



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11761
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/27/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3799
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2677
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	2677
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	11 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	337 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	212.5	N.A.	5.6
FM - Front-Medium (30-60)	1728.3	N.A.	45.5
FH - Front-High (60-80)	1253.9	N.A.	33.0
FVH - Front-Very High (80-90)	45.6	N.A.	1.2
BL - Back-Low (0-30)	144.5	N.A.	3.8
BM - Back-Medium (30-60)	340.5	N.A.	9.0
BH - Back-High (60-80)	59.5	N.A.	1.6
BVH - Back-Very High (80-90)	3.1	N.A.	0.1
UL - Uplight-Low (90-100)	2.8	N.A.	0.1
UH - Uplight-High (100-180)	8.5	N.A.	0.2
Total	3799.2	N.A.	100.0
BUG Rating	B1-U1-G1		

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

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	377	377	377	377	377	377	377	377	377	377
2.5	369	372	374	372	375	374	379	379	376	375
5.0	345	344	353	361	362	357	360	350	348	344
7.5	327	334	343	336	323	328	325	344	363	363
10.0	325	329	328	320	324	331	340	349	354	364
12.5	353	345	343	330	337	341	345	354	375	382
15.0	373	365	369	370	373	367	365	377	394	406
17.5	398	391	389	398	409	405	413	407	416	438
20.0	441	441	445	446	443	447	455	456	450	476
22.5	486	494	506	524	511	506	512	514	499	529
25.0	562	559	568	586	616	612	593	598	576	576
27.5	687	671	682	678	695	711	707	690	663	638
30.0	779	792	793	805	797	811	815	810	749	706
32.5	981	958	928	924	934	939	934	932	851	787
35.0	1087	1098	1069	1078	1061	1078	1059	1056	966	863
37.5	1258	1252	1206	1213	1222	1223	1190	1185	1084	968
40.0	1366	1362	1372	1361	1365	1360	1351	1305	1217	1054
42.5	1447	1451	1458	1476	1503	1485	1476	1450	1344	1131
45.0	1525	1543	1547	1573	1638	1620	1629	1567	1462	1214
47.5	1619	1641	1654	1685	1757	1750	1770	1695	1576	1311
50.0	1722	1741	1762	1815	1888	1902	1922	1850	1720	1406
52.5	1796	1815	1853	1922	2035	2098	2075	2011	1835	1467
55.0	1860	1876	1929	2026	2199	2252	2240	2161	1919	1512
57.5	1928	1946	2011	2134	2341	2385	2380	2274	1970	1513
60.0	1979	1996	2084	2248	2458	2523	2515	2345	1966	1459
62.5	1991	2008	2141	2361	2564	2628	2600	2343	1906	1354
65.0	1829	1862	2051	2362	2620	2677	2644	2266	1755	1176
67.5	1542	1562	1789	2158	2506	2580	2510	2095	1525	956
70.0	847	922	1225	1748	2155	2271	2204	1794	1219	674
72.5	369	400	563	970	1538	1715	1758	1361	847	422
75.0	278	295	379	530	776	889	1000	888	521	280
77.5	223	237	315	417	484	493	505	498	333	199
80.0	178	193	264	327	337	320	299	245	211	133
82.5	133	145	190	214	176	163	136	103	103	87
85.0	74	77	97	96	70	66	55	46	48	49
87.5	25	28	33	31	22	20	16	15	15	19
90.0	9	9	11	9	7	5	4	3	2	2
92.5	4	4	3	2	2	2	2	2	2	2
95.0	1	1	1	1	2	2	2	2	2	2
97.5	1	1	1	1	1	2	2	2	2	2
100.0	1	1	1	1	1	2	2	2	2	2
102.5	1	1	1	1	1	1	2	2	2	2
105.0	1	1	1	1	1	1	2	1	1	2
107.5	1	1	1	1	1	1	2	2	2	2
110.0	1	1	1	1	1	2	2	2	2	2
112.5	1	1	1	1	2	2	2	2	2	2
115.0	1	1	1	1	2	2	2	2	2	2
117.5	1	1	1	1	2	2	2	2	2	2
120.0	2	2	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

