



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-30-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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-FT-LED-05L-30-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	3440
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2423
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	2423
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	10 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	305 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	192.3	N.A.	5.6
FM - Front-Medium (30-60)	1564.4	N.A.	45.5
FH - Front-High (60-80)	1135.0	N.A.	33.0
FVH - Front-Very High (80-90)	41.3	N.A.	1.2
BL - Back-Low (0-30)	130.8	N.A.	3.8
BM - Back-Medium (30-60)	308.2	N.A.	9.0
BH - Back-High (60-80)	53.9	N.A.	1.6
BVH - Back-Very High (80-90)	2.8	N.A.	0.1
UL - Uplight-Low (90-100)	2.7	N.A.	0.1
UH - Uplight-High (100-180)	8.5	N.A.	0.2
Total	3439.9	N.A.	100.0
BUG Rating	B1-U1-G1		

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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	341	341	341	341	341	341	341	341	341	341
2.5	334	337	339	337	339	339	343	343	340	339
5.0	312	311	320	327	328	323	326	317	315	311
7.5	296	302	310	304	292	297	294	311	329	329
10.0	294	298	297	290	293	300	308	316	320	329
12.5	320	312	310	299	305	309	312	320	339	346
15.0	338	330	334	335	338	332	330	341	357	368
17.5	360	354	352	360	370	367	374	368	377	396
20.0	399	399	403	404	401	405	412	413	407	431
22.5	440	447	458	474	463	458	463	465	452	479
25.0	509	506	514	530	558	554	537	541	521	521
27.5	622	607	617	614	629	644	640	625	600	578
30.0	705	717	718	729	721	734	738	733	678	639
32.5	888	867	840	836	845	850	845	844	770	712
35.0	984	994	968	976	960	976	959	956	874	781
37.5	1139	1133	1092	1098	1106	1107	1077	1073	981	876
40.0	1237	1233	1242	1232	1236	1231	1223	1181	1102	954
42.5	1310	1313	1320	1336	1361	1344	1336	1313	1217	1024
45.0	1380	1397	1400	1424	1483	1466	1475	1418	1323	1099
47.5	1466	1485	1497	1525	1590	1584	1602	1534	1427	1187
50.0	1559	1576	1595	1643	1709	1722	1740	1675	1557	1273
52.5	1626	1643	1677	1740	1842	1899	1878	1820	1661	1328
55.0	1684	1698	1746	1834	1991	2039	2028	1956	1737	1369
57.5	1745	1762	1820	1932	2119	2159	2154	2058	1783	1370
60.0	1791	1807	1886	2035	2225	2284	2277	2123	1780	1321
62.5	1802	1818	1938	2137	2321	2379	2354	2121	1725	1226
65.0	1656	1685	1857	2138	2372	2423	2393	2051	1589	1065
67.5	1396	1414	1619	1953	2268	2335	2272	1896	1380	865
70.0	767	835	1109	1582	1951	2056	1995	1624	1103	610
72.5	334	362	510	878	1392	1552	1591	1232	767	382
75.0	252	267	343	480	702	805	905	804	472	253
77.5	202	215	285	377	438	446	457	451	301	180
80.0	161	175	239	296	305	290	271	222	191	120
82.5	120	131	172	194	159	148	123	93	93	79
85.0	67	70	88	87	63	60	50	42	43	44
87.5	23	25	30	28	20	18	14	14	14	17
90.0	8	8	10	8	6	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

