



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-30.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11744

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-LED-25L-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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22952
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	228.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18313
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	18313
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	68 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1047 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1330.0	N.A.	5.8
FM - Front-Medium (30-60)	9702.6	N.A.	42.3
FH - Front-High (60-80)	3841.9	N.A.	16.7
FVH - Front-Very High (80-90)	118.4	N.A.	0.5
BL - Back-Low (0-30)	1121.6	N.A.	4.9
BM - Back-Medium (30-60)	5046.7	N.A.	22.0
BH - Back-High (60-80)	1618.4	N.A.	7.1
BVH - Back-Very High (80-90)	145.2	N.A.	0.6
UL - Uplight-Low (90-100)	7.5	N.A.	0.0
UH - Uplight-High (100-180)	19.8	N.A.	0.1
Total	22952.1	N.A.	100.0
BUG Rating	B4-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>80</b>
<b>0.0</b>	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896
<b>2.5</b>	1895	1884	1907	1953	1953	1947	1938	1926	1901	1870
<b>5.0</b>	1885	1919	1982	1959	2027	1888	1875	1839	1811	1806
<b>7.5</b>	1924	1967	2023	1936	1940	1897	1907	1980	1944	1892
<b>10.0</b>	1990	2023	2121	1925	2023	2053	2073	2070	2034	1971
<b>12.5</b>	2221	2277	2184	2154	2212	2161	2235	2178	2214	2190
<b>15.0</b>	2368	2437	2402	2446	2520	2403	2456	2428	2461	2337
<b>17.5</b>	2466	2553	2506	2576	2670	2741	2679	2727	2791	2682
<b>20.0</b>	2780	2855	2813	2811	2914	2980	3093	3037	3089	3055
<b>22.5</b>	3010	2972	3068	3140	3167	3239	3455	3420	3549	3580
<b>25.0</b>	3347	3266	3392	3441	3544	3557	3880	4033	4051	4065
<b>27.5</b>	3824	3906	3968	3845	3932	4000	4303	4713	4913	4836
<b>30.0</b>	4483	4371	4270	4350	4398	4585	4864	5526	5757	5669
<b>32.5</b>	5245	5382	4996	4779	5000	5098	5617	6579	6887	6760
<b>35.0</b>	6124	6051	5825	5625	5517	5855	6412	7573	8144	8071
<b>37.5</b>	7096	7060	6629	6408	6360	6552	7214	8450	8958	9082
<b>40.0</b>	7531	7568	7476	7333	7223	7295	7858	8849	9580	9661
<b>42.5</b>	7801	7805	7728	7820	7989	8093	8699	9170	9816	10009
<b>45.0</b>	7672	7745	7736	7934	8386	8838	9675	9822	10395	10701
<b>47.5</b>	7254	7291	7373	7693	8438	9307	10725	10832	11177	11687
<b>50.0</b>	6480	6535	6659	7054	8032	9338	11615	12195	12133	12742
<b>52.5</b>	5494	5570	5697	6164	7179	8963	12310	13549	13196	14176
<b>55.0</b>	4431	4428	4600	5103	6067	8037	12579	14909	14851	16031
<b>57.5</b>	3353	3325	3472	3975	4808	6731	12283	15647	16463	17529
<b>60.0</b>	2466	2459	2554	2879	3560	5185	10969	15575	17356	18313
<b>62.5</b>	1872	1861	1895	2116	2506	3659	9097	14427	17244	17841
<b>65.0</b>	1470	1487	1511	1632	1828	2390	6949	12456	15881	16002
<b>67.5</b>	1192	1212	1239	1329	1486	1652	4862	9745	13111	12991
<b>70.0</b>	934	969	987	1069	1233	1287	2958	6865	9782	9126
<b>72.5</b>	689	722	726	819	980	1035	1783	4301	5955	4844
<b>75.0</b>	451	474	465	551	706	831	1141	2639	2869	1947
<b>77.5</b>	333	364	302	329	432	613	781	1616	1405	925
<b>80.0</b>	335	370	268	225	260	396	510	1047	796	588
<b>82.5</b>	377	378	241	167	179	261	282	632	514	418
<b>85.0</b>	356	369	200	121	116	165	163	234	265	230
<b>87.5</b>	245	238	128	69	58	72	66	64	70	68
<b>90.0</b>	68	67	33	15	7	6	1	1	3	4
<b>92.5</b>	9	8	7	5	2	0	0	0	1	2
<b>95.0</b>	8	8	6	5	2	0	0	0	0	0
<b>97.5</b>	7	7	5	4	1	0	0	0	0	0
<b>100.0</b>	6	6	5	4	1	0	0	0	0	0
<b>102.5</b>	5	5	5	4	1	0	0	0	0	0
<b>105.0</b>	5	5	5	4	1	0	0	0	0	0
<b>107.5</b>	5	5	5	4	2	0	0	0	0	0
<b>110.0</b>	6	6	5	5	2	1	0	0	0	0
<b>112.5</b>	7	7	6	5	3	1	0	0	0	1
<b>115.0</b>	8	8	7	5	3	1	0	0	0	1
<b>117.5</b>	9	8	8	6	4	2	0	0	1	2
<b>120.0</b>	10	10	9	7	5	2	0	0	2	2
<b>122.5</b>	11	11	10	9	5	3	1	1	2	3
<b>125.0</b>	12	12	10	9	6	4	1	1	3	3
<b>127.5</b>	12	12	11	9	7	5	1	1	3	4
<b>130.0</b>	13	12	11	10	7	5	2	2	4	5

