3547
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	52 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1151 (21.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	245.8	N.A.	4.6
FM - Front-Medium (30-60)	1591.7	N.A.	30.0
FH - Front-High (60-80)	1986.0	N.A.	37.4
FVH - Front-Very High (80-90)	119.2	N.A.	2.2
BL - Back-Low (0-30)	230.7	N.A.	4.3
BM - Back-Medium (30-60)	762.6	N.A.	14.4
BH - Back-High (60-80)	328.7	N.A.	6.2
BVH - Back-Very High (80-90)	28.4	N.A.	0.5
UL - Uplight-Low (90-100)	3.9	N.A.	0.1
UH - Uplight-High (100-180)	7.4	N.A.	0.1
Total	5304.4	N.A.	100.0
BUG Rating	B1-U1-G2		

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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	441	441	441	441	441	441	441	441	441	441
2.5	437	439	431	433	436	436	440	443	442	443
5.0	389	398	409	420	431	426	410	412	409	406
7.5	378	393	408	390	390	382	392	404	433	425
10.0	386	390	398	379	392	403	417	426	431	437
12.5	390	422	398	394	417	414	428	437	449	471
15.0	421	445	435	450	466	442	453	475	485	503
17.5	449	473	458	473	491	500	506	501	524	559
20.0	522	524	516	519	535	535	546	558	564	597
22.5	571	583	597	596	590	575	586	623	615	650
25.0	642	632	655	655	658	675	653	676	673	681
27.5	734	774	769	732	722	744	740	731	720	748
30.0	839	827	820	813	790	793	814	793	793	814
32.5	976	983	913	879	892	886	866	875	865	849
35.0	1104	1078	1034	994	955	956	953	948	913	909
37.5	1221	1199	1140	1074	1058	1039	1021	1015	979	929
40.0	1307	1309	1264	1194	1155	1138	1127	1084	1045	976
42.5	1388	1396	1355	1333	1265	1230	1221	1179	1095	1006
45.0	1483	1490	1462	1431	1384	1347	1333	1268	1156	1043
47.5	1590	1600	1574	1537	1494	1463	1436	1376	1236	1101
50.0	1702	1714	1699	1668	1624	1605	1561	1504	1341	1182
52.5	1811	1823	1821	1801	1764	1752	1711	1662	1484	1285
55.0	1901	1924	1939	1933	1923	1902	1881	1855	1669	1406
57.5	1980	1997	2030	2052	2076	2072	2083	2101	1890	1569
60.0	2051	2072	2117	2154	2227	2253	2300	2370	2161	1756
62.5	2166	2191	2241	2290	2406	2454	2548	2682	2427	1917
65.0	2271	2299	2391	2498	2668	2700	2838	2968	2621	1984
67.5	2323	2360	2525	2708	3020	3051	3154	3155	2654	1820
70.0	2195	2236	2483	2884	3370	3388	3387	3140	2326	1378
72.5	1803	1844	2139	2704	3465	3547	3436	2742	1676	830
75.0	1154	1159	1510	2078	2905	3081	2962	1980	994	501
77.5	523	573	805	1282	1896	2115	1988	1254	619	335
80.0	245	281	468	721	1032	1151	1143	727	379	203
82.5	152	163	311	457	512	637	604	388	217	112
85.0	114	124	217	289	325	319	294	175	109	62
87.5	79	87	142	153	198	150	71	61	39	28
90.0	31	36	52	26	29	14	9	4	3	2
92.5	5	5	6	3	2	2	2	2	2	2
95.0	2	2	2	2	2	2	2	2	1	2
97.5	1	1	2	2	2	2	2	2	1	2
100.0	1	1	1	2	2	2	2	2	1	2
102.5	1	1	1	1	2	2	2	2	1	2
105.0	1	1	1	1	1	2	2	1	1	1
107.5	1	1	1	1	1	1	1	1	1	2
110.0	1	1	1	1	1	2	1	1	1	2
112.5	1	1	1	1	1	1	1	1	1	2
115.0	1	1	1	1	1	1	2	1	1	2
117.5	2	2	2	2	2	2	2	1	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	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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PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-50.IES

