



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7595
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]04/29/2016
[TEST DATE]04/29/2016
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XLCL-FTA-LED-SS-NW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SACO FLAT BLACK SHIELD
[_SEARCH_SOURCE TYPE] 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	47071
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	429.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	40802
Maximum Candela Angle	10H 35V
Maximum Candela (<90 Degrees Vertical)	40802
Maximum Candela Angle (<90 Degrees Vertical)	10H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1063 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	7802.3	N.A.	16.6
FM - Front-Medium (30-60)	27653.6	N.A.	58.7
FH - Front-High (60-80)	4632.4	N.A.	9.8
FVH - Front-Very High (80-90)	146.9	N.A.	0.3
BL - Back-Low (0-30)	3127.7	N.A.	6.6
BM - Back-Medium (30-60)	2958.2	N.A.	6.3
BH - Back-High (60-80)	729.1	N.A.	1.5
BVH - Back-Very High (80-90)	21.1	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	47071.3	N.A.	100.0
BUG Rating	B4-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	10	15	25	35	45	55	65	75
0.0	12776	12776	12776	12776	12776	12776	12776	12776	12776	12776
2.5	12985	13016	12978	12987	12986	12974	12958	12921	12899	12881
5.0	14001	14023	13986	13977	13947	13801	13506	13234	13177	13121
7.5	14407	14424	14413	14368	14332	14317	14310	14240	13847	13455
10.0	14997	15004	15102	14967	15054	15144	15083	15029	14915	14040
12.5	16201	16216	16171	16300	16320	16183	15951	15610	15311	14485
15.0	17617	17738	17664	17898	17752	16964	16465	15953	15398	14916
17.5	18716	18772	18715	18917	18696	18070	17150	16228	15596	15125
20.0	20806	20845	20833	20815	19906	18743	17967	16493	15999	15221
22.5	23927	24026	23917	23580	21891	20199	18556	16930	16008	15242
25.0	27221	27310	27163	26759	24882	22312	19587	17329	16166	15148
27.5	31791	31575	31064	30358	27904	25236	21069	17799	16285	15073
30.0	36630	36434	35972	35026	32022	28279	23198	18675	16459	14996
32.5	39992	39962	39813	39041	36299	31736	25547	20169	16749	14694
35.0	40694	40791	40802	40785	39382	35591	28522	21726	17166	15004
37.5	40308	40420	40358	40526	40074	38037	31694	23715	17571	14822
40.0	39214	39341	39362	39554	39636	38680	34613	26015	18397	14394
42.5	36951	37126	37299	37790	38487	38242	36100	28393	19301	14210
45.0	32750	32749	33341	34192	36216	37104	36192	30461	20427	14398
47.5	27209	27242	27703	29125	32133	34697	35355	31798	22120	14617
50.0	21297	21351	21765	23220	26748	30874	33543	31906	23590	14783
52.5	16797	16862	17054	18168	21052	25790	30523	31144	24487	14713
55.0	13597	13466	13760	14279	16201	20182	26104	29057	24666	14578
57.5	9725	10018	10554	11332	12884	15401	20867	25676	24244	14735
60.0	3559	3843	4206	5885	8832	11837	15676	21661	23039	14790
62.5	1639	1670	1687	1968	3842	7747	11661	16990	20786	14287
65.0	1043	1076	1108	1162	1486	3572	7664	12396	17176	12871
67.5	932	937	946	938	966	1290	4021	8337	12683	11167
70.0	888	896	916	923	920	936	1437	4128	9097	9245
72.5	693	687	696	713	804	849	914	2273	5242	6808
75.0	824	816	794	755	694	710	757	920	2497	4380
77.5	660	661	672	708	749	722	738	664	1238	2350
80.0	500	499	495	510	536	635	626	676	524	1063
82.5	368	370	371	385	406	451	498	488	448	469
85.0	179	181	185	188	226	263	294	314	259	178
87.5	98	99	101	102	112	128	139	150	133	64
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