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**CANDELA TABULATION - (Cont.)**

132.5	13	13	12	10	7	5	2	2	4	5
135.0	12	12	10	9	6	4	1	1	3	4
137.5	6	6	5	4	3	1	0	0	0	1
140.0	2	2	2	1	0	0	0	0	0	0
142.5	2	1	2	1	0	0	0	0	0	0
145.0	2	1	1	0	0	0	0	0	0	0
147.5	2	1	1	0	0	0	0	0	0	0
150.0	2	1	1	0	0	0	0	0	0	0
152.5	2	1	1	0	0	0	0	0	0	0
155.0	2	2	1	0	0	0	0	0	0	0
157.5	2	1	1	0	0	0	0	0	0	0
160.0	2	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	1	0	0	0	0	0	0	0
170.0	1	1	1	0	0	0	0	0	0	0
172.5	1	1	1	0	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	2	1	1	1	0	0	0	0	0	0
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	1896	1896	1896	1896	1896	1896	1896	1896	1896	1896
2.5	1881	1885	1892	1892	1905	1899	1899	1896	1881	1852
5.0	1831	1820	1789	1775	1804	1765	1758	1775	1758	1738
7.5	1852	1880	1840	1851	1793	1689	1583	1637	1598	1641
10.0	1940	1900	1851	1928	1728	1674	1632	1584	1561	1620
12.5	2074	2059	2055	1968	1795	1707	1682	1753	1755	1874
15.0	2256	2238	2170	2030	1827	1827	1884	1983	2041	2066
17.5	2554	2446	2373	2159	1938	1995	2146	2195	2289	2359
20.0	2856	2812	2636	2291	2101	2221	2328	2496	2602	2671
22.5	3407	3197	3020	2589	2345	2452	2593	2846	2916	3102
25.0	3920	3778	3499	2831	2721	2756	2917	3063	3328	3542
27.5	4690	4358	4084	3244	3055	3047	3220	3440	3770	3953
30.0	5642	5104	4712	3636	3455	3469	3637	3859	4015	4187
32.5	6468	5968	5316	4097	3833	3836	3953	4028	4253	4497
35.0	7726	6963	6100	4593	4175	4179	4284	4232	4374	4574
37.5	8692	7997	6856	4997	4528	4400	4389	4418	4355	4631
40.0	9181	8620	7241	5427	4841	4546	4459	4373	4287	4373
42.5	9708	9111	7572	5654	4942	4605	4362	4287	4042	3997
45.0	10395	9678	7966	5855	5007	4498	4188	4015	3692	3600
47.5	11410	10457	8377	6069	5014	4305	3939	3718	3321	3210
50.0	12538	11237	8735	6187	4916	4104	3660	3379	2962	2857
52.5	13916	12001	9032	6160	4756	3800	3378	3087	2667	2525
55.0	15394	12498	9187	5931	4450	3464	3066	2812	2375	2214
57.5	16437	12533	8823	5502	4020	3063	2736	2546	2079	1929
60.0	16462	11764	7872	4800	3521	2665	2452	2276	1838	1702
62.5	15194	10358	6573	3975	2995	2298	2145	1997	1608	1481
65.0	12850	8378	4994	3115	2456	1933	1851	1728	1395	1247
67.5	9707	6069	3510	2293	1962	1593	1572	1469	1172	1073
70.0	6149	3762	2253	1643	1561	1325	1349	1218	1009	930
72.5	3013	1948	1500	1245	1285	1114	1145	1013	839	764
75.0	1207	1025	1010	976	1059	942	946	820	661	579
77.5	692	657	710	791	858	771	740	596	488	396

