



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-18L-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-FT-LED-18L-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	12570
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8856
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	8856
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	36 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1114 (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)	703.0	N.A.	5.6
FM - Front-Medium (30-60)	5718.7	N.A.	45.5
FH - Front-High (60-80)	4149.0	N.A.	33.0
FVH - Front-Very High (80-90)	150.7	N.A.	1.2
BL - Back-Low (0-30)	478.3	N.A.	3.8
BM - Back-Medium (30-60)	1126.6	N.A.	9.0
BH - Back-High (60-80)	196.9	N.A.	1.6
BVH - Back-Very High (80-90)	9.9	N.A.	0.1
UL - Uplight-Low (90-100)	9.0	N.A.	0.1
UH - Uplight-High (100-180)	27.8	N.A.	0.2
Total	12569.9	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>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
<b>0.0</b>	1246	1246	1246	1246	1246	1246	1246	1246	1246	1246
<b>2.5</b>	1220	1231	1238	1231	1240	1238	1253	1253	1246	1240
<b>5.0</b>	1140	1139	1169	1194	1199	1180	1190	1159	1151	1137
<b>7.5</b>	1083	1105	1134	1110	1068	1085	1075	1138	1200	1201
<b>10.0</b>	1074	1087	1084	1060	1072	1094	1126	1156	1173	1203
<b>12.5</b>	1169	1143	1134	1093	1115	1129	1142	1170	1242	1265
<b>15.0</b>	1233	1208	1219	1226	1234	1214	1207	1248	1304	1343
<b>17.5</b>	1316	1294	1288	1316	1353	1339	1365	1347	1377	1448
<b>20.0</b>	1459	1459	1472	1474	1467	1479	1507	1510	1490	1575
<b>22.5</b>	1607	1634	1675	1735	1690	1674	1693	1700	1651	1749
<b>25.0</b>	1861	1851	1880	1940	2038	2024	1963	1978	1904	1905
<b>27.5</b>	2274	2221	2257	2243	2298	2352	2340	2284	2194	2112
<b>30.0</b>	2578	2620	2624	2663	2637	2682	2695	2680	2479	2338
<b>32.5</b>	3245	3171	3072	3057	3091	3108	3090	3084	2815	2605
<b>35.0</b>	3596	3634	3536	3567	3512	3568	3503	3494	3195	2854
<b>37.5</b>	4163	4144	3990	4015	4043	4046	3939	3922	3587	3201
<b>40.0</b>	4519	4506	4541	4503	4516	4498	4472	4319	4029	3487
<b>42.5</b>	4789	4800	4824	4883	4974	4914	4885	4797	4447	3743
<b>45.0</b>	5045	5107	5120	5204	5422	5359	5391	5186	4839	4017
<b>47.5</b>	5358	5431	5473	5577	5814	5792	5856	5608	5215	4338
<b>50.0</b>	5698	5760	5829	6006	6247	6294	6361	6122	5691	4651
<b>52.5</b>	5941	6007	6131	6360	6732	6944	6866	6654	6071	4854
<b>55.0</b>	6154	6209	6384	6703	7275	7450	7414	7152	6351	5003
<b>57.5</b>	6380	6438	6653	7061	7746	7892	7875	7525	6520	5005
<b>60.0</b>	6547	6605	6895	7437	8134	8347	8322	7759	6507	4830
<b>62.5</b>	6589	6644	7083	7812	8483	8695	8605	7754	6308	4480
<b>65.0</b>	6052	6162	6785	7814	8670	8856	8751	7497	5806	3891
<b>67.5</b>	5102	5170	5919	7141	8293	8535	8306	6933	5048	3164
<b>70.0</b>	2803	3050	4052	5784	7131	7516	7293	5938	4033	2231
<b>72.5</b>	1219	1323	1863	3210	5090	5675	5816	4502	2802	1397
<b>75.0</b>	918	976	1254	1755	2567	2941	3310	2937	1725	927
<b>77.5</b>	737	784	1043	1380	1601	1633	1670	1646	1101	658
<b>80.0</b>	590	640	874	1082	1114	1057	989	810	697	440
<b>82.5</b>	441	479	628	708	583	538	451	340	341	289
<b>85.0</b>	244	255	321	319	230	218	182	152	160	163
<b>87.5</b>	81	91	109	103	74	67	54	49	48	62
<b>90.0</b>	28	30	36	30	22	18	14	8	6	8
<b>92.5</b>	13	13	10	7	6	6	7	6	6	6
<b>95.0</b>	2	2	3	4	6	6	6	6	6	6
<b>97.5</b>	2	2	3	4	5	5	6	6	6	6
<b>100.0</b>	2	2	3	4	5	5	5	5	5	6
<b>102.5</b>	2	2	3	4	5	5	5	5	5	5
<b>105.0</b>	3	2	3	4	5	5	5	5	5	5
<b>107.5</b>	3	3	3	4	5	5	5	5	5	5
<b>110.0</b>	3	3	4	4	5	5	5	5	5	5
<b>112.5</b>	4	4	4	4	5	5	5	5	5	6
<b>115.0</b>	4	4	4	5	5	5	6	5	5	6
<b>117.5</b>	5	5	5	5	5	6	6	6	6	6
<b>120.0</b>	5	5	5	5	6	6	6	6	6	6
<b>122.5</b>	6	6	6	5	6	6	6	6	6	6
<b>125.0</b>	6	6	6	6	6	6	6	6	6	7
<b>127.5</b>	6	6	6	6	6	6	7	6	6	7
<b>130.0</b>	7	6	6	6	6	7	7	6	6	8

