



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11757  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/26/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-3-LED-25L-40  
[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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25921
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23440
Maximum Candela Angle	55H 60V
Maximum Candela (<90 Degrees Vertical)	23440
Maximum Candela Angle (<90 Degrees Vertical)	55H 60V
Maximum Candela At 90 Degrees Vertical	205 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1294 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	833.7	N.A.	3.2
FM - Front-Medium (30-60)	12751.7	N.A.	49.2
FH - Front-High (60-80)	6143.4	N.A.	23.7
FVH - Front-Very High (80-90)	183.3	N.A.	0.7
BL - Back-Low (0-30)	709.0	N.A.	2.7
BM - Back-Medium (30-60)	3516.3	N.A.	13.6
BH - Back-High (60-80)	1562.6	N.A.	6.0
BVH - Back-Very High (80-90)	152.9	N.A.	0.6
UL - Uplight-Low (90-100)	20.9	N.A.	0.1
UH - Uplight-High (100-180)	47.3	N.A.	0.2
Total	25921.1	N.A.	100.0
BUG Rating	B3-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0.0</b>	<b>5.0</b>	<b>15.0</b>	<b>25.0</b>	<b>35.0</b>	<b>45.0</b>	<b>55.0</b>	<b>57.5</b>	<b>65.0</b>	<b>75.0</b>
<b>0.0</b>	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168
<b>2.5</b>	1147	1154	1147	1144	1149	1145	1153	1158	1160	1154
<b>5.0</b>	1132	1117	1122	1135	1127	1105	1082	1086	1086	1095
<b>7.5</b>	1091	1084	1097	1074	1086	1080	1093	1093	1119	1117
<b>10.0</b>	1073	1082	1097	1061	1091	1135	1164	1161	1157	1161
<b>12.5</b>	1148	1161	1145	1126	1166	1183	1210	1214	1222	1217
<b>15.0</b>	1212	1236	1232	1264	1305	1279	1304	1308	1317	1324
<b>17.5</b>	1306	1330	1318	1356	1410	1438	1429	1435	1445	1447
<b>20.0</b>	1508	1532	1527	1531	1570	1602	1662	1682	1626	1606
<b>22.5</b>	1737	1718	1773	1845	1890	1908	2029	2051	1959	1899
<b>25.0</b>	2135	2124	2161	2245	2326	2446	2551	2629	2528	2319
<b>27.5</b>	2893	2998	3060	2942	2994	3246	3271	3359	3306	3001
<b>30.0</b>	3823	3763	3767	3789	3894	4204	4278	4343	4286	3927
<b>32.5</b>	4890	5045	4733	4596	4955	5112	5424	5405	5472	4837
<b>35.0</b>	5988	5910	5898	5714	5804	6374	6621	6632	6462	5651
<b>37.5</b>	7404	7402	7091	6836	7059	7360	7668	7646	7367	6217
<b>40.0</b>	8743	8720	8530	8388	8096	8478	8609	8513	8074	6846
<b>42.5</b>	10288	10209	9988	9927	9417	9584	9438	9307	8662	7402
<b>45.0</b>	12090	11972	11816	11583	10896	10660	10288	10029	9289	8165
<b>47.5</b>	13815	13872	13735	13354	12579	11917	11278	11184	10211	9158
<b>50.0</b>	15429	15332	15831	15262	14486	13677	12799	12678	11745	10576
<b>52.5</b>	15785	15959	16760	17055	17062	15892	15127	14935	13856	12173
<b>55.0</b>	14658	14814	16290	17488	18783	18491	18369	18021	16513	13428
<b>57.5</b>	12479	12556	14148	16445	19279	20394	21680	21325	18699	13999
<b>60.0</b>	8619	8693	10707	13970	18503	20954	23440	23118	19418	13701
<b>62.5</b>	4707	5064	6679	10127	15432	19708	23154	23066	18785	12714
<b>65.0</b>	2602	2753	3492	5758	10998	16786	21339	21261	17041	10447
<b>67.5</b>	1574	1622	1997	3103	6585	11819	17480	17547	13448	7118
<b>70.0</b>	986	1025	1331	2079	3628	6953	11944	12221	9250	4332
<b>72.5</b>	745	773	954	1506	2453	3371	6894	7300	5342	2093
<b>75.0</b>	555	579	766	1232	1850	1993	3366	3607	2477	949
<b>77.5</b>	402	415	592	1068	1545	1378	1577	1720	1255	552
<b>80.0</b>	285	306	464	871	1294	1012	860	943	761	384
<b>82.5</b>	211	231	354	660	979	661	568	627	522	297
<b>85.0</b>	203	235	256	470	543	341	321	340	316	195
<b>87.5</b>	191	237	190	286	302	116	125	111	116	101
<b>90.0</b>	54	56	57	80	58	24	20	17	16	16
<b>92.5</b>	29	24	20	26	15	12	12	12	11	10
<b>95.0</b>	11	10	10	10	9	10	10	10	9	8
<b>97.5</b>	9	9	8	9	9	10	9	9	8	8
<b>100.0</b>	8	8	8	9	9	9	8	8	7	7
<b>102.5</b>	6	7	7	8	9	9	8	8	7	7
<b>105.0</b>	6	6	7	8	9	9	8	8	7	7
<b>107.5</b>	7	7	7	9	9	9	8	8	7	7
<b>110.0</b>	7	7	8	9	9	10	8	8	7	7
<b>112.5</b>	8	8	9	9	10	10	8	8	8	8
<b>115.0</b>	9	9	9	10	10	10	9	8	8	8
<b>117.5</b>	9	9	10	10	10	10	9	8	8	8
<b>120.0</b>	10	11	11	11	11	11	9	9	9	9
<b>122.5</b>	11	11	11	12	11	11	9	9	9	9
<b>125.0</b>	11	11	11	12	11	11	9	9	9	10
<b>127.5</b>	11	11	11	12	12	12	10	10	10	10
<b>130.0</b>	11	11	12	12	12	12	10	10	10	10

