



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-50.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-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	28683
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26754
Maximum Candela Angle	52.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	26754
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 67.5V
Maximum Candela At 90 Degrees Vertical	165 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1877 (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)	927.9	N.A.	3.2
FM - Front-Medium (30-60)	11534.4	N.A.	40.2
FH - Front-High (60-80)	9032.2	N.A.	31.5
FVH - Front-Very High (80-90)	238.4	N.A.	0.8
BL - Back-Low (0-30)	910.2	N.A.	3.2
BM - Back-Medium (30-60)	4009.4	N.A.	14.0
BH - Back-High (60-80)	1796.7	N.A.	6.3
BVH - Back-Very High (80-90)	172.4	N.A.	0.6
UL - Uplight-Low (90-100)	22.0	N.A.	0.1
UH - Uplight-High (100-180)	39.6	N.A.	0.1
Total	28683.2	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	1357	1357	1357	1357	1357	1357	1357	1357	1357	1357
2.5	1378	1379	1372	1372	1365	1355	1351	1351	1341	1338
5.0	1329	1323	1320	1330	1351	1377	1392	1385	1361	1331
7.5	1278	1292	1285	1278	1276	1282	1285	1307	1387	1344
10.0	1323	1323	1348	1319	1316	1323	1317	1337	1367	1453
12.5	1387	1385	1391	1377	1394	1428	1405	1416	1436	1514
15.0	1517	1497	1508	1485	1490	1517	1541	1563	1522	1599
17.5	1712	1655	1681	1668	1675	1662	1673	1697	1672	1692
20.0	1990	1956	1893	1850	1885	1900	1904	1895	1878	1835
22.5	2294	2264	2253	2235	2154	2186	2198	2186	2141	2065
25.0	2715	2692	2647	2611	2667	2644	2640	2635	2575	2455
27.5	3244	3201	3239	3273	3317	3379	3265	3255	3247	3071
30.0	3952	3991	3962	4058	4243	4243	4119	4106	4107	3714
32.5	4745	4786	4892	5131	5246	5326	5204	5063	4852	4339
35.0	5507	5559	5772	6117	6343	6468	6263	6133	5560	4883
37.5	6244	6305	6615	7058	7420	7607	7299	7054	6287	5375
40.0	6893	7002	7375	8021	8483	8595	8227	7933	6851	5823
42.5	7625	7758	8200	8990	9588	9570	9150	8811	7450	6263
45.0	8749	8784	9286	10166	10657	10483	10008	9612	7974	6674
47.5	10231	10260	10797	11626	11874	11389	10747	10323	8501	7135
50.0	12233	12238	12751	13457	13341	12368	11477	10982	9003	7824
52.5	14770	14754	15170	15571	15192	13601	12385	11749	9765	8944
55.0	17134	17293	17727	18045	17218	15040	13448	12821	10989	10531
57.5	18108	18262	18986	19938	19594	17031	15474	14761	13164	12224
60.0	16716	16904	18601	20350	21538	19971	18952	18484	15557	13758
62.5	10473	11006	13646	18302	22109	23055	23206	22483	17703	14709
65.0	4808	5092	6825	11624	18960	23971	26521	25851	18758	14894
67.5	2640	2770	3353	5173	12069	21210	26754	26751	19126	13156
70.0	1591	1664	2039	3025	5663	14935	22829	24197	16874	8680
72.5	1033	1084	1399	2058	3572	7905	15601	17396	10243	3721
75.0	743	782	1046	1601	2570	4025	8021	9205	4254	1334
77.5	537	555	790	1329	2133	2523	3378	4003	1893	724
80.0	365	377	595	1039	1794	1707	1656	1877	1015	447
82.5	253	271	427	718	1313	1087	871	858	625	335
85.0	208	220	312	530	670	551	413	407	373	228
87.5	208	247	215	339	338	154	167	181	160	131
90.0	51	81	57	52	42	40	45	47	49	44
92.5	7	7	8	10	14	27	38	41	47	41
95.0	4	4	6	7	11	23	34	37	42	40
97.5	4	3	4	7	10	20	27	30	37	35
100.0	4	3	4	7	8	13	18	20	27	28
102.5	3	3	4	7	7	8	10	11	18	21
105.0	3	3	4	6	7	7	8	8	10	13
107.5	3	3	4	6	6	7	7	7	8	10
110.0	3	3	4	6	6	6	7	7	7	8
112.5	3	3	4	6	6	6	7	6	7	8
115.0	3	3	4	6	6	6	6	6	7	8
117.5	3	3	4	6	6	6	6	6	7	7
120.0	3	3	4	6	6	6	6	7	7	8
122.5	4	3	4	6	6	6	7	7	7	8
125.0	4	4	4	6	6	6	7	7	7	7
127.5	4	4	4	6	6	7	7	7	7	8
130.0	6	4	4	6	6	7	7	7	7	8

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CANDELA TABULATION - (Cont.)

