



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-10L-50.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-50  
[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] 5000

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10721
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9999
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	9999
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	62 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	701 (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)	346.8	N.A.	3.2
FM - Front-Medium (30-60)	4310.9	N.A.	40.2
FH - Front-High (60-80)	3375.6	N.A.	31.5
FVH - Front-Very High (80-90)	89.1	N.A.	0.8
BL - Back-Low (0-30)	340.2	N.A.	3.2
BM - Back-Medium (30-60)	1498.5	N.A.	14.0
BH - Back-High (60-80)	671.5	N.A.	6.3
BVH - Back-Very High (80-90)	64.5	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	10720.6	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	507	507	507	507	507	507	507	507	507	507
2.5	515	516	513	513	510	507	505	505	501	500
5.0	497	494	493	497	505	515	520	518	509	498
7.5	478	483	480	478	477	479	480	489	518	502
10.0	494	494	504	493	492	494	492	500	511	543
12.5	518	518	520	515	521	534	525	529	537	566
15.0	567	559	564	555	557	567	576	584	569	597
17.5	640	619	628	623	626	621	625	634	625	632
20.0	744	731	707	691	705	710	712	708	702	686
22.5	857	846	842	835	805	817	821	817	800	772
25.0	1015	1006	989	976	997	988	987	985	962	918
27.5	1212	1196	1211	1223	1240	1263	1220	1217	1213	1148
30.0	1477	1492	1481	1517	1586	1586	1539	1535	1535	1388
32.5	1773	1789	1828	1917	1961	1990	1945	1892	1813	1622
35.0	2058	2078	2157	2286	2371	2417	2341	2292	2078	1825
37.5	2334	2356	2472	2638	2773	2843	2728	2636	2350	2009
40.0	2576	2617	2756	2998	3170	3212	3075	2965	2560	2176
42.5	2850	2899	3065	3360	3584	3577	3420	3293	2784	2341
45.0	3270	3283	3471	3800	3983	3918	3740	3593	2980	2494
47.5	3824	3834	4035	4345	4438	4257	4017	3858	3177	2667
50.0	4572	4574	4766	5029	4986	4623	4289	4104	3365	2924
52.5	5520	5514	5670	5820	5678	5083	4629	4391	3650	3343
55.0	6404	6463	6625	6744	6435	5621	5026	4792	4107	3936
57.5	6768	6825	7096	7452	7323	6365	5783	5517	4920	4569
60.0	6247	6318	6952	7606	8050	7464	7083	6908	5814	5142
62.5	3914	4113	5100	6840	8263	8617	8673	8403	6616	5497
65.0	1797	1903	2551	4344	7086	8959	9912	9661	7011	5567
67.5	987	1035	1253	1933	4511	7927	9999	9998	7148	4917
70.0	595	622	762	1130	2117	5582	8532	9043	6307	3244
72.5	386	405	523	769	1335	2954	5831	6502	3828	1391
75.0	278	292	391	598	960	1504	2998	3440	1590	499
77.5	201	208	295	497	797	943	1262	1496	707	270
80.0	136	141	222	388	670	638	619	701	379	167
82.5	95	101	160	268	491	406	325	321	233	125
85.0	78	82	117	198	250	206	154	152	139	85
87.5	78	92	80	127	126	58	62	68	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

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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	507	507	507	507	507	507	507	507	507	507
2.5	503	506	504	501	508	516	520	526	527	526
5.0	491	496	496	503	520	547	550	528	520	522
7.5	495	495	500	521	550	521	513	523	529	538
10.0	514	505	518	566	550	544	555	574	586	583
12.5	548	539	553	593	573	593	609	620	617	637
15.0	576	568	591	618	612	649	654	660	681	712
17.5	617	599	617	647	663	687	702	735	765	780
20.0	667	640	648	676	715	734	765	803	844	881
22.5	733	690	695	709	760	793	826	887	961	1007
25.0	846	781	758	753	802	846	891	999	1078	1129
27.5	1022	887	839	781	853	891	977	1095	1245	1274
30.0	1177	1005	919	816	871	941	1049	1225	1391	1457
32.5	1311	1087	972	822	893	977	1109	1321	1613	1699
35.0	1433	1160	1015	819	888	1008	1147	1429	1828	1956
37.5	1545	1227	1053	812	875	1015	1152	1466	2047	2208
40.0	1650	1290	1089	805	866	1022	1144	1483	2304	2386
42.5	1753	1348	1119	802	848	1011	1119	1470	2549	2422
45.0	1870	1411	1151	798	828	993	1102	1436	2742	2299
47.5	2034	1490	1186	800	807	972	1081	1373	2719	2172
50.0	2278	1601	1229	804	781	948	1059	1317	2549	2050
52.5	2592	1724	1265	800	754	918	1026	1248	2285	1924
55.0	2903	1863	1308	787	722	874	996	1167	1988	1803
57.5	3211	2035	1345	752	684	817	942	1087	1690	1679
60.0	3548	2175	1284	700	640	753	877	1007	1408	1547
62.5	3843	2145	1078	634	607	688	808	921	1161	1434
65.0	3729	1872	821	567	569	625	728	843	981	1318
67.5	2833	1314	606	499	529	573	656	785	850	1176
70.0	1551	696	406	415	466	508	590	722	748	1015
72.5	501	298	258	329	397	436	516	641	656	837
75.0	264	186	197	266	332	376	443	522	516	641
77.5	144	121	152	214	274	322	372	288	287	408

