



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-18L-30.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13255  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/07/22  
[TEST DATE] 02/14/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] XCN4-PT-3-LED-18L-30  
[OTHER] TEST PROCEDURE: IESNA LM-79-19  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 3000

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18562
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	149.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17313
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	17313
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	107 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1215 (6.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	600.5	N.A.	3.2
FM - Front-Medium (30-60)	7464.4	N.A.	40.2
FH - Front-High (60-80)	5845.1	N.A.	31.5
FVH - Front-Very High (80-90)	154.3	N.A.	0.8
BL - Back-Low (0-30)	589.0	N.A.	3.2
BM - Back-Medium (30-60)	2594.7	N.A.	14.0
BH - Back-High (60-80)	1162.7	N.A.	6.3
BVH - Back-Very High (80-90)	111.5	N.A.	0.6
UL - Uplight-Low (90-100)	14.3	N.A.	0.1
UH - Uplight-High (100-180)	26.0	N.A.	0.1
Total	18562.5	N.A.	100.0
BUG Rating	B3-U2-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	878	878	878	878	878	878	878	878	878	878
<b>2.5</b>	892	893	888	888	884	877	874	874	868	866
<b>5.0</b>	860	856	854	861	874	891	901	896	881	862
<b>7.5</b>	827	836	831	827	826	830	831	846	897	870
<b>10.0</b>	856	856	873	853	852	856	852	865	884	940
<b>12.5</b>	897	896	900	891	902	924	909	916	929	980
<b>15.0</b>	981	969	976	961	964	981	997	1012	985	1034
<b>17.5</b>	1108	1071	1088	1079	1084	1076	1083	1098	1082	1095
<b>20.0</b>	1288	1266	1225	1197	1220	1229	1232	1227	1216	1187
<b>22.5</b>	1484	1465	1458	1446	1394	1415	1422	1415	1386	1336
<b>25.0</b>	1757	1742	1713	1689	1726	1711	1709	1705	1666	1589
<b>27.5</b>	2099	2072	2096	2118	2147	2187	2113	2106	2101	1988
<b>30.0</b>	2557	2583	2564	2626	2746	2746	2665	2657	2658	2404
<b>32.5</b>	3070	3097	3166	3320	3395	3446	3368	3276	3140	2808
<b>35.0</b>	3563	3597	3735	3959	4105	4185	4053	3969	3598	3160
<b>37.5</b>	4041	4080	4281	4568	4802	4923	4723	4565	4068	3478
<b>40.0</b>	4461	4531	4773	5191	5490	5562	5324	5134	4433	3768
<b>42.5</b>	4935	5021	5307	5818	6205	6193	5921	5702	4821	4053
<b>45.0</b>	5662	5685	6009	6579	6896	6784	6477	6221	5160	4319
<b>47.5</b>	6621	6639	6987	7524	7684	7370	6955	6681	5502	4617
<b>50.0</b>	7916	7920	8252	8708	8633	8004	7427	7107	5826	5064
<b>52.5</b>	9558	9548	9817	10077	9832	8802	8015	7604	6319	5788
<b>55.0</b>	11088	11191	11472	11677	11142	9733	8703	8297	7111	6815
<b>57.5</b>	11719	11818	12287	12903	12680	11022	10014	9553	8519	7911
<b>60.0</b>	10818	10939	12038	13169	13938	12924	12265	11962	10068	8903
<b>62.5</b>	6778	7122	8831	11844	14308	14920	15018	14549	11456	9519
<b>65.0</b>	3112	3295	4417	7522	12270	15513	17163	16729	12139	9639
<b>67.5</b>	1709	1793	2170	3348	7810	13726	17313	17312	12377	8514
<b>70.0</b>	1030	1077	1320	1957	3665	9665	14773	15659	10920	5617
<b>72.5</b>	669	702	906	1332	2311	5116	10096	11258	6628	2408
<b>75.0</b>	481	506	677	1036	1663	2605	5191	5957	2753	863
<b>77.5</b>	348	359	511	860	1380	1633	2186	2590	1225	468
<b>80.0</b>	236	244	385	672	1161	1105	1072	1215	657	289
<b>82.5</b>	164	176	276	465	850	703	563	555	404	217
<b>85.0</b>	134	143	202	343	434	357	267	263	241	147
<b>87.5</b>	134	160	139	220	219	100	108	117	103	85
<b>90.0</b>	33	52	37	34	27	26	29	30	32	28
<b>92.5</b>	5	5	5	6	9	17	25	27	30	27
<b>95.0</b>	3	3	4	5	7	15	22	24	27	26
<b>97.5</b>	3	2	3	5	6	13	17	19	24	23
<b>100.0</b>	3	2	3	5	5	8	12	13	17	18
<b>102.5</b>	2	2	3	5	5	5	6	7	12	14
<b>105.0</b>	2	2	3	4	5	5	5	5	6	8
<b>107.5</b>	2	2	3	4	4	5	5	5	5	6
<b>110.0</b>	2	2	3	4	4	4	5	5	5	5
<b>112.5</b>	2	2	3	4	4	4	5	4	5	5
<b>115.0</b>	2	2	3	4	4	4	4	4	5	5
<b>117.5</b>	2	2	3	4	4	4	4	4	5	5
<b>120.0</b>	2	2	3	4	4	4	4	5	5	5
<b>122.5</b>	3	2	3	4	4	4	5	5	5	5
<b>125.0</b>	3	3	3	4	4	4	5	5	5	5
<b>127.5</b>	3	3	3	4	4	5	5	5	5	5
<b>130.0</b>	4	3	3	4	4	5	5	5	5	5

