



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-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-25L-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	26235
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24471
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	24471
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	151 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1717 (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)	848.7	N.A.	3.2
FM - Front-Medium (30-60)	10550.0	N.A.	40.2
FH - Front-High (60-80)	8261.3	N.A.	31.5
FVH - Front-Very High (80-90)	218.1	N.A.	0.8
BL - Back-Low (0-30)	832.5	N.A.	3.2
BM - Back-Medium (30-60)	3667.2	N.A.	14.0
BH - Back-High (60-80)	1643.3	N.A.	6.3
BVH - Back-Very High (80-90)	157.7	N.A.	0.6
UL - Uplight-Low (90-100)	20.1	N.A.	0.1
UH - Uplight-High (100-180)	35.8	N.A.	0.1
Total	26234.7	N.A.	100.0
BUG Rating	B3-U2-G4		

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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	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241
2.5	1260	1261	1255	1255	1249	1239	1236	1236	1227	1224
5.0	1216	1210	1207	1216	1236	1259	1273	1267	1245	1217
7.5	1169	1182	1175	1169	1167	1173	1175	1195	1269	1229
10.0	1210	1210	1233	1206	1204	1210	1205	1223	1250	1329
12.5	1269	1267	1272	1259	1275	1306	1285	1295	1313	1385
15.0	1388	1369	1379	1358	1363	1388	1409	1430	1392	1463
17.5	1566	1514	1538	1526	1532	1520	1530	1552	1529	1548
20.0	1820	1789	1731	1692	1724	1738	1741	1733	1718	1678
22.5	2098	2071	2061	2044	1970	1999	2010	1999	1958	1889
25.0	2483	2462	2421	2388	2439	2418	2415	2410	2355	2245
27.5	2967	2928	2963	2994	3034	3091	2986	2977	2970	2809
30.0	3615	3650	3624	3712	3881	3881	3767	3756	3756	3397
32.5	4340	4378	4474	4693	4798	4871	4760	4631	4438	3969
35.0	5037	5085	5279	5595	5802	5916	5728	5610	5085	4466
37.5	5711	5767	6050	6456	6787	6958	6676	6452	5750	4916
40.0	6305	6404	6746	7336	7759	7861	7525	7256	6266	5326
42.5	6974	7096	7500	8223	8770	8753	8369	8059	6814	5728
45.0	8002	8034	8493	9298	9747	9588	9154	8792	7293	6104
47.5	9358	9384	9876	10634	10861	10417	9830	9442	7775	6526
50.0	11189	11194	11663	12308	12202	11312	10497	10045	8235	7156
52.5	13509	13495	13875	14242	13895	12440	11328	10746	8932	8181
55.0	15672	15817	16214	16505	15749	13756	12300	11727	10051	9632
57.5	16563	16703	17366	18236	17922	15577	14153	13501	12040	11181
60.0	15289	15461	17013	18613	19700	18267	17335	16906	14229	12584
62.5	9579	10067	12481	16740	20222	21087	21225	20564	16192	13454
65.0	4398	4657	6243	10632	17342	21925	24258	23645	17157	13623
67.5	2415	2534	3067	4732	11039	19400	24471	24468	17494	12033
70.0	1455	1522	1865	2767	5180	13660	20881	22132	15434	7939
72.5	945	991	1280	1882	3267	7230	14270	15911	9369	3403
75.0	680	715	957	1464	2351	3681	7336	8419	3891	1220
77.5	491	508	723	1216	1951	2308	3090	3661	1731	662
80.0	334	345	544	950	1641	1561	1515	1717	928	409
82.5	231	248	391	657	1201	994	797	785	572	306
85.0	190	201	285	485	613	504	378	372	341	209
87.5	190	226	197	310	309	141	153	166	146	120
90.0	47	74	52	48	38	37	41	43	45	40
92.5	6	6	7	9	13	25	35	38	43	38
95.0	4	4	5	6	10	21	31	34	38	37
97.5	4	3	4	6	9	18	25	27	34	32
100.0	4	3	4	6	7	12	16	18	25	26
102.5	3	3	4	6	6	7	9	10	16	19
105.0	3	3	4	5	6	6	7	7	9	12
107.5	3	3	4	5	5	6	6	6	7	9
110.0	3	3	4	5	5	5	6	6	6	7
112.5	3	3	4	5	5	5	6	5	6	7
115.0	3	3	4	5	5	5	5	5	6	7
117.5	3	3	4	5	5	5	5	5	6	6
120.0	3	3	4	5	5	5	5	6	6	7
122.5	4	3	4	5	5	5	6	6	6	7
125.0	4	4	4	5	5	5	6	6	6	6
127.5	4	4	4	5	5	6	6	6	6	7
130.0	5	4	4	5	5	6	6	6	6	7

