



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11746
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/23/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-18L-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	13638
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13944
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	13944
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	15 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	551 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1052.7	N.A.	7.7
FM - Front-Medium (30-60)	7682.5	N.A.	56.3
FH - Front-High (60-80)	2522.6	N.A.	18.5
FVH - Front-Very High (80-90)	53.4	N.A.	0.4
BL - Back-Low (0-30)	570.9	N.A.	4.2
BM - Back-Medium (30-60)	1431.1	N.A.	10.5
BH - Back-High (60-80)	296.6	N.A.	2.2
BVH - Back-Very High (80-90)	9.8	N.A.	0.1
UL - Uplight-Low (90-100)	4.1	N.A.	0.0
UH - Uplight-High (100-180)	14.1	N.A.	0.1
Total	13637.8	N.A.	100.0
BUG Rating	B2-U2-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>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402
2.5	1427	1433	1430	1444	1442	1442	1449	1436	1416	1392
5.0	1428	1448	1480	1465	1509	1407	1414	1371	1336	1326
7.5	1456	1498	1520	1441	1475	1414	1434	1483	1449	1407
10.0	1548	1540	1605	1486	1527	1553	1569	1548	1506	1461
12.5	1674	1752	1692	1647	1686	1660	1682	1657	1647	1650
15.0	1804	1879	1847	1893	1934	1843	1868	1838	1866	1801
17.5	1928	1983	1964	2007	2060	2143	2049	2094	2131	2030
20.0	2189	2232	2221	2199	2263	2302	2361	2343	2386	2369
22.5	2360	2377	2430	2493	2524	2539	2738	2725	2811	2799
25.0	2696	2620	2694	2758	2832	2823	3096	3275	3295	3307
27.5	3080	3162	3194	3108	3135	3229	3495	3950	4113	4029
30.0	3588	3503	3481	3501	3547	3721	4016	4741	4914	4865
32.5	4238	4293	4024	3874	4021	4176	4700	5756	6024	5970
35.0	4908	4847	4625	4514	4467	4828	5394	6599	7171	7054
37.5	5608	5600	5287	5067	5181	5323	6056	7239	7697	7829
40.0	5923	5937	5838	5738	5766	5954	6580	7497	8071	8095
42.5	6049	6025	5988	6023	6301	6492	7199	7676	8198	8354
45.0	5905	5912	5914	6102	6543	7088	7879	8183	8618	8890
47.5	5468	5455	5566	5868	6445	7326	8566	9030	9259	9662
50.0	4837	4810	4951	5282	6009	7204	9268	9980	10013	10480
52.5	4024	4024	4179	4520	5308	6701	9667	11030	10964	11808
55.0	3129	3118	3278	3692	4439	5894	9708	11904	12111	13029
57.5	2238	2193	2378	2759	3451	4869	9199	12150	13018	13944
60.0	1526	1514	1662	1934	2474	3669	8084	11737	13307	13927
62.5	1073	1081	1166	1345	1673	2489	6617	10292	12600	12935
65.0	749	747	819	988	1204	1587	5008	8659	10889	10756
67.5	487	510	555	699	902	1073	3400	6486	8631	8250
70.0	308	317	333	463	655	773	2066	4430	6046	5323
72.5	228	236	236	293	455	557	1071	2769	3506	2666
75.0	158	164	163	190	306	403	596	1682	1717	1064
77.5	104	105	109	117	188	284	359	958	897	573
80.0	69	73	76	74	103	184	226	513	551	388
82.5	67	66	63	59	64	93	133	257	348	299
85.0	50	49	47	47	51	66	78	124	179	180
87.5	29	29	28	27	30	38	47	61	67	65
90.0	10	10	8	7	7	7	4	7	9	7
92.5	4	4	4	4	2	0	0	0	1	1
95.0	3	2	3	3	1	0	0	0	0	0
97.5	3	2	3	3	1	0	0	0	0	0
100.0	2	2	3	3	1	0	0	0	0	0
102.5	3	2	3	3	1	0	0	0	0	0
105.0	3	2	3	3	1	0	0	0	0	0
107.5	3	3	3	3	1	0	0	0	0	0
110.0	4	3	4	4	1	0	0	0	0	0
112.5	4	4	4	4	2	1	0	0	0	0
115.0	4	4	4	4	2	1	0	0	1	1
117.5	5	5	4	4	3	1	0	0	1	1
120.0	7	6	5	4	3	1	0	1	1	1
122.5	7	7	6	5	4	2	0	1	2	2
125.0	8	7	7	5	4	2	1	1	3	3
127.5	9	8	7	6	4	3	1	2	3	4
130.0	9	9	8	6	4	3	1	2	4	4

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CANDELA TABULATION - (Cont.)