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**CANDELA TABULATION - (Cont.)**

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

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	878	878	878	878	878	878	878	878	878	878
2.5	872	875	873	867	880	893	901	911	913	911
5.0	850	859	859	871	900	947	953	915	901	904
7.5	858	857	866	902	952	903	889	906	916	932
10.0	890	874	896	980	952	941	960	993	1015	1009
12.5	948	934	957	1026	991	1027	1055	1073	1068	1103
15.0	998	983	1023	1070	1060	1124	1133	1143	1180	1232
17.5	1068	1037	1068	1120	1149	1190	1216	1272	1324	1351
20.0	1155	1109	1121	1171	1238	1270	1325	1390	1461	1526
22.5	1270	1195	1204	1227	1316	1374	1431	1537	1664	1743
25.0	1465	1352	1313	1303	1388	1464	1542	1730	1867	1956
27.5	1770	1536	1453	1352	1477	1542	1691	1896	2155	2205
30.0	2038	1741	1591	1412	1508	1630	1816	2121	2408	2524
32.5	2270	1881	1684	1424	1547	1691	1921	2287	2793	2942
35.0	2481	2009	1757	1418	1538	1746	1987	2474	3165	3387
37.5	2674	2125	1823	1406	1516	1758	1994	2539	3545	3823
40.0	2857	2234	1885	1393	1500	1769	1980	2567	3990	4131
42.5	3035	2333	1938	1389	1469	1750	1938	2545	4413	4194
45.0	3238	2444	1993	1381	1433	1720	1908	2486	4747	3981
47.5	3521	2579	2053	1386	1397	1683	1871	2378	4708	3761
50.0	3945	2771	2127	1392	1353	1641	1833	2280	4414	3550
52.5	4488	2985	2191	1386	1306	1589	1777	2161	3956	3332
55.0	5026	3225	2266	1363	1249	1514	1724	2021	3442	3122
57.5	5559	3524	2330	1302	1184	1415	1632	1881	2927	2907
60.0	6144	3767	2224	1213	1109	1304	1519	1744	2438	2678
62.5	6655	3713	1866	1098	1052	1191	1399	1594	2010	2482
65.0	6457	3242	1422	982	985	1083	1260	1460	1699	2283
67.5	4906	2276	1050	863	916	992	1136	1360	1472	2036
70.0	2686	1205	702	719	808	879	1021	1249	1295	1758
72.5	868	516	446	569	688	756	894	1110	1136	1449
75.0	457	323	340	460	574	650	766	905	894	1109
77.5	250	209	263	371	474	558	644	498	497	706