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**CANDELA TABULATION - (Cont.)**

132.5	11	11	11	12	11	11	10	10	10	10
135.0	9	9	9	10	10	10	9	9	9	10
137.5	4	4	5	7	8	8	7	7	7	8
140.0	2	2	4	6	7	6	6	6	6	6
142.5	2	2	4	5	6	6	6	6	5	6
145.0	1	2	4	5	6	6	5	5	5	6
147.5	2	2	4	5	6	5	5	5	5	5
150.0	1	2	4	5	5	5	5	5	5	5
152.5	2	2	4	5	5	5	5	5	5	5
155.0	2	2	3	5	5	5	5	4	5	5
157.5	1	2	3	4	5	4	4	4	4	5
160.0	1	2	3	4	4	4	4	4	4	4
162.5	1	1	3	4	4	4	4	4	4	4
165.0	1	1	3	4	4	4	4	4	4	4
167.5	1	1	3	4	5	4	4	4	4	4
170.0	1	1	3	5	5	5	4	4	4	4
172.5	1	1	3	5	5	5	4	4	4	4
175.0	1	1	3	5	5	5	5	4	4	4
177.5	1	1	3	5	5	5	5	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

**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	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168
2.5	1159	1173	1166	1161	1158	1175	1173	1185	1180	1168
5.0	1102	1100	1103	1093	1116	1146	1169	1175	1176	1158
7.5	1105	1118	1129	1167	1148	1137	1119	1123	1150	1176
10.0	1147	1144	1142	1204	1135	1157	1146	1138	1135	1183
12.5	1206	1198	1233	1208	1191	1197	1192	1253	1286	1336
15.0	1268	1279	1250	1238	1230	1264	1358	1409	1446	1448
17.5	1381	1326	1322	1310	1282	1398	1521	1547	1569	1581
20.0	1516	1469	1433	1379	1356	1546	1627	1688	1741	1738
22.5	1782	1673	1590	1518	1551	1716	1763	1852	1884	1890
25.0	2147	1984	1863	1634	1781	1899	1894	1978	2099	2071
27.5	2699	2383	2210	1813	2021	2064	2056	2143	2391	2422
30.0	3327	2904	2553	1977	2181	2289	2238	2349	2651	2772
32.5	3880	3360	2855	2177	2318	2466	2432	2559	3029	3359
35.0	4431	3707	3094	2336	2408	2592	2593	2713	3398	3863
37.5	4868	4070	3283	2442	2458	2669	2683	2887	3731	4529
40.0	5297	4350	3446	2540	2443	2695	2729	2912	4173	4905
42.5	5810	4679	3647	2564	2396	2643	2706	2935	4583	4764
45.0	6511	5213	3950	2591	2331	2571	2668	2856	4651	4696
47.5	7568	6006	4359	2651	2262	2474	2582	2801	4454	4489
50.0	8774	6817	4715	2658	2173	2362	2510	2757	4091	4228
52.5	9852	7461	4967	2611	2063	2235	2424	2684	3604	3968