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	6	6	6	6	6	7
135.0	6	5	5	6	6	6	6	6	7	7
137.5	6	5	5	6	6	6	6	6	7	7
140.0	6	6	5	6	6	6	6	6	7	7
142.5	6	5	5	5	5	5	6	5	6	6
145.0	4	3	4	4	4	4	4	4	5	5
147.5	1	1	3	3	3	3	3	3	4	5
150.0	1	1	3	3	3	3	3	3	4	4
152.5	1	1	3	3	3	3	3	3	4	4
155.0	1	1	3	3	3	3	3	3	3	4
157.5	1	1	1	3	3	3	3	3	3	4
160.0	1	1	1	3	3	3	3	3	3	4
162.5	1	1	1	3	3	1	3	3	3	3
165.0	1	1	1	3	3	3	3	3	3	4
167.5	1	1	1	3	3	3	3	3	3	4
170.0	1	1	3	3	3	3	3	3	3	4
172.5	1	1	3	3	3	3	3	3	4	4
175.0	0	1	1	3	3	3	3	3	4	4
177.5	0	1	1	3	3	3	3	3	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241
2.5	1232	1238	1233	1226	1244	1261	1273	1288	1291	1288
5.0	1201	1214	1214	1231	1272	1338	1347	1292	1273	1277
7.5	1213	1211	1224	1275	1345	1276	1257	1281	1294	1317
10.0	1258	1236	1267	1385	1345	1330	1357	1404	1435	1426
12.5	1341	1320	1352	1451	1401	1452	1491	1516	1510	1559
15.0	1410	1389	1445	1513	1498	1589	1602	1616	1667	1741
17.5	1510	1466	1510	1582	1624	1682	1718	1798	1872	1910
20.0	1633	1567	1585	1655	1749	1795	1873	1965	2064	2157
22.5	1795	1689	1701	1735	1860	1942	2022	2171	2352	2464
25.0	2071	1911	1855	1842	1963	2070	2180	2445	2639	2764
27.5	2502	2170	2054	1911	2088	2180	2390	2680	3046	3117
30.0	2880	2460	2249	1996	2132	2304	2567	2998	3403	3566
32.5	3209	2659	2380	2013	2186	2390	2715	3231	3948	4159
35.0	3507	2839	2483	2004	2174	2468	2808	3497	4473	4787
37.5	3780	3003	2577	1987	2142	2485	2818	3589	5010	5404
40.0	4038	3156	2664	1969	2120	2500	2799	3628	5639	5838
42.5	4290	3298	2739	1964	2076	2473	2739	3596	6238	5927
45.0	4576	3455	2817	1952	2026	2430	2696	3514	6709	5626
47.5	4977	3646	2902	1958	1974	2379	2645	3361	6654	5316
50.0	5576	3917	3007	1967	1912	2320	2590	3223	6239	5017
52.5	6343	4219	3096	1958	1846	2245	2512	3055	5591	4710
55.0	7103	4559	3202	1926	1766	2139	2437	2857	4865	4412
57.5	7857	4981	3293	1841	1673	1999	2306	2659	4137	4109
60.0	8684	5323	3143	1714	1567	1843	2148	2465	3446	3785
62.5	9406	5248	2637	1552	1486	1683	1977	2254	2842	3509
65.0	9126	4581	2010	1388	1392	1530	1782	2063	2402	3227
67.5	6934	3216	1484	1220	1295	1403	1605	1923	2080	2877
70.0	3797	1702	992	1016	1141	1242	1442	1766	1830	2485
72.5	1227	729	631	804	972	1067	1263	1570	1605	2048
75.0	647	456	481	650	812	919	1083	1279	1263	1568
77.5	353	296	372	525	670	788	910	704	702	998

