



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW-HSS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7588
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]04/29/2016
[TEST DATE]04/29/2016
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XLCL-FTA-LED-SS-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SACO FLAT BLACK SHIELD
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	48395
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	429.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	43558
Maximum Candela Angle	10H 32.5V
Maximum Candela (<90 Degrees Vertical)	43558
Maximum Candela Angle (<90 Degrees Vertical)	10H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	965 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW-HSS.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	8183.5	N.A.	16.9
FM - Front-Medium (30-60)	28777.3	N.A.	59.5
FH - Front-High (60-80)	5015.8	N.A.	10.4
FVH - Front-Very High (80-90)	154.0	N.A.	0.3
BL - Back-Low (0-30)	2784.8	N.A.	5.8
BM - Back-Medium (30-60)	2732.4	N.A.	5.6
BH - Back-High (60-80)	726.7	N.A.	1.5
BVH - Back-Very High (80-90)	20.6	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	48395.1	N.A.	100.0
BUG Rating	B4-U0-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW-HSS.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	12581	12581	12581	12581	12581	12581	12581	12581	12581	12581
2.5	12775	12826	12843	12824	12777	12784	12741	12739	12696	12667
5.0	13811	13848	13863	13846	13653	13506	13252	13081	12991	12918
7.5	14286	14329	14342	14312	14269	14243	14204	14068	13569	13279
10.0	14891	14931	14944	14931	14871	14874	14840	14782	14573	13800
12.5	16334	16509	16766	16591	16471	16447	16063	15508	15329	14365
15.0	18284	18451	18738	18582	18285	17446	16844	16332	15500	14732
17.5	19915	19943	20314	20050	19665	18939	17494	16736	16050	15303
20.0	22398	22536	22838	22312	21233	19959	18678	17045	16348	15420
22.5	26094	26133	26350	25338	23631	21636	19574	17914	16563	15474
25.0	30307	30261	30446	29319	26999	23919	20922	18377	16631	15412
27.5	35116	35063	35169	33674	30837	27443	22634	19004	16952	15372
30.0	40182	40204	40288	38950	35345	31095	25179	20123	17457	15342
32.5	42973	43209	43558	42861	40032	35321	28136	21640	17717	15368
35.0	42250	42651	43090	42999	42643	39397	31685	23954	18114	15365
37.5	40535	40801	41217	41159	41848	41599	35580	26284	18741	14815
40.0	38830	39028	39596	39493	40037	40900	38694	28961	19503	15274
42.5	35789	35979	36834	37027	38341	38959	39573	32041	20849	15329
45.0	30847	31520	32355	33117	35405	37154	38129	34789	22519	15298
47.5	25138	25657	26788	27760	30843	34322	36159	35992	24372	15251
50.0	20098	20528	21199	22249	25322	30193	34058	35072	26432	15241
52.5	16437	16666	17240	17855	19981	24773	30384	32518	28119	15024
55.0	13746	13914	14032	14414	15982	19303	25505	29809	28861	15076
57.5	11392	11632	11849	12328	13172	14694	19799	26305	27981	15351
60.0	5516	5832	6425	7530	10733	12289	14708	21684	25639	15752
62.5	1793	1784	1854	2087	4779	9732	11514	16418	22661	16049
65.0	1099	1101	1167	1228	1538	4165	9183	11699	18607	15262
67.5	932	968	949	936	953	1287	4663	8349	13274	13586
70.0	962	1000	1016	1021	962	885	1238	5499	8409	11503
72.5	737	749	758	791	922	971	847	1664	5024	8694
75.0	853	858	855	789	712	755	919	769	2913	5661
77.5	688	703	712	737	830	809	672	821	767	2701
80.0	524	528	520	520	542	635	822	579	545	965
82.5	397	402	407	408	430	484	507	635	408	275
85.0	201	202	214	214	242	295	326	363	328	134
87.5	101	101	104	107	117	124	139	146	130	67
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW-HSS.IES

CANDELA TABULATION - (Cont.)

