



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-10L-40.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-10L-40  
[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] 4000

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10634
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9918
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	9918
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	61 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	695 (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)	344.0	N.A.	3.2
FM - Front-Medium (30-60)	4276.1	N.A.	40.2
FH - Front-High (60-80)	3348.4	N.A.	31.5
FVH - Front-Very High (80-90)	88.3	N.A.	0.8
BL - Back-Low (0-30)	337.5	N.A.	3.2
BM - Back-Medium (30-60)	1486.3	N.A.	14.0
BH - Back-High (60-80)	666.0	N.A.	6.3
BVH - Back-Very High (80-90)	64.0	N.A.	0.6
UL - Uplight-Low (90-100)	8.2	N.A.	0.1
UH - Uplight-High (100-180)	15.3	N.A.	0.1
Total	10634.1	N.A.	100.0
BUG Rating	B2-U2-G2		

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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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	503	503	503	503	503	503	503	503	503	503
2.5	511	512	509	509	506	503	501	501	497	496
5.0	493	490	489	493	501	511	516	514	505	494
7.5	474	479	476	474	473	475	476	485	514	498
10.0	490	490	500	489	488	490	488	496	507	539
12.5	514	514	516	511	517	530	521	525	533	561
15.0	562	554	559	551	552	562	571	579	564	592
17.5	635	614	623	618	621	616	620	629	620	627
20.0	738	725	701	685	699	704	706	702	696	680
22.5	850	839	835	828	798	810	814	810	794	766
25.0	1007	998	981	968	989	980	979	977	954	911
27.5	1202	1186	1201	1213	1230	1253	1210	1207	1203	1139
30.0	1465	1480	1469	1505	1573	1573	1527	1523	1523	1377
32.5	1759	1775	1813	1901	1945	1974	1929	1877	1798	1609
35.0	2041	2061	2140	2268	2352	2397	2322	2273	2061	1810
37.5	2315	2337	2452	2617	2751	2820	2706	2615	2331	1993
40.0	2555	2596	2734	2974	3144	3186	3050	2941	2539	2158
42.5	2827	2876	3040	3333	3555	3548	3392	3266	2761	2322
45.0	3244	3256	3443	3769	3951	3886	3710	3564	2956	2474
47.5	3793	3803	4002	4310	4402	4223	3985	3827	3151	2645
50.0	4535	4537	4727	4988	4946	4586	4254	4071	3338	2900
52.5	5475	5469	5624	5773	5632	5042	4592	4355	3620	3316
55.0	6352	6411	6571	6689	6383	5576	4985	4753	4074	3904
57.5	6713	6770	7039	7392	7264	6314	5736	5472	4880	4532
60.0	6196	6267	6896	7544	7985	7404	7026	6852	5767	5100
62.5	3882	4080	5059	6785	8196	8547	8603	8335	6563	5453
65.0	1782	1888	2530	4309	7029	8887	9832	9583	6954	5522
67.5	979	1027	1243	1917	4475	7863	9918	9917	7090	4877
70.0	590	617	756	1121	2100	5537	8463	8970	6256	3218
72.5	383	402	519	763	1324	2930	5784	6449	3797	1380
75.0	276	290	388	593	952	1492	2974	3412	1577	495
77.5	199	206	293	493	791	935	1252	1484	701	268
80.0	135	140	220	385	665	633	614	695	376	166
82.5	94	100	159	266	487	403	322	318	231	124
85.0	77	81	116	196	248	204	153	151	138	84
87.5	77	91	79	126	125	58	61	67	60	49
90.0	19	30	21	20	16	15	17	17	18	16
92.5	3	3	3	4	5	10	14	15	17	15
95.0	2	2	2	3	4	8	13	14	16	15
97.5	2	1	2	3	4	7	10	11	14	13
100.0	2	1	2	3	3	5	7	7	10	11
102.5	1	1	2	3	3	3	4	4	7	8
105.0	1	1	2	2	3	3	3	3	4	5
107.5	1	1	2	2	2	3	3	3	3	4
110.0	1	1	2	2	2	2	3	3	3	3
112.5	1	1	2	2	2	2	3	2	3	3
115.0	1	1	2	2	2	2	2	2	3	3
117.5	1	1	2	2	2	2	2	2	3	3
120.0	1	1	2	2	2	2	2	3	3	3
122.5	2	1	2	2	2	2	3	3	3	3
125.0	2	2	2	2	2	2	3	3	3	3
127.5	2	2	2	2	2	3	3	3	3	3
130.0	2	2	2	2	2	3	3	3	3	3

