



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13255
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 06/07/22
[TESTDATE] 02/14/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-3-LED-10L-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	9806
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9146
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	9146
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	57 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	641 (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)	317.2	N.A.	3.2
FM - Front-Medium (30-60)	3943.0	N.A.	40.2
FH - Front-High (60-80)	3087.5	N.A.	31.5
FVH - Front-Very High (80-90)	81.4	N.A.	0.8
BL - Back-Low (0-30)	311.1	N.A.	3.2
BM - Back-Medium (30-60)	1370.5	N.A.	14.0
BH - Back-High (60-80)	614.2	N.A.	6.3
BVH - Back-Very High (80-90)	59.0	N.A.	0.6
UL - Uplight-Low (90-100)	7.5	N.A.	0.1
UH - Uplight-High (100-180)	14.9	N.A.	0.2
Total	9806.3	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	52.5	55.0	65.0	75.0
0.0	464	464	464	464	464	464	464	464	464	464
2.5	471	472	469	469	466	464	462	462	458	457
5.0	455	452	451	455	462	471	476	474	466	455
7.5	437	442	439	437	436	438	439	447	474	459
10.0	452	452	461	451	450	452	450	457	467	497
12.5	474	474	476	471	477	488	480	484	491	518
15.0	519	511	516	508	509	519	527	534	520	546
17.5	585	566	574	570	573	568	572	580	572	578
20.0	681	669	647	632	645	649	651	648	642	627
22.5	784	774	770	764	736	747	751	747	732	706
25.0	928	920	905	893	912	904	903	901	880	840
27.5	1109	1094	1108	1119	1134	1155	1116	1113	1109	1050
30.0	1351	1365	1355	1388	1451	1451	1408	1404	1404	1270
32.5	1622	1636	1672	1753	1794	1820	1779	1731	1658	1484
35.0	1882	1901	1973	2091	2169	2211	2141	2096	1901	1669
37.5	2135	2155	2261	2413	2536	2600	2495	2411	2149	1838
40.0	2356	2394	2521	2742	2899	2938	2813	2712	2342	1990
42.5	2607	2652	2803	3073	3278	3272	3128	3012	2546	2141
45.0	2991	3003	3175	3476	3643	3584	3421	3286	2726	2281
47.5	3498	3507	3691	3974	4059	3894	3674	3529	2906	2439
50.0	4182	4184	4359	4600	4560	4228	3923	3754	3078	2674
52.5	5049	5043	5186	5323	5193	4649	4234	4016	3338	3058
55.0	5857	5911	6060	6168	5886	5141	4597	4383	3756	3600
57.5	6190	6243	6490	6816	6698	5822	5289	5046	4500	4179
60.0	5714	5779	6359	6957	7363	6827	6478	6318	5318	4703
62.5	3580	3762	4665	6256	7558	7882	7933	7686	6051	5028
65.0	1644	1741	2333	3973	6481	8194	9066	8836	6413	5092
67.5	903	947	1146	1768	4126	7250	9146	9145	6538	4497
70.0	544	569	697	1034	1936	5106	7804	8271	5769	2967
72.5	353	370	478	703	1221	2702	5333	5947	3501	1272
75.0	254	267	358	547	878	1376	2742	3146	1454	456
77.5	184	190	270	455	729	863	1154	1368	647	247
80.0	124	129	203	355	613	584	566	641	347	153
82.5	87	92	146	245	449	371	297	294	213	114
85.0	71	75	107	181	229	188	141	139	127	78
87.5	71	84	73	116	115	53	57	62	55	45
90.0	17	27	19	18	15	14	16	16	16	15
92.5	3	3	3	4	5	9	13	14	16	14
95.0	2	2	2	3	4	7	12	13	15	14
97.5	2	1	2	3	4	6	9	10	13	12
100.0	2	1	2	3	3	5	6	6	9	10
102.5	1	1	2	3	3	3	4	4	6	7
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	464	464	464	464	464	464	464	464	464	464
2.5	460	463	461	458	465	472	476	481	482	481
5.0	449	454	454	460	476	500	503	483	476	477
7.5	453	453	457	477	503	477	469	478	484	492
10.0	470	462	474	518	503	498	508	525	536	533
12.5	501	493	506	542	524	542	557	567	564	583
15.0	527	520	541	565	560	594	598	604	623	651
17.5	564	548	564	592	606	628	642	672	700	713
20.0	610	585	593	618	654	671	700	734	772	806
22.5	670	631	636	648	695	725	756	811	879	921
25.0	774	714	693	689	734	774	815	914	986	1033
27.5	935	811	767	714	780	815	894	1002	1139	1165
30.0	1077	919	841	746	797	861	959	1120	1272	1333
32.5	1199	994	889	752	817	894	1014	1208	1475	1554
35.0	1311	1061	928	749	812	922	1049	1307	1672	1789
37.5	1413	1122	963	743	800	928	1054	1341	1872	2020
40.0	1509	1180	996	736	792	935	1046	1356	2107	2182
42.5	1603	1233	1023	734	776	925	1023	1345	2331	2215
45.0	1710	1291	1053	730	757	908	1008	1313	2508	2103
47.5	1860	1363	1085	732	738	889	989	1256	2487	1987
50.0	2084	1464	1124	735	714	867	969	1205	2331	1875
52.5	2371	1577	1157	732	690	840	938	1141	2090	1760
55.0	2655	1704	1196	720	660	799	911	1067	1818	1649
57.5	2937	1861	1230	688	626	747	862	994	1546	1536
60.0	3245	1989	1174	640	585	689	802	921	1288	1415
62.5	3515	1962	986	580	555	629	739	842	1062	1312
65.0	3411	1712	751	519	520	572	666	771	897	1206
67.5	2591	1202	554	456	484	524	600	718	777	1076
70.0	1419	637	371	380	426	465	540	660	684	928
72.5	458	273	236	301	363	399	472	586	600	766
75.0	241	170	180	243	304	344	405	477	472	586
77.5	132	111	139	196	251	295	340	263	263	373