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CANDELA TABULATION - (Cont.)

80.0	260	226	301	431	541	573	645	481	413	591
82.5	195	163	237	348	418	327	347	336	276	407
85.0	131	104	173	262	231	209	203	188	149	281
87.5	71	48	113	137	120	104	88	102	79	156
90.0	27	9	32	30	27	25	21	43	18	44
92.5	26	9	19	18	18	16	13	7	5	1
95.0	26	10	19	19	19	16	15	9	5	3
97.5	25	10	19	19	19	18	15	9	5	3
100.0	21	10	16	18	19	18	16	9	6	3
102.5	16	9	15	16	18	16	16	10	6	4
105.0	12	9	13	15	16	16	15	10	6	4
107.5	10	9	12	13	16	16	15	10	6	4
110.0	9	9	10	12	15	15	13	10	6	4
112.5	9	9	10	12	13	13	13	10	7	4
115.0	9	9	10	12	13	13	12	10	7	4
117.5	9	9	10	12	13	13	12	9	6	4
120.0	9	9	10	12	13	13	12	9	7	4
122.5	9	9	10	12	13	15	13	10	7	5
125.0	9	9	10	12	15	15	13	10	7	5
127.5	9	9	10	12	15	15	15	10	7	5
130.0	9	9	10	12	15	15	13	10	7	5
132.5	9	9	10	12	13	15	13	10	7	5
135.0	9	9	10	12	13	13	12	9	7	5
137.5	7	9	9	10	12	12	12	9	6	4
140.0	7	9	9	10	12	12	10	7	6	4
142.5	7	7	9	9	10	10	9	7	5	3
145.0	6	7	7	7	9	9	7	5	4	1
147.5	6	6	6	7	7	7	6	4	1	0
150.0	5	6	6	6	7	6	5	4	1	0
152.5	5	6	6	6	6	6	5	3	1	0
155.0	5	6	6	6	6	6	5	3	0	0
157.5	5	5	5	6	6	5	4	3	0	0
160.0	5	5	5	5	5	5	4	1	0	0
162.5	4	5	5	5	5	4	4	1	0	0
165.0	4	5	5	5	5	4	4	1	0	0
167.5	4	5	5	5	5	5	4	1	0	0
170.0	5	5	5	5	5	5	4	1	0	0
172.5	5	5	5	5	5	5	4	1	0	0
175.0	4	5	5	5	5	5	4	1	0	0
177.5	4	5	5	5	5	4	4	1	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1241	1241
2.5	1282	1276
5.0	1273	1281
7.5	1329	1326
10.0	1449	1427
12.5	1555	1566
15.0	1736	1735
17.5	1945	1967
20.0	2233	2255
22.5	2512	2482
25.0	2802	2824

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-30.IES

CANDELA TABULATION - (Cont.)