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-40-IL.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	2	2	2	2	2	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	0	1	1	1	1	1	1	1
147.5	0	0	0	1	1	1	1	1	1	1
150.0	0	0	0	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	0	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</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	377	377	377	377	377	377	377	377	377	377
2.5	378	379	375	375	375	377	379	380	374	368
5.0	351	352	350	356	359	363	367	369	366	354
7.5	360	367	366	377	365	347	333	340	341	352
10.0	367	362	365	369	354	351	343	340	326	341
12.5	379	385	393	390	369	346	345	357	345	347
15.0	417	413	414	396	370	376	371	348	322	295
17.5	436	440	436	426	390	390	368	312	259	228
20.0	488	479	478	433	406	396	323	259	219	207
22.5	531	525	524	477	431	375	280	229	210	205
25.0	587	579	569	509	453	344	249	221	213	214
27.5	638	626	609	557	466	310	244	224	230	237
30.0	681	680	647	578	448	304	249	234	250	262
32.5	742	712	673	586	431	304	258	247	271	303
35.0	791	773	709	591	404	310	264	256	297	338
37.5	863	826	758	578	387	311	265	265	313	355
40.0	910	848	772	564	376	309	261	263	315	323
42.5	952	871	779	543	359	302	250	245	277	243
45.0	1005	896	793	519	342	288	230	205	202	172
47.5	1050	920	804	495	322	263	196	159	139	120
50.0	1086	928	800	475	293	227	159	120	97	88
52.5	1110	933	787	460	256	176	118	87	70	66
55.0	1120	927	765	437	207	124	81	61	51	50
57.5	1093	899	730	399	155	83	56	43	37	37
60.0	1022	840	673	337	107	62	43	32	26	26
62.5	917	740	581	270	77	50	34	24	18	18
65.0	781	602	455	200	62	41	27	18	13	13
67.5	583	446	297	124	50	33	21	14	10	9
70.0	382	291	174	72	37	25	17	12	8	7
72.5	223	167	107	47	25	18	13	9	6	4
75.0	159	114	73	33	18	13	10	7	3	2
77.5	112	79	50	24	14	11	8	4	2	1

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

CANDELA TABULATION - (Cont.)

80.0	69	50	35	18	11	9	6	3	1	1
82.5	46	34	24	13	9	8	6	3	1	1
85.0	31	21	14	8	7	7	5	3	1	1
87.5	14	9	6	5	5	5	4	2	1	1
90.0	3	2	3	5	5	5	4	2	1	1
92.5	2	2	3	5	6	5	4	2	1	1
95.0	2	2	3	5	5	5	4	3	1	1
97.5	2	1	3	4	4	4	3	3	1	1
100.0	2	2	2	3	4	4	3	2	2	1
102.5	2	2	2	2	3	3	3	2	2	1
105.0	2	2	2	2	2	3	2	2	2	1
107.5	2	2	2	2	2	2	2	2	2	1
110.0	2	2	2	2	2	2	2	2	2	1
112.5	2	2	2	2	2	2	2	2	2	2
115.0	2	2	2	2	2	2	2	2	2	2
117.5	2	2	2	2	3	3	3	2	2	2
120.0	2	2	2	2	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	3	2
127.5	2	2	3	3	3	3	3	3	3	2
130.0	2	3	2	3	3	3	3	3	3	2
132.5	2	3	3	3	3	3	3	3	3	2
135.0	2	2	2	3	2	2	2	2	2	2
137.5	2	2	2	2	2	2	2	2	1	1
140.0	1	2	2	2	2	2	1	1	1	1
142.5	1	1	1	2	2	1	1	1	1	0
145.0	1	1	1	1	1	1	1	1	1	0
147.5	1	1	1	1	1	1	1	1	1	0
150.0	1	1	1	1	1	1	1	1	1	0
152.5	1	1	1	1	1	1	1	1	1	0
155.0	1	1	1	1	1	1	1	1	0	0
157.5	1	1	1	1	1	1	1	1	0	0
160.0	1	1	1	1	1	1	1	1	0	0
162.5	1	1	1	1	1	1	1	0	0	0
165.0	1	1	1	1	1	1	1	0	0	0
167.5	1	1	1	1	1	1	1	0	0	0
170.0	1	1	1	1	1	1	1	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