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	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	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	0	0	0	0	0	0	0	0	0	0

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	441	441	441	441	441	441	441	441	441	441
2.5	445	446	447	442	442	446	449	451	440	433
5.0	406	406	408	418	425	424	427	430	425	414
7.5	431	429	435	450	427	409	385	398	390	403
10.0	426	430	433	444	410	414	401	401	392	412
12.5	468	467	481	460	435	414	418	445	442	465
15.0	506	506	504	469	433	456	463	485	493	486
17.5	557	544	541	502	465	496	520	520	517	517
20.0	599	601	593	516	495	530	529	542	547	549
22.5	679	654	647	569	553	570	572	566	558	571
25.0	720	726	711	595	635	609	586	578	589	594
27.5	783	762	770	644	675	631	605	597	614	622
30.0	831	807	806	685	705	673	630	621	620	632
32.5	850	839	823	735	745	705	666	642	641	661
35.0	894	867	855	776	761	727	703	651	671	677
37.5	918	904	876	797	771	741	705	680	665	702
40.0	924	897	867	808	775	742	706	682	673	706
42.5	918	897	856	786	747	732	696	682	662	689
45.0	938	905	852	762	716	705	677	664	669	639
47.5	967	920	856	742	680	676	649	641	642	592
50.0	1016	944	871	724	642	642	618	628	600	550
52.5	1089	995	901	710	605	608	585	601	550	508
55.0	1188	1065	946	704	564	569	548	566	505	467
57.5	1302	1150	1000	705	517	532	516	522	460	417
60.0	1420	1230	1034	706	480	496	483	474	401	371
62.5	1487	1247	972	692	442	456	447	424	355	332
65.0	1435	1148	793	641	401	415	403	388	318	302
67.5	1193	897	544	534	357	372	365	358	287	283
70.0	781	562	363	400	308	324	333	327	261	267
72.5	406	299	245	291	253	279	296	293	234	235
75.0	261	187	160	204	197	224	250	244	170	162
77.5	168	118	108	144	148	176	194	153	120	126

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CANDELA TABULATION - (Cont.)

80.0	88	66	77	104	115	134	121	115	94	100
82.5	58	44	54	77	88	80	86	88	65	73
85.0	36	24	31	50	48	50	56	50	31	46
87.5	13	6	14	22	24	24	22	20	13	20
90.0	2	1	4	6	7	7	5	3	1	0
92.5	1	1	4	5	6	6	5	3	1	0
95.0	1	2	3	5	6	6	4	3	1	1
97.5	1	2	3	4	5	5	4	3	1	1
100.0	1	2	3	4	4	4	4	3	1	1
102.5	1	2	2	3	3	3	3	2	1	1
105.0	2	2	2	2	3	3	2	2	1	1
107.5	2	2	2	2	2	2	2	2	1	1
110.0	2	2	2	2	2	2	2	2	1	1
112.5	2	2	2	2	2	2	2	2	2	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	3	2	2	2	2	2
120.0	2	2	2	2	3	3	3	2	2	2
122.5	2	2	2	2	3	3	3	2	2	2
125.0	2	2	2	2	3	2	3	2	2	2
127.5	2	2	2	2	3	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2
132.5	2	2	2	3	2	2	2	2	1	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	2	2	2	1	1	1	0	0
140.0	1	1	1	1	1	1	0	0	0	0
142.5	1	1	1	1	1	1	0	0	0	0
145.0	1	1	1	1	1	1	0	0	0	0
147.5	1	1	1	1	1	1	0	0	0	0
150.0	1	1	1	1	1	0	0	0	0	0
152.5	1	1	1	1	1	0	0	0	0	0
155.0	1	1	1	1	1	0	0	0	0	0
157.5	1	1	1	1	1	0	0	0	0	0
160.0	1	1	1	1	1	0	0	0	0	0
162.5	1	1	1	1	1	0	0	0	0	0
165.0	1	1	1	1	1	0	0	0	0	0
167.5	1	1	1	1	1	0	0	0	0	0
170.0	1	1	1	1	1	0	0	0	0	0
172.5	1	1	1	1	1	0	0	0	0	0
175.0	1	1	1	1	1	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	175	180
0.0	441	441
2.5	427	425
5.0	409	415
7.5	400	399
10.0	423	424
12.5	473	479
15.0	506	517
17.5	534	543
20.0	564	570
22.5	569	601
25.0	610	631

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CANDELA TABULATION - (Cont.)