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**CANDELA TABULATION - (Cont.)**

80.0	106	92	123	176	221	234	264	197	169	241
82.5	80	67	97	142	171	134	142	137	113	166
85.0	53	43	71	107	95	86	83	77	61	115
87.5	29	20	46	56	49	43	36	42	32	64
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	507	507
2.5	524	521
5.0	520	523
7.5	543	542
10.0	592	583
12.5	635	640
15.0	709	709
17.5	795	803
20.0	912	921
22.5	1026	1014
25.0	1145	1154

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-3-LED-10L-50.IES**

**CANDELA TABULATION - (Cont.)**

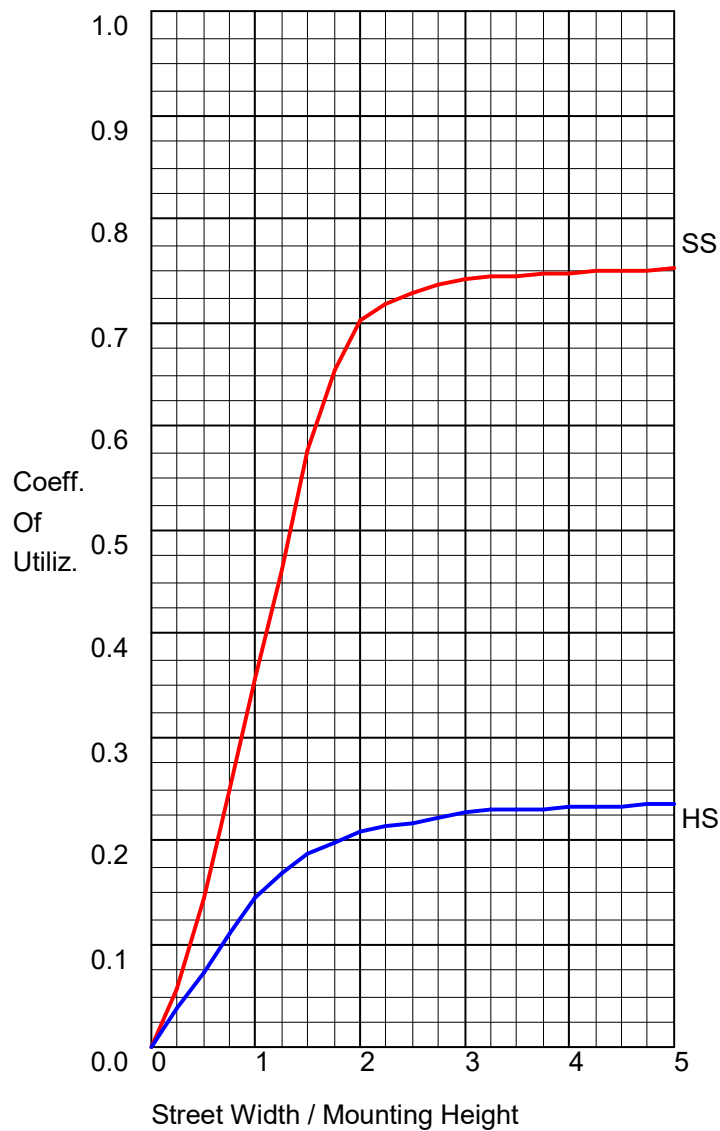
27.5	1261	1252
30.0	1426	1412
32.5	1599	1566
35.0	1760	1713
37.5	1825	1757
40.0	1764	1664
42.5	1567	1471
45.0	1430	1340
47.5	1334	1251
50.0	1268	1184
52.5	1222	1125
55.0	1192	1078
57.5	1170	1040
60.0	1166	1018
62.5	1195	1044
65.0	1227	1088
67.5	1240	1143
70.0	1205	1182
72.5	1044	1069
75.0	737	824
77.5	585	680
80.0	447	519
82.5	331	354
85.0	258	275
87.5	387	454
90.0	52	62
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	1	1
125.0	1	1
127.5	2	1
130.0	2	1
132.5	2	2
135.0	2	1
137.5	1	1
140.0	1	1
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