132.5	9	9	8	7	4	3	1	2	4	4
135.0	9	8	7	5	4	3	1	2	3	4
137.5	4	4	4	3	2	1	0	0	1	1
140.0	1	1	1	1	0	0	0	0	0	0
142.5	1	1	1	1	0	0	0	0	0	0
145.0	1	1	1	1	0	0	0	0	0	0
147.5	1	1	1	1	0	0	0	0	0	0
150.0	1	1	1	1	0	0	0	0	0	0
152.5	1	1	1	1	0	0	0	0	0	0
155.0	1	1	1	1	0	0	0	0	0	0
157.5	1	1	1	1	0	0	0	0	0	0
160.0	1	1	1	1	0	0	0	0	0	0
162.5	1	1	1	0	0	0	0	0	0	0
165.0	1	1	1	0	0	0	0	0	0	0
167.5	1	1	1	1	0	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
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	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402
2.5	1398	1394	1401	1394	1376	1386	1392	1394	1382	1371
5.0	1342	1331	1306	1293	1303	1300	1276	1288	1266	1229
7.5	1385	1389	1360	1369	1301	1236	1137	1152	1136	1169
10.0	1439	1407	1363	1387	1228	1197	1145	1111	1055	1097
12.5	1562	1539	1506	1431	1282	1199	1133	1163	1167	1228
15.0	1727	1681	1581	1457	1262	1227	1232	1295	1325	1306
17.5	1947	1833	1740	1546	1308	1308	1381	1415	1411	1402
20.0	2212	2120	1966	1634	1386	1441	1452	1473	1382	1259
22.5	2662	2413	2259	1846	1521	1550	1516	1337	1089	910
25.0	3137	2946	2645	2000	1758	1655	1376	981	704	544
27.5	3792	3446	3121	2256	1945	1622	1072	646	434	367
30.0	4602	4150	3639	2526	2099	1442	762	434	356	324
32.5	5475	4908	4197	2789	2181	1187	515	370	318	299
35.0	6484	5753	4843	3083	2112	889	432	334	299	283
37.5	7259	6599	5382	3307	1909	604	390	312	273	254
40.0	7608	6974	5643	3492	1610	481	353	288	242	221
42.5	7994	7377	5849	3501	1128	427	321	257	207	180
45.0	8540	7832	6146	3406	713	380	287	221	170	144
47.5	9328	8451	6433	3110	520	338	244	181	135	112
50.0	10189	9036	6668	2594	445	300	203	141	108	87
52.5	11243	9551	6758	1928	404	260	162	108	83	66
55.0	12356	9673	6619	1300	372	218	127	82	64	46
57.5	12790	9286	6076	917	344	177	94	59	46	29
60.0	12374	8435	5229	747	331	144	69	40	27	14
62.5	10927	7125	4209	619	316	113	49	21	14	7
65.0	8863	5466	3058	473	275	88	33	10	10	5
67.5	6327	3810	1866	334	209	65	20	8	9	5
70.0	3637	2277	1028	236	140	43	17	9	8	5
72.5	1640	1123	578	174	89	27	17	12	8	4
75.0	685	583	358	126	51	22	19	13	7	4
77.5	422	400	231	82	33	22	20	14	7	4

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CANDELA TABULATION - (Cont.)