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

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	12581	12581	12581	12581	12581	12581	12581	12581	12581	12581
2.5	12658	12621	12606	12547	12504	12478	12431	12437	12423	12408
5.0	12837	12750	12696	12578	12478	12408	12329	12313	12290	12274
7.5	13099	12970	12892	12706	12559	12434	12324	12300	12116	11856
10.0	13420	13201	13027	12697	12481	12375	11789	11396	11079	10696
12.5	13532	13208	12939	12527	12353	11641	11004	9985	8841	7940
15.0	13535	13125	12783	12367	12040	11038	9301	7391	5780	4628
17.5	13578	13094	12694	12287	11370	9618	6952	4505	2629	1508
20.0	13617	13036	12574	12213	10824	7705	4440	1746	831	673
22.5	13618	12952	12437	12065	9733	5585	1850	778	671	630
25.0	13578	12826	12289	11516	8226	3364	790	674	611	553
27.5	13623	12723	12144	11037	6517	1413	615	566	521	506
30.0	13692	12574	11995	10478	4727	681	525	487	493	594
32.5	13801	12452	11833	9701	2977	546	448	478	610	820
35.0	13694	12230	11648	8709	1509	497	425	592	907	1082
37.5	13287	11887	11402	7553	916	445	526	863	1081	1071
40.0	12753	11450	11112	6203	797	419	702	1055	1139	1137
42.5	12463	11151	10830	4845	777	482	993	1065	1225	1274
45.0	12371	10949	10537	3428	731	614	1128	1166	1334	1431
47.5	12418	10762	10163	2234	653	917	1187	1337	1437	1509
50.0	12283	10392	9568	1406	593	1159	1346	1507	1523	1444
52.5	11679	9737	8853	970	652	1235	1543	1608	1431	1267
55.0	10998	9135	8063	710	875	1381	1650	1534	1177	960
57.5	10360	8552	7208	523	1133	1580	1671	1274	835	633
60.0	9287	7653	6186	405	1220	1719	1489	920	560	437
62.5	8290	6855	5103	393	1399	1785	1127	619	402	279
65.0	7492	5945	3698	483	1636	1578	757	455	222	132
67.5	6612	5141	2604	662	1823	1122	557	243	114	70
70.0	5212	3928	1658	818	1690	804	334	133	71	30
72.5	4100	3089	918	970	1197	520	166	93	32	0
75.0	2782	1861	448	1041	815	238	112	47	17	0
77.5	1752	1031	212	830	415	143	72	28	13	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW-HSS.IES

CANDELA TABULATION - (Cont.)

80.0	937	488	142	432	154	80	38	21	12	2
82.5	493	217	125	161	72	40	27	21	13	4
85.0	187	84	64	52	33	30	26	21	14	5
87.5	43	33	30	25	23	20	17	14	10	4
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	175	180
0.0	12581	12581
2.5	12393	12505
5.0	12249	12363
7.5	11741	11905
10.0	10467	10641
12.5	7496	7671
15.0	4047	3842
17.5	1142	1043
20.0	607	603
22.5	566	568
25.0	525	545

IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-FTA-LED-SS-CW-HSS.IES

CANDELA TABULATION - (Cont.)

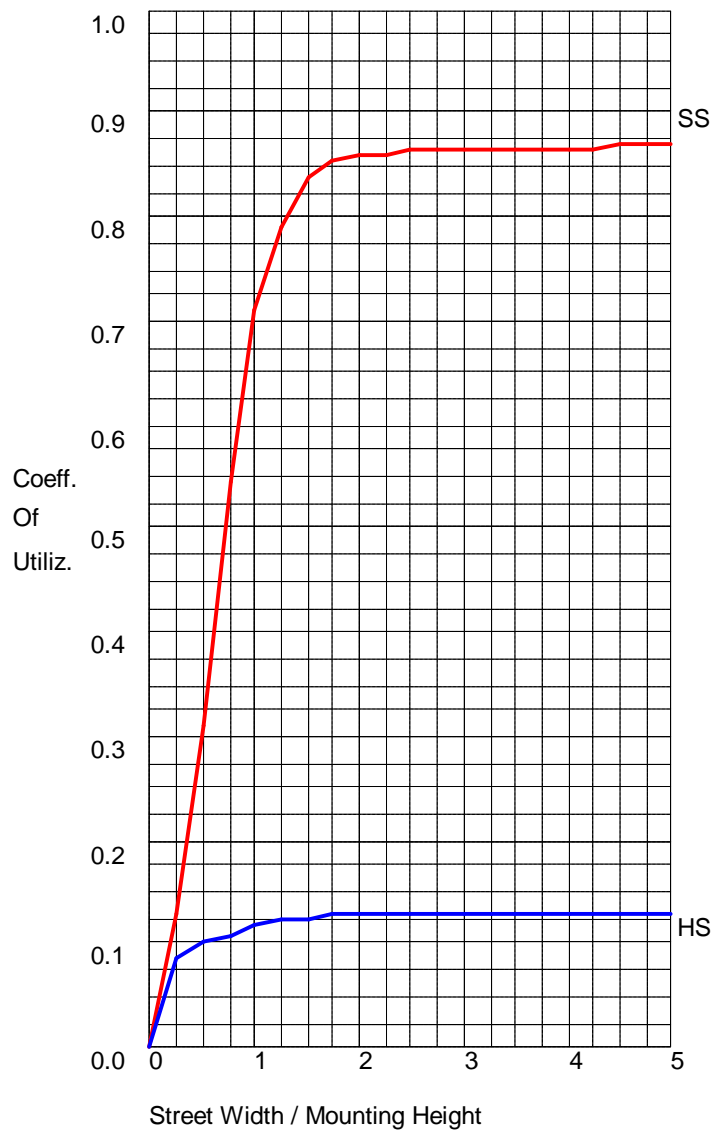
27.5	557	586
30.0	653	687
32.5	910	938
35.0	1070	1073
37.5	1065	1066
40.0	1153	1152
42.5	1322	1315
45.0	1434	1436
47.5	1515	1513
50.0	1400	1398
52.5	1134	1125
55.0	823	809
57.5	556	546
60.0	389	382
62.5	223	226
65.0	99	95
67.5	46	43
70.0	8	5
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
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	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
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 : XLCL-FTA-LED-SS-CW-HSS.IES