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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	12776	12776	12776	12776	12776	12776	12776	12776	12776	12776
2.5	12851	12896	12785	12734	12709	12661	12637	12627	12622	12606
5.0	13027	13049	12900	12797	12701	12588	12521	12480	12447	12432
7.5	13257	13245	13076	12908	12766	12627	12523	12447	12390	12262
10.0	13636	13530	13276	12958	12725	12546	12198	11731	11626	11579
12.5	13747	13576	13245	12803	12548	12031	11588	11341	10791	10344
15.0	13780	13518	13101	12592	12165	11567	11035	9707	8188	7092
17.5	13850	13474	12998	12468	11896	11151	9345	6951	4962	3481
20.0	13986	13428	12895	12307	11457	9999	6919	3874	1854	1024
22.5	14033	13317	12760	11930	10956	8121	4171	1446	717	621
25.0	13953	13180	12583	11781	10023	5774	1812	674	614	564
27.5	13833	13044	12421	11526	8682	3471	760	570	535	504
30.0	13703	12865	12244	11050	7017	1683	525	498	483	542
32.5	13601	12741	12089	10333	5164	809	459	453	542	673
35.0	13375	12448	11790	9616	3577	521	421	529	722	970
37.5	12922	12082	11433	8742	2436	471	459	699	1020	1095
40.0	12369	11699	11053	7744	1529	451	580	992	1114	1189
42.5	12050	11427	10596	6602	1019	488	811	1155	1247	1339
45.0	11947	11246	10254	5293	823	562	1046	1224	1401	1519
47.5	11963	11102	9885	4160	752	732	1198	1399	1542	1599
50.0	11729	10710	9261	3262	692	993	1383	1578	1612	1555
52.5	11101	10005	8404	2408	669	1220	1567	1677	1526	1359
55.0	10485	9385	7515	1485	818	1391	1737	1633	1287	1037
57.5	9809	8679	6559	799	944	1575	1763	1371	940	684
60.0	8900	7682	5460	477	1084	1754	1578	993	614	465
62.5	7808	6935	4399	419	1346	1805	1218	654	442	323
65.0	6965	6214	3361	498	1573	1609	818	487	290	170
67.5	6124	5036	2524	653	1730	1192	585	297	126	74
70.0	5049	3725	1827	774	1650	826	397	138	68	33
72.5	3937	2834	1349	898	1227	578	180	86	37	9
75.0	2888	1650	777	971	773	272	102	50	20	2
77.5	1686	802	393	741	431	130	67	30	15	3

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CANDELA TABULATION - (Cont.)

80.0	857	389	249	408	138	78	40	23	13	4
82.5	370	193	175	163	73	44	27	22	15	6
85.0	127	75	74	54	36	28	24	20	15	7
87.5	41	29	25	17	16	14	14	13	10	5
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

	<u>175</u>	<u>180</u>
0.0	12776	12776
2.5	12621	12643
5.0	12440	12459
7.5	12147	12157
10.0	11548	11565
12.5	10001	9983
15.0	6691	6647
17.5	2952	2889
20.0	769	713
22.5	569	575
25.0	535	568

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CANDELA TABULATION - (Cont.)

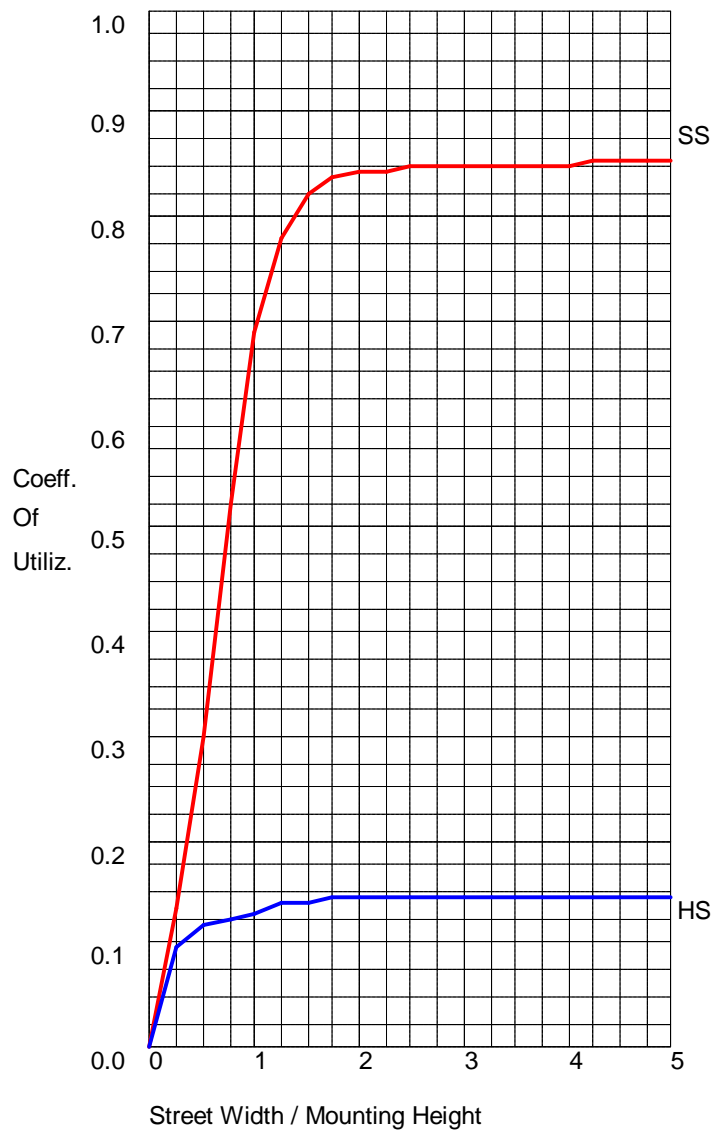
27.5	540	572
30.0	611	631
32.5	766	783
35.0	1030	1035
37.5	1093	1089
40.0	1209	1200
42.5	1388	1384
45.0	1530	1527
47.5	1597	1598
50.0	1494	1483
52.5	1237	1222
55.0	896	882
57.5	604	591
60.0	425	414
62.5	287	279
65.0	126	120
67.5	54	55
70.0	22	20
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	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