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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	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	341	341	341	341	341	341	341	341	341	341
2.5	342	343	339	339	339	341	343	344	339	333
5.0	318	319	317	322	325	329	332	334	331	320
7.5	326	332	331	341	330	314	301	308	309	319
10.0	332	328	330	334	320	318	310	308	295	309
12.5	343	349	356	353	334	313	312	323	312	314
15.0	377	374	375	358	335	340	336	315	291	267
17.5	395	398	395	386	353	353	333	282	234	206
20.0	442	434	433	392	368	358	292	234	198	187
22.5	481	475	474	432	390	339	253	207	190	186
25.0	531	524	515	461	410	311	225	200	193	194
27.5	578	567	551	504	422	281	221	203	208	215
30.0	616	616	586	523	406	275	225	212	226	237
32.5	672	645	609	530	390	275	234	224	245	274
35.0	716	700	642	535	366	281	239	232	269	306
37.5	781	748	686	523	350	282	240	240	283	321
40.0	824	768	699	511	340	280	236	238	285	292
42.5	862	788	705	492	325	273	226	222	251	220
45.0	910	811	718	470	310	261	208	186	183	156
47.5	950	833	728	448	291	238	177	144	126	109
50.0	983	840	724	430	265	205	144	109	88	80
52.5	1005	845	712	416	232	159	107	79	63	60
55.0	1014	839	692	396	187	112	73	55	46	45
57.5	989	814	661	361	140	75	51	39	33	33
60.0	925	760	609	305	97	56	39	29	24	24
62.5	830	670	526	244	70	45	31	22	16	16
65.0	707	545	412	181	56	37	24	16	12	12
67.5	528	404	269	112	45	30	19	13	9	8
70.0	346	263	158	65	33	23	15	11	7	6
72.5	202	151	97	43	23	16	12	8	5	4
75.0	144	103	66	30	16	12	9	6	3	2
77.5	101	72	45	22	13	10	7	4	2	1

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CANDELA TABULATION - (Cont.)

80.0	62	45	32	16	10	8	5	3	1	1
82.5	42	31	22	12	8	7	5	3	1	1
85.0	28	19	13	7	6	6	5	3	1	1
87.5	13	8	5	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	5	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

	<u>175</u>	<u>180</u>
0.0	341	341
2.5	334	337
5.0	318	321
7.5	315	312
10.0	318	310
12.5	313	309
15.0	268	267
17.5	204	203
20.0	190	190
22.5	190	194
25.0	205	211

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

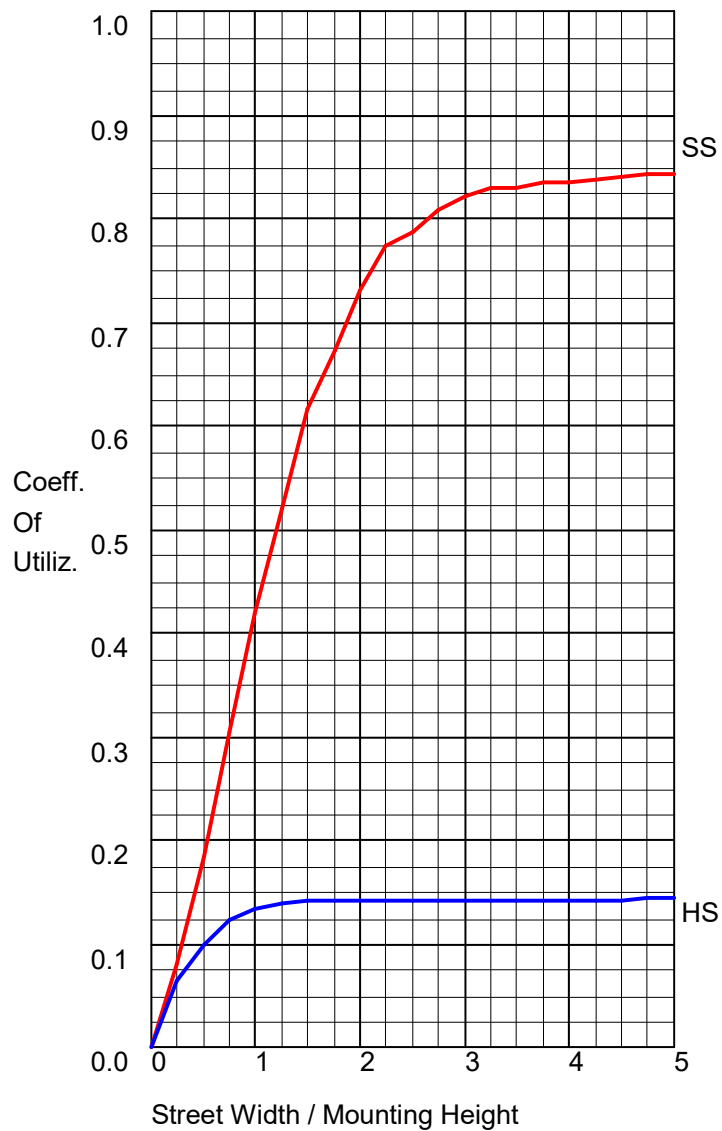
27.5	226	237
30.0	256	259
32.5	301	302
35.0	320	323
37.5	315	311
40.0	260	254
42.5	193	190
45.0	145	144
47.5	110	110
50.0	84	83
52.5	65	64
55.0	50	50
57.5	38	38
60.0	29	29
62.5	22	23
65.0	16	16
67.5	12	12
70.0	8	9
72.5	5	5
75.0	2	2
77.5	0	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	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
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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