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	0	0

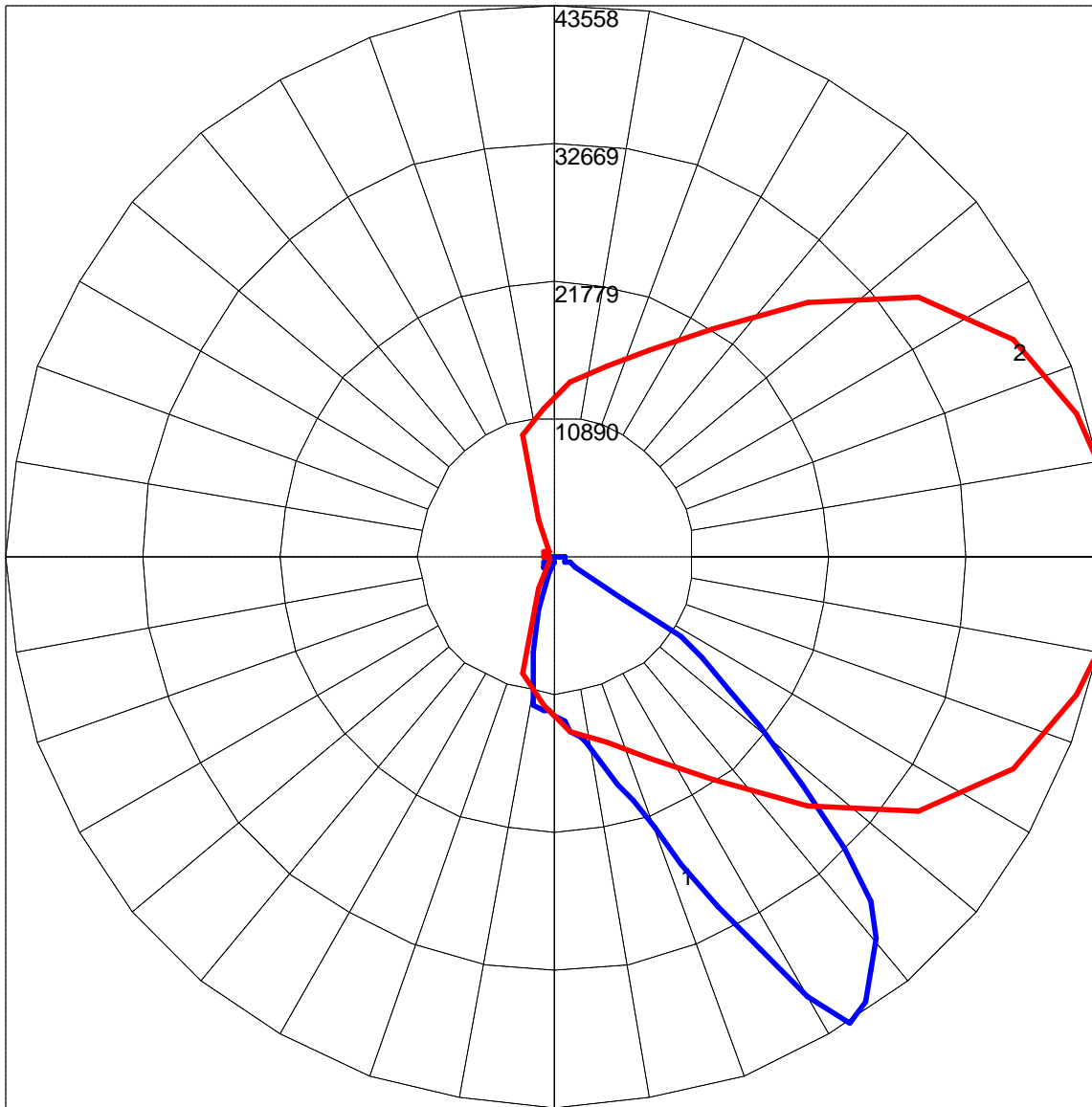
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