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**CANDELA TABULATION - (Cont.)**

132.5	7	7	7	6	7	7	7	7	7	8
135.0	6	6	6	6	6	6	6	6	6	7
137.5	4	4	4	4	5	5	5	5	5	6
140.0	1	1	2	3	4	4	4	4	5	5
142.5	1	1	2	3	4	4	4	4	4	5
145.0	1	1	1	3	4	4	4	4	4	4
147.5	1	1	1	3	4	4	4	4	4	4
150.0	0	1	1	3	4	4	4	4	4	4
152.5	1	1	2	3	4	4	4	4	4	4
155.0	1	1	2	3	4	4	4	4	4	4
157.5	1	1	2	3	4	4	4	4	4	4
160.0	1	1	2	3	4	4	4	4	4	4
162.5	1	1	2	3	4	4	4	4	4	4
165.0	1	1	2	3	4	4	4	4	4	4
167.5	1	1	2	3	4	4	4	4	4	4
170.0	1	1	2	3	4	4	4	4	4	4
172.5	1	1	2	3	3	4	4	4	4	4
175.0	1	1	2	3	3	4	4	4	4	4
177.5	1	1	1	2	3	3	4	4	4	4
180.0	2	2	2	2	2	2	2	2	2	2

**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	1246	1246	1246	1246	1246	1246	1246	1246	1246	1246
2.5	1250	1253	1242	1241	1241	1247	1255	1259	1239	1217
5.0	1161	1166	1157	1177	1188	1201	1215	1219	1209	1172
7.5	1190	1213	1212	1248	1209	1149	1101	1126	1126	1163
10.0	1215	1198	1209	1221	1172	1161	1134	1126	1077	1126
12.5	1256	1275	1302	1291	1222	1145	1143	1180	1143	1148
15.0	1381	1367	1371	1312	1224	1246	1227	1151	1065	978
17.5	1443	1455	1441	1409	1292	1291	1219	1032	857	755
20.0	1614	1584	1582	1431	1344	1311	1067	857	726	684
22.5	1759	1738	1735	1580	1426	1242	925	757	697	679
25.0	1944	1916	1882	1685	1499	1139	825	732	706	708
27.5	2110	2072	2014	1842	1542	1026	806	741	760	783
30.0	2252	2250	2141	1913	1482	1007	823	774	828	866
32.5	2456	2356	2228	1940	1426	1008	852	815	898	1002
35.0	2618	2557	2345	1956	1336	1024	874	846	982	1119
37.5	2857	2734	2508	1914	1280	1030	876	877	1036	1174
40.0	3011	2807	2554	1865	1243	1022	865	871	1043	1067
42.5	3149	2881	2576	1798	1189	1001	828	810	918	805
45.0	3326	2964	2622	1717	1131	953	760	678	669	570
47.5	3472	3045	2662	1637	1064	870	648	525	461	399
50.0	3592	3070	2648	1572	971	750	525	398	322	292
52.5	3673	3087	2605	1520	847	582	390	288	233	219
55.0	3705	3067	2530	1447	684	410	266	201	169	164