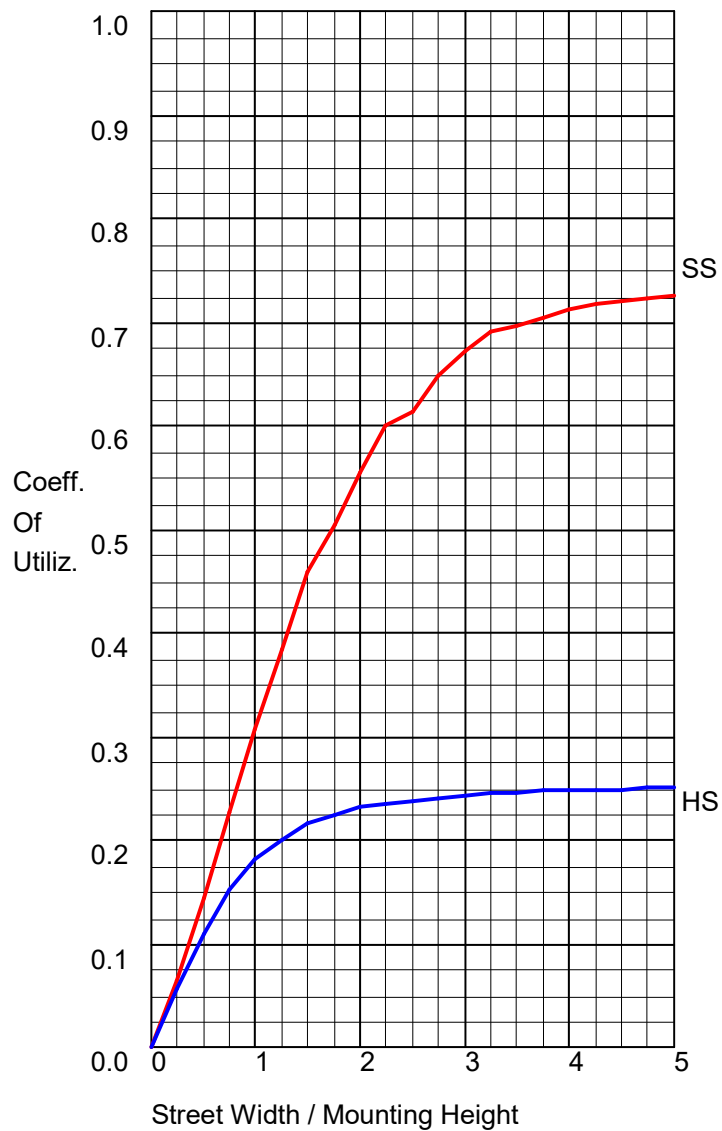
27.5	625	656
30.0	640	682
32.5	678	706
35.0	687	722
37.5	712	750
40.0	712	744
42.5	661	687
45.0	614	639
47.5	574	595
50.0	534	551
52.5	498	511
55.0	459	469
57.5	403	415
60.0	361	364
62.5	325	330
65.0	302	304
67.5	289	291
70.0	278	281
72.5	255	256
75.0	192	193
77.5	168	175
80.0	141	151
82.5	112	121
85.0	77	88
87.5	40	49
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
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	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	1	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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PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-50.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	0	0