	175	180
0.0	<u>377</u>	<u>377</u>
2.5	369	372
5.0	351	355
7.5	348	345
10.0	351	343
12.5	346	341
15.0	296	295
17.5	225	224
20.0	210	210
22.5	210	214
25.0	226	233

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

CANDELA TABULATION - (Cont.)

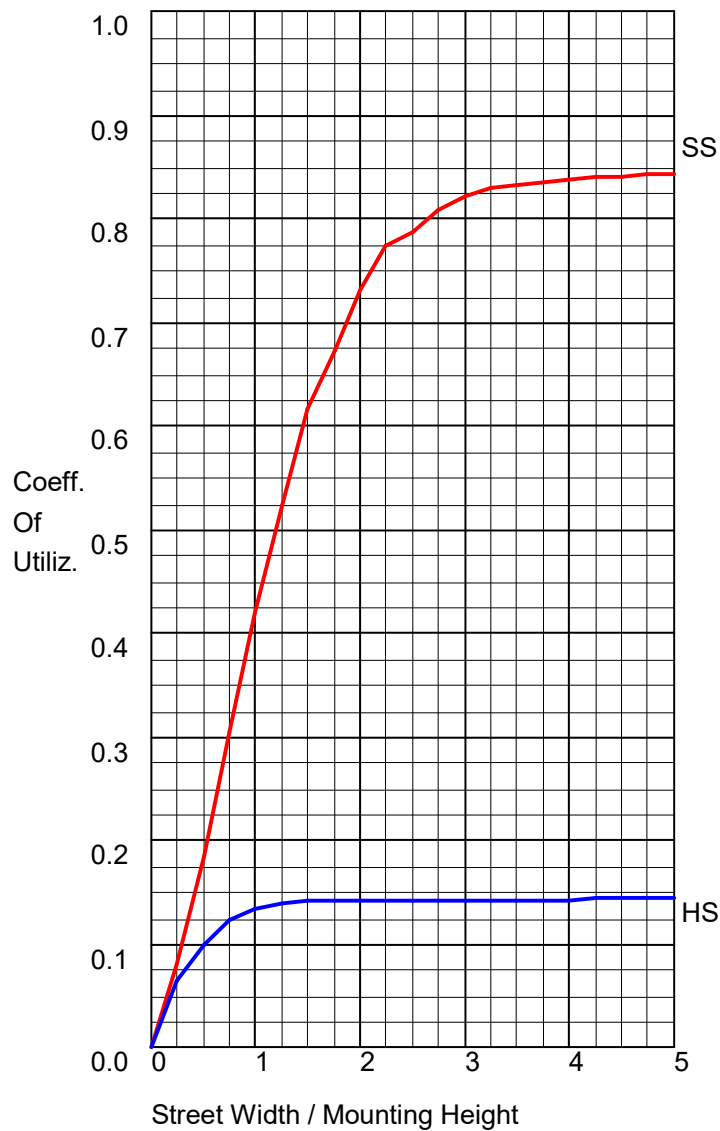
27.5	250	262
30.0	283	286
32.5	332	334
35.0	353	357
37.5	348	344
40.0	287	281
42.5	213	210
45.0	160	159
47.5	121	122
50.0	93	92
52.5	72	71
55.0	55	55
57.5	42	42
60.0	32	32
62.5	24	25
65.0	18	18
67.5	13	13
70.0	9	10
72.5	5	5
75.0	2	2
77.5	0	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	1
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	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
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

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-40-IL.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	1	1