57.5	3618	2974	2417	1320	512	274	186	142	121	121
60.0	3381	2780	2226	1115	355	204	142	106	88	87
62.5	3035	2448	1924	895	255	166	113	79	60	60
65.0	2583	1992	1506	660	204	135	90	59	45	43
67.5	1930	1476	981	410	164	109	70	47	33	30
70.0	1265	964	577	237	124	84	55	39	26	23
72.5	739	551	353	154	84	59	43	31	21	14
75.0	526	377	240	109	61	43	35	23	11	6
77.5	371	260	164	81	47	36	27	14	5	4

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**CANDELA TABULATION - (Cont.)**

80.0	227	164	116	59	37	30	21	10	4	3
82.5	152	114	81	42	30	26	18	8	3	2
85.0	101	69	47	27	25	22	16	8	2	2
87.5	46	28	21	17	18	16	12	7	2	2
90.0	9	6	11	16	18	16	12	7	2	2
92.5	7	6	11	16	18	17	14	8	4	3
95.0	7	5	11	16	18	16	13	8	4	4
97.5	6	5	9	14	15	14	11	8	5	4
100.0	6	5	7	10	12	12	10	8	5	4
102.5	6	5	6	8	9	10	8	7	5	4
105.0	5	5	6	7	8	8	8	7	5	5
107.5	5	5	6	7	8	8	8	7	6	5
110.0	5	6	6	7	8	8	7	6	5	5
112.5	6	6	6	7	8	8	7	7	6	5
115.0	6	6	7	7	8	8	8	7	6	5
117.5	6	6	7	8	8	8	8	8	7	6
120.0	6	7	7	8	8	9	9	8	8	6
122.5	7	8	8	8	9	10	9	9	8	7
125.0	7	8	8	8	9	9	9	9	8	7
127.5	8	8	8	8	9	9	9	9	8	8
130.0	8	8	8	8	9	9	9	9	8	8
132.5	8	8	8	8	8	9	9	8	8	7
135.0	8	8	8	8	8	8	8	7	6	6
137.5	6	6	6	6	7	6	6	5	5	4
140.0	5	5	5	5	5	5	5	4	4	2
142.5	5	5	5	5	5	5	4	4	3	1
145.0	5	5	5	5	5	5	4	4	2	1
147.5	5	5	5	5	5	5	4	4	2	1
150.0	4	5	5	5	5	4	4	3	2	1
152.5	4	5	5	5	5	4	4	3	2	1
155.0	4	4	4	4	4	4	4	3	1	1
157.5	4	4	4	4	4	4	4	2	1	1
160.0	4	4	4	4	4	4	3	2	1	0
162.5	4	4	4	4	4	4	3	1	1	0
165.0	4	4	4	4	4	4	2	1	1	0
167.5	4	4	4	4	4	3	2	1	1	0
170.0	4	4	4	4	4	3	2	1	1	0
172.5	4	4	4	4	3	3	2	1	1	0
175.0	4	4	4	4	3	3	2	1	0	0
177.5	4	4	4	3	3	2	1	1	0	0
180.0	2	2	2	2	2	2	2	2	2	2

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

	<b>175</b>	<b>180</b>
0.0	1246	1246
2.5	1220	1230
5.0	1161	1173
7.5	1152	1142
10.0	1160	1134
12.5	1146	1129
15.0	980	978
17.5	745	742
20.0	694	695
22.5	694	707
25.0	748	772