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XCN4-PT-3-LED-10L-50.IES**

**CANDELA TABULATION - (Cont.)**

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

COEFFICIENTS OF UTILIZATION

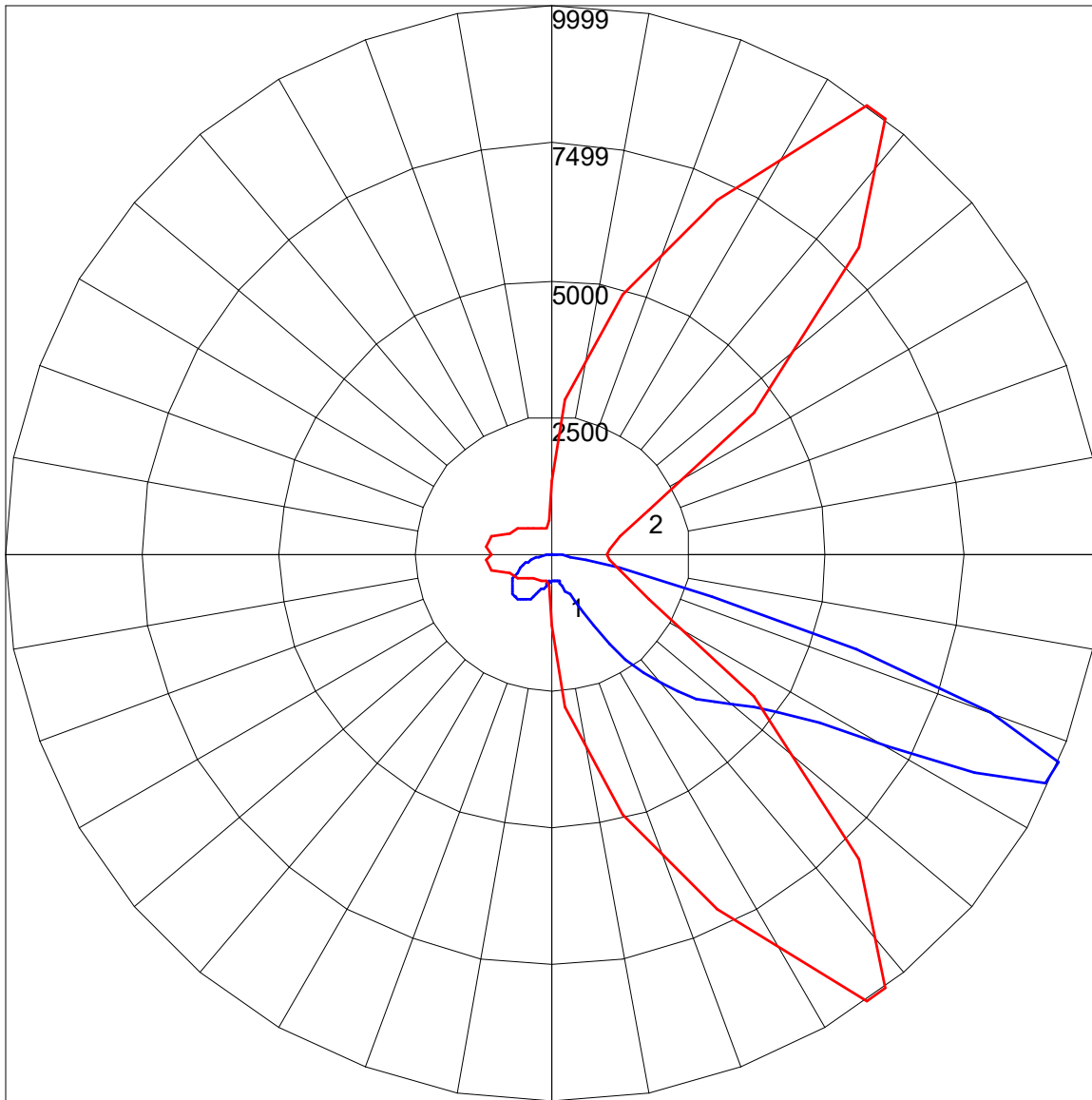


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8122.4	75.8
Downward House Side	2574.6	24.0
Downward Total	10697.0	99.8
Upward Street Side	11.3	0.1
Upward House Side	12.2	0.1
Upward Total	23.5	0.2
Total Flux	10720.5	100.0