80.0	335	281	149	45	25	22	20	15	7	4
82.5	239	171	88	22	20	20	20	15	7	5
85.0	138	87	42	11	14	19	19	14	7	5
87.5	48	22	7	6	11	17	16	12	7	4
90.0	2	2	3	5	10	15	15	10	6	4
92.5	0	1	3	5	9	14	13	9	5	4
95.0	0	1	2	4	7	11	9	7	4	4
97.5	0	1	2	4	6	7	6	5	4	4
100.0	0	1	2	4	5	5	5	4	4	4
102.5	0	1	2	4	4	4	4	4	3	4
105.0	0	1	2	3	4	4	4	4	3	4
107.5	0	1	2	4	4	4	4	4	3	3
110.0	1	1	2	4	4	4	4	4	3	4
112.5	1	1	2	4	4	4	4	4	4	4
115.0	1	2	3	4	4	4	4	4	4	4
117.5	2	2	3	4	4	4	4	4	4	4
120.0	3	3	4	4	4	4	4	4	4	4
122.5	3	4	4	4	5	5	5	5	5	5
125.0	4	4	4	4	5	5	5	5	5	5
127.5	4	4	4	5	5	5	5	6	6	6
130.0	4	4	5	5	5	5	5	6	6	6
132.5	4	4	5	5	5	5	5	6	6	6
135.0	4	4	4	5	5	5	5	6	6	6
137.5	1	2	3	3	4	4	4	5	5	5
140.0	0	0	1	1	2	3	4	4	4	4
142.5	0	0	0	1	2	3	3	4	4	4
145.0	0	0	0	1	2	3	3	4	4	4
147.5	0	0	0	1	2	3	4	4	4	4
150.0	0	0	0	1	2	3	4	4	4	4
152.5	0	0	0	1	2	3	4	4	4	4
155.0	0	0	0	1	2	3	4	4	4	4
157.5	0	0	0	1	2	3	4	4	4	4
160.0	0	0	0	1	1	2	3	4	4	3
162.5	0	0	0	1	1	2	3	4	4	3
165.0	0	0	0	0	1	1	2	3	3	3
167.5	0	0	0	0	1	1	2	3	3	2
170.0	0	0	0	0	1	1	1	3	3	2
172.5	0	0	0	0	0	1	1	2	2	2
175.0	0	0	0	0	0	1	1	2	2	2
177.5	0	0	0	0	0	1	1	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1402	1402
2.5	1355	1332
5.0	1221	1206
7.5	1154	1127
10.0	1128	1094
12.5	1259	1220
15.0	1401	1374
17.5	1465	1420
20.0	1244	1181
22.5	830	817
25.0	478	466

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CANDELA TABULATION - (Cont.)

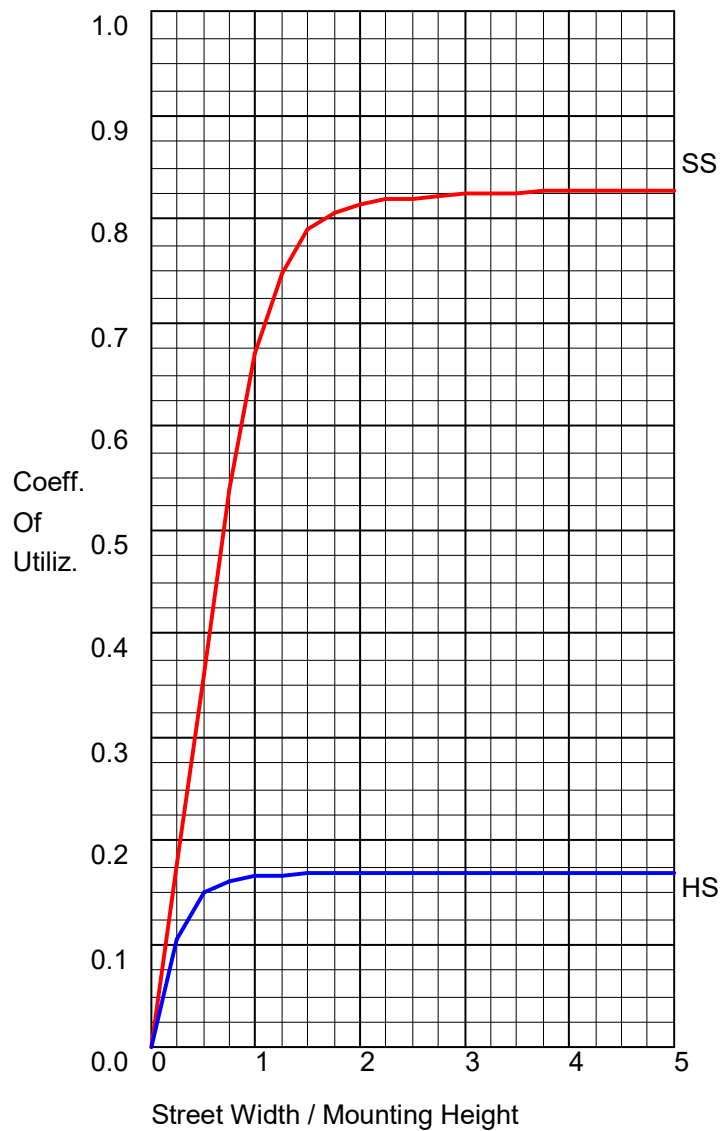
27.5	356	353
30.0	319	318
32.5	302	302
35.0	279	280
37.5	251	253
40.0	212	212
42.5	171	168
45.0	135	133
47.5	105	103
50.0	80	79
52.5	58	57
55.0	39	39
57.5	21	20
60.0	9	9
62.5	4	4
65.0	2	2
67.5	3	3
70.0	3	3
72.5	2	1
75.0	1	1
77.5	2	1
80.0	2	2
82.5	2	2
85.0	2	2
87.5	2	2
90.0	2	2
92.5	2	2
95.0	2	1
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	2	1
112.5	2	2
115.0	2	2
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	5
127.5	6	6
130.0	6	7
132.5	6	7
135.0	6	6
137.5	4	4
140.0	3	3
142.5	3	3
145.0	2	3
147.5	2	3
150.0	2	3
152.5	3	3
155.0	2	3
157.5	2	2
160.0	1	1
162.5	1	1
165.0	1	0