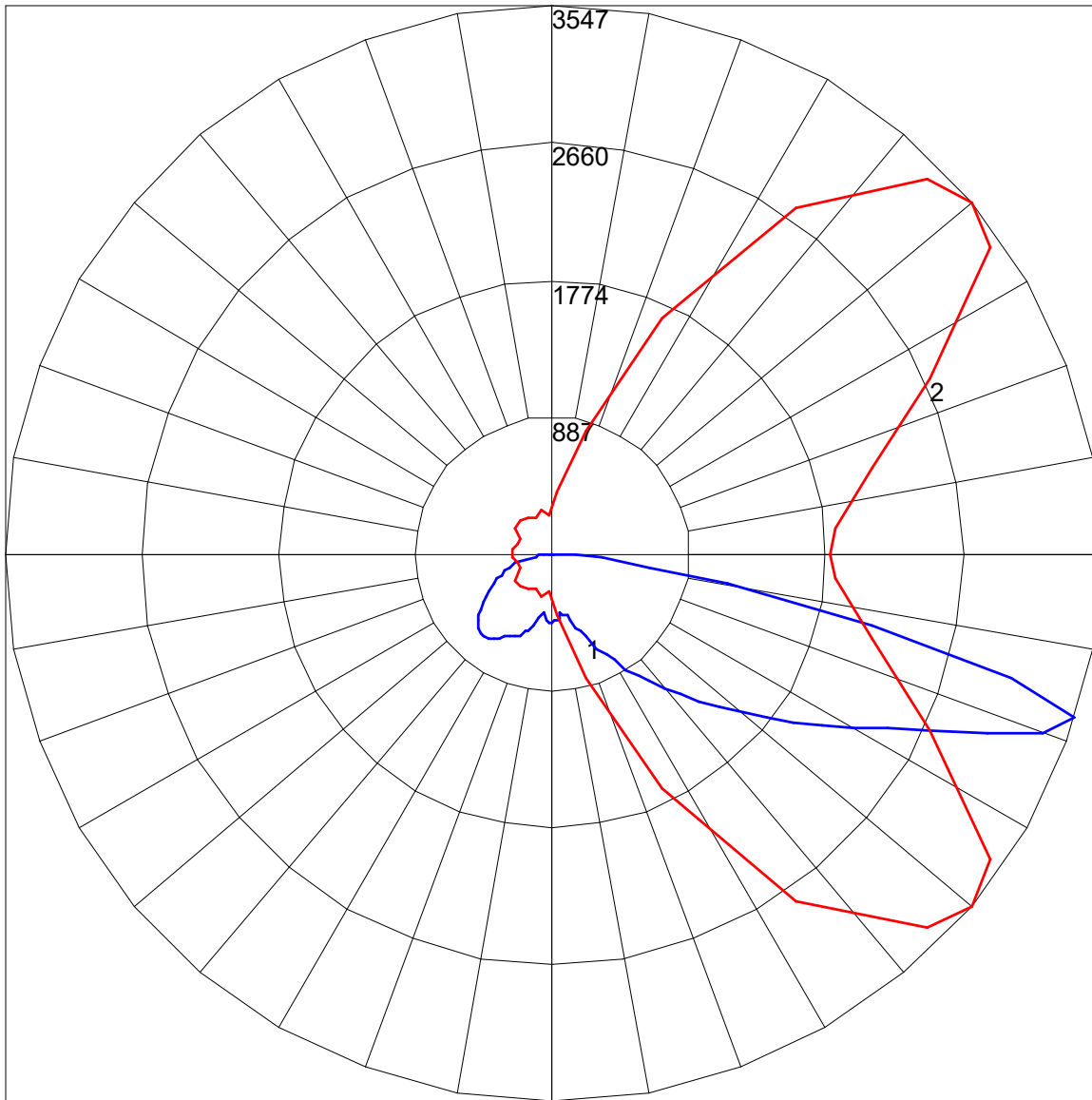
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