132.5	6	6	6	6	7	7	7	7	7	8
135.0	7	6	6	7	7	7	7	7	8	8
137.5	7	6	6	7	7	7	7	7	8	8
140.0	7	7	6	7	7	7	7	7	8	8
142.5	7	6	6	6	6	6	7	6	7	7
145.0	4	3	4	4	4	4	4	4	6	6
147.5	1	1	3	3	3	3	3	3	4	6
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	1357	1357	1357	1357	1357	1357	1357	1357	1357	1357
2.5	1347	1353	1348	1340	1360	1379	1392	1408	1411	1408
5.0	1313	1327	1327	1346	1391	1463	1473	1413	1392	1396
7.5	1326	1324	1338	1394	1471	1395	1374	1401	1415	1440
10.0	1375	1351	1385	1514	1471	1454	1484	1535	1569	1559
12.5	1466	1443	1478	1586	1532	1587	1630	1658	1651	1705
15.0	1542	1519	1580	1654	1638	1737	1751	1767	1823	1904
17.5	1651	1603	1651	1730	1775	1839	1878	1966	2047	2088
20.0	1785	1713	1733	1809	1912	1963	2048	2148	2257	2358
22.5	1962	1847	1860	1897	2034	2123	2211	2374	2571	2694
25.0	2264	2089	2028	2014	2146	2263	2383	2673	2885	3022
27.5	2735	2373	2246	2089	2283	2383	2613	2930	3330	3408
30.0	3149	2690	2459	2182	2331	2519	2806	3278	3721	3899
32.5	3508	2907	2602	2201	2390	2613	2968	3533	4316	4547
35.0	3834	3104	2715	2191	2377	2698	3070	3823	4890	5234
37.5	4133	3283	2817	2172	2342	2717	3081	3924	5478	5908
40.0	4415	3451	2913	2153	2318	2733	3060	3967	6165	6383
42.5	4690	3606	2995	2147	2270	2704	2995	3932	6820	6480
45.0	5003	3777	3080	2134	2215	2657	2948	3842	7335	6151
47.5	5441	3986	3173	2141	2158	2601	2892	3675	7275	5812
50.0	6096	4283	3288	2151	2090	2536	2832	3524	6821	5485
52.5	6935	4613	3385	2141	2018	2455	2746	3340	6113	5149
55.0	7766	4984	3501	2106	1931	2339	2664	3124	5319	4824
57.5	8590	5446	3600	2013	1829	2186	2521	2907	4523	4492
60.0	9494	5820	3436	1874	1713	2015	2348	2695	3768	4138
62.5	10284	5738	2883	1697	1625	1840	2161	2464	3107	3836
65.0	9978	5009	2198	1518	1522	1673	1948	2256	2626	3528
67.5	7581	3516	1623	1334	1416	1534	1755	2102	2274	3146
70.0	4151	1861	1085	1111	1248	1358	1577	1931	2001	2717
72.5	1341	797	690	879	1063	1167	1381	1716	1755	2239
75.0	707	499	526	711	888	1005	1184	1398	1381	1714
77.5	386	324	407	574	732	862	995	770	767	1091

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CANDELA TABULATION - (Cont.)