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

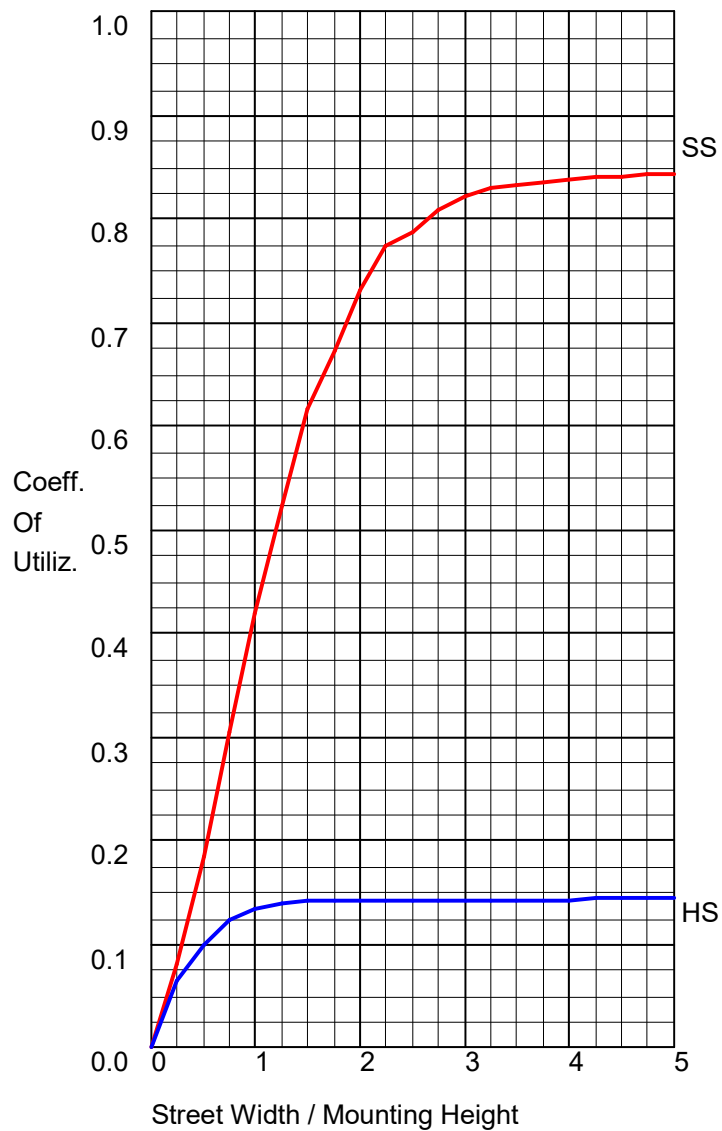
27.5	828	868
30.0	938	947
32.5	1097	1105
35.0	1168	1181
37.5	1152	1139
40.0	949	931
42.5	706	694
45.0	529	525
47.5	400	403
50.0	309	304
52.5	237	235
55.0	181	182
57.5	139	140
60.0	105	108
62.5	79	81
65.0	59	61
67.5	42	45
70.0	30	33
72.5	16	17
75.0	6	7
77.5	1	2
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	1	1
97.5	2	2
100.0	3	3
102.5	4	3
105.0	4	3
107.5	4	4
110.0	4	4
112.5	5	4
115.0	5	5
117.5	5	5
120.0	6	5
122.5	6	6
125.0	6	6
127.5	6	6
130.0	6	6
132.5	6	6
135.0	5	5
137.5	4	3
140.0	1	1
142.5	1	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.)**

