



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-30.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11770

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-LED-05L-30

[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 II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4568
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3626
Maximum Candela Angle	77.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3626
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 67.5V
Maximum Candela At 90 Degrees Vertical	5 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	320 (7.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	240.3	N.A.	5.3
FM - Front-Medium (30-60)	1691.2	N.A.	37.0
FH - Front-High (60-80)	1025.2	N.A.	22.4
FVH - Front-Very High (80-90)	22.6	N.A.	0.5
BL - Back-Low (0-30)	200.7	N.A.	4.4
BM - Back-Medium (30-60)	997.5	N.A.	21.8
BH - Back-High (60-80)	359.5	N.A.	7.9
BVH - Back-Very High (80-90)	27.2	N.A.	0.6
UL - Uplight-Low (90-100)	1.4	N.A.	0.0
UH - Uplight-High (100-180)	2.5	N.A.	0.1
Total	4568.1	N.A.	100.0
BUG Rating	B1-U1-G1		

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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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	381	381	381	381	381	381	381	381	381	381
2.5	382	384	384	386	387	385	385	383	378	376
5.0	383	377	390	394	387	378	374	362	358	357
7.5	381	387	394	385	383	377	386	386	382	380
10.0	392	399	411	387	400	406	410	409	398	394
12.5	439	449	440	418	433	428	439	431	430	428
15.0	448	467	464	472	489	464	473	470	481	471
17.5	465	482	473	492	511	525	511	520	524	522
20.0	522	532	526	524	542	557	578	573	576	581
22.5	546	545	555	577	589	603	644	632	643	645
25.0	583	567	583	609	633	654	702	721	704	709
27.5	618	645	653	645	666	720	755	799	799	807
30.0	683	676	672	700	721	780	824	883	911	892
32.5	785	805	750	740	794	826	902	985	1013	1009
35.0	896	883	875	850	852	921	984	1065	1123	1139
37.5	1072	1069	1011	968	981	1008	1069	1157	1227	1237
40.0	1199	1209	1173	1161	1093	1128	1165	1239	1340	1352
42.5	1342	1352	1329	1322	1288	1247	1276	1322	1423	1437
45.0	1466	1483	1466	1437	1433	1408	1402	1408	1533	1539
47.5	1544	1553	1554	1542	1571	1595	1571	1522	1644	1661
50.0	1551	1565	1588	1598	1676	1787	1799	1679	1770	1801
52.5	1483	1498	1546	1577	1714	1956	2052	1887	1934	1986
55.0	1316	1334	1399	1459	1661	2022	2325	2171	2125	2198
57.5	1070	1074	1137	1217	1477	1957	2572	2498	2368	2461
60.0	797	797	848	917	1157	1725	2730	2845	2678	2793
62.5	560	557	570	615	795	1322	2720	3125	3032	3175
65.0	393	391	392	406	498	864	2411	3211	3359	3529
67.5	267	273	279	285	337	502	1804	3002	3500	3626
70.0	186	194	200	209	247	329	1085	2468	3168	3218
72.5	105	112	122	147	182	230	616	1668	2268	2138
75.0	59	63	63	81	119	172	342	985	1104	945
77.5	44	50	44	51	66	110	202	574	498	406
80.0	41	46	37	36	45	73	104	320	258	204
82.5	41	42	31	25	29	52	55	160	133	112
85.0	33	33	23	17	17	31	33	41	58	51
87.5	17	17	14	9	8	13	12	12	13	13
90.0	5	5	5	3	1	1	1	1	1	1
92.5	2	2	2	1	0	0	0	0	1	1
95.0	2	2	1	1	0	0	0	0	1	1
97.5	1	1	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	1	1	1	1	0	0	0	0	0	0
115.0	2	2	1	1	0	0	0	0	0	0
117.5	2	2	1	1	0	0	0	0	0	0
120.0	2	2	2	1	1	0	0	0	0	0
122.5	2	2	2	1	1	0	0	0	0	0
125.0	2	2	2	2	1	1	0	0	0	0
127.5	2	2	2	2	1	1	0	0	0	0
130.0	2	2	2	2	1	1	0	0	1	1