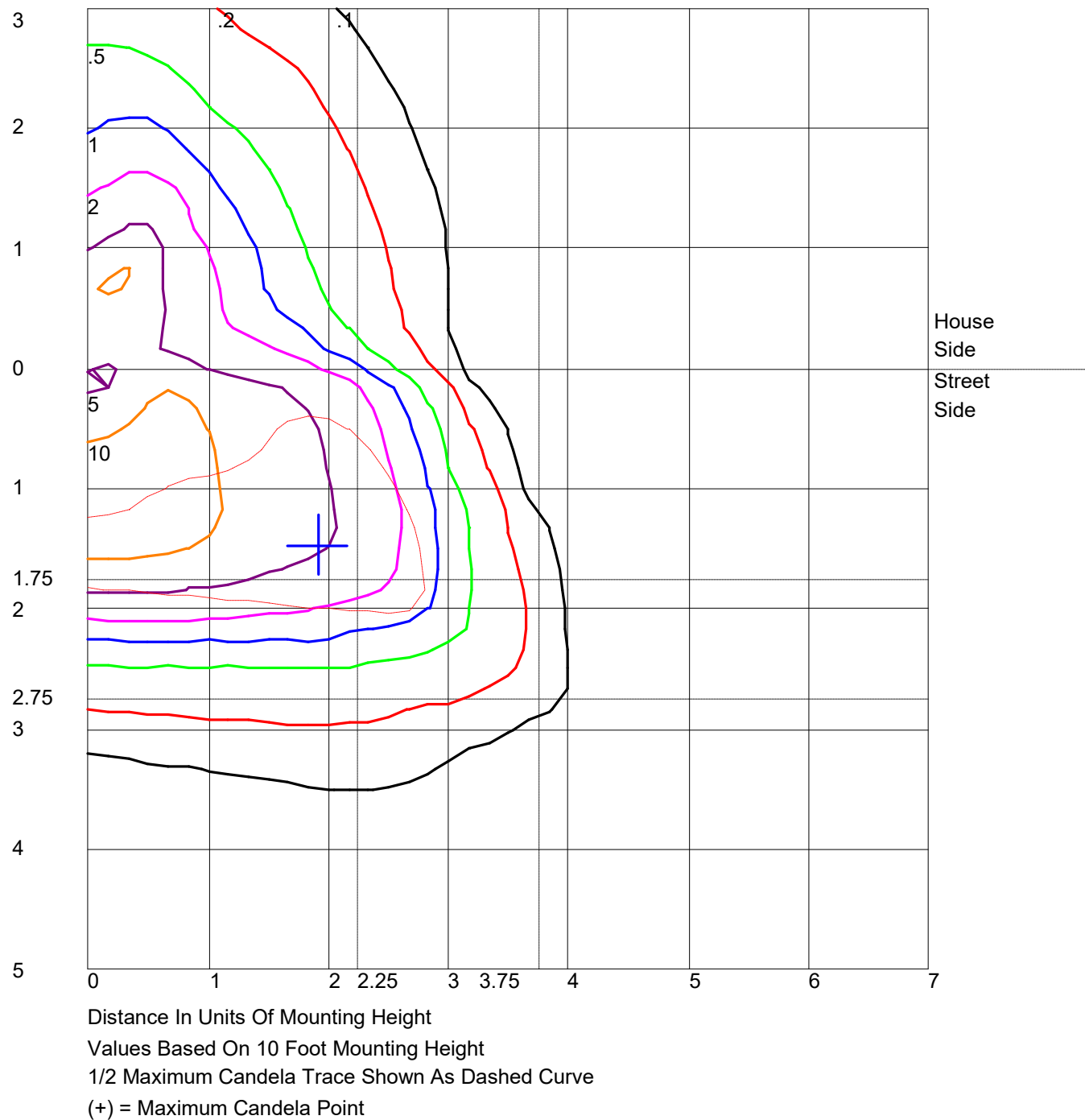


POLAR GRAPH

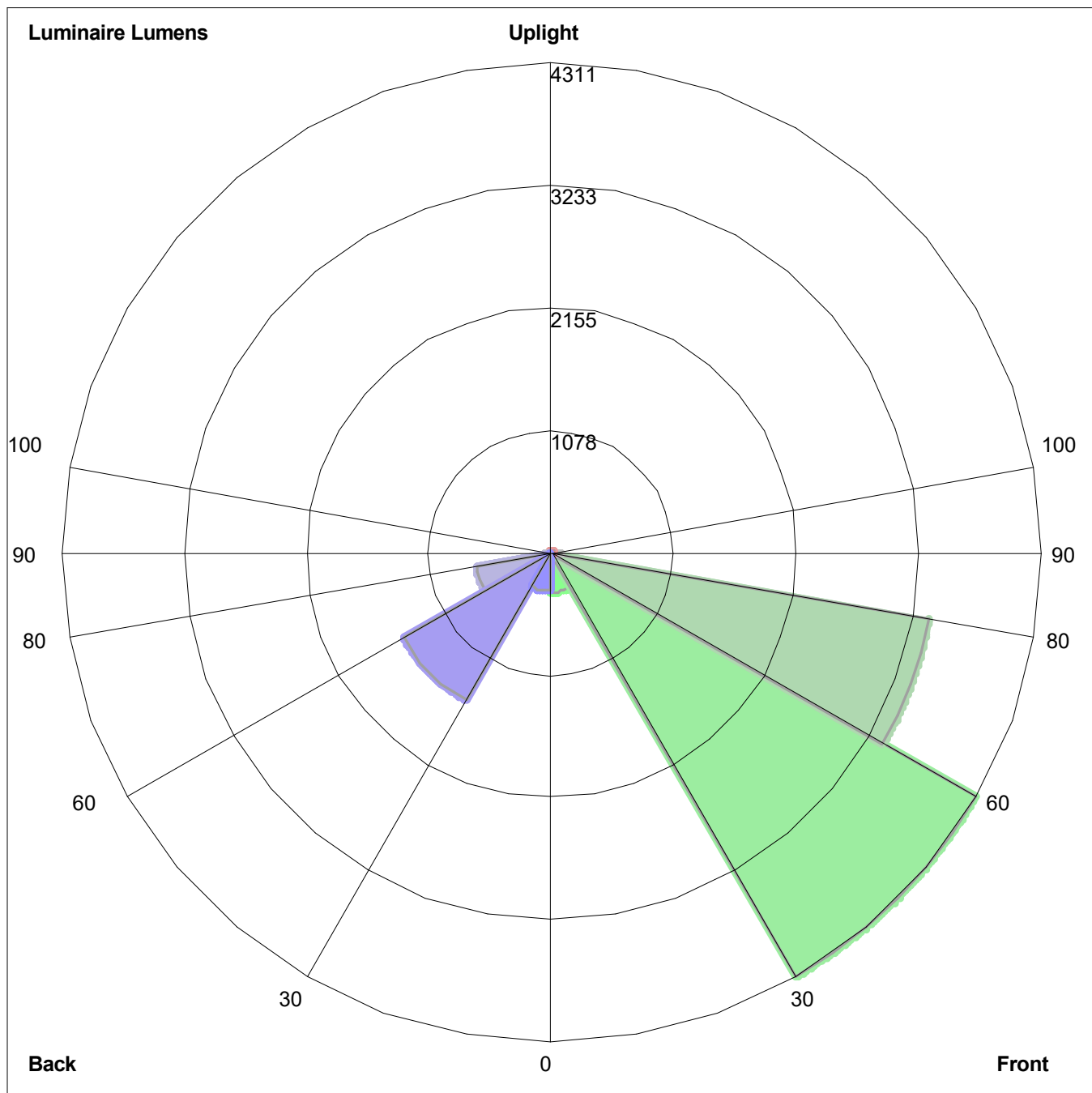


Maximum Candela = 9999 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=346.8, Medium=4310.9, High=3375.6, Very High=89.1  
Back: Low=340.2, Medium=1498.5, High=671.5, Very High=64.5  
Uplight: Low=8.2, High=15.3

BUG Rating : B2-U2-G2