55.0	10168	7663	4935	2454	1928	2100	2305	2590	3176	3735
57.5	10027	7361	4468	2198	1781	1939	2181	2482	2797	3506
60.0	9522	6634	3666	1885	1634	1783	2045	2367	2492	3244
62.5	8189	5315	2643	1570	1496	1661	1916	2218	2242	2987
65.0	5998	3762	1860	1342	1368	1544	1783	2069	2096	2716
67.5	3841	2432	1305	1137	1241	1417	1612	1930	1921	2381
70.0	2094	1304	885	948	1102	1274	1450	1757	1719	2044
72.5	924	667	635	801	974	1117	1279	1542	1458	1670
75.0	526	443	530	698	852	971	1090	1173	1088	1302
77.5	345	321	432	602	727	821	863	724	680	908

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**CANDELA TABULATION - (Cont.)**

80.0	282	255	357	517	606	600	634	478	379	540
82.5	213	193	284	414	445	372	390	309	243	360
85.0	125	113	195	305	285	238	216	185	146	243
87.5	57	46	117	168	159	137	100	110	75	133
90.0	12	8	31	51	62	59	43	78	32	57
92.5	8	7	19	32	42	40	29	17	5	5
95.0	7	8	17	29	38	37	27	16	6	5
97.5	6	8	14	24	31	30	23	14	6	4
100.0	6	9	12	19	25	24	19	13	6	5
102.5	7	9	11	16	20	20	17	12	6	5
105.0	7	9	10	15	19	18	16	12	7	5
107.5	7	9	11	14	17	17	15	12	8	6
110.0	8	10	11	13	16	16	15	13	8	6
112.5	8	10	11	13	16	16	15	13	9	7
115.0	9	10	11	13	15	16	16	14	10	8
117.5	9	11	11	13	15	16	16	14	11	9
120.0	10	11	12	14	16	16	16	15	12	10
122.5	10	11	12	15	16	17	17	16	12	11
125.0	11	11	12	14	16	17	17	16	14	11
127.5	11	12	13	14	16	17	18	17	15	12
130.0	11	12	13	14	16	17	18	17	15	13
132.5	11	11	12	14	16	17	17	16	14	12
135.0	10	11	12	13	15	15	16	15	13	11
137.5	9	9	10	11	12	12	12	11	9	7
140.0	7	8	8	9	10	11	10	9	7	5
142.5	7	7	8	9	9	9	9	8	6	4
145.0	7	7	7	8	9	9	9	8	6	3
147.5	6	7	7	8	8	9	8	7	5	3
150.0	6	7	7	8	8	8	8	7	5	2
152.5	6	7	7	8	8	8	8	6	4	2
155.0	6	7	7	7	8	8	7	6	4	2
157.5	6	6	6	7	7	7	6	5	3	1
160.0	5	6	6	6	7	6	6	4	2	0
162.5	5	5	6	6	6	6	5	4	2	0
165.0	4	5	5	6	5	6	5	4	2	0
167.5	5	5	5	5	6	5	5	4	2	0
170.0	4	5	5	5	5	5	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	4	5	5	5	5	4	4	2	0
177.5	4	4	5	5	5	4	4	3	2	0
180.0	3	3	3	3	3	3	3	3	3	3