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CANDELA TABULATION - (Cont.)

80.0	97	84	113	161	202	214	241	180	155	220
82.5	73	61	89	130	156	123	130	125	103	152
85.0	48	39	65	98	87	79	76	70	56	105
87.5	27	18	42	51	45	39	33	38	29	59
90.0	10	4	12	11	10	9	7	16	6	16
92.5	10	4	7	6	6	5	5	3	2	1
95.0	10	4	7	7	7	6	5	4	2	1
97.5	9	4	7	7	7	6	5	4	2	1
100.0	7	4	6	6	7	6	5	4	3	1
102.5	6	4	5	6	6	6	5	4	3	2
105.0	5	4	5	5	6	6	5	4	3	2
107.5	4	4	5	5	5	5	5	4	3	2
110.0	4	4	4	5	5	5	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	5	5	4	3	2
125.0	4	4	4	5	5	5	5	4	3	2
127.5	4	4	4	5	5	5	5	4	3	2
130.0	4	4	4	5	5	5	5	4	3	2
132.5	4	4	4	5	5	5	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	464	464
2.5	479	477
5.0	476	478
7.5	497	496
10.0	541	533
12.5	581	585
15.0	648	648
17.5	727	734
20.0	834	842
22.5	938	927
25.0	1047	1056

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CANDELA TABULATION - (Cont.)

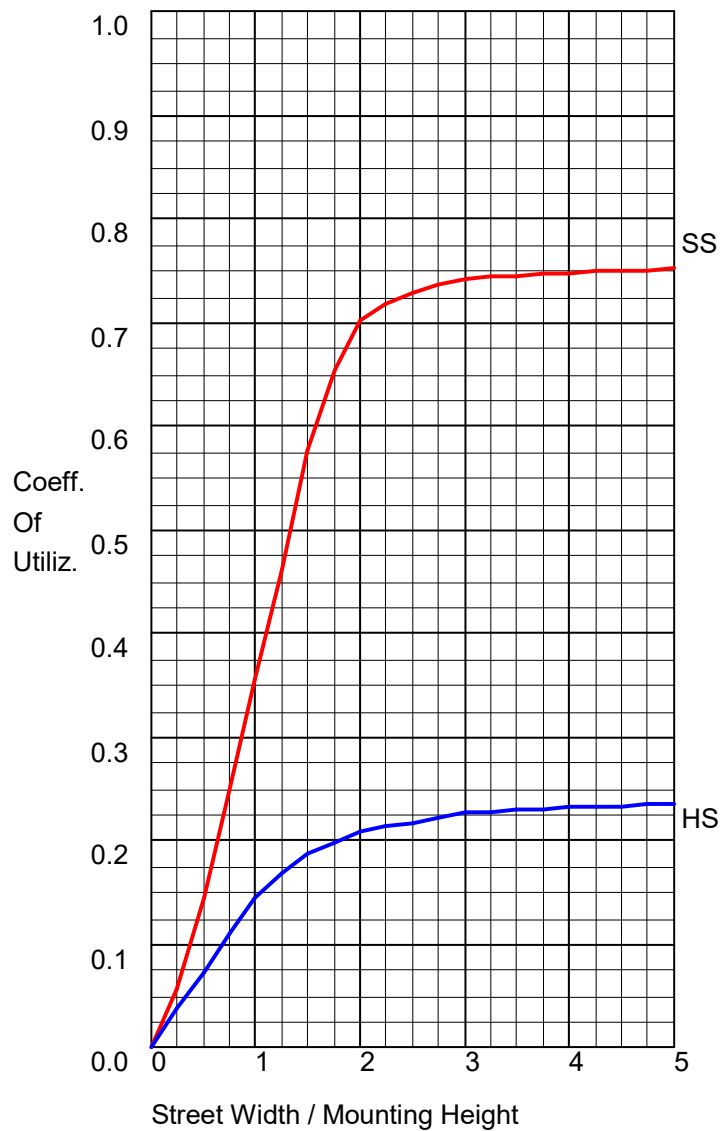
27.5	1153	1145
30.0	1304	1291
32.5	1463	1432
35.0	1610	1567
37.5	1669	1607
40.0	1613	1522
42.5	1433	1345
45.0	1308	1226
47.5	1220	1144
50.0	1160	1083
52.5	1118	1029
55.0	1090	986
57.5	1070	951
60.0	1066	931
62.5	1093	955
65.0	1122	995
67.5	1134	1045
70.0	1102	1081
72.5	955	978
75.0	674	754
77.5	535	622
80.0	409	475
82.5	303	324
85.0	236	252
87.5	354	415
90.0	48	57
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
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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