<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>	2	2

### COEFFICIENTS OF UTILIZATION

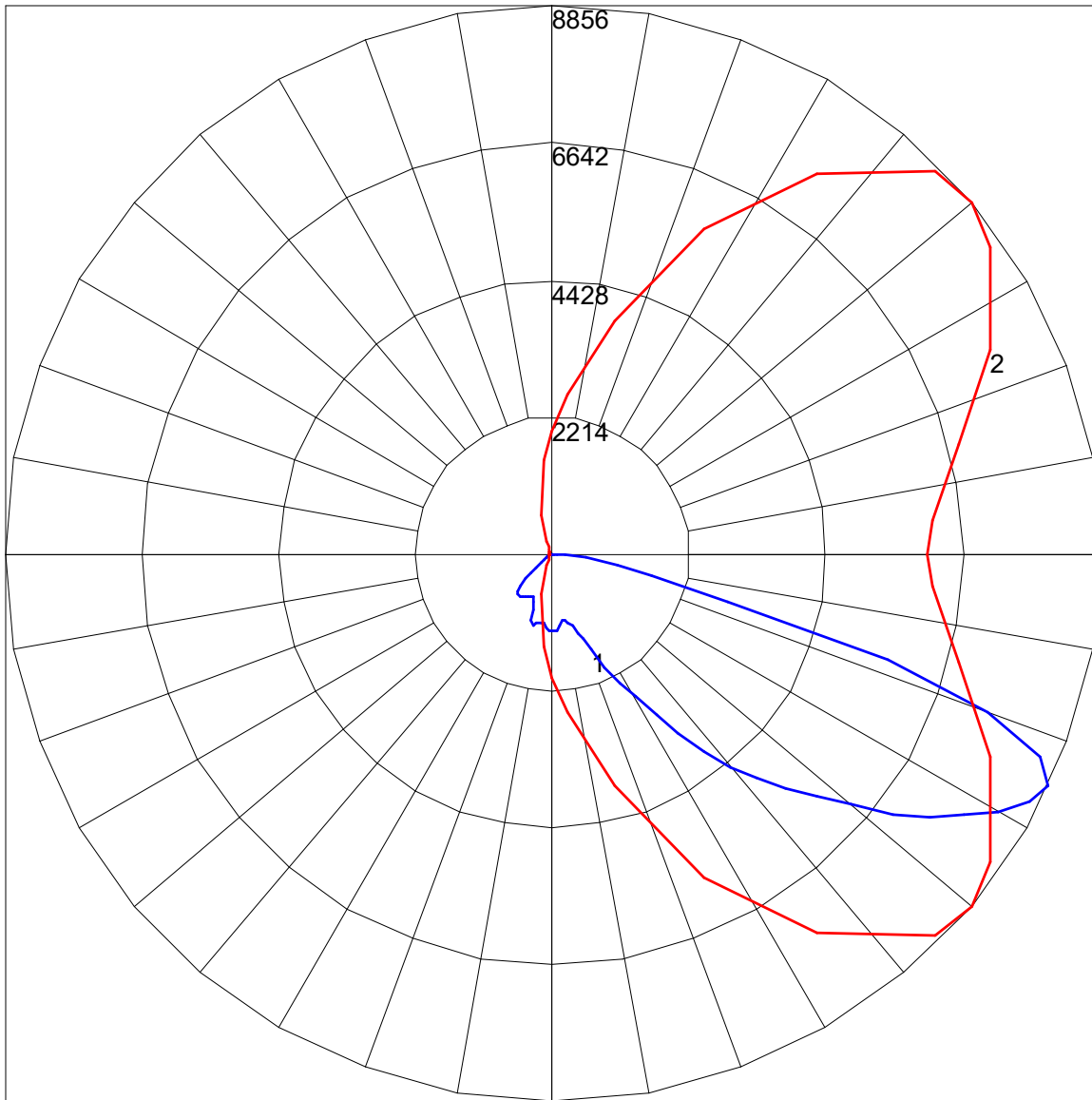


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	10721.4	85.3
Downward House Side	1811.7	14.4
Downward Total	12533.1	99.7
Upward Street Side	16.4	0.1
Upward House Side	20.5	0.2
Upward Total	36.9	0.3
Total Flux	12570.0	100.0