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

	<u>175.0</u>	<u>180.0</u>
0.0	1168	1168
2.5	1174	1174
5.0	1155	1155
7.5	1172	1153
10.0	1207	1211
12.5	1370	1373
15.0	1507	1509
17.5	1612	1621
20.0	1765	1760
22.5	1862	1874
25.0	2045	2036

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-40.IES**

**CANDELA TABULATION - (Cont.)**

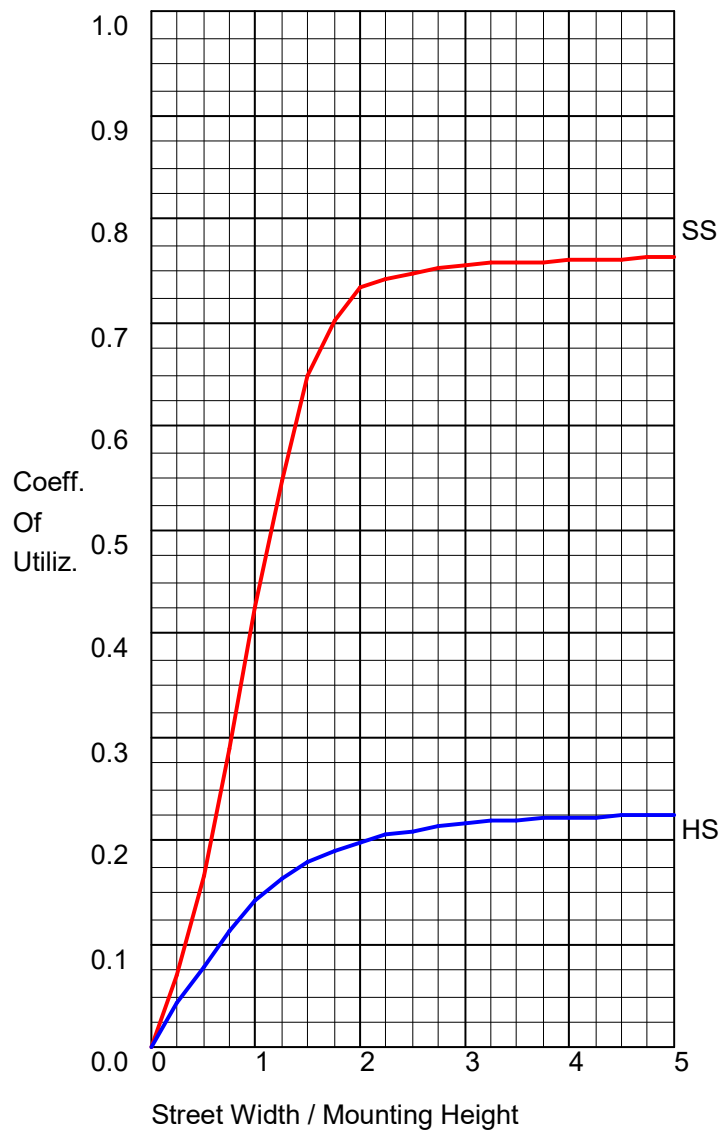
27.5	2296	2273
30.0	2666	2640
32.5	3279	3200
35.0	3726	3627
37.5	3986	3860
40.0	3812	3629
42.5	3490	3246
45.0	3187	2940
47.5	2984	2774
50.0	2889	2685
52.5	2851	2637
55.0	2897	2623
57.5	2964	2641
60.0	3049	2724
62.5	3137	2850
65.0	3176	3004
67.5	3107	3077
70.0	2848	2997
72.5	2290	2549
75.0	1537	1785
77.5	1137	1278
80.0	824	863
82.5	596	609
85.0	489	528
87.5	649	770
90.0	205	185
92.5	1	0
95.0	1	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	1	0
107.5	2	1
110.0	3	2
112.5	4	3
115.0	5	4
117.5	6	5
120.0	7	6
122.5	7	7
125.0	8	8
127.5	9	9
130.0	9	9
132.5	9	9
135.0	8	7
137.5	5	4
140.0	2	1
142.5	1	0
145.0	1	0
147.5	1	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-3-LED-25L-40.IES**