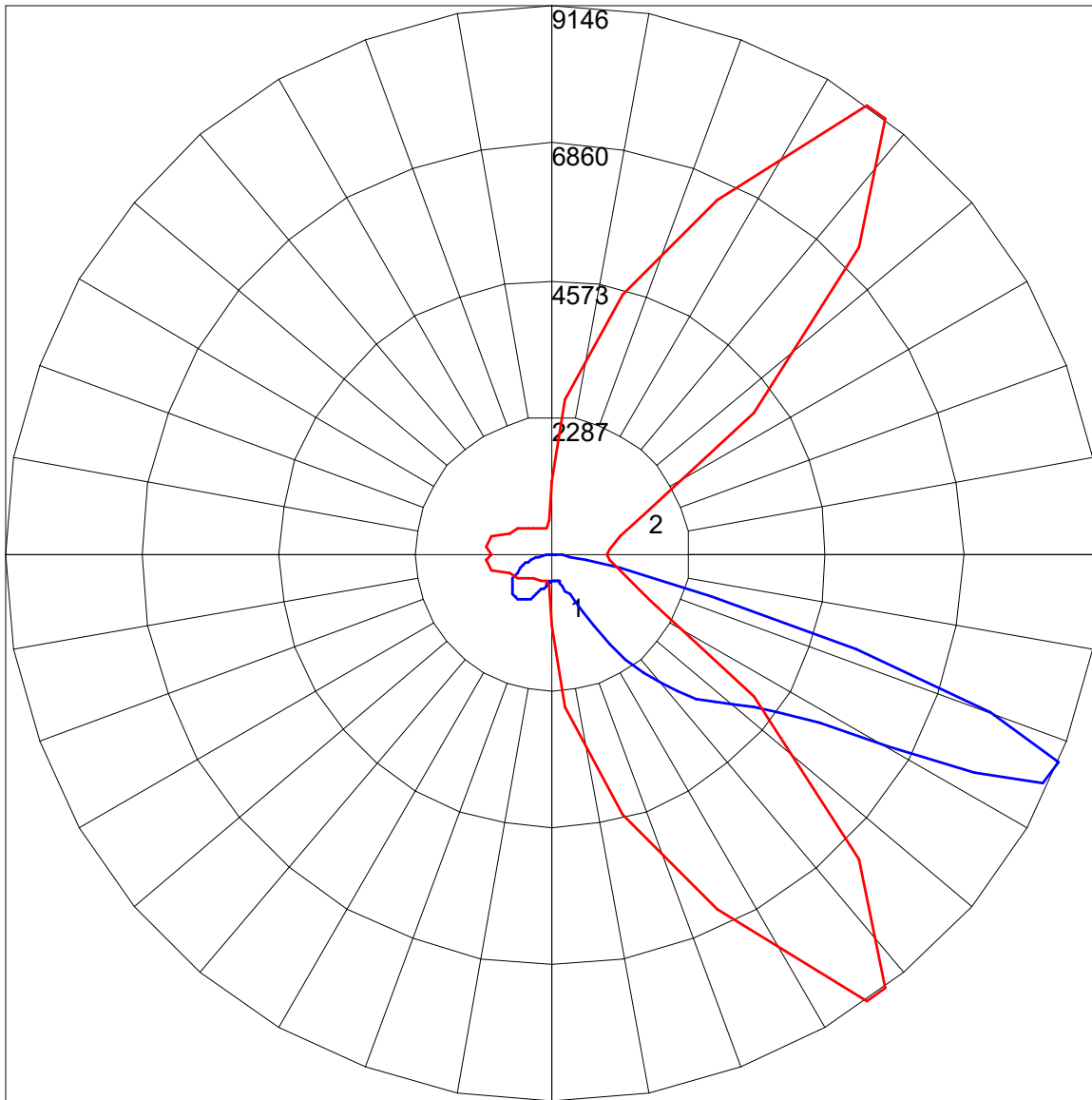
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