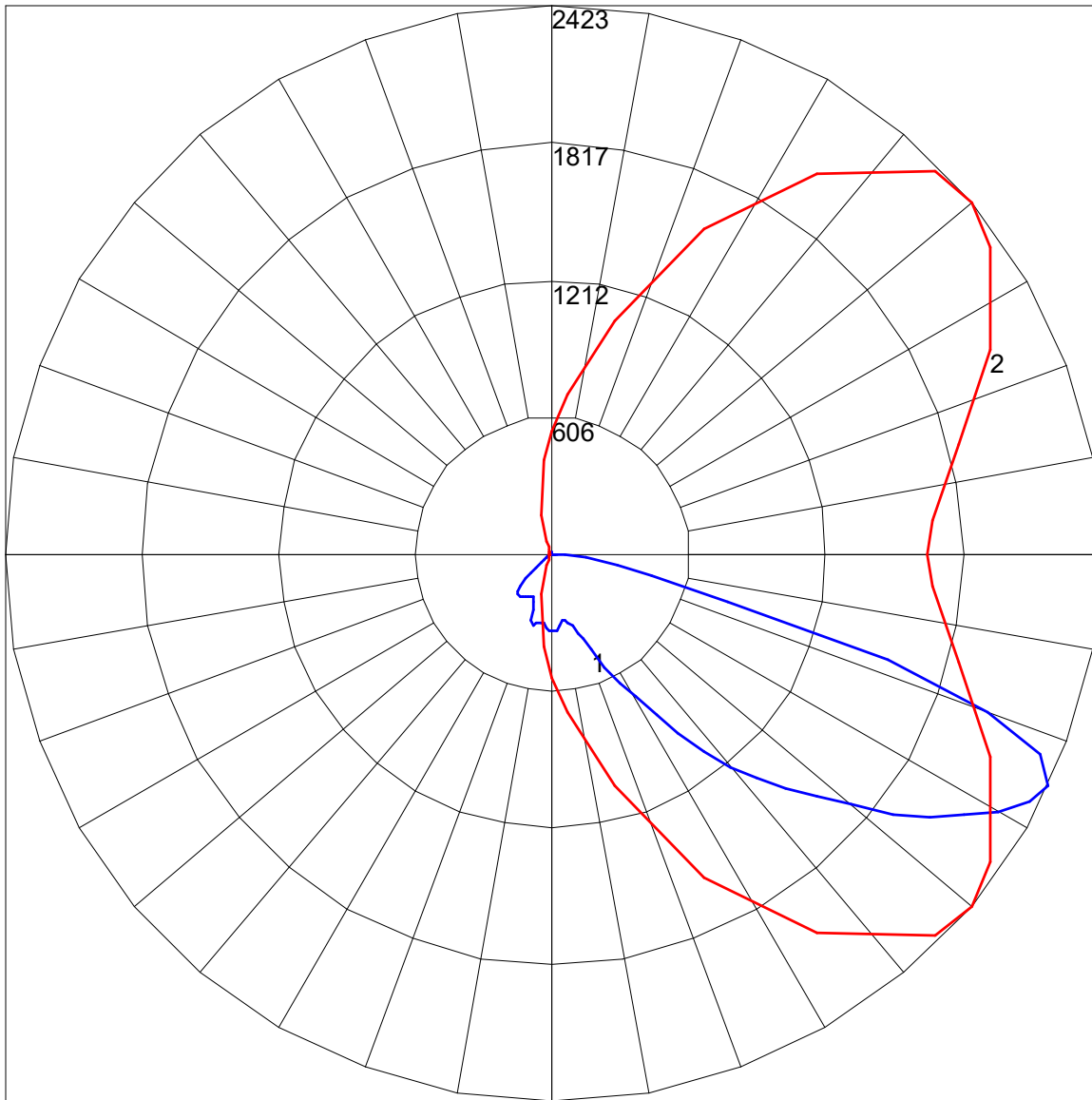
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