80.0	284	247	329	471	592	626	705	526	452	646
82.5	213	178	259	380	457	358	379	367	302	445
85.0	143	114	189	286	253	229	222	205	163	307
87.5	78	52	123	150	131	114	96	112	86	171
90.0	30	10	35	33	30	27	23	47	20	48
92.5	28	10	21	20	20	17	14	8	6	1
95.0	28	11	21	21	21	18	16	10	6	3
97.5	27	11	21	21	21	20	16	10	6	3
100.0	23	11	18	20	21	20	17	10	7	3
102.5	18	10	16	18	20	18	17	11	7	4
105.0	13	10	14	16	18	18	16	11	7	4
107.5	11	10	13	14	17	17	16	11	7	4
110.0	10	10	11	13	16	16	14	11	7	4
112.5	10	10	11	13	14	14	14	11	8	4
115.0	10	10	11	13	14	14	13	11	8	4
117.5	10	10	11	13	14	14	13	10	7	4
120.0	10	10	11	13	14	14	13	10	8	4
122.5	10	10	11	13	14	16	14	11	8	6
125.0	10	10	11	13	16	16	14	11	8	6
127.5	10	10	11	13	16	16	16	11	8	6
130.0	10	10	11	13	16	16	14	11	8	6
132.5	10	10	11	13	14	16	14	11	8	6
135.0	10	10	11	13	14	14	13	10	8	6
137.5	8	10	10	11	13	13	13	10	7	4
140.0	8	10	10	11	13	13	11	8	7	4
142.5	8	8	10	10	11	11	10	8	6	3
145.0	7	8	8	8	10	10	8	6	4	1
147.5	7	7	7	8	8	8	7	4	1	0
150.0	6	7	7	7	8	7	6	4	1	0
152.5	6	7	7	7	7	7	6	3	1	0
155.0	6	7	7	7	7	7	6	3	0	0
157.5	6	6	6	7	7	6	4	3	0	0
160.0	6	6	6	6	6	6	4	1	0	0
162.5	4	6	6	6	6	4	4	1	0	0
165.0	4	6	6	6	6	4	4	1	0	0
167.5	4	6	6	6	6	6	4	1	0	0
170.0	6	6	6	6	6	6	4	1	0	0
172.5	6	6	6	6	6	6	4	1	0	0
175.0	4	6	6	6	6	6	4	1	0	0
177.5	4	6	6	6	6	4	4	1	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175.0	180.0
0.0	1357	1357
2.5	1402	1395
5.0	1392	1401
7.5	1453	1450
10.0	1584	1560
12.5	1700	1712
15.0	1898	1897
17.5	2127	2150
20.0	2441	2465
22.5	2746	2714
25.0	3063	3088

IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-3-LED-25L-50.IES

CANDELA TABULATION - (Cont.)

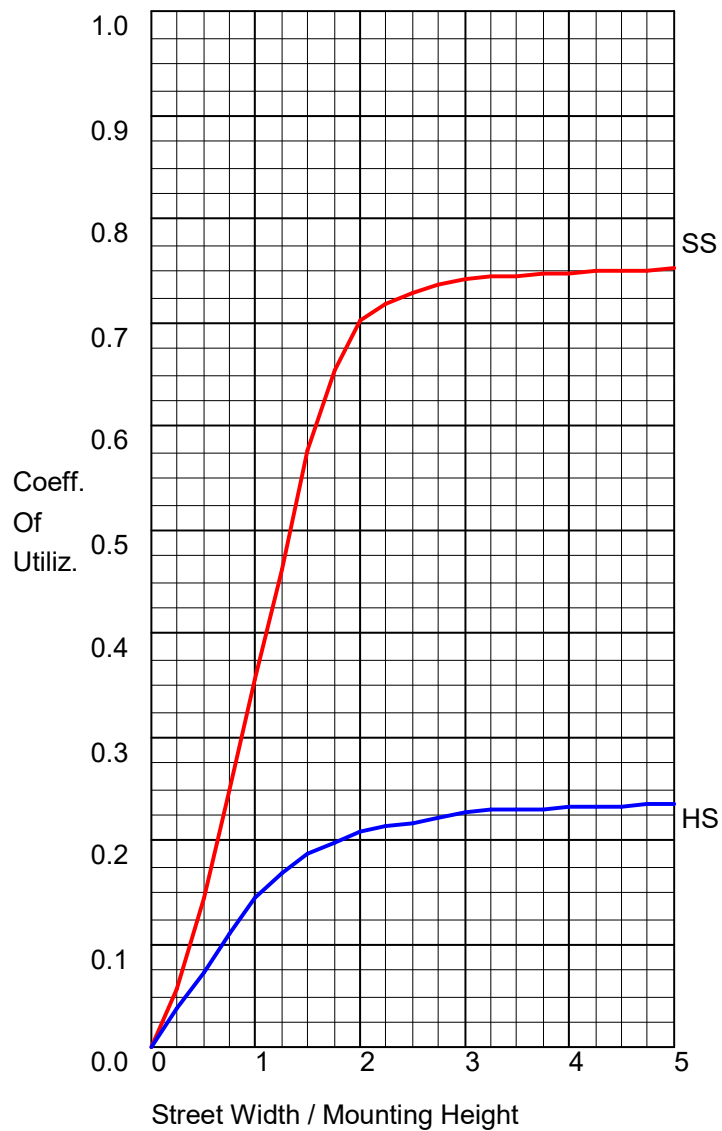
27.5	3374	3350
30.0	3815	3778
32.5	4280	4191
35.0	4709	4582
37.5	4882	4701
40.0	4721	4452
42.5	4193	3935
45.0	3827	3586
47.5	3570	3347
50.0	3394	3167
52.5	3271	3010
55.0	3189	2883
57.5	3131	2783
60.0	3119	2725
62.5	3197	2793
65.0	3283	2910
67.5	3319	3059
70.0	3224	3163
72.5	2794	2859
75.0	1972	2205
77.5	1566	1819
80.0	1197	1388
82.5	885	947
85.0	690	736
87.5	1036	1216
90.0	139	165
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