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**CANDELA TABULATION - (Cont.)**

80.0	184	160	213	305	383	405	456	340	293	418
82.5	138	115	167	246	295	231	245	238	196	288
85.0	92	74	123	185	164	148	144	133	105	198
87.5	50	34	80	97	85	74	62	72	56	111
90.0	19	6	23	21	19	17	15	30	13	31
92.5	18	6	14	13	13	11	9	5	4	1
95.0	18	7	14	14	14	12	10	6	4	2
97.5	17	7	14	14	14	13	10	6	4	2
100.0	15	7	12	13	14	13	11	6	5	2
102.5	12	6	10	12	13	12	11	7	5	3
105.0	8	6	9	10	12	12	10	7	5	3
107.5	7	6	8	9	11	11	10	7	5	3
110.0	6	6	7	8	10	10	9	7	5	3
112.5	6	6	7	8	9	9	9	7	5	3
115.0	6	6	7	8	9	9	8	7	5	3
117.5	6	6	7	8	9	9	8	6	5	3
120.0	6	6	7	8	9	9	8	6	5	3
122.5	6	6	7	8	9	10	9	7	5	4
125.0	6	6	7	8	10	10	9	7	5	4
127.5	6	6	7	8	10	10	10	7	5	4
130.0	6	6	7	8	10	10	9	7	5	4
132.5	6	6	7	8	9	10	9	7	5	4
135.0	6	6	7	8	9	9	8	6	5	4
137.5	5	6	6	7	8	8	8	6	5	3
140.0	5	6	6	7	8	8	7	5	5	3
142.5	5	5	6	6	7	7	6	5	4	2
145.0	5	5	5	5	6	6	5	4	3	1
147.5	5	5	5	5	5	5	5	3	1	0
150.0	4	5	5	5	5	5	4	3	1	0
152.5	4	5	5	5	5	5	4	2	1	0
155.0	4	5	5	5	5	5	4	2	0	0
157.5	4	4	4	5	5	4	3	2	0	0
160.0	4	4	4	4	4	4	3	1	0	0
162.5	3	4	4	4	4	3	3	1	0	0
165.0	3	4	4	4	4	3	3	1	0	0
167.5	3	4	4	4	4	4	3	1	0	0
170.0	4	4	4	4	4	4	3	1	0	0
172.5	4	4	4	4	4	4	3	1	0	0
175.0	3	4	4	4	4	4	3	1	0	0
177.5	3	4	4	4	4	3	3	1	0	0
180.0	2	2	2	2	2	2	2	2	2	2

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

	<u>175.0</u>	<u>180.0</u>
0.0	878	878
2.5	907	903
5.0	901	906
7.5	940	938
10.0	1025	1010
12.5	1100	1108
15.0	1228	1227
17.5	1377	1391
20.0	1580	1595
22.5	1777	1756
25.0	1982	1999