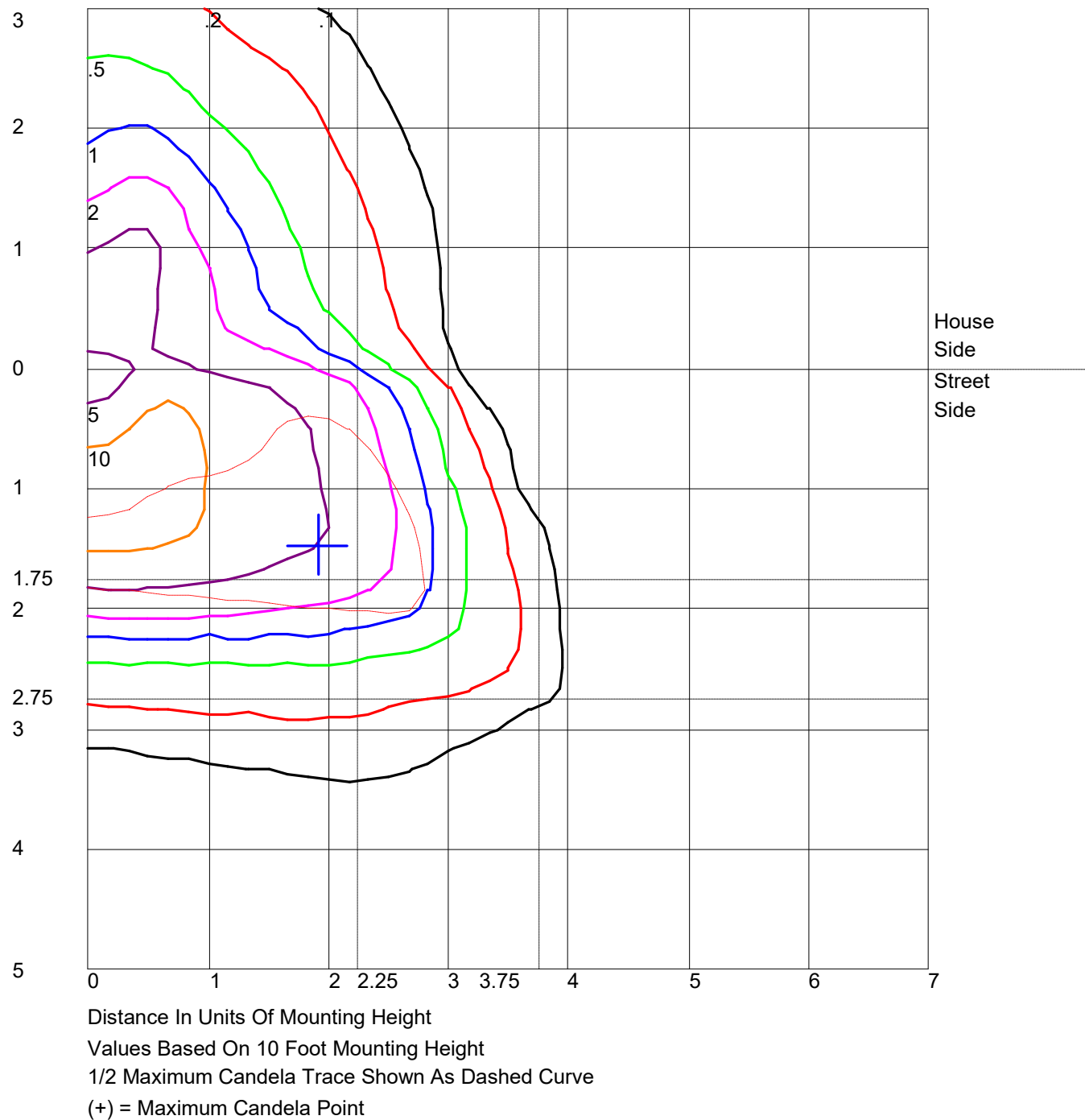
	Lumens	Percent Of Luminaire
Downward Street Side	7429.2	75.8
Downward House Side	2354.8	24.0
Downward Total	9784.0	99.8
Upward Street Side	10.9	0.1
Upward House Side	11.5	0.1
Upward Total	22.4	0.2
Total Flux	9806.4	100.0