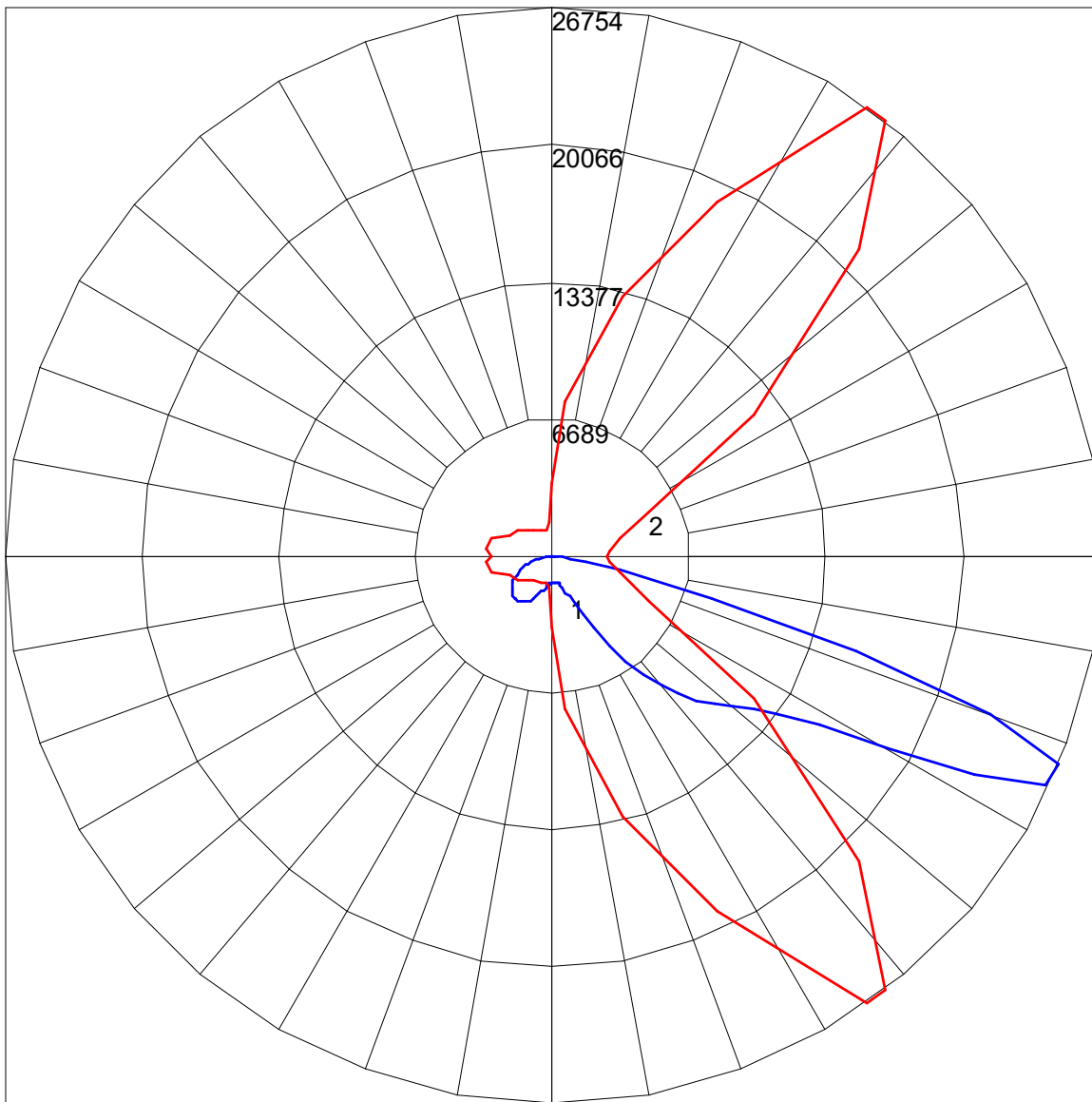
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