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**CANDELA TABULATION - (Cont.)**

80.0	505	447	463	627	673	582	498	389	421	335
82.5	348	264	278	487	485	363	300	293	453	386
85.0	188	130	145	305	256	210	210	253	435	368
87.5	58	40	49	88	89	93	103	133	256	262
90.0	3	1	4	10	18	25	26	18	5	9
92.5	2	0	3	9	17	23	22	16	5	7
95.0	1	0	3	8	15	18	17	12	5	6
97.5	0	0	3	6	12	14	13	9	4	5
100.0	0	0	3	5	9	10	8	7	4	5
102.5	0	1	3	5	7	7	5	5	4	5
105.0	0	1	3	4	5	5	5	5	4	5
107.5	0	2	3	4	5	5	5	5	5	5
110.0	0	2	3	4	5	5	5	5	5	5
112.5	1	2	3	4	5	5	5	5	5	5
115.0	1	3	3	5	6	5	5	5	5	6
117.5	2	3	4	5	6	6	6	6	6	7
120.0	3	4	5	6	7	7	7	7	7	8
122.5	4	5	5	6	8	8	8	8	8	9
125.0	5	5	6	7	8	8	9	9	9	10
127.5	5	6	6	7	7	8	8	9	10	11
130.0	5	6	6	7	8	8	9	9	11	12
132.5	5	5	6	7	8	8	9	9	11	12
135.0	4	5	5	5	6	7	7	8	9	11
137.5	1	2	2	3	4	4	5	5	6	6
140.0	0	0	0	0	1	2	3	4	5	4
142.5	0	0	0	0	1	2	3	4	4	4
145.0	0	0	0	0	1	2	3	4	4	4
147.5	0	0	0	0	1	2	3	4	4	4
150.0	0	0	0	0	1	2	3	4	5	4
152.5	0	0	0	0	1	2	3	4	4	3
155.0	0	0	0	0	1	2	3	4	4	3
157.5	0	0	0	0	1	2	3	4	4	3
160.0	0	0	0	0	0	1	2	3	3	3
162.5	0	0	0	0	0	1	2	3	3	2
165.0	0	0	0	0	0	1	2	3	3	2
167.5	0	0	0	0	0	1	2	3	3	3
170.0	0	0	0	0	0	0	1	2	3	2
172.5	0	0	0	0	0	0	1	2	2	2
175.0	0	0	0	0	0	0	1	2	2	2
177.5	0	0	0	0	0	0	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

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

	<b>175</b>	<b>180</b>
0.0	1896	1896
2.5	1830	1815
5.0	1679	1672
7.5	1621	1601
10.0	1665	1600
12.5	1922	1836
15.0	2221	2141
17.5	2528	2415
20.0	2907	2743
22.5	3203	3172
25.0	3680	3602