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**CANDELA TABULATION - (Cont.)**

132.5	2	3	2	2	1	1	0	0	0	1
135.0	2	2	2	2	1	1	0	0	0	0
137.5	2	1	1	1	0	0	0	0	0	0
140.0	1	0	0	0	0	0	0	0	0	0
142.5	1	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	381	381	381	381	381	381	381	381	381	381
2.5	377	377	378	379	383	378	375	374	371	377
5.0	368	359	354	346	354	361	355	349	349	344
7.5	365	363	365	369	360	346	326	317	325	320
10.0	381	381	372	378	345	340	325	311	299	303
12.5	411	407	402	390	362	338	316	322	327	332
15.0	444	450	430	401	362	339	349	350	352	353
17.5	500	477	465	428	370	364	384	383	381	389
20.0	553	546	519	463	388	407	405	417	428	447
22.5	638	599	579	511	453	448	445	462	479	501
25.0	702	683	663	558	517	494	494	515	545	565
27.5	804	750	738	607	583	540	555	579	631	658
30.0	883	846	816	665	639	614	625	659	698	737
32.5	984	950	893	752	696	688	710	735	790	848
35.0	1100	1048	998	829	760	761	797	806	861	904
37.5	1221	1182	1093	920	827	830	864	893	908	975
40.0	1336	1284	1175	982	885	889	915	929	935	975
42.5	1427	1387	1246	1015	928	922	932	938	907	920
45.0	1534	1498	1325	1046	950	930	920	897	831	837
47.5	1672	1623	1404	1077	960	911	875	830	747	730
50.0	1829	1749	1485	1098	953	867	813	750	661	635
52.5	2020	1891	1564	1112	936	820	743	672	586	558
55.0	2244	2059	1641	1116	910	765	675	606	524	494
57.5	2522	2233	1699	1109	875	704	611	555	456	438
60.0	2809	2403	1730	1075	822	636	554	493	396	376
62.5	3047	2474	1666	995	744	560	489	423	323	303
65.0	3157	2350	1474	852	634	471	407	341	253	224
67.5	2927	1983	1115	653	492	365	313	262	188	171
70.0	2277	1373	728	461	361	272	240	195	151	137
72.5	1205	674	430	305	265	204	183	156	117	97
75.0	458	304	265	210	195	163	146	113	76	65
77.5	194	162	171	157	149	132	103	78	61	57

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**CANDELA TABULATION - (Cont.)**

80.0	113	93	105	121	120	97	71	63	67	75
82.5	66	51	54	96	91	61	56	66	102	100
85.0	33	24	30	62	39	42	47	64	89	70
87.5	10	7	10	13	14	17	15	17	25	13
90.0	1	1	1	3	5	5	5	3	1	1
92.5	0	1	1	3	4	5	5	3	0	0
95.0	0	1	1	2	4	5	4	2	0	0
97.5	0	0	1	2	3	3	3	1	0	0
100.0	0	1	1	1	2	2	2	1	0	0
102.5	0	1	1	1	2	2	1	1	0	0
105.0	0	0	1	1	1	1	1	1	0	0
107.5	0	0	1	1	1	1	1	1	0	0
110.0	0	0	1	1	1	1	1	1	0	0
112.5	0	0	1	1	1	1	1	1	0	0
115.0	0	1	1	1	1	1	1	1	0	0
117.5	0	1	1	1	1	1	1	1	1	0
120.0	0	1	1	1	1	1	1	1	1	1
122.5	0	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	381	381
2.5	376	372
5.0	347	343
7.5	328	317
10.0	304	310
12.5	327	332
15.0	361	371
17.5	397	413
20.0	460	465
22.5	509	530
25.0	595	616

IES ROAD REPORT  
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CANDELA TABULATION - (Cont.)