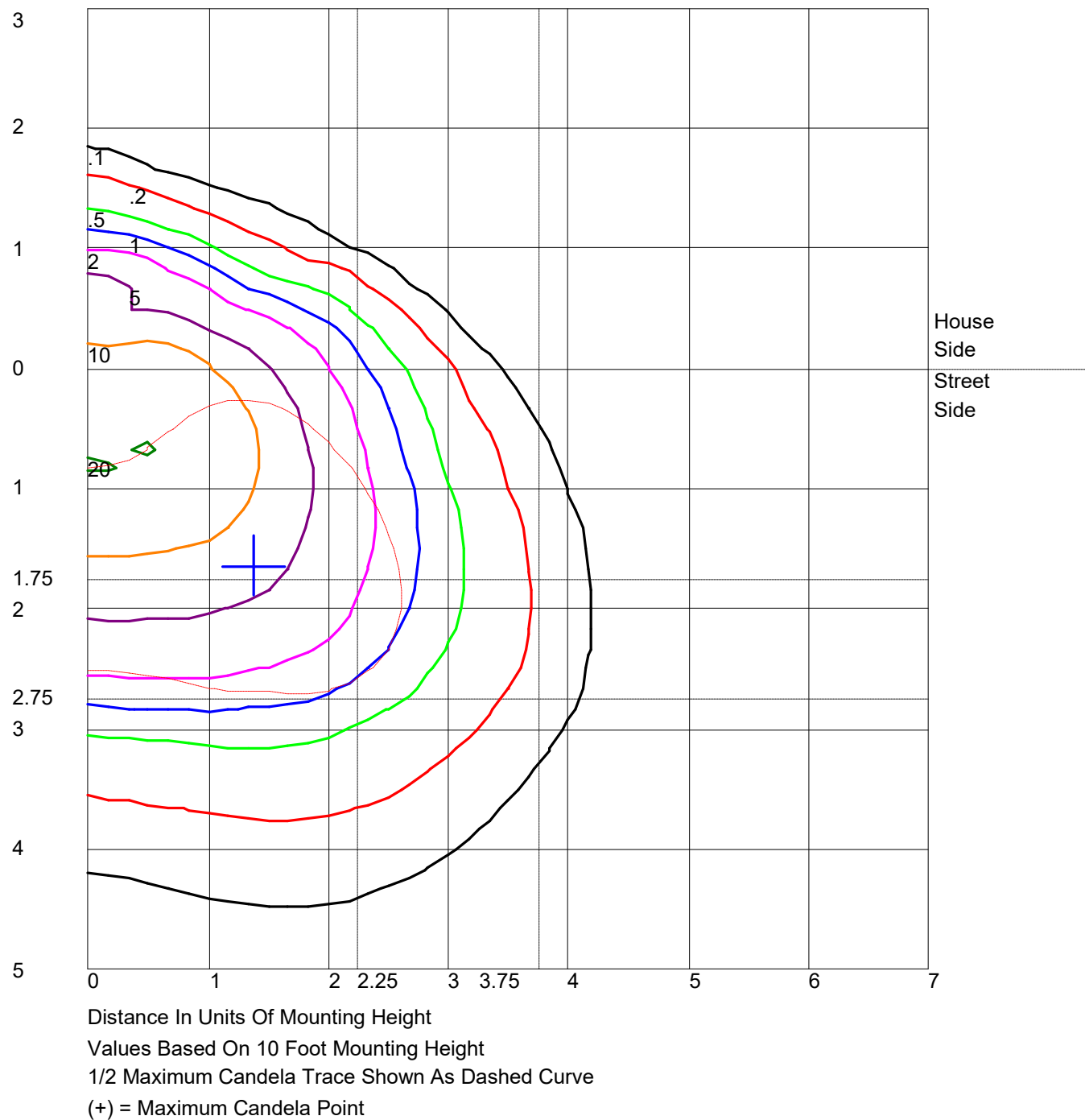


POLAR GRAPH

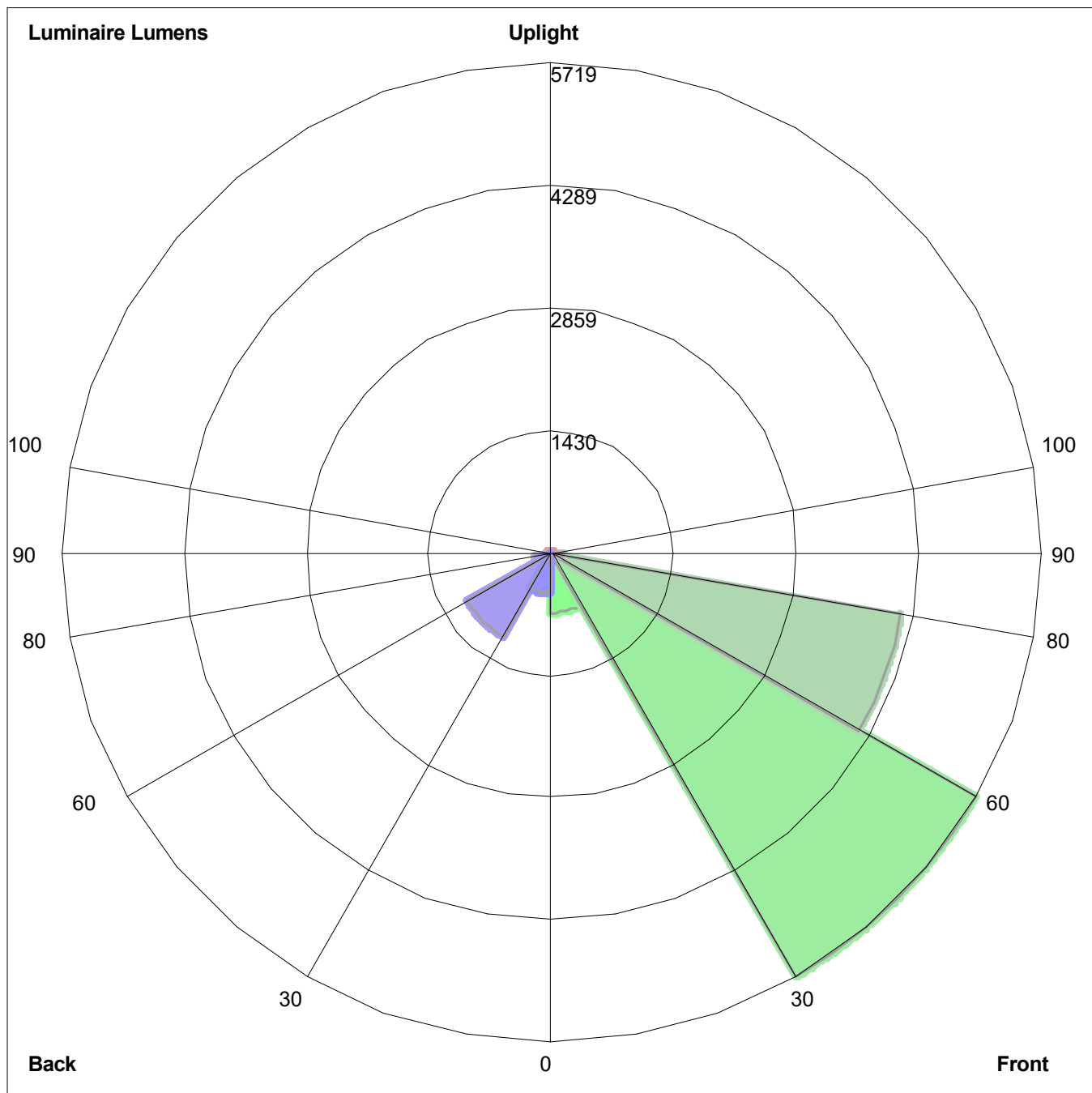


Maximum Candela = 8856 Located At Horizontal Angle = 40, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=703.0, Medium=5718.7, High= 4149.0, Very High=150.7  
Back: Low=478.3, Medium=1126.6, High=196.9, Very High=9.9  
Uplight: Low=9.0, High=27.8

BUG Rating : B2-U2-G2