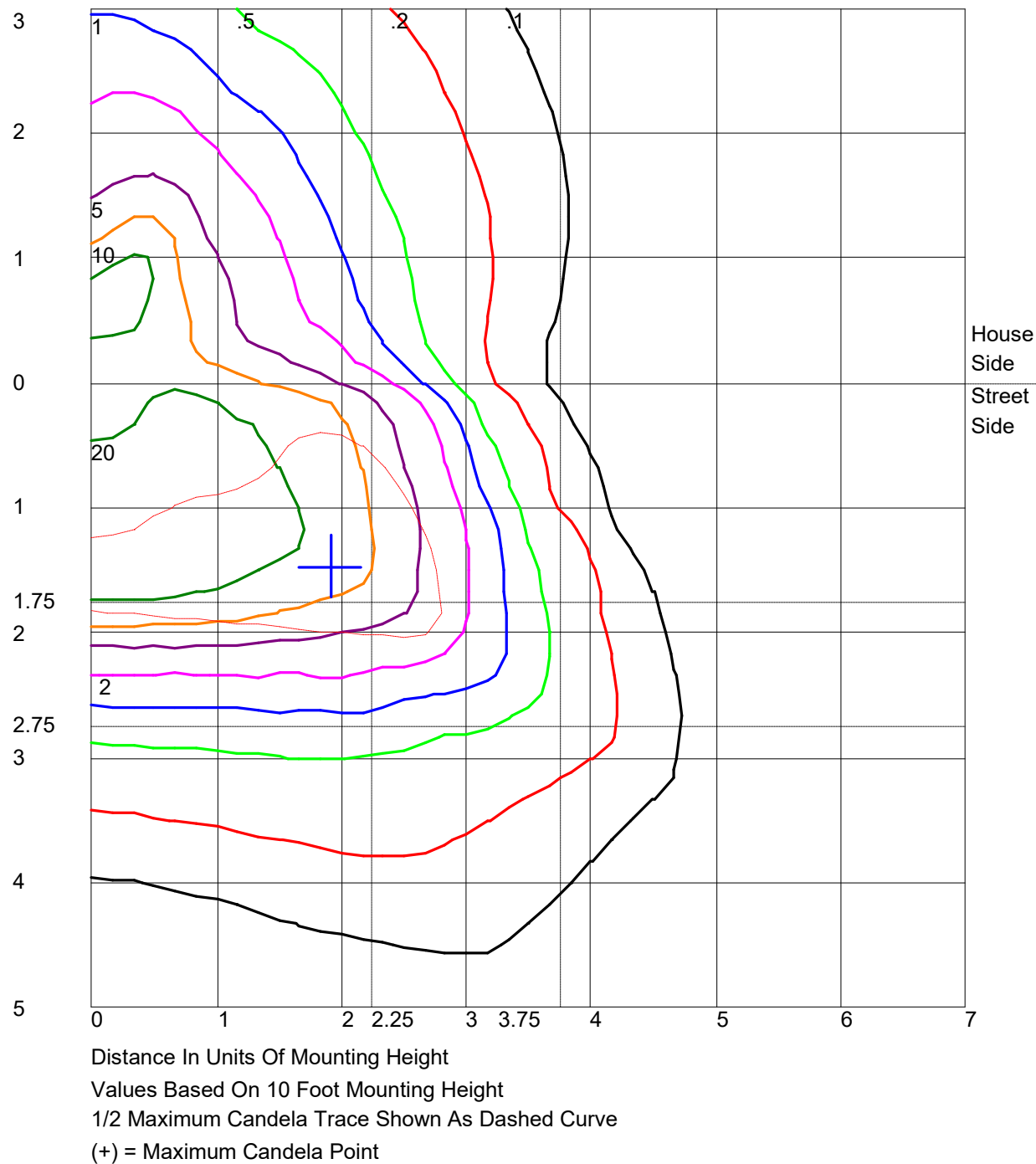
	Lumens	Percent Of Luminaire
Downward Street Side	21733.0	75.8
Downward House Side	6888.7	24.0
Downward Total	28621.7	99.8
Upward Street Side	29.4	0.1
Upward House Side	32.2	0.1
Upward Total	61.6	0.2
Total Flux	28683.3	100.0