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-30.IES**

**CANDELA TABULATION - (Cont.)**

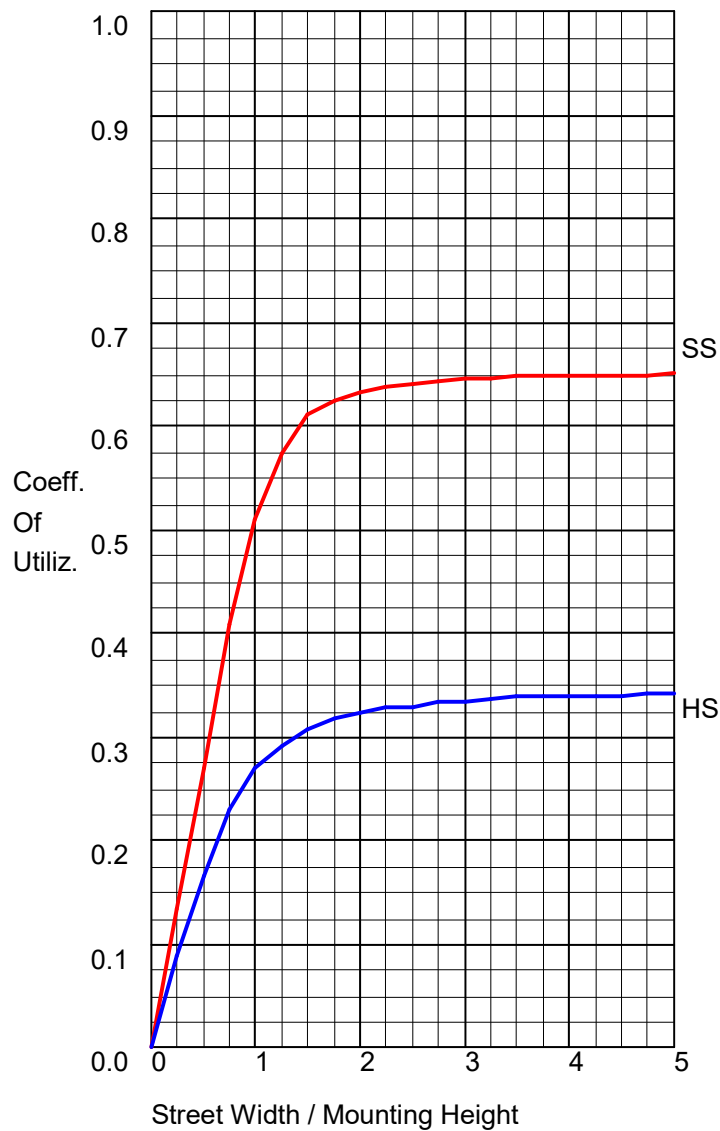
27.5	4049	4008
30.0	4344	4330
32.5	4668	4567
35.0	4699	4605
37.5	4750	4663
40.0	4378	4270
42.5	3996	3906
45.0	3554	3472
47.5	3152	3081
50.0	2798	2721
52.5	2471	2401
55.0	2153	2095
57.5	1884	1841
60.0	1660	1615
62.5	1456	1424
65.0	1272	1260
67.5	1152	1151
70.0	1029	1056
72.5	883	919
75.0	654	707
77.5	442	491
80.0	390	444
82.5	442	465
85.0	397	407
87.5	191	262
90.0	6	6
92.5	5	5
95.0	5	5
97.5	5	5
100.0	5	5
102.5	5	5
105.0	4	5
107.5	5	5
110.0	5	5
112.5	5	5
115.0	6	6
117.5	7	7
120.0	8	8
122.5	9	9
125.0	10	10
127.5	10	11
130.0	11	11
132.5	11	12
135.0	10	10
137.5	5	5
140.0	3	3
142.5	3	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	1
157.5	1	1
160.0	1	0
162.5	1	0
165.0	1	0

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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	<b>1</b>	<b>0</b>
<b>170.0</b>	<b>1</b>	<b>0</b>
<b>172.5</b>	<b>1</b>	<b>0</b>
<b>175.0</b>	<b>1</b>	<b>0</b>
<b>177.5</b>	<b>1</b>	<b>0</b>
<b>180.0</b>	<b>1</b>	<b>1</b>