**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>	3	3

### COEFFICIENTS OF UTILIZATION

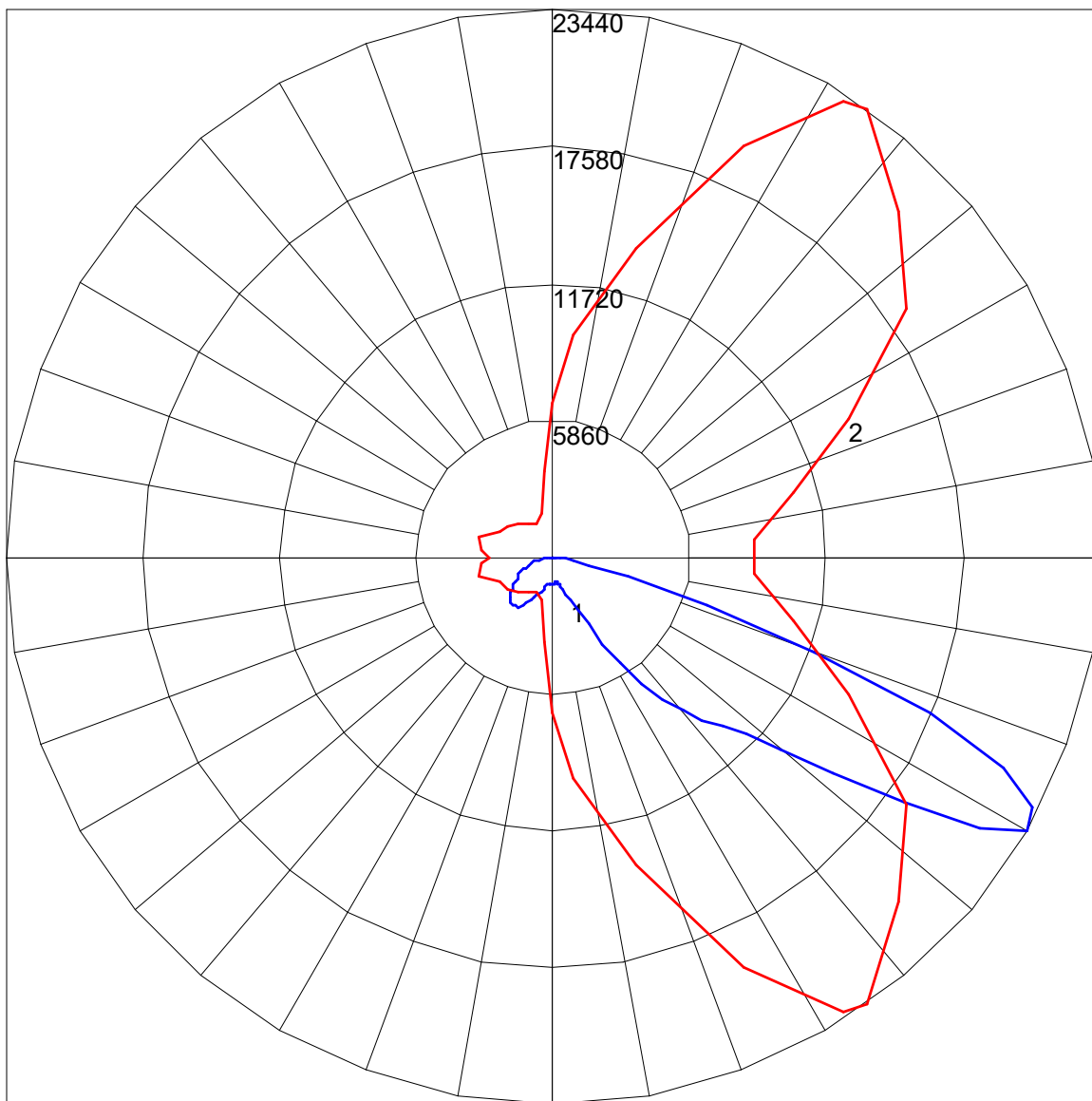


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	19912.1	76.8
Downward House Side	5940.8	22.9
Downward Total	25852.9	99.7
Upward Street Side	27.9	0.1
Upward House Side	40.3	0.2
Upward Total	68.2	0.3
Total Flux	25921.1	100.0