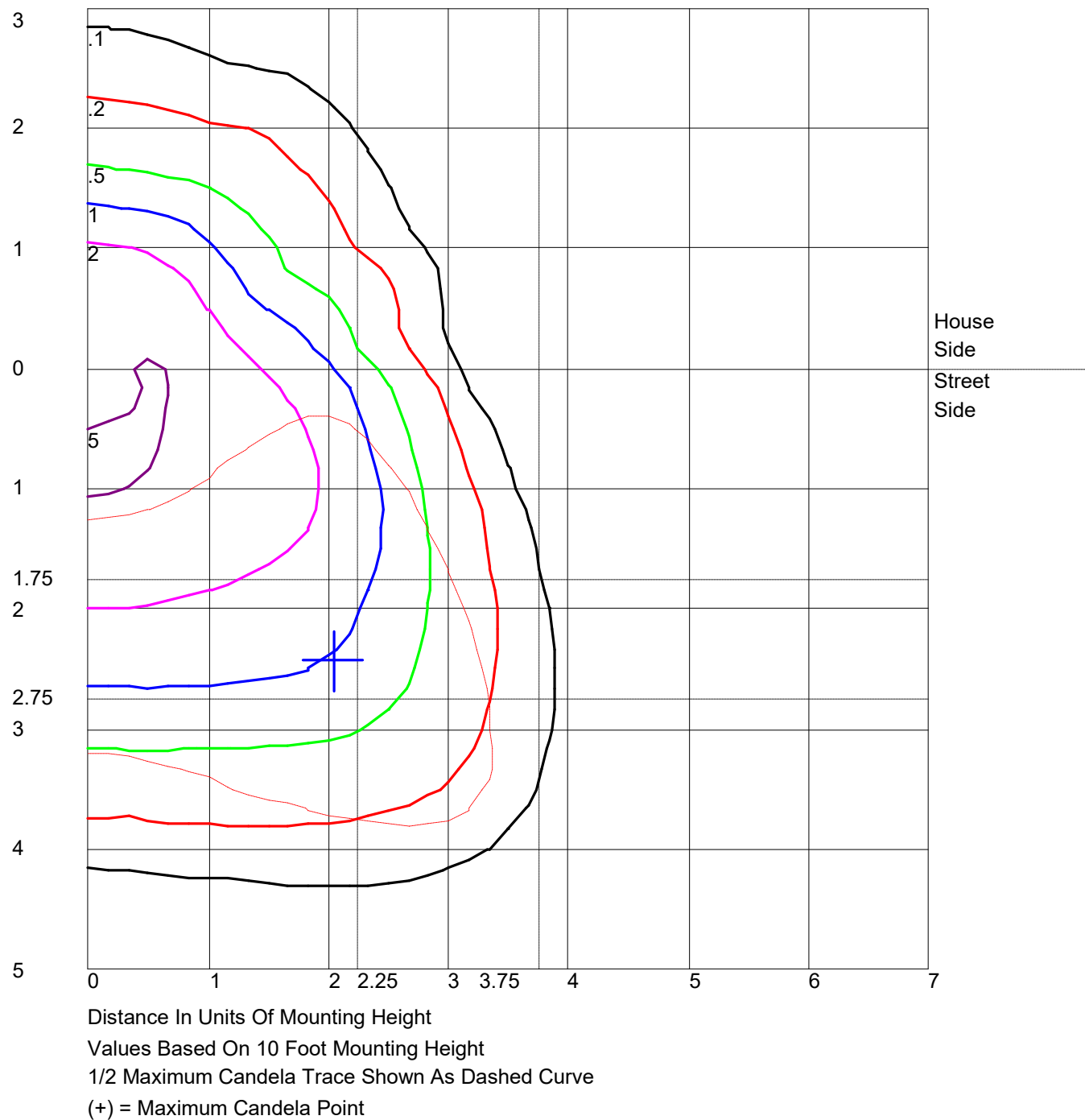
	Lumens	Percent Of Luminaire
Downward Street Side	3942.8	74.3
Downward House Side	1350.4	25.5
Downward Total	5293.2	99.8
Upward Street Side	5.8	0.1
Upward House Side	5.4	0.1
Upward Total	11.2	0.2
Total Flux	5304.4	100.0