### COEFFICIENTS OF UTILIZATION

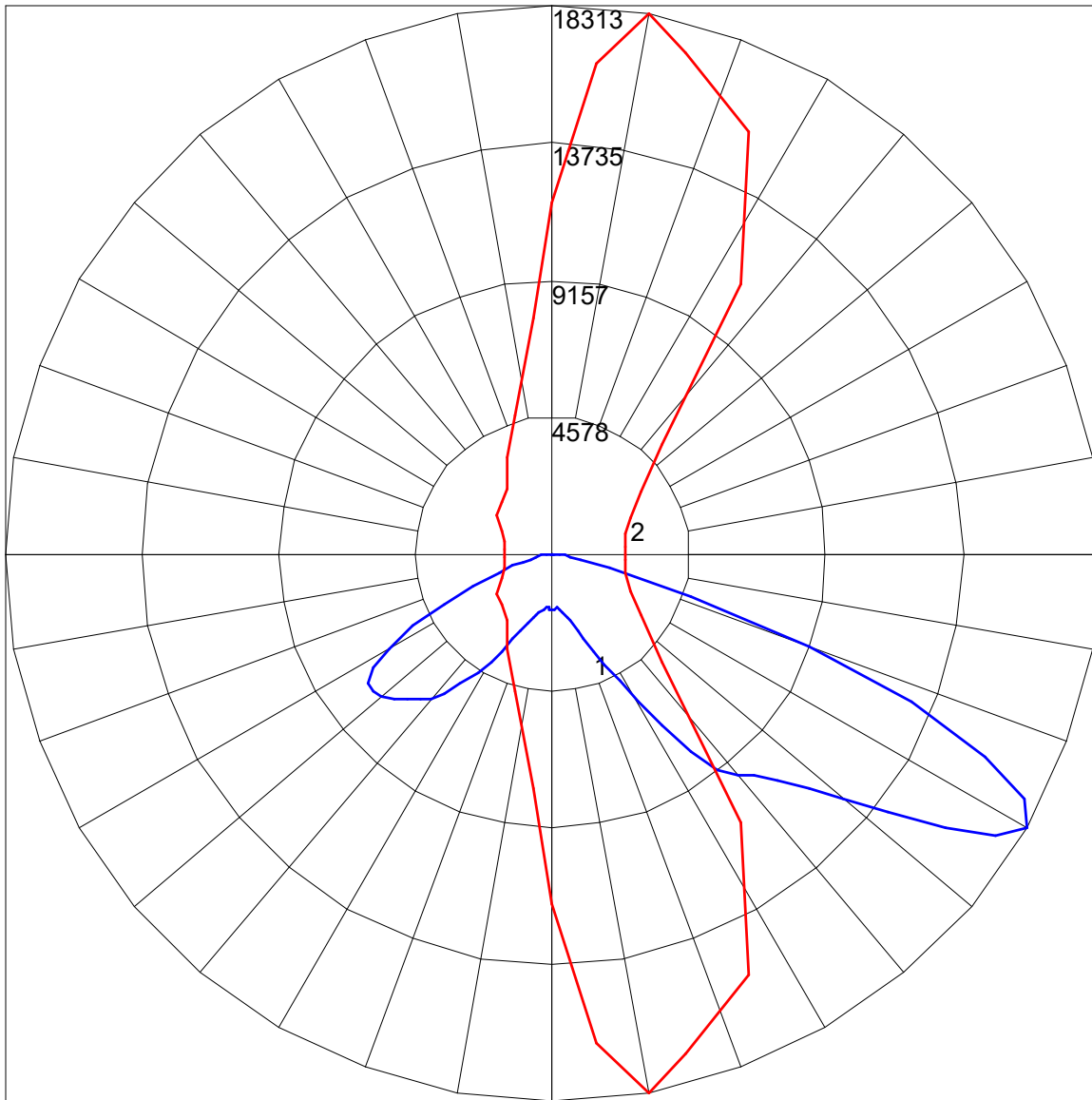


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	14992.8	65.3
Downward House Side	7931.9	34.6
Downward Total	22924.7	99.9
Upward Street Side	9.1	0.0
Upward House Side	18.3	0.1
Upward Total	27.4	0.1
Total Flux	22952.1	100.0