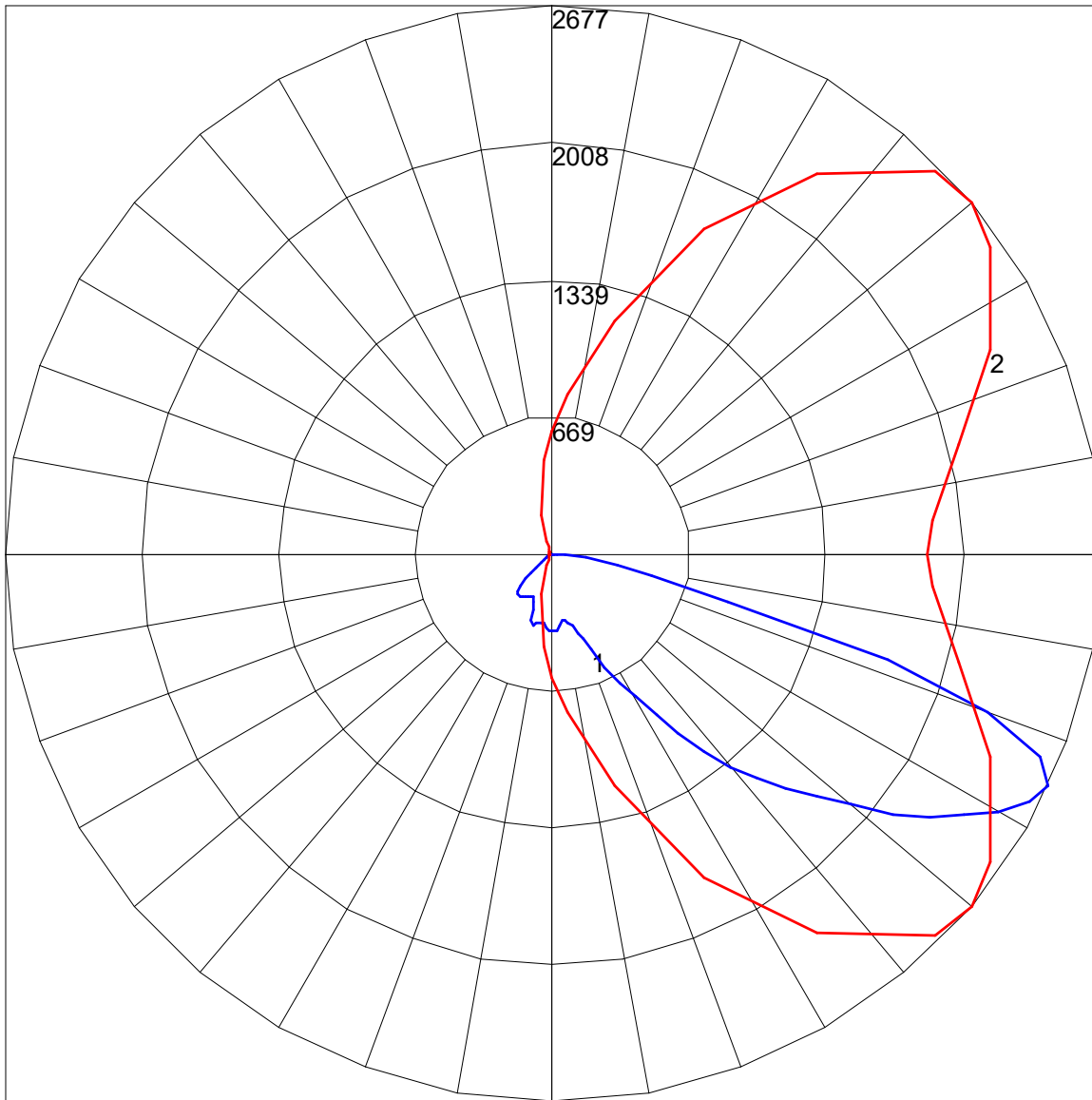
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