POLAR GRAPH

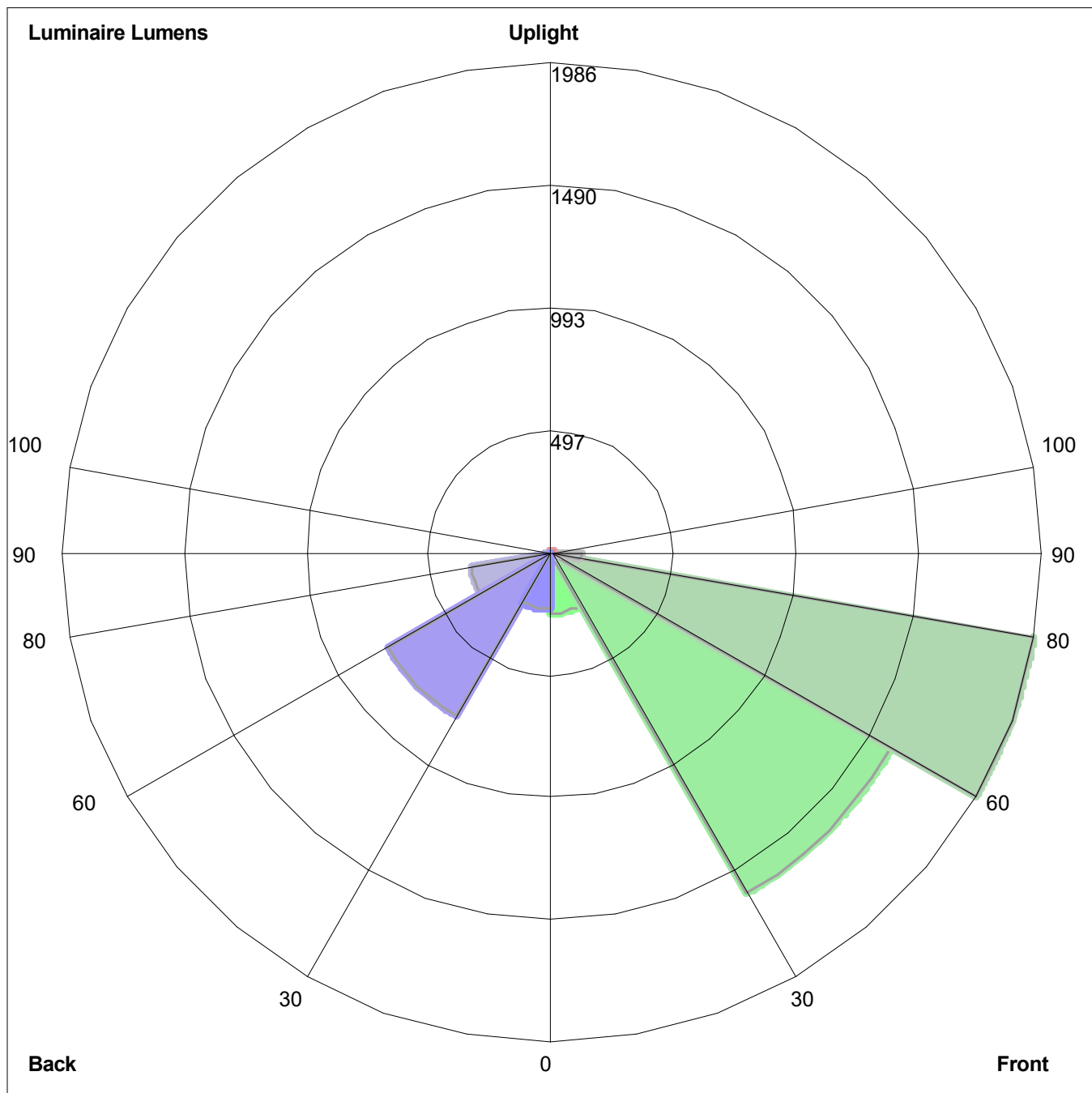


Maximum Candela = 3547 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=245.8, Medium=1591.7, High= 1986.0, Very High=119.2
Back: Low=230.7, Medium=762.6, High=328.7, Very High=28.4
Uplight: Low=3.9, High=7.4

BUG Rating : B1-U1-G2