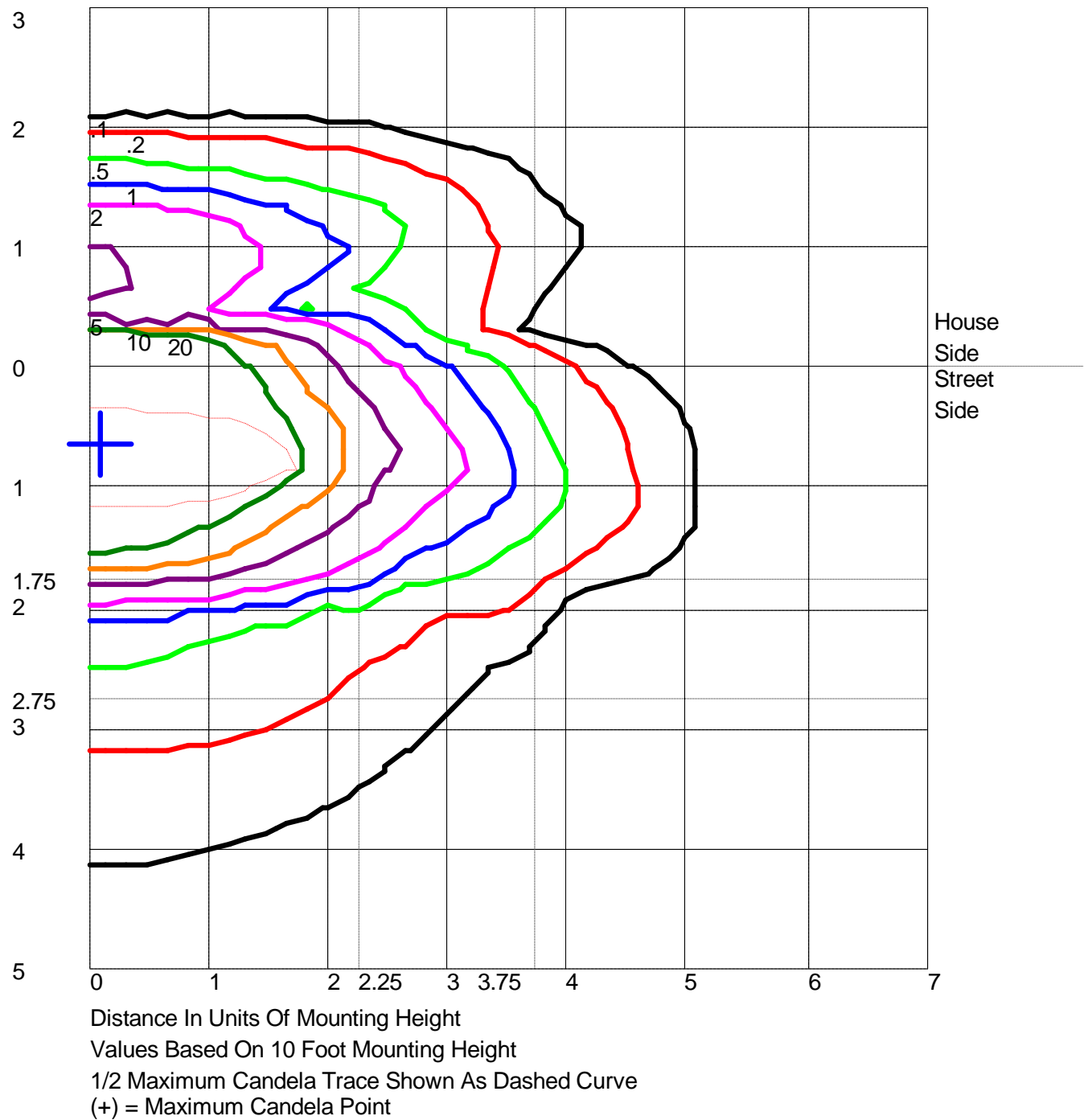
	Lumens	Percent Of Luminaire
Downward Street Side	42130.6	87.1
Downward House Side	6264.5	12.9
Downward Total	48395.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	48395.1	100.0