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CANDELA TABULATION - (Cont.)

167.5	1	0
170.0	1	0
172.5	1	0
175.0	1	0
177.5	1	0
180.0	1	1

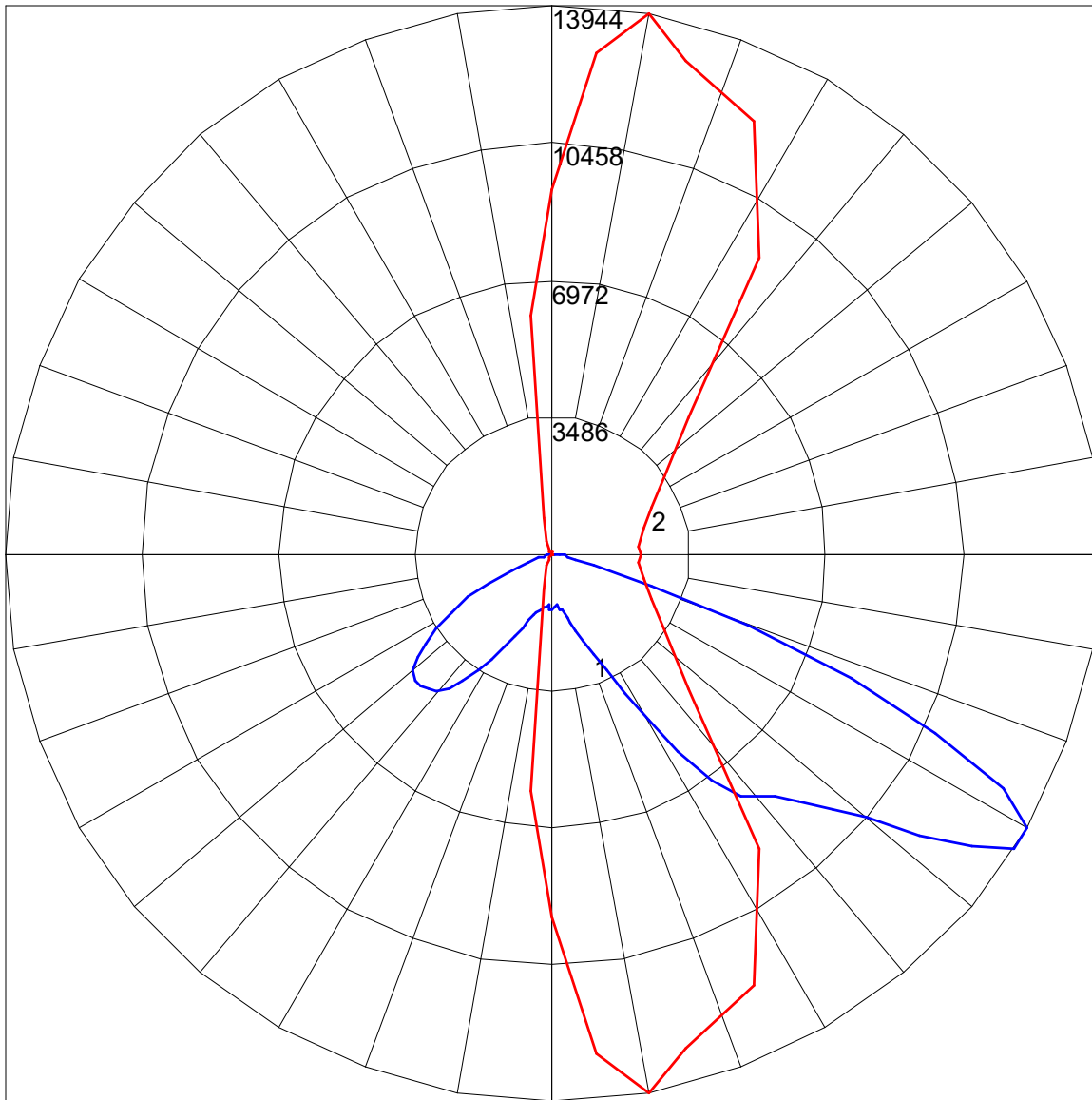
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