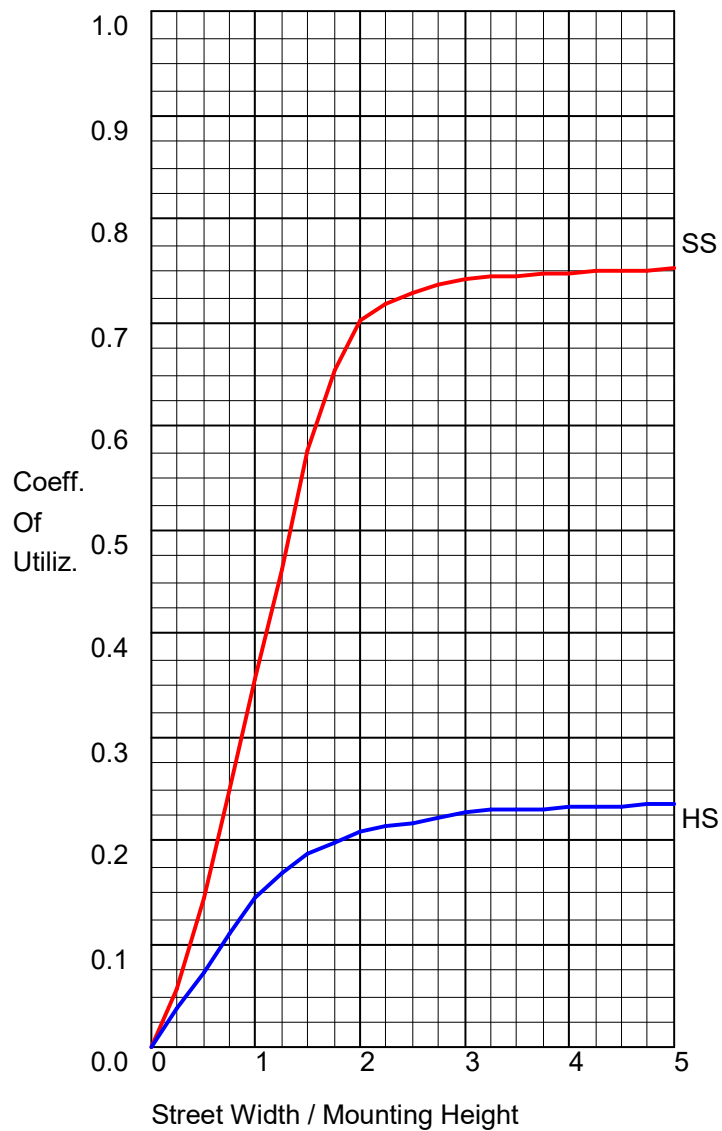
27.5	3086	3064
30.0	3489	3456
32.5	3915	3833
35.0	4307	4191
37.5	4465	4300
40.0	4318	4072
42.5	3835	3599
45.0	3500	3280
47.5	3265	3061
50.0	3104	2897
52.5	2992	2753
55.0	2917	2637
57.5	2864	2545
60.0	2853	2492
62.5	2924	2555
65.0	3003	2662
67.5	3036	2798
70.0	2949	2893
72.5	2556	2615
75.0	1804	2017
77.5	1432	1664
80.0	1095	1270
82.5	809	866
85.0	631	673
87.5	948	1112
90.0	127	151
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	3	1
125.0	3	3
127.5	4	3
130.0	4	3
132.5	4	4
135.0	4	3
137.5	3	3
140.0	3	3
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.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