POLAR GRAPH

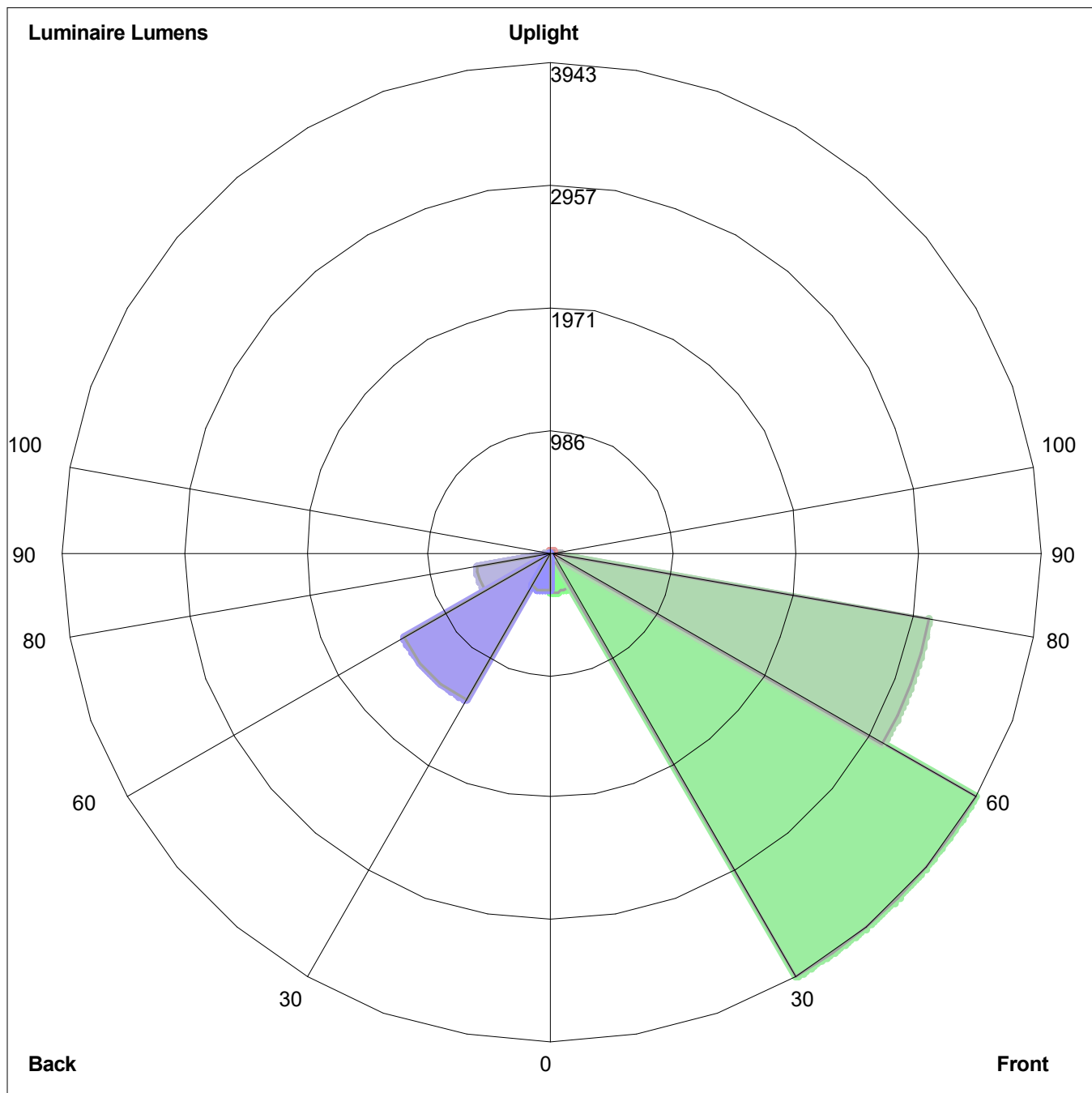


Maximum Candela = 9146 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=317.2, Medium= 3943.0, High=3087.5, Very High=81.4
Back: Low=311.1, Medium=1370.5, High=614.2, Very High=59.0
Uplight: Low=7.5, High=14.9

BUG Rating : B2-U2-G2