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

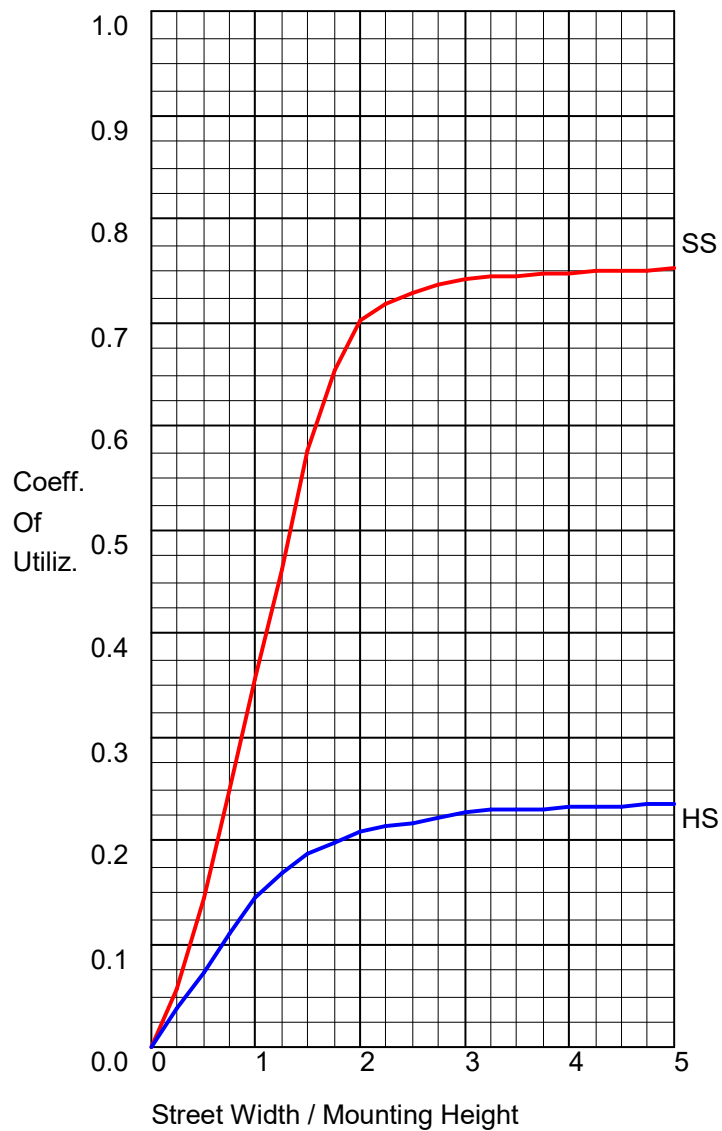
27.5	2183	2168
30.0	2469	2445
32.5	2770	2712
35.0	3048	2965
37.5	3159	3042
40.0	3055	2881
42.5	2714	2546
45.0	2477	2320
47.5	2310	2166
50.0	2196	2050
52.5	2117	1948
55.0	2063	1866
57.5	2026	1801
60.0	2019	1763
62.5	2069	1807
65.0	2125	1883
67.5	2148	1979
70.0	2086	2047
72.5	1808	1850
75.0	1276	1427
77.5	1013	1177
80.0	775	898
82.5	573	613
85.0	446	477
87.5	670	787
90.0	90	107
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	1	0
110.0	1	0
112.5	1	0
115.0	1	0
117.5	1	1
120.0	1	1
122.5	2	1
125.0	2	2
127.5	3	2
130.0	3	2
132.5	3	3
135.0	3	2
137.5	2	2
140.0	2	2
142.5	1	1
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>	2	2