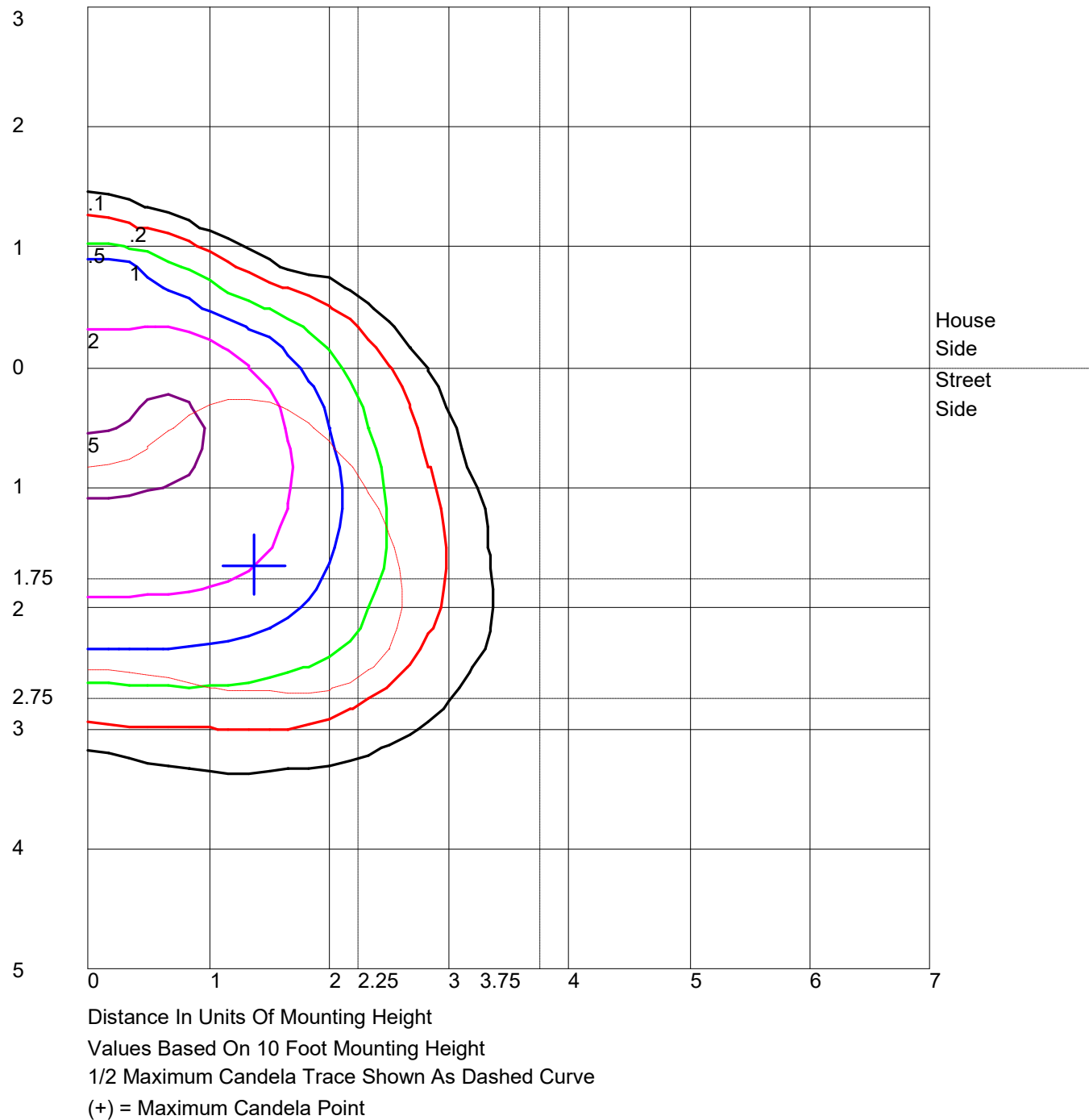
	Lumens	Percent Of Luminaire
Downward Street Side	3240.2	85.3
Downward House Side	547.6	14.4
Downward Total	3787.8	99.7
Upward Street Side	5.1	0.1
Upward House Side	6.2	0.2
Upward Total	11.3	0.3
Total Flux	3799.1	100.0