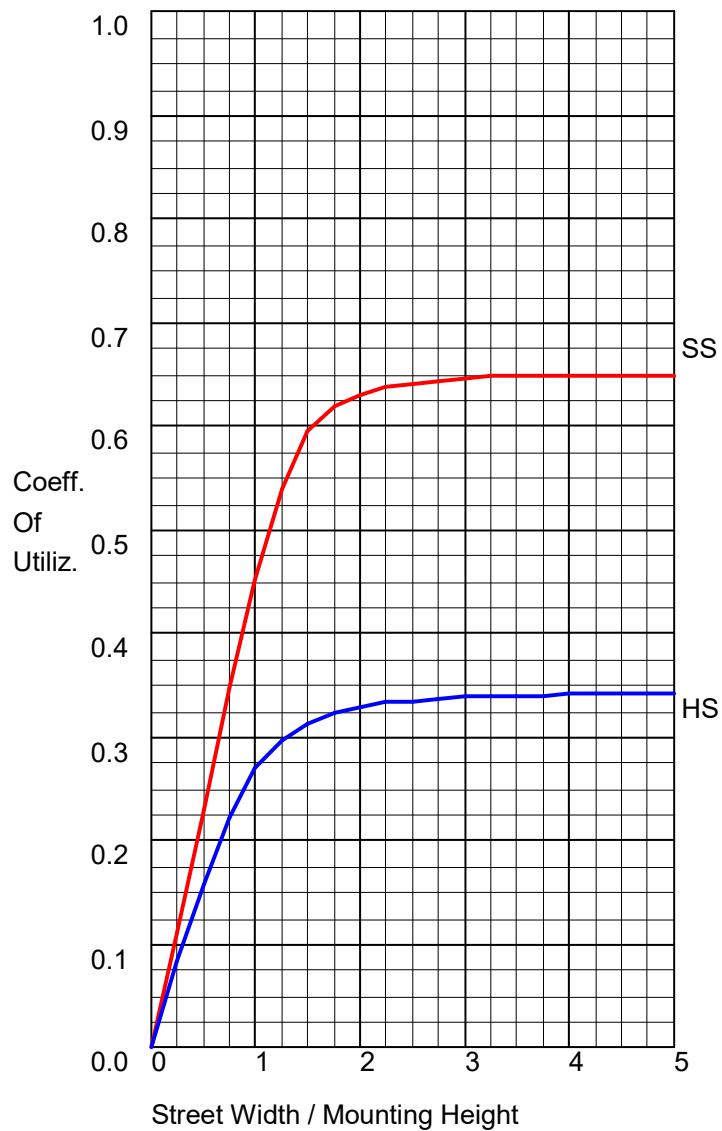
27.5	682	704
30.0	772	807
32.5	874	908
35.0	940	975
37.5	1006	1041
40.0	988	1022
42.5	922	955
45.0	829	860
47.5	721	755
50.0	626	645
52.5	550	571
55.0	486	504
57.5	430	444
60.0	361	373
62.5	286	294
65.0	213	217
67.5	168	174
70.0	139	142
72.5	101	104
75.0	77	86
77.5	71	81
80.0	92	103
82.5	110	118
85.0	74	77
87.5	6	11
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	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
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.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