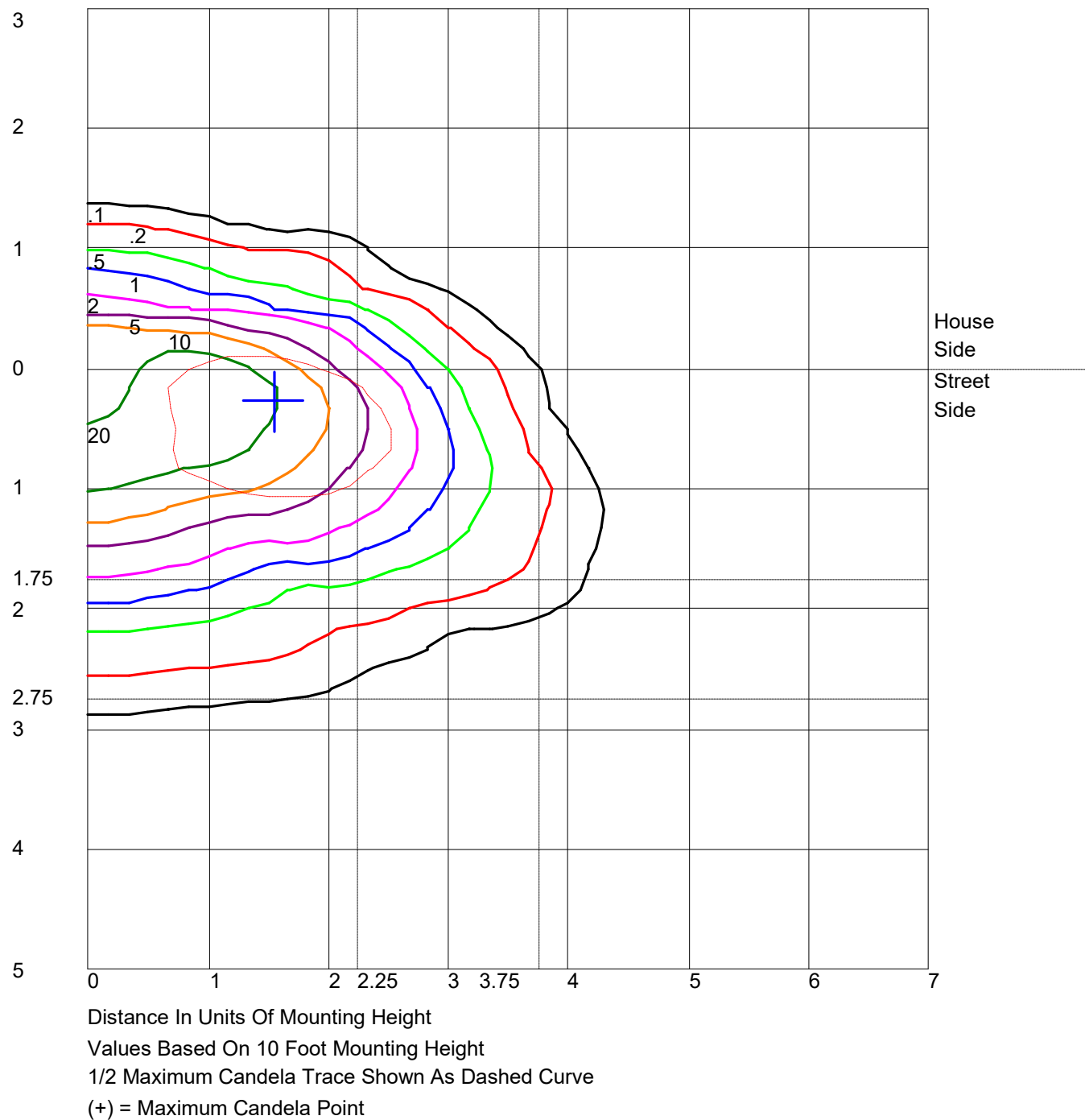
	Lumens	Percent Of Luminaire
Downward Street Side	11311.3	82.9
Downward House Side	2308.4	16.9
Downward Total	13619.7	99.9
Upward Street Side	5.8	0.0
Upward House Side	12.4	0.1
Upward Total	18.2	0.1
Total Flux	13637.9	100.0