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

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

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	503	503	503	503	503	503	503	503	503	503
2.5	499	502	500	497	504	512	516	522	523	522
5.0	487	492	492	499	516	543	546	524	516	518
7.5	491	491	496	517	546	517	509	519	525	534
10.0	510	501	514	561	546	540	551	569	581	578
12.5	544	535	549	588	568	588	604	615	612	632
15.0	571	563	586	613	607	644	649	655	675	706
17.5	612	594	612	642	658	681	696	729	759	774
20.0	662	635	643	671	709	728	759	797	837	874
22.5	727	684	689	703	754	787	819	880	953	999
25.0	839	775	752	747	796	839	884	991	1069	1120
27.5	1014	880	832	775	846	884	969	1086	1235	1264
30.0	1167	997	912	809	864	933	1041	1215	1380	1445
32.5	1300	1078	964	815	886	969	1100	1310	1600	1685
35.0	1421	1151	1007	812	881	1000	1138	1417	1813	1940
37.5	1533	1217	1044	805	868	1007	1143	1454	2030	2190
40.0	1637	1280	1080	798	859	1014	1135	1471	2285	2367
42.5	1739	1337	1110	796	841	1003	1110	1458	2528	2402
45.0	1855	1400	1142	792	821	985	1093	1424	2720	2280
47.5	2018	1478	1176	794	800	964	1072	1362	2697	2154
50.0	2260	1588	1219	797	775	940	1050	1306	2528	2033
52.5	2571	1710	1255	794	748	911	1018	1238	2267	1908
55.0	2880	1848	1297	781	716	867	988	1158	1972	1788
57.5	3185	2019	1334	746	678	810	934	1078	1676	1665
60.0	3519	2157	1274	694	635	747	870	999	1397	1534
62.5	3812	2128	1069	629	602	682	801	914	1152	1422
65.0	3699	1857	814	562	564	620	722	836	973	1307
67.5	2810	1303	601	495	525	568	651	779	843	1166
70.0	1538	690	403	412	462	504	585	716	742	1007
72.5	497	296	256	326	394	432	512	636	651	830
75.0	262	184	195	264	329	373	439	518	512	636
77.5	143	120	151	212	272	319	369	286	285	405

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**CANDELA TABULATION - (Cont.)**

80.0	105	91	122	175	219	232	262	195	168	239
82.5	79	66	96	141	170	133	141	136	112	165
85.0	53	43	70	106	94	85	82	76	61	114
87.5	29	20	46	56	49	43	36	42	32	63
90.0	11	4	13	12	11	10	8	17	7	18
92.5	11	4	8	7	7	6	5	3	2	1
95.0	11	4	8	8	8	7	6	4	2	1
97.5	10	4	8	8	8	7	6	4	2	1
100.0	8	4	7	7	8	7	6	4	3	1
102.5	7	4	6	7	7	7	6	4	3	2
105.0	5	4	5	6	7	7	6	4	3	2
107.5	4	4	5	5	6	6	6	4	3	2
110.0	4	4	4	5	6	6	5	4	3	2
112.5	4	4	4	5	5	5	5	4	3	2
115.0	4	4	4	5	5	5	5	4	3	2
117.5	4	4	4	5	5	5	5	4	3	2
120.0	4	4	4	5	5	5	5	4	3	2
122.5	4	4	4	5	5	6	5	4	3	2
125.0	4	4	4	5	6	6	5	4	3	2
127.5	4	4	4	5	6	6	6	4	3	2
130.0	4	4	4	5	6	6	5	4	3	2
132.5	4	4	4	5	5	6	5	4	3	2
135.0	4	4	4	5	5	5	5	4	3	2
137.5	3	4	4	4	5	5	5	4	3	2
140.0	3	4	4	4	5	5	4	3	3	2
142.5	3	3	4	4	4	4	4	3	2	1
145.0	3	3	3	3	4	4	3	2	2	1
147.5	3	3	3	3	3	3	3	2	1	0
150.0	2	3	3	3	3	3	2	2	1	0
152.5	2	3	3	3	3	3	2	1	1	0
155.0	2	3	3	3	3	3	2	1	0	0
157.5	2	2	2	3	3	2	2	1	0	0
160.0	2	2	2	2	2	2	2	1	0	0
162.5	2	2	2	2	2	2	2	1	0	0
165.0	2	2	2	2	2	2	2	1	0	0
167.5	2	2	2	2	2	2	2	1	0	0
170.0	2	2	2	2	2	2	2	1	0	0
172.5	2	2	2	2	2	2	2	1	0	0
175.0	2	2	2	2	2	2	2	1	0	0
177.5	2	2	2	2	2	2	2	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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