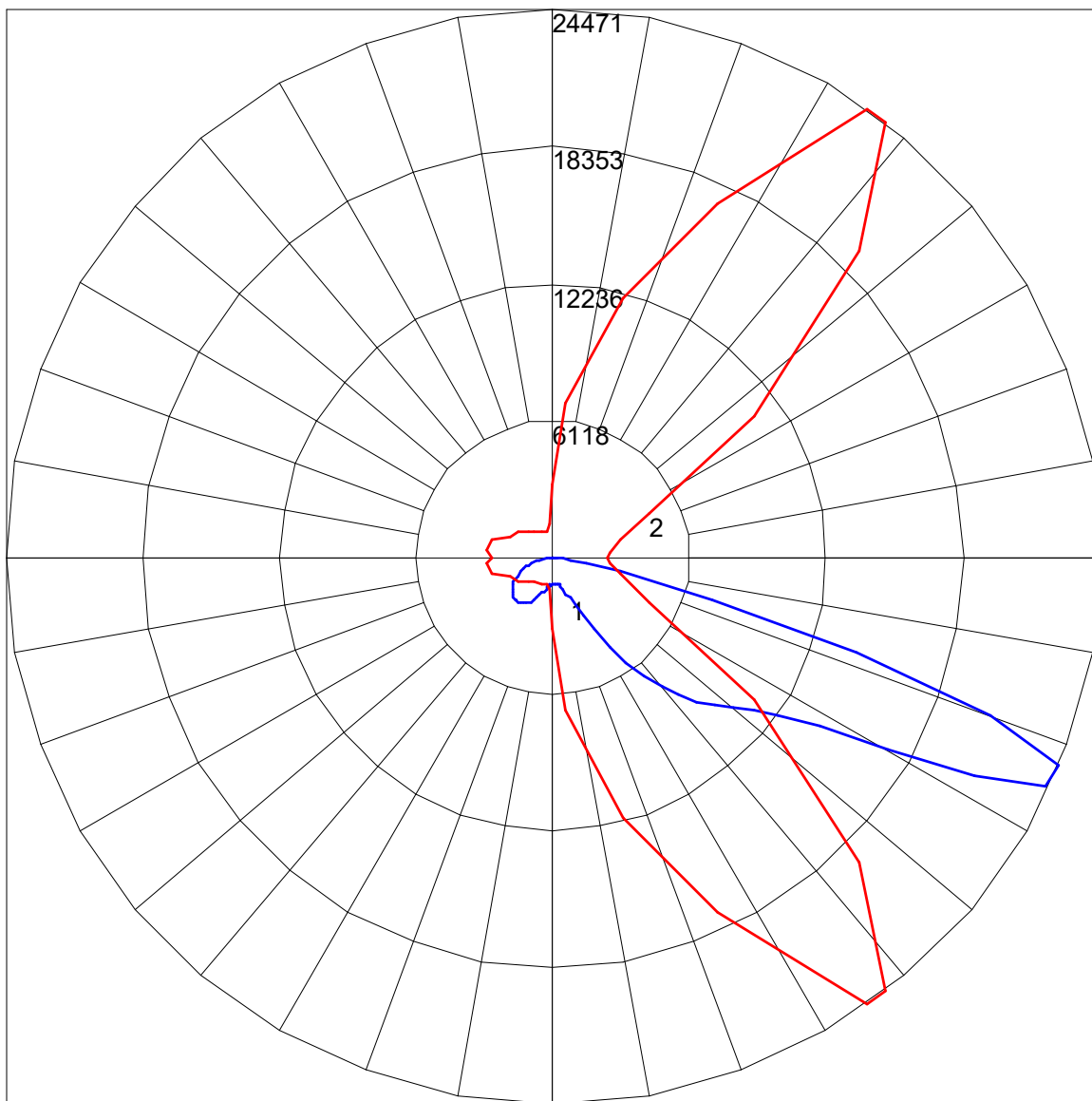
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