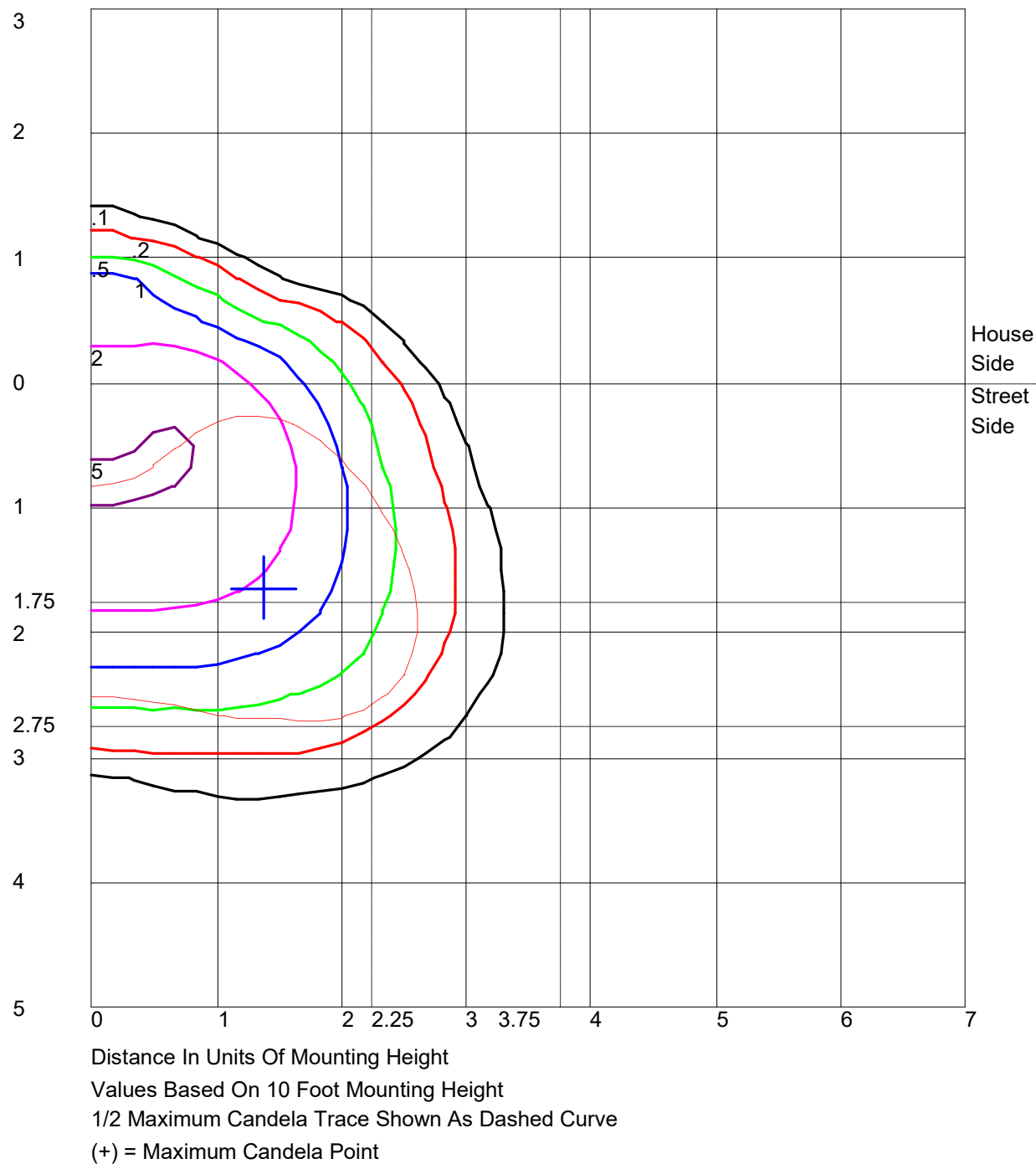
	Lumens	Percent Of Luminaire
Downward Street Side	2933.0	85.3
Downward House Side	495.7	14.4
Downward Total	3428.7	99.7
Upward Street Side	5.1	0.1
Upward House Side	6.2	0.2
Upward Total	11.3	0.3
Total Flux	3440.0	100.0