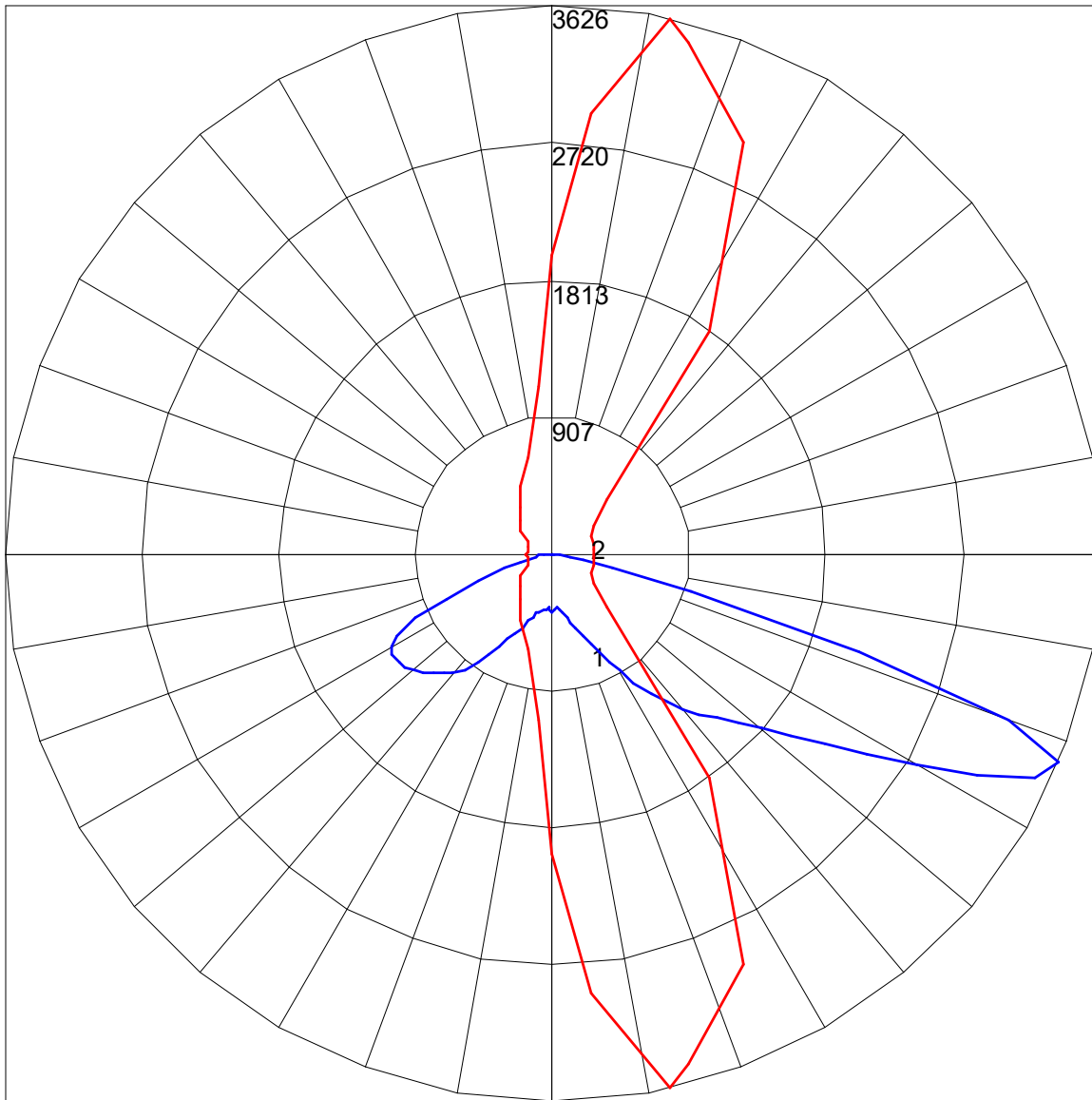


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	2979.3	65.2
Downward House Side	1585.0	34.7
Downward Total	4564.3	99.9
Upward Street Side	1.5	0.0
Upward House Side	2.5	0.1
Upward Total	4.0	0.1
Total Flux	4568.3	100.0