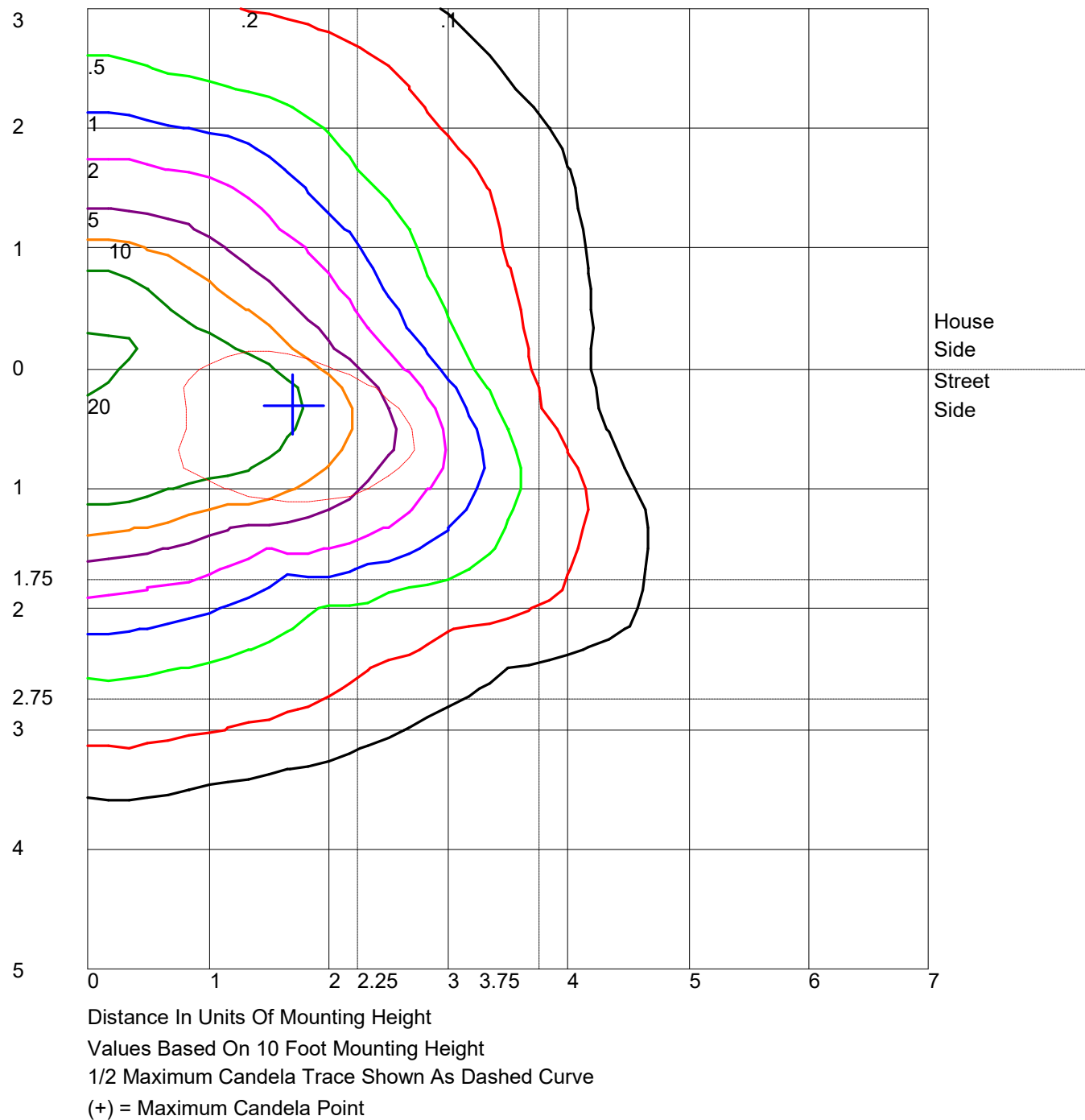


POLAR GRAPH

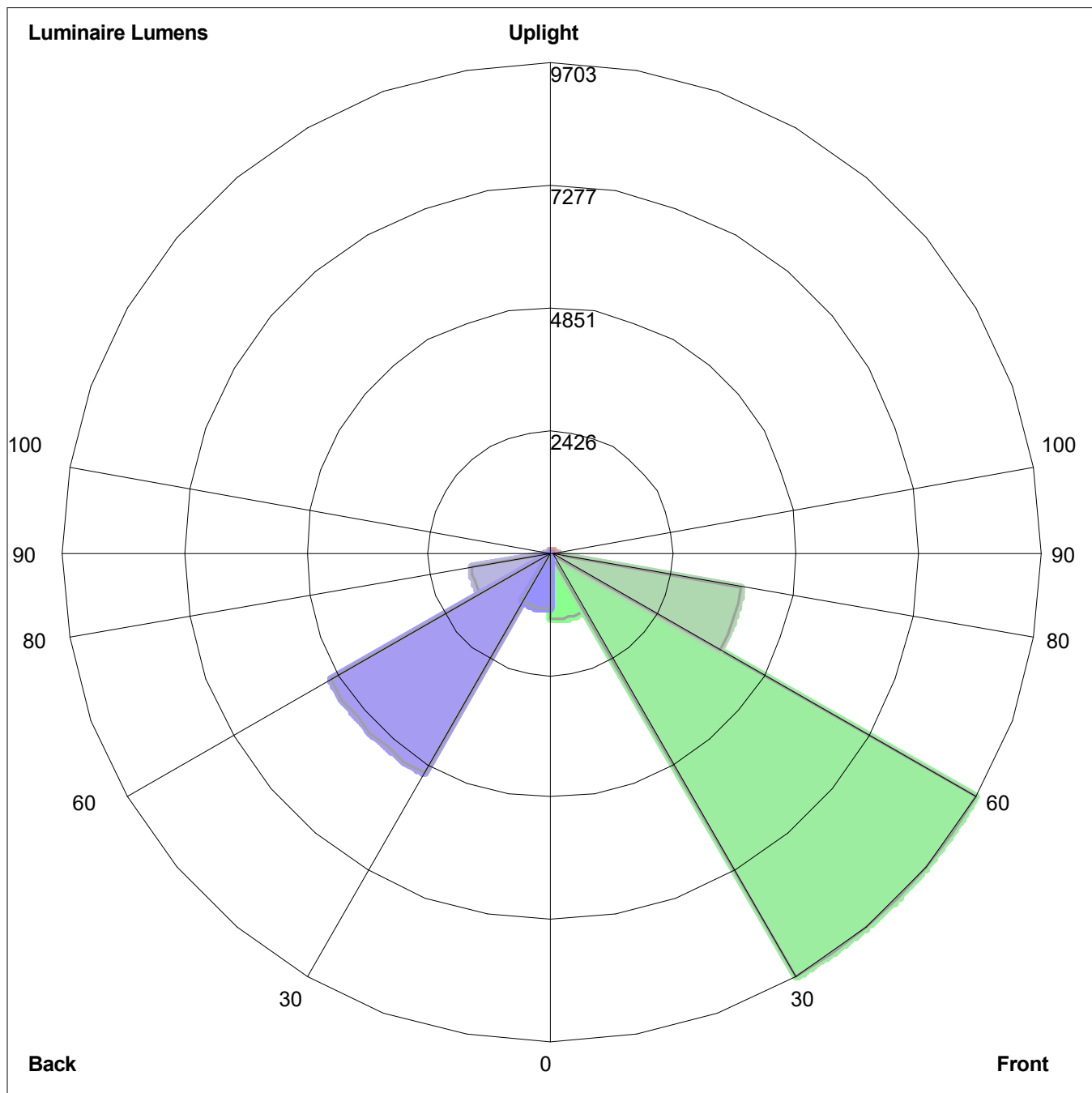


Maximum Candela = 18313 Located At Horizontal Angle = 80, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 1330.0, Medium=9702.6, High=3841.9, Very High=118.4  
Back: Low=1121.6, Medium=5046.7, High=1618.4, Very High=145.2  
Uplight: Low=7.5, High=19.8

BUG Rating : B4-U2-G3