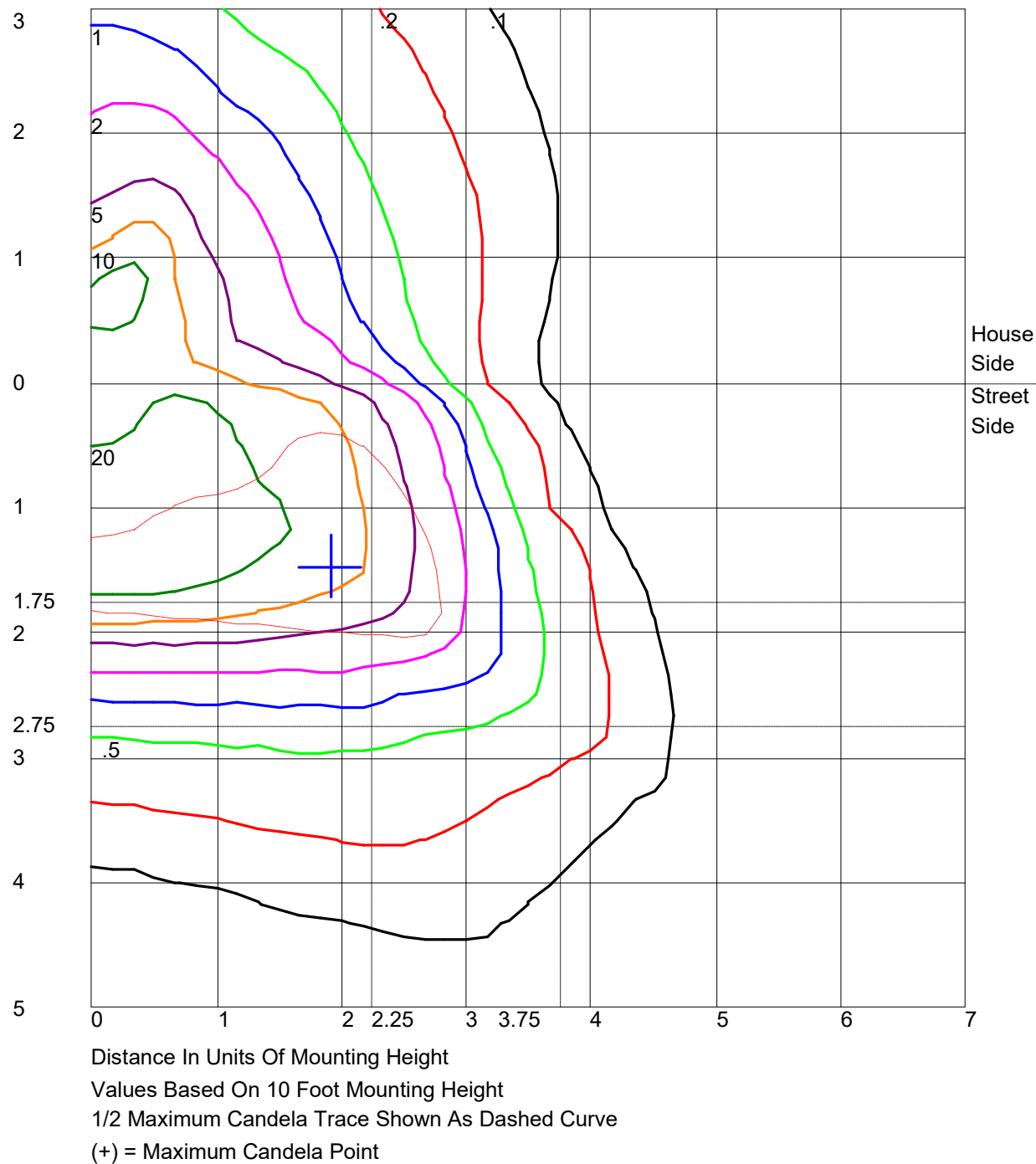
	Lumens	Percent Of Luminaire
Downward Street Side	19878.1	75.8
Downward House Side	6300.7	24.0
Downward Total	26178.8	99.8
Upward Street Side	26.5	0.1
Upward House Side	29.4	0.1
Upward Total	55.9	0.2
Total Flux	26234.7	100.0