POLAR GRAPH

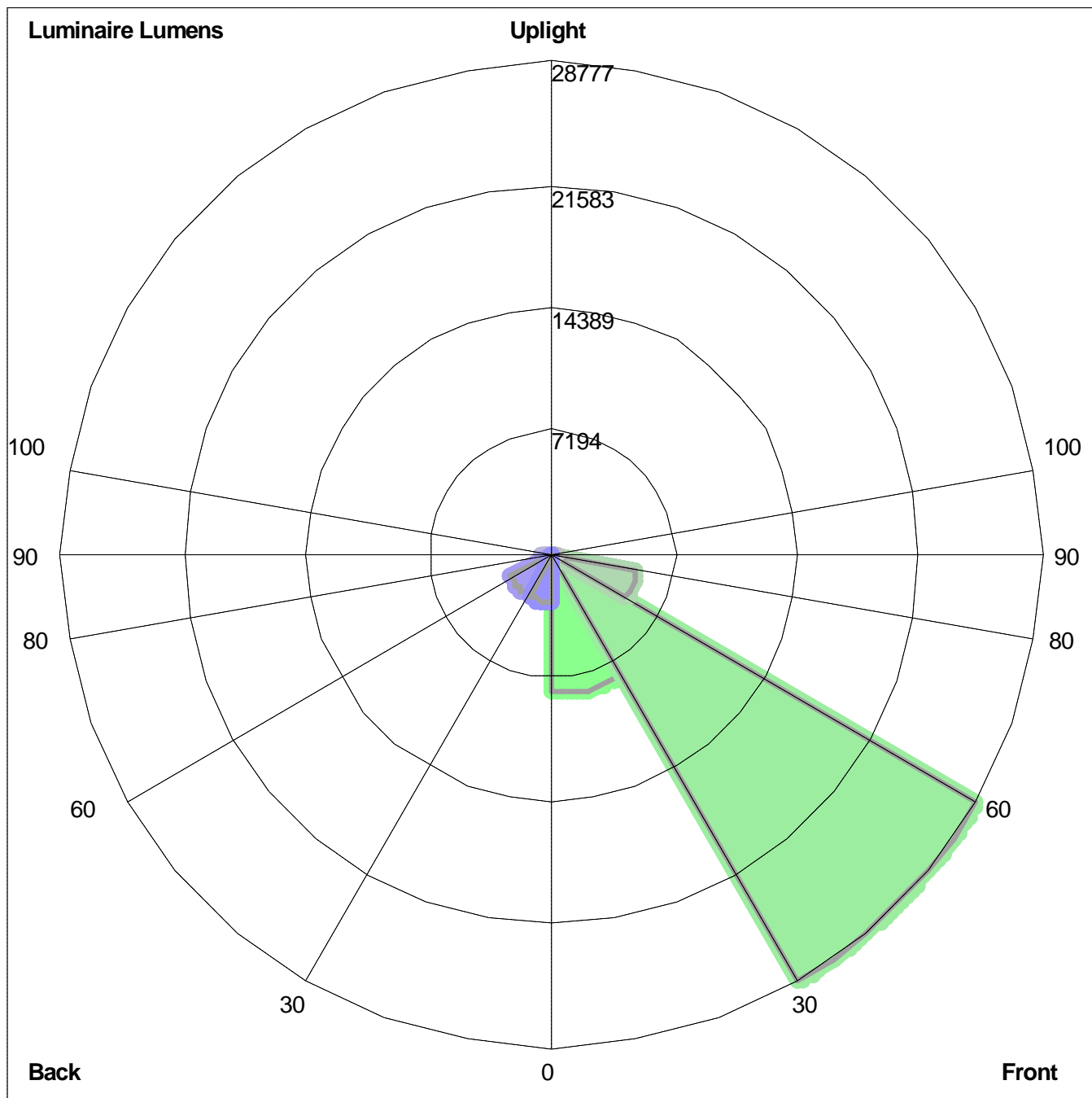


Maximum Candela = 43558 Located At Horizontal Angle = 10, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=8183.5, Medium=28777.3, High=5015.8, Very High=154.0
Back: Low=2784.8, Medium=2732.4, High=726.7, Very High=20.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3