POLAR GRAPH

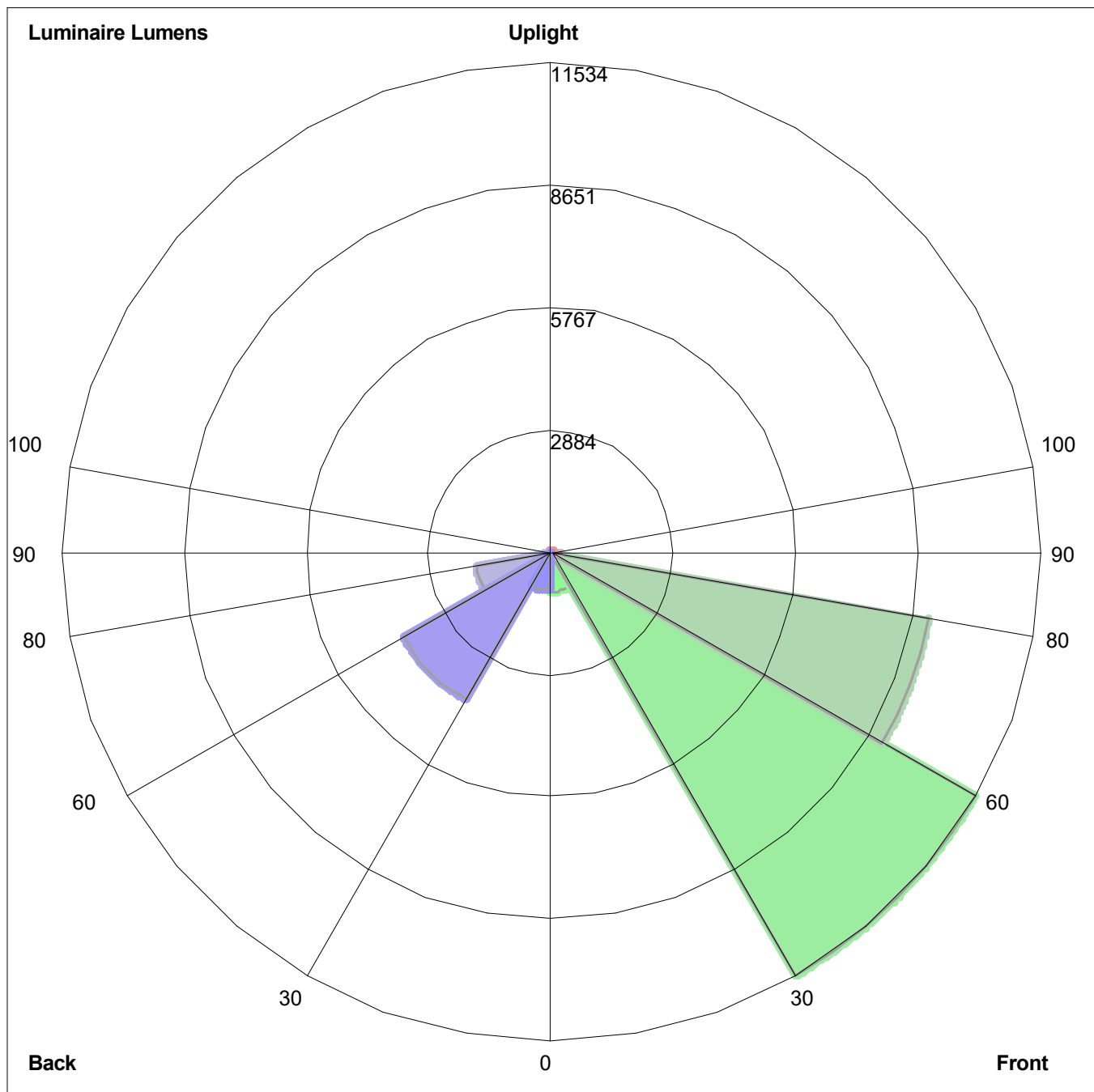


Maximum Candela = 26754 Located At Horizontal Angle = 52.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=927.9, Medium=11534.4, High=9032.2, Very High=238.4
Back: Low=910.2, Medium=4009.4, High=1796.7, Very High=172.4
Uplight: Low=22.0, High=39.6

BUG Rating : B3-U2-G4