	<u>175.0</u>	<u>180.0</u>
0.0	503	503
2.5	520	517
5.0	516	519
7.5	539	538
10.0	587	578
12.5	630	635
15.0	703	703
17.5	789	797
20.0	905	914
22.5	1018	1006
25.0	1136	1145

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-3-LED-10L-40.IES**

**CANDELA TABULATION - (Cont.)**

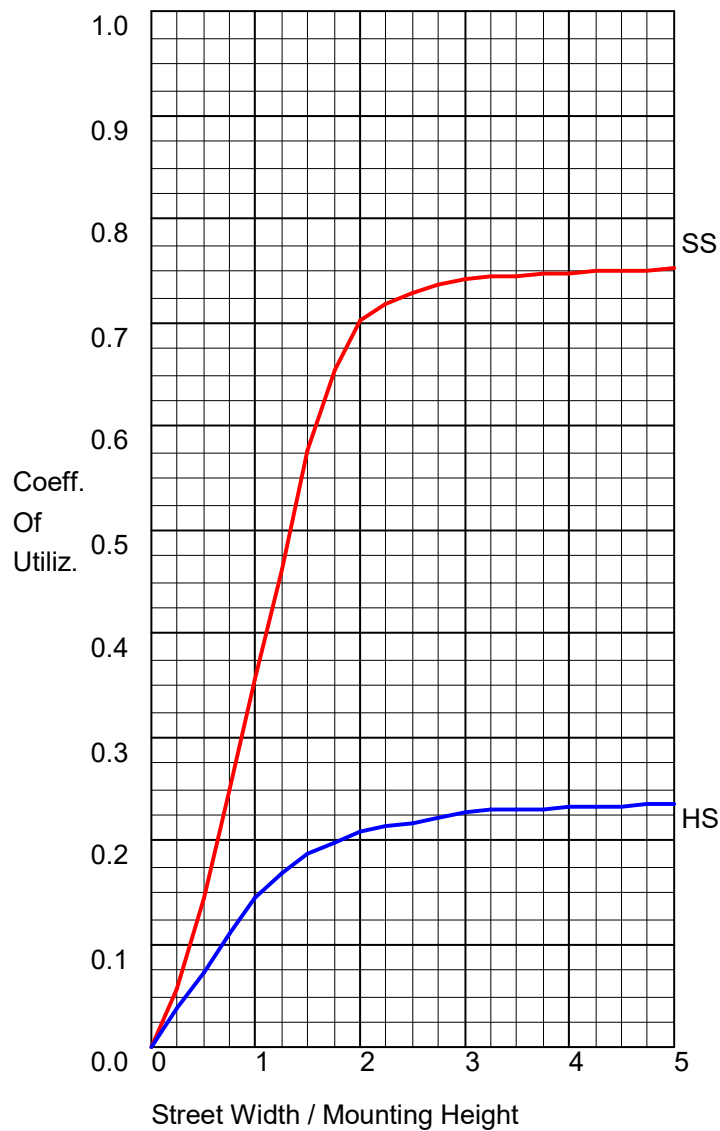
<b>27.5</b>	1251	1242
<b>30.0</b>	1414	1401
<b>32.5</b>	1586	1553
<b>35.0</b>	1746	1699
<b>37.5</b>	1810	1743
<b>40.0</b>	1750	1651
<b>42.5</b>	1554	1459
<b>45.0</b>	1418	1329
<b>47.5</b>	1323	1241
<b>50.0</b>	1258	1174
<b>52.5</b>	1212	1116
<b>55.0</b>	1182	1069
<b>57.5</b>	1161	1032
<b>60.0</b>	1157	1010
<b>62.5</b>	1185	1036
<b>65.0</b>	1217	1079
<b>67.5</b>	1230	1134
<b>70.0</b>	1195	1172
<b>72.5</b>	1036	1060
<b>75.0</b>	731	817
<b>77.5</b>	580	675
<b>80.0</b>	443	515
<b>82.5</b>	328	351
<b>85.0</b>	256	273
<b>87.5</b>	384	450
<b>90.0</b>	52	61
<b>92.5</b>	0	0
<b>95.0</b>	0	0
<b>97.5</b>	0	0
<b>100.0</b>	0	0
<b>102.5</b>	0	0
<b>105.0</b>	0	0
<b>107.5</b>	1	0
<b>110.0</b>	1	0
<b>112.5</b>	1	0
<b>115.0</b>	1	0
<b>117.5</b>	1	1
<b>120.0</b>	1	1
<b>122.5</b>	1	1
<b>125.0</b>	1	1
<b>127.5</b>	2	1
<b>130.0</b>	2	1
<b>132.5</b>	2	2
<b>135.0</b>	2	1
<b>137.5</b>	1	1
<b>140.0</b>	1	1
<b>142.5</b>	1	1
<b>145.0</b>	0	0
<b>147.5</b>	0	0
<b>150.0</b>	0	0
<b>152.5</b>	0	0
<b>155.0</b>	0	0
<b>157.5</b>	0	0
<b>160.0</b>	0	0
<b>162.5</b>	0	0
<b>165.0</b>	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>	1	1