### COEFFICIENTS OF UTILIZATION

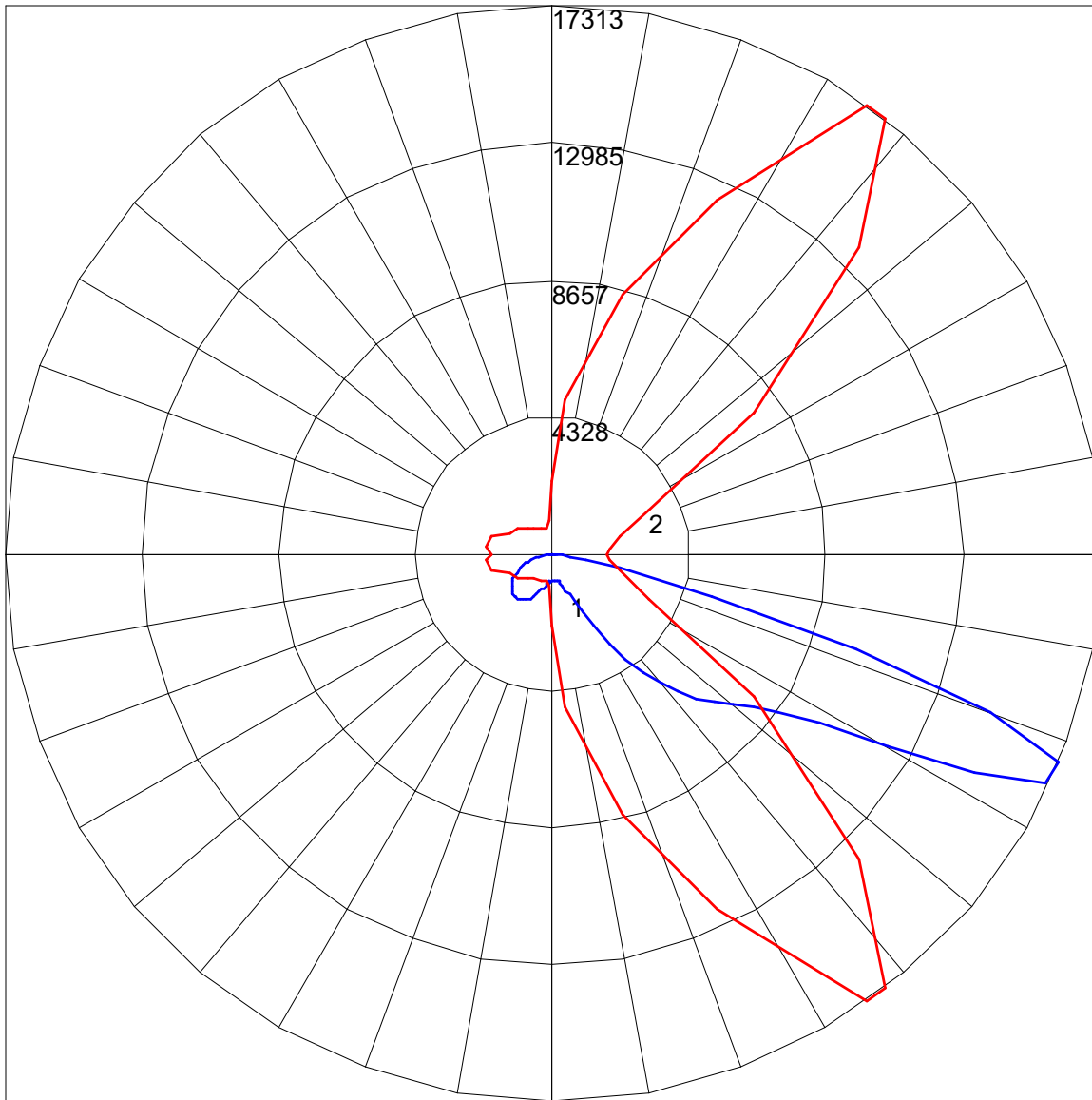


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	14064.3	75.8
Downward House Side	4457.9	24.0
Downward Total	18522.2	99.8
Upward Street Side	19.5	0.1
Upward House Side	20.8	0.1
Upward Total	40.3	0.2
Total Flux	18562.5	100.0