POLAR GRAPH

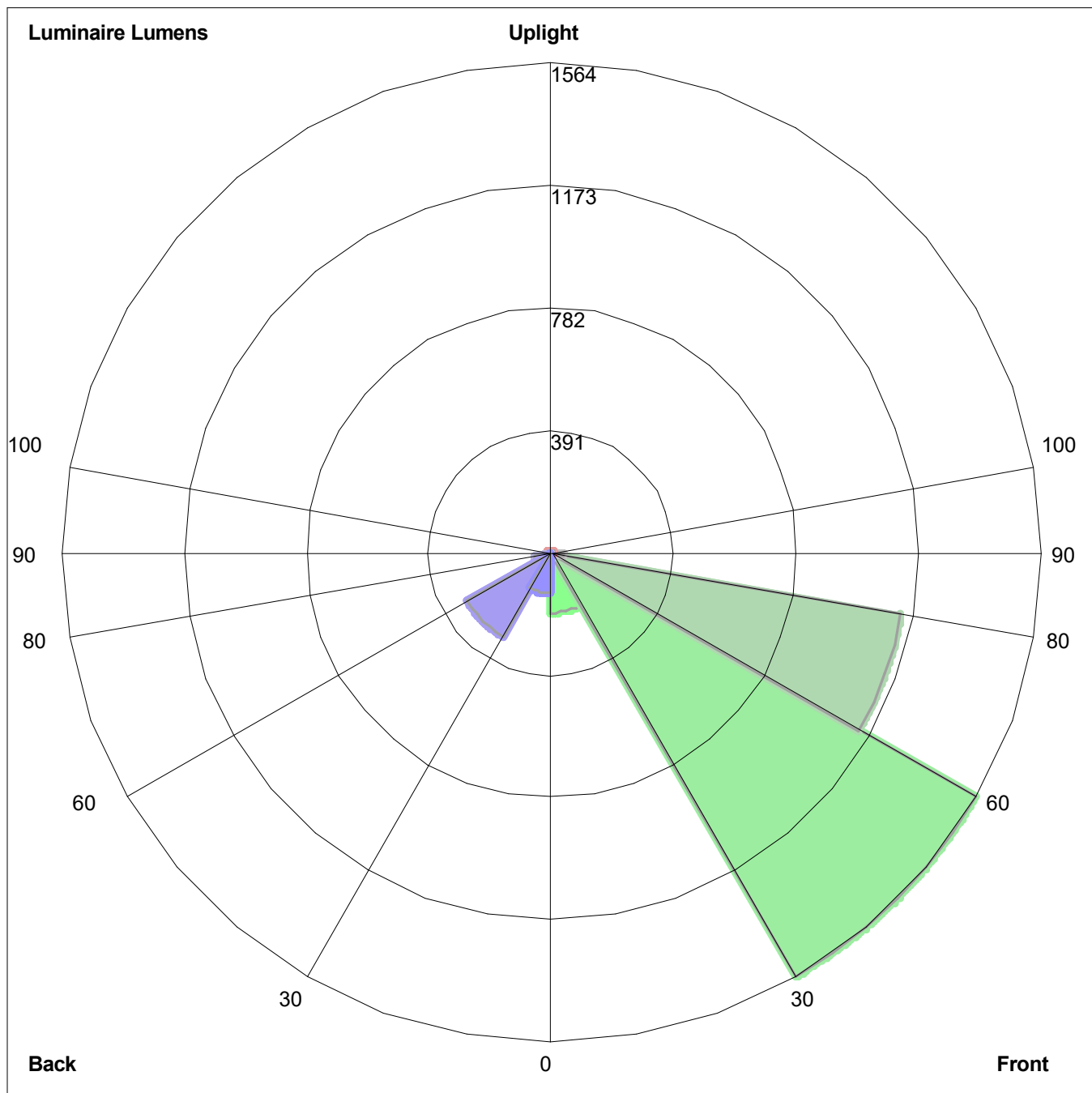


Maximum Candela = 2423 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=192.3, Medium=1564.4, High= 1135.0, Very High=41.3
Back: Low=130.8, Medium=308.2, High=53.9, Very High=2.8
Uplight: Low=2.7, High=8.5

BUG Rating : B1-U1-G1