POLAR GRAPH

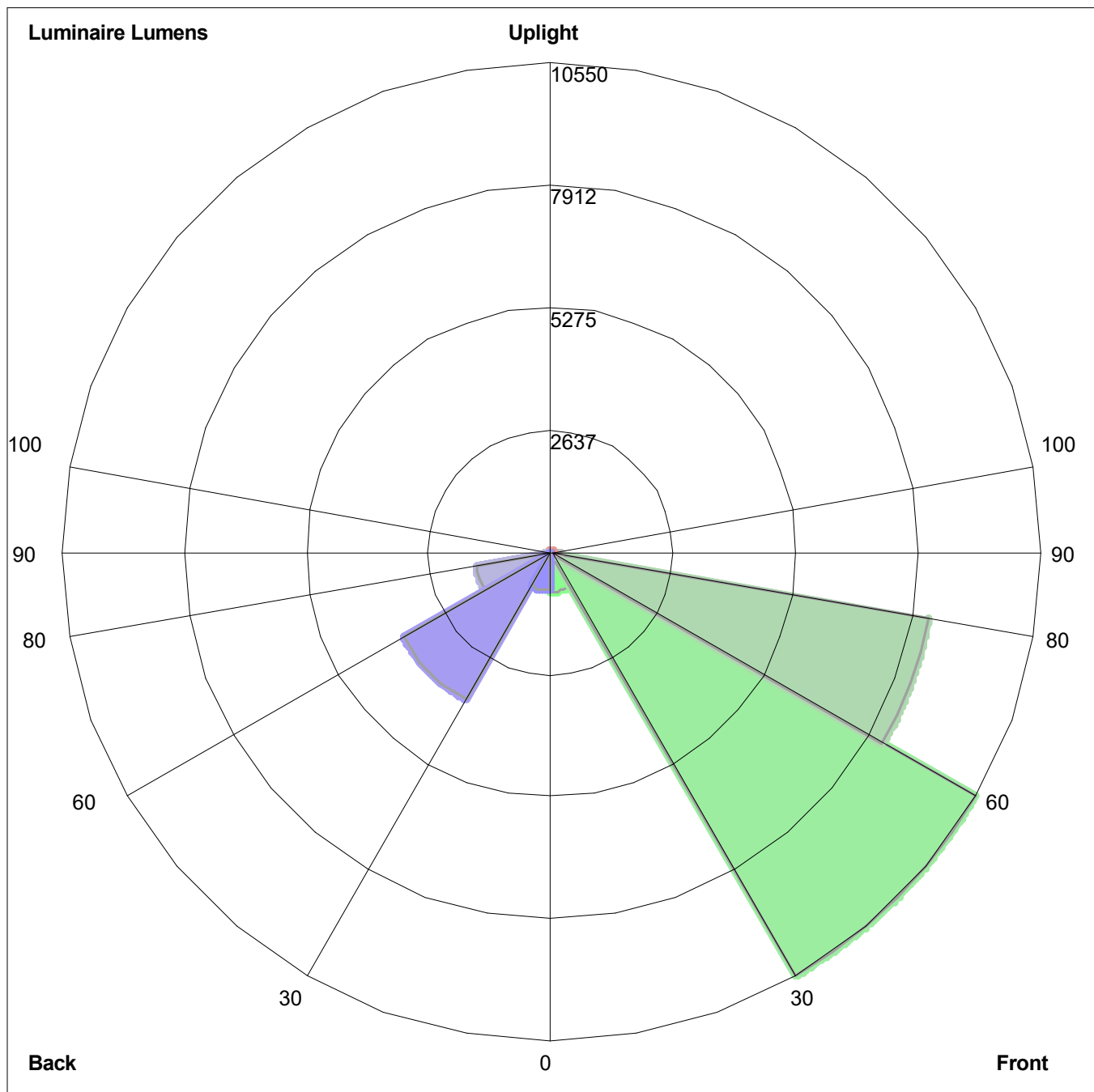


Maximum Candela = 24471 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=848.7, Medium= 10550.0, High=8261.3, Very High=218.1
Back: Low=832.5, Medium=3667.2, High=1643.3, Very High=157.7
Uplight: Low=20.1, High=35.8

BUG Rating : B3-U2-G4