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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	0	0

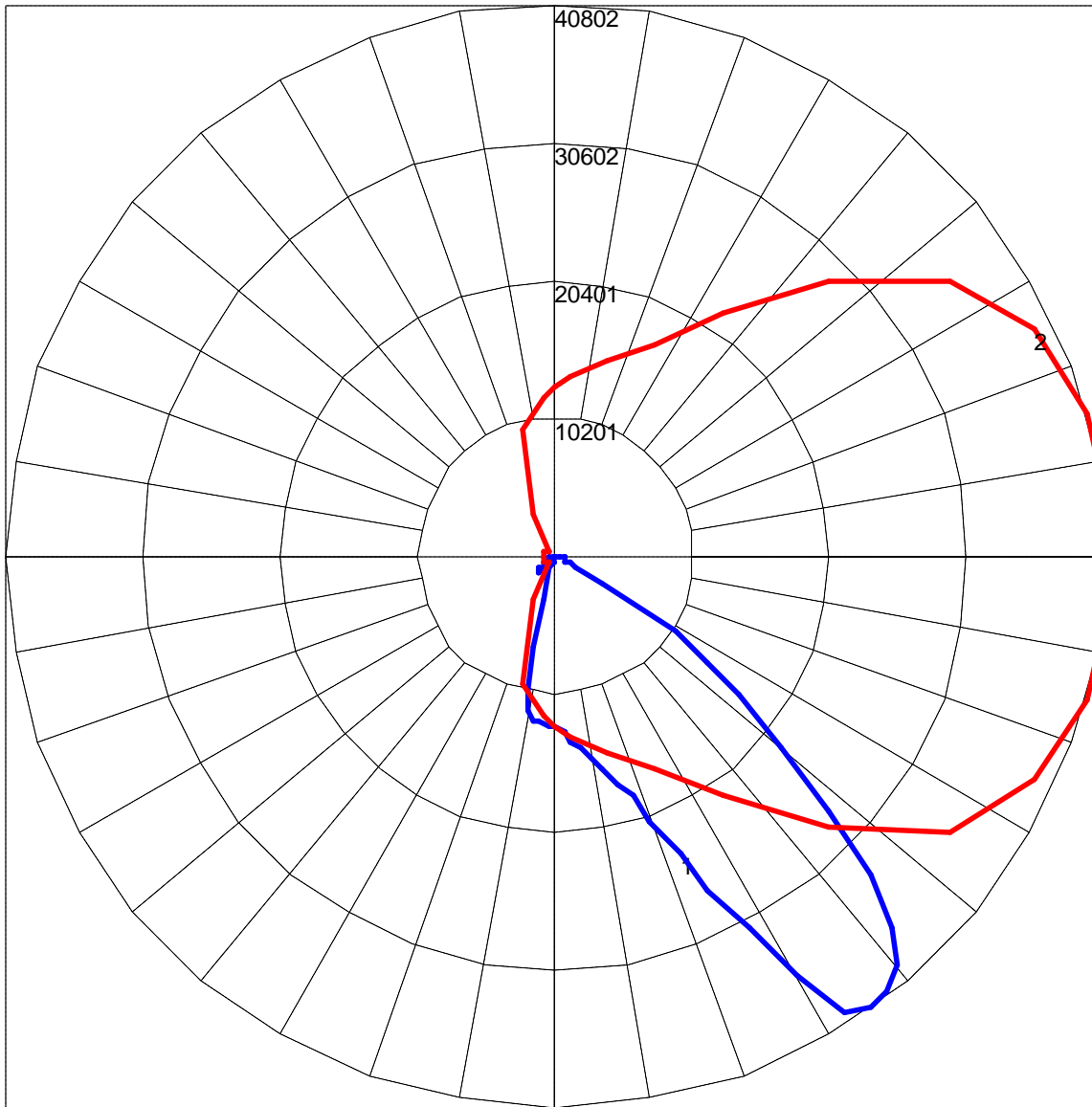
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