### COEFFICIENTS OF UTILIZATION

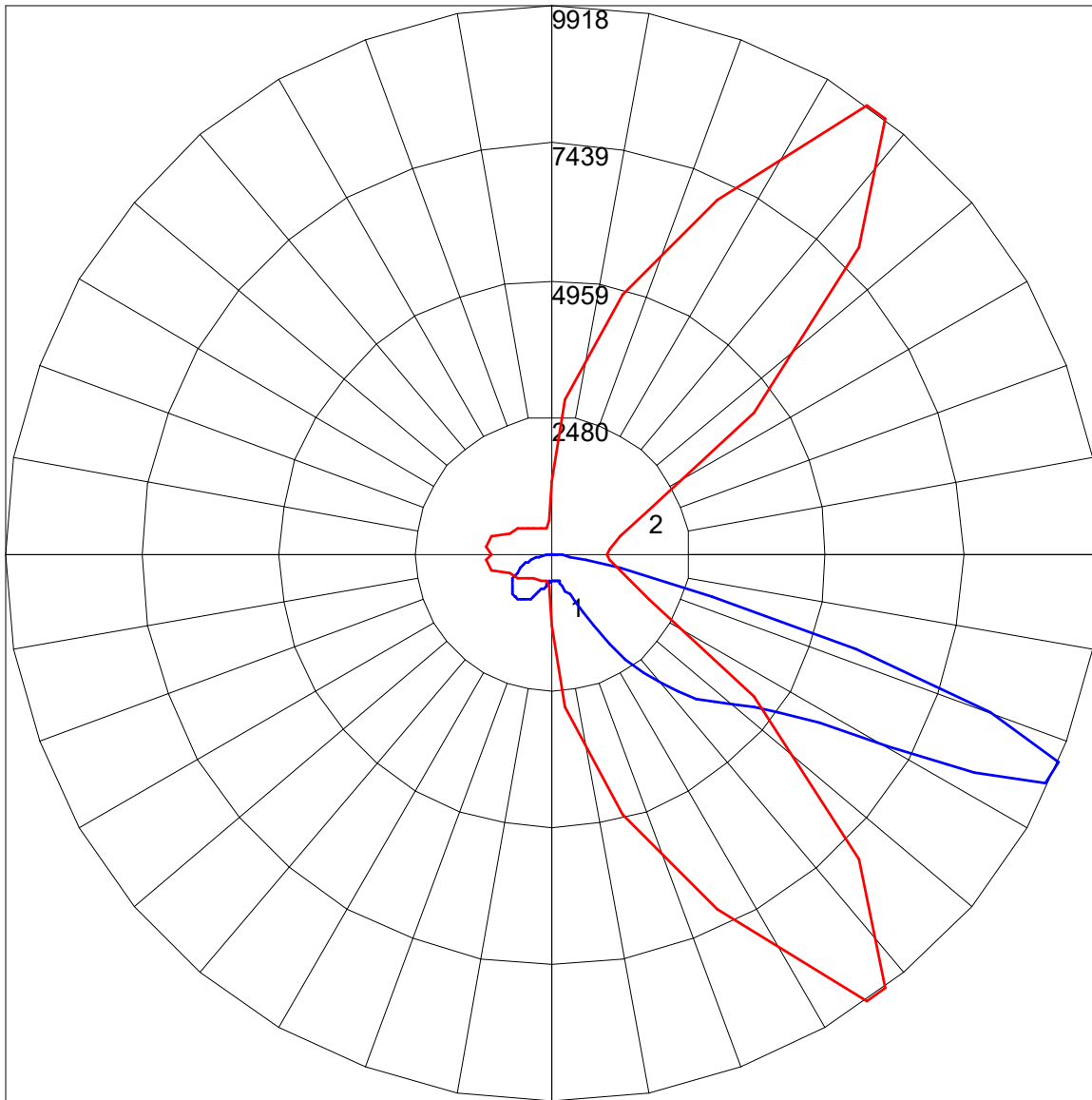


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8056.8	75.8
Downward House Side	2553.7	24.0
Downward Total	10610.5	99.8
Upward Street Side	11.3	0.1
Upward House Side	12.2	0.1
Upward Total	23.5	0.2
Total Flux	10634.0	100.0