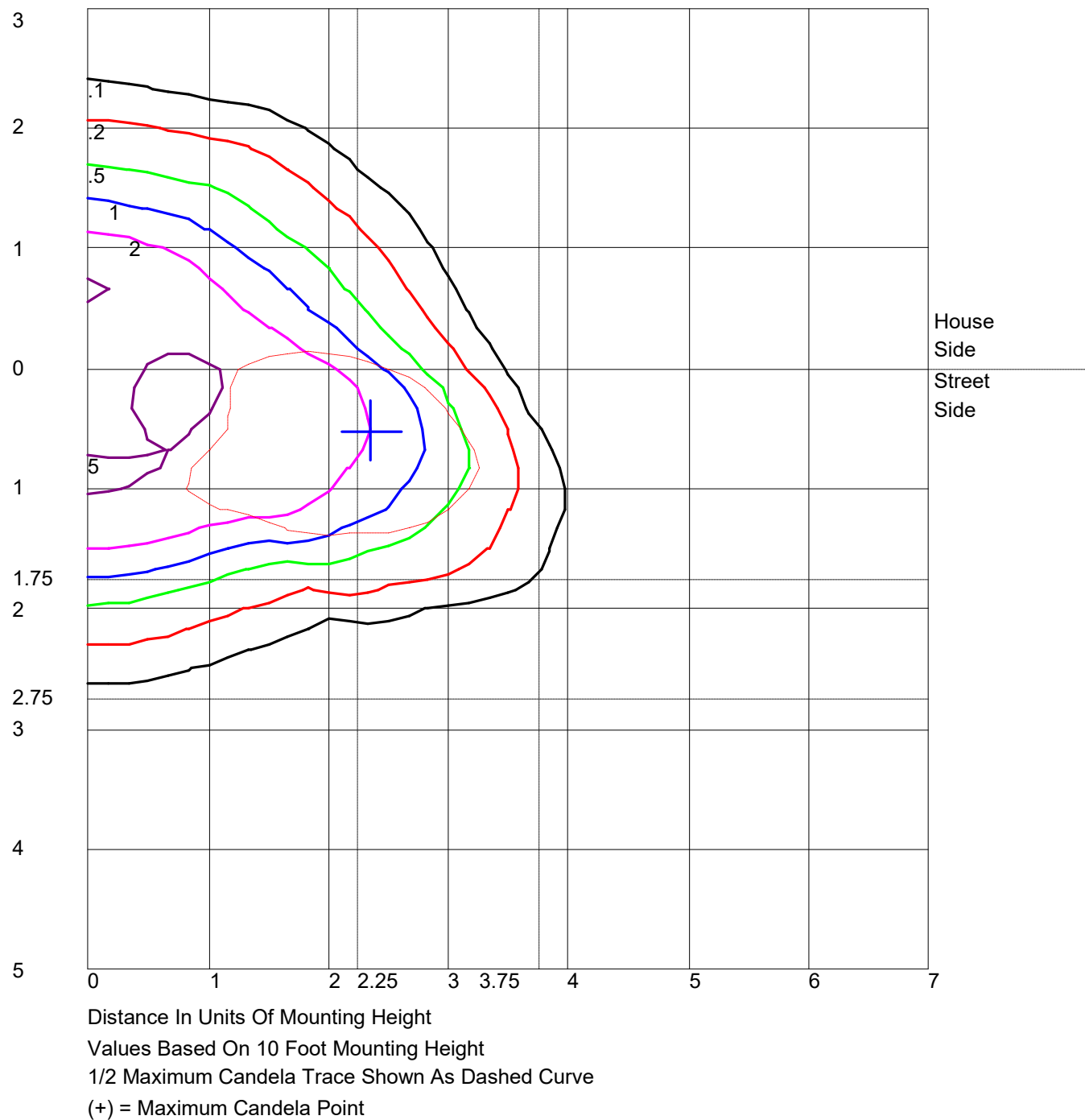


POLAR GRAPH

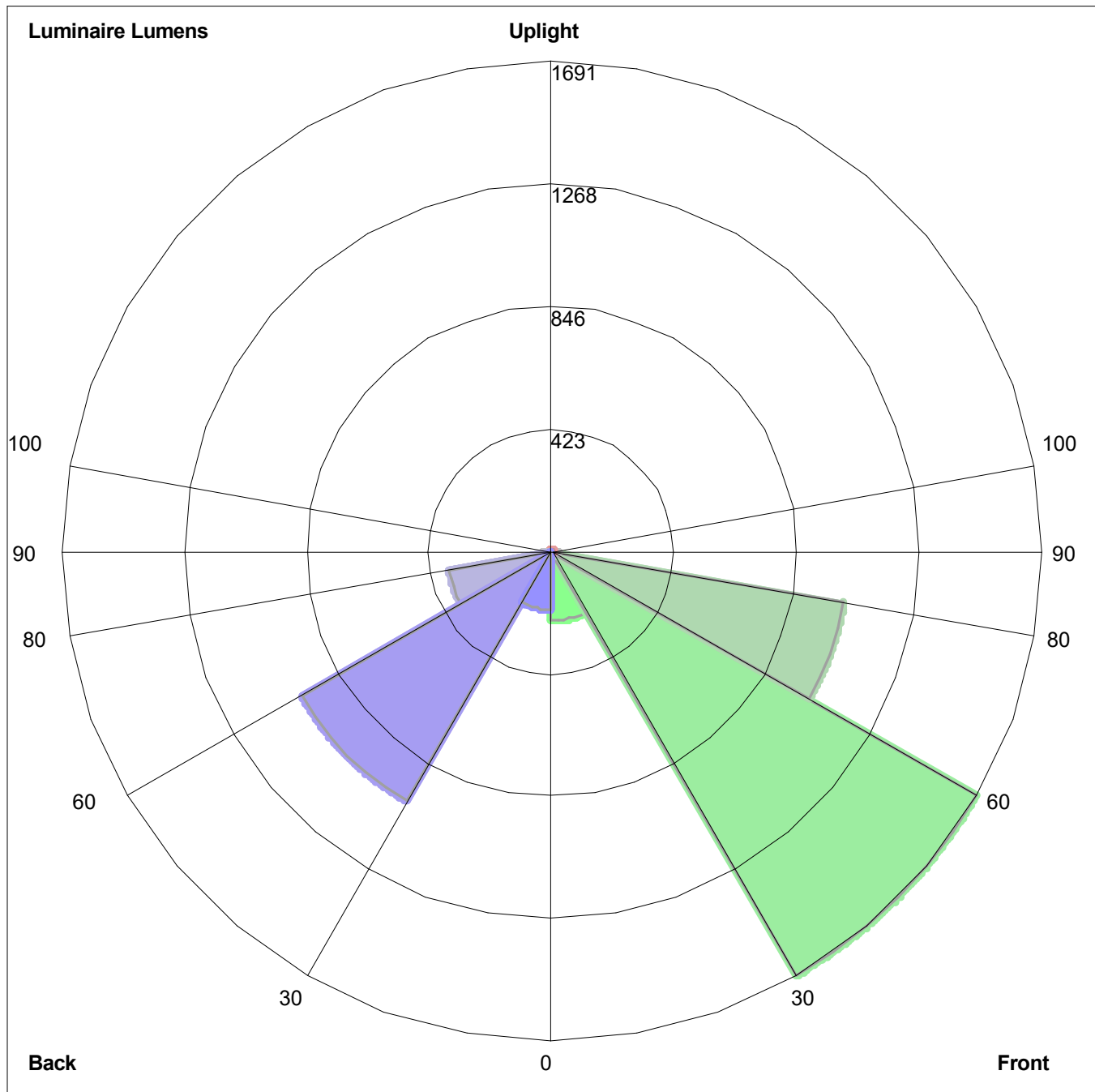


Maximum Candela = 3626 Located At Horizontal Angle = 77.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=240.3, Medium=1691.2, High=1025.2, Very High=22.6  
Back: Low=200.7, Medium=997.5, High=359.5, Very High=27.2  
Uplight: Low=1.4, High=2.5

BUG Rating : B1-U1-G1