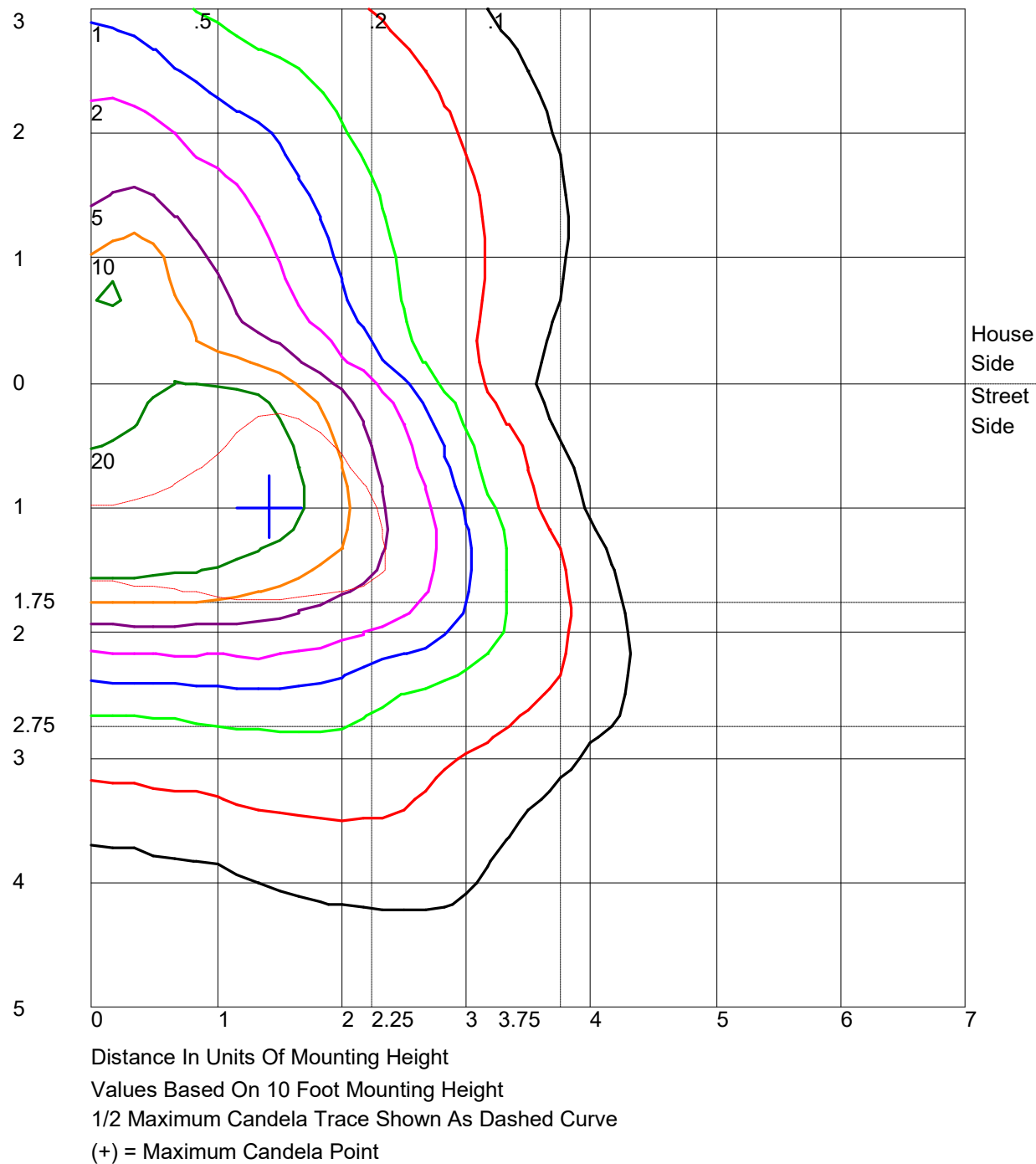


POLAR GRAPH

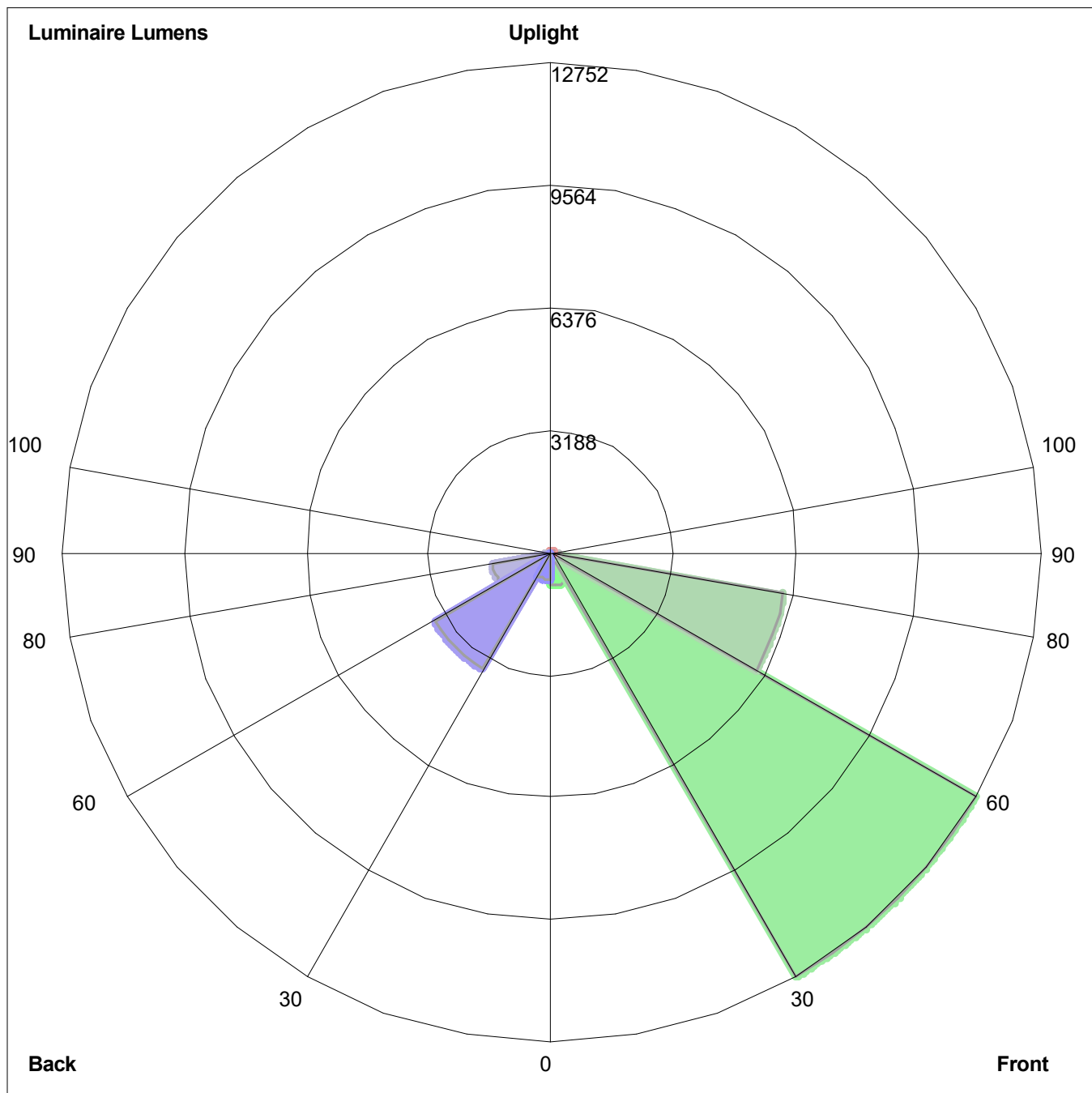


Maximum Candela = 23440 Located At Horizontal Angle = 55, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=833.7, Medium=12751.7, High=6143.4, Very High=183.3  
Back: Low=709.0, Medium=3516.3, High=1562.6, Very High=152.9  
Uplight: Low=20.9, High=47.3

BUG Rating : B3-U2-G3