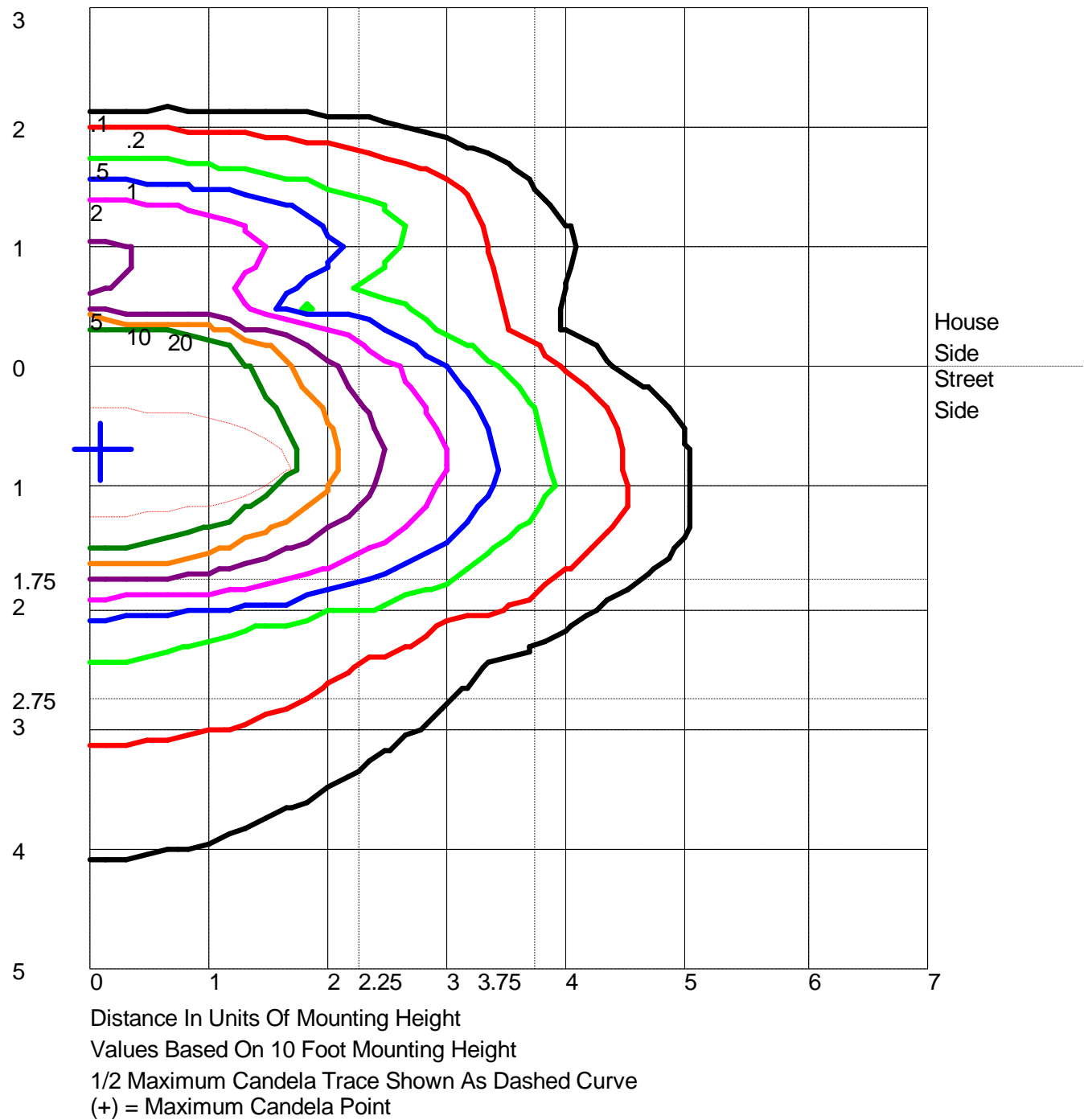
	Lumens	Percent Of Luminaire
Downward Street Side	40235.3	85.5
Downward House Side	6836.1	14.5
Downward Total	47071.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	47071.4	100.0