POLAR GRAPH

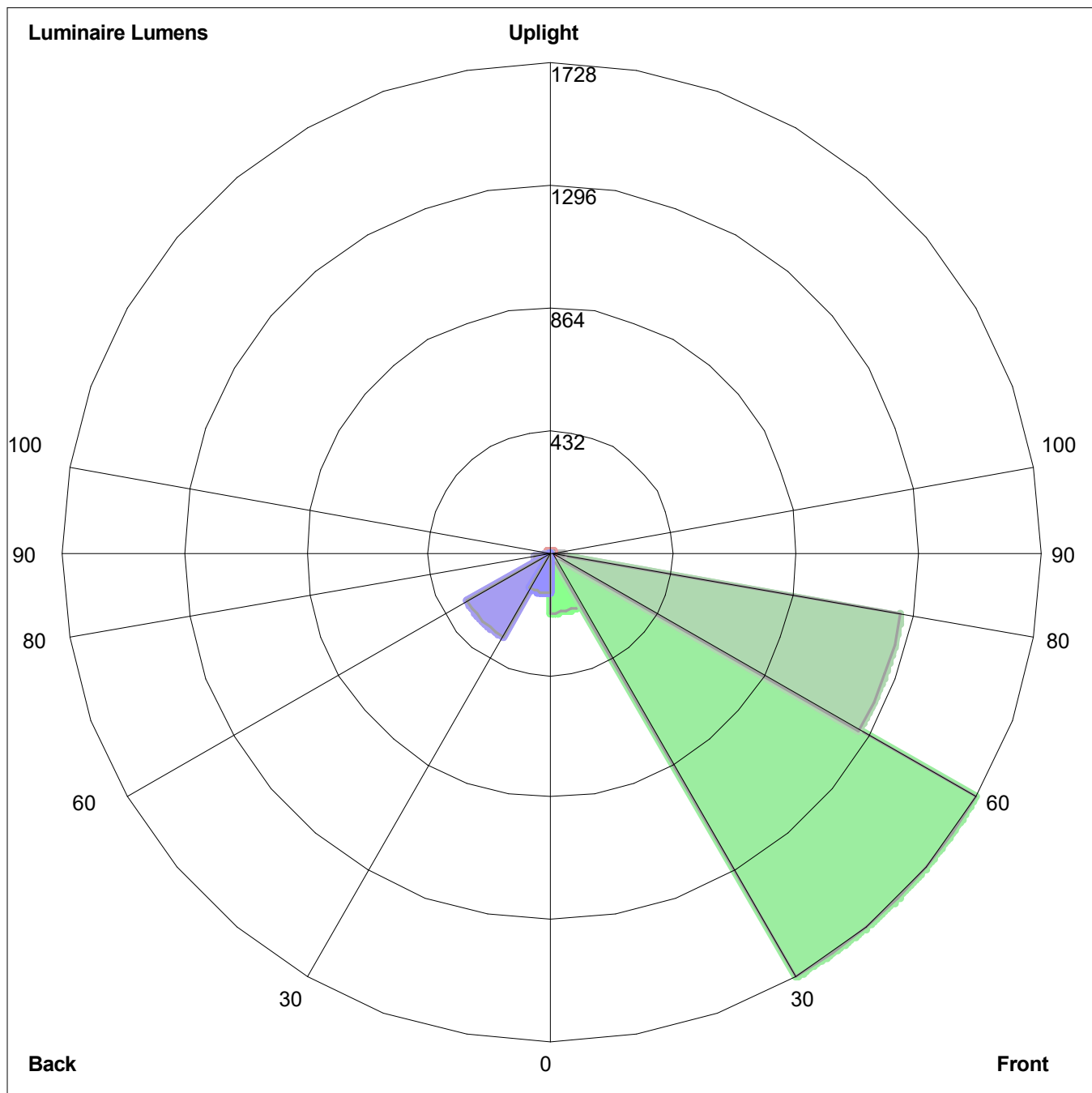


Maximum Candela = 2677 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=212.5, Medium=1728.3, High=1253.9, Very High=45.6
Back: Low=144.5, Medium=340.5, High=59.5, Very High=3.1
Uplight: Low=2.8, High=8.5

BUG Rating : B1-U1-G1