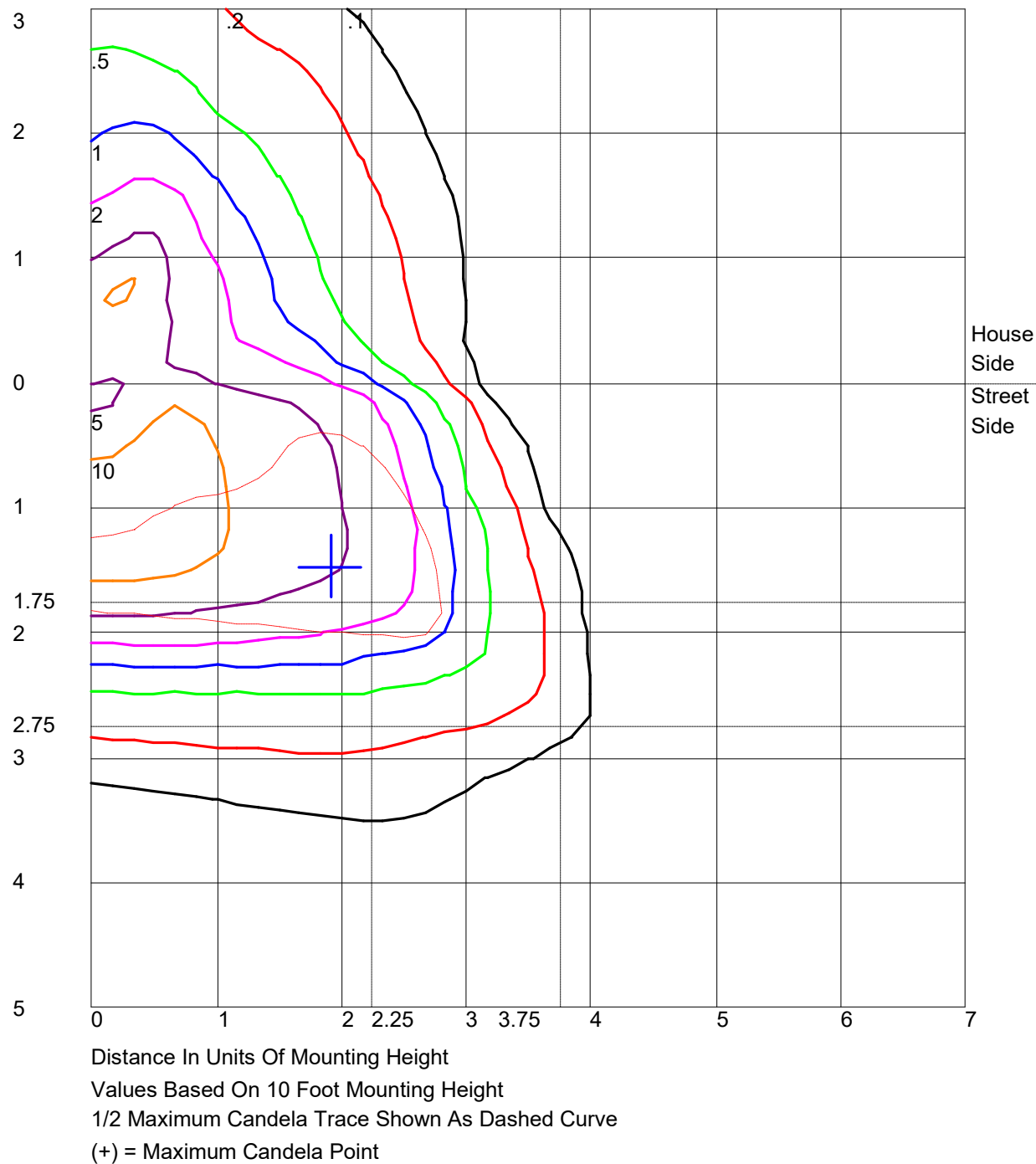


POLAR GRAPH

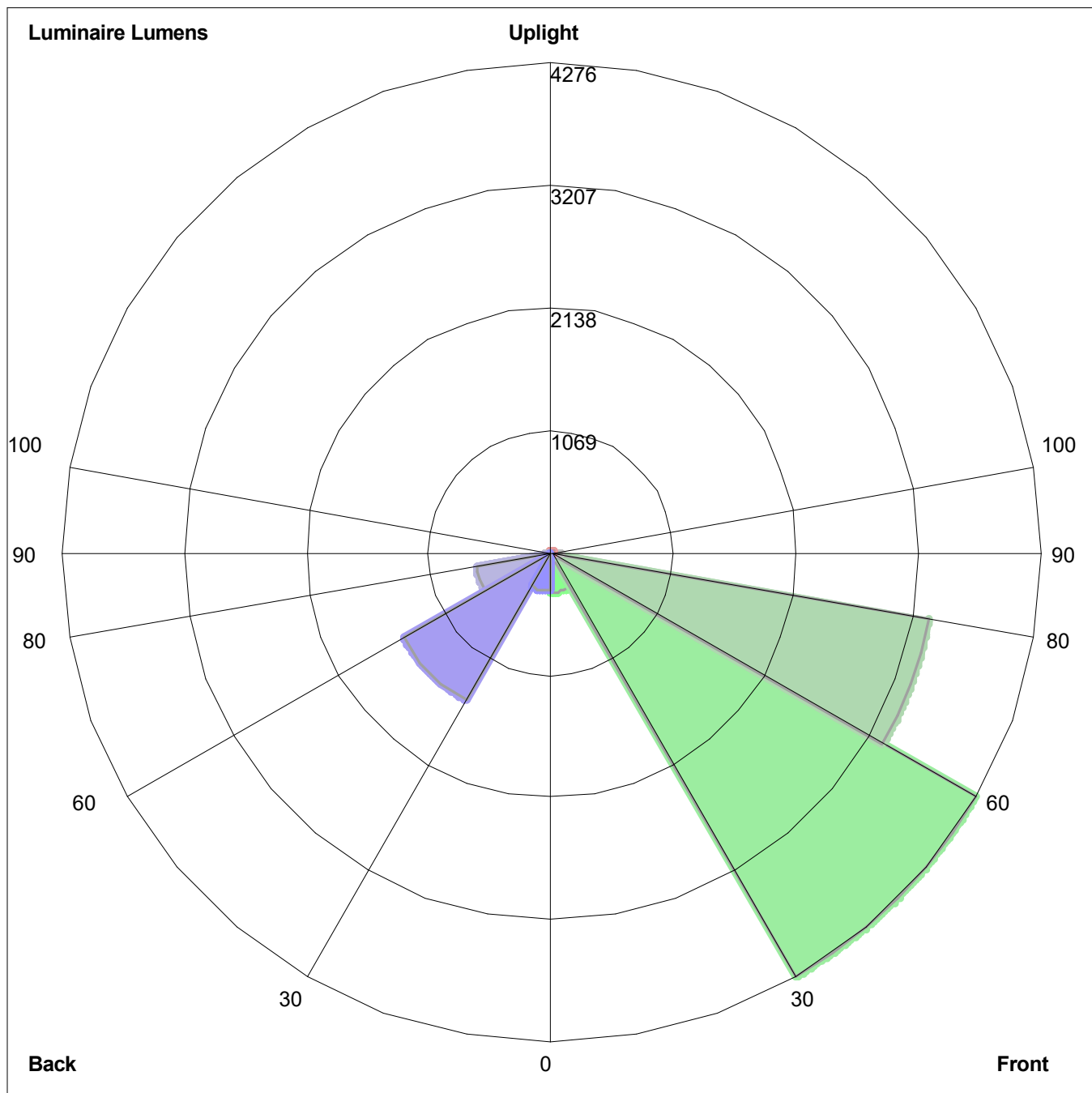


Maximum Candela = 9918 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=344.0, Medium=4276.1, High=3348.4, Very High=88.3  
Back: Low=337.5, Medium=1486.3, High=666.0, Very High=64.0  
Uplight: Low=8.2, High=15.3

BUG Rating : B2-U2-G2