POLAR GRAPH

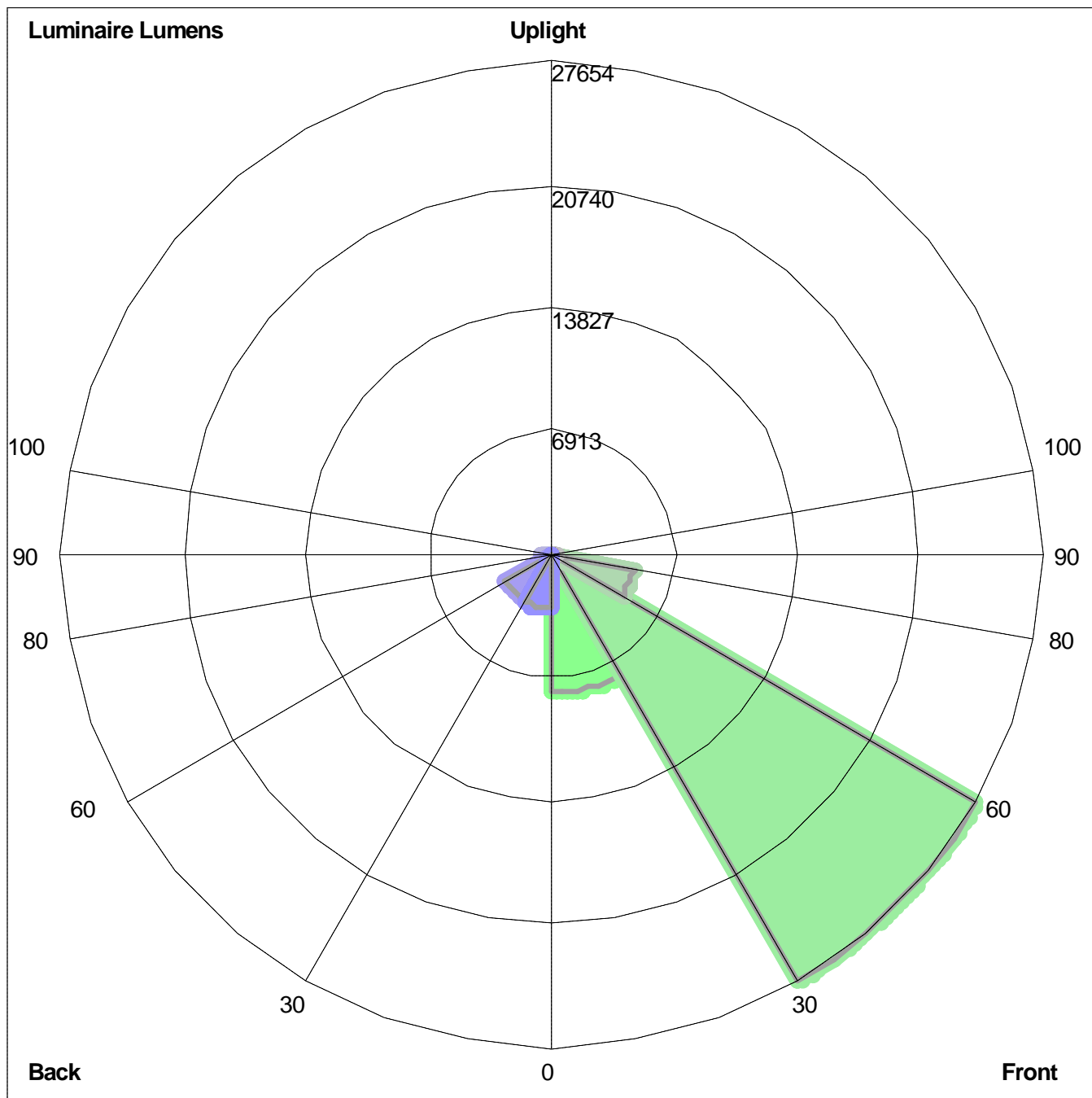


Maximum Candela = 40802 Located At Horizontal Angle = 10, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=7802.3, Medium=27653.6, High=4632.4, Very High=146.9
Back: Low=3127.7, Medium=2958.2, High=729.1, Very High=21.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2