POLAR GRAPH

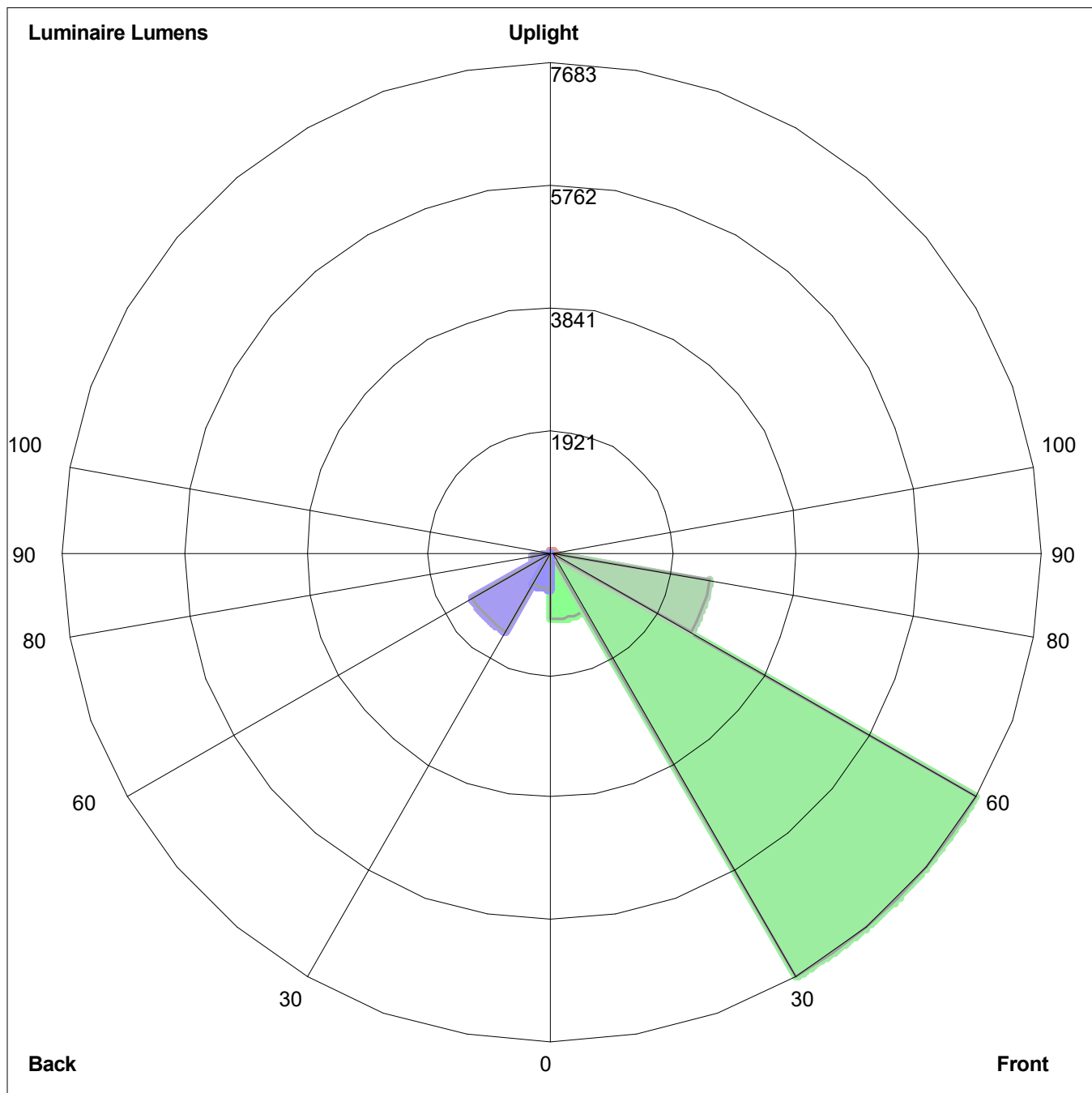


Maximum Candela = 13944 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1052.7, Medium=7682.5, High=2522.6, Very High=53.4
Back: Low=570.9, Medium=1431.1, High=296.6, Very High=9.8
Uplight: Low=4.1, High=14.1

BUG Rating : B2-U2-G2