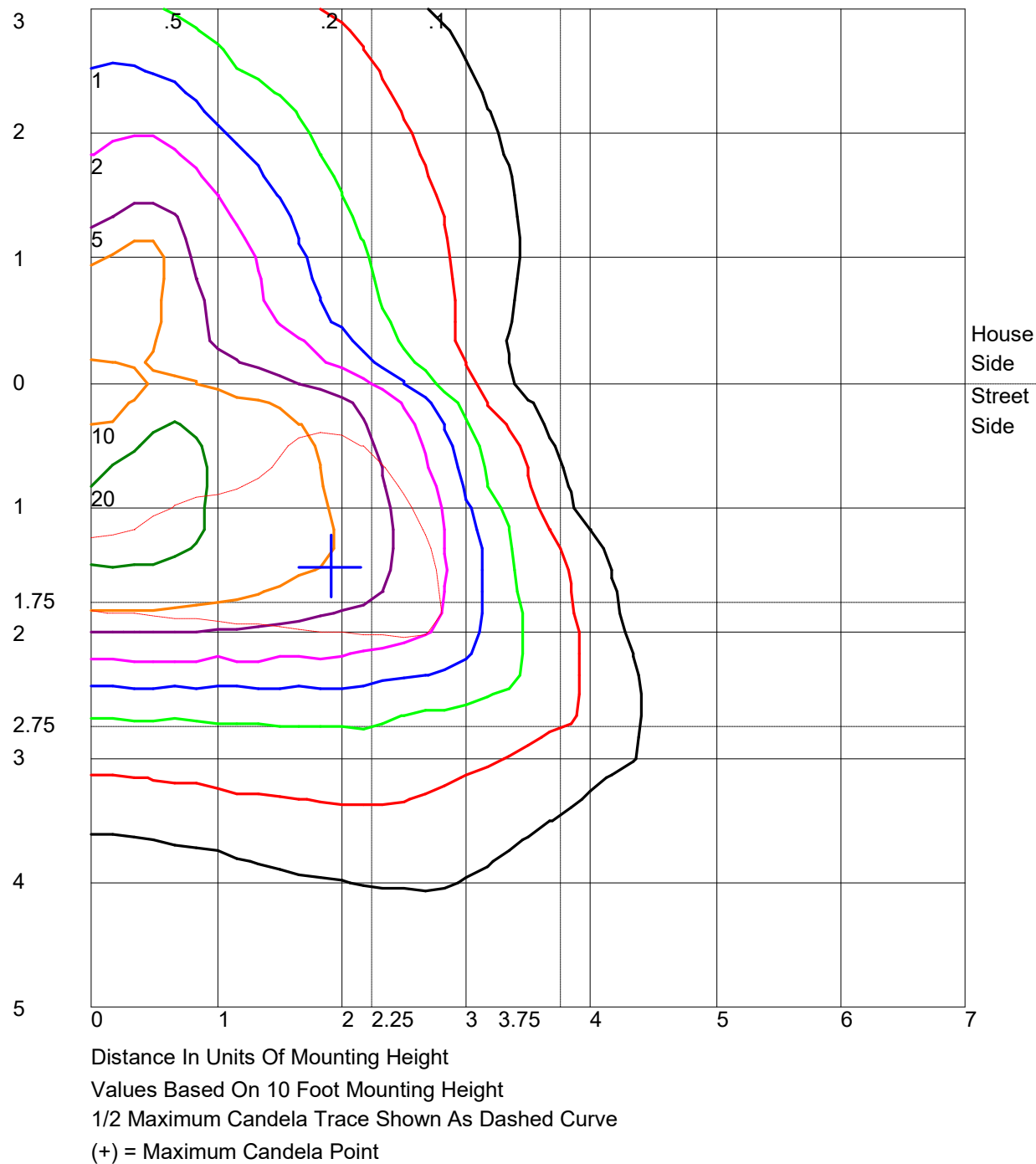


POLAR GRAPH

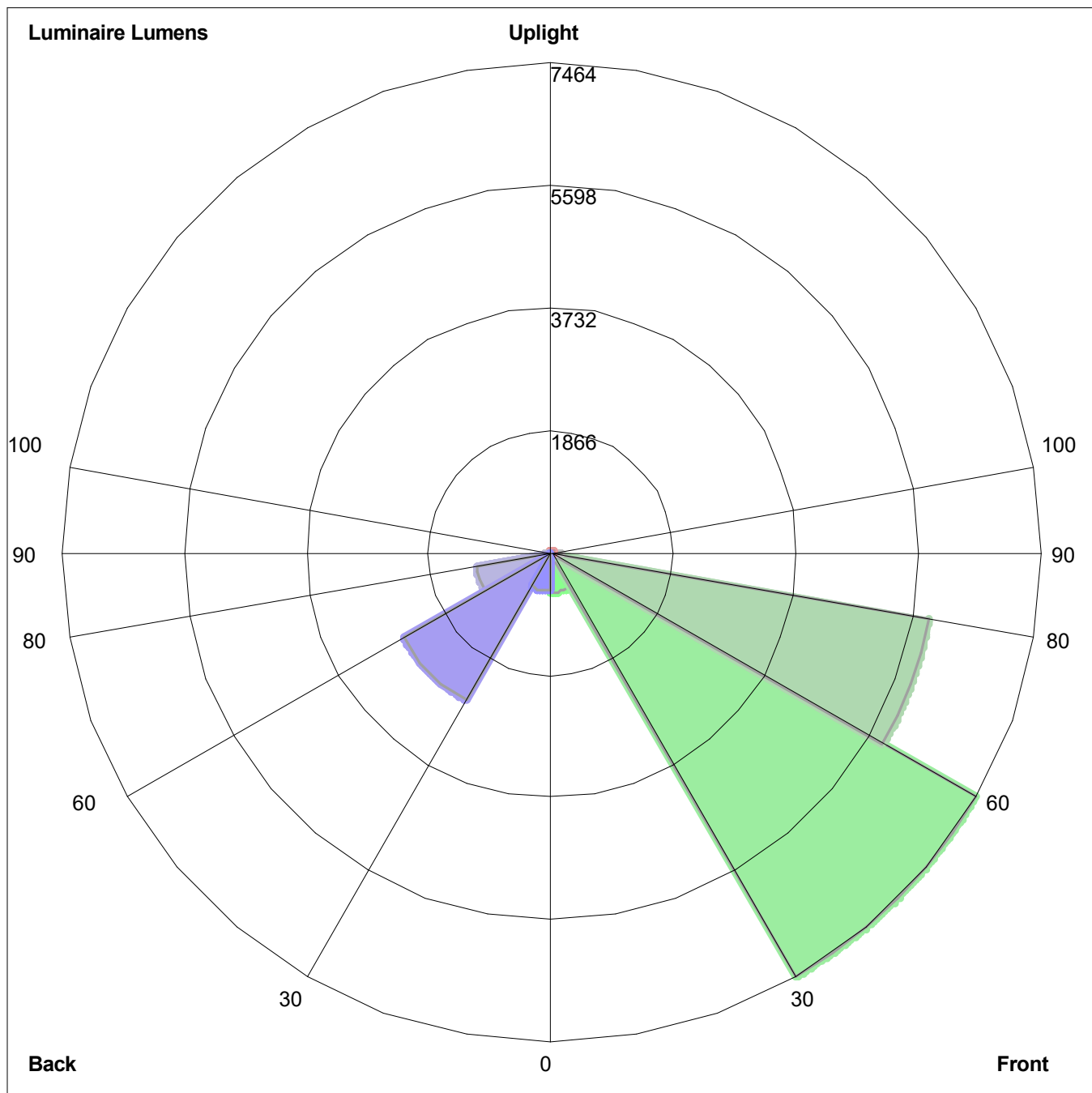


Maximum Candela = 17313 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=600.5, Medium=7464.4, High=5845.1, Very High=154.3  
Back: Low=589.0, Medium=2594.7, High=1162.7, Very High=111.5  
Uplight: Low=14.3, High=26.0

BUG Rating : B3-U2-G3