



IES ROAD REPORT
PHOTOMETRIC FILENAME : XLCL-3-LED-SS-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]led-7246
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]09/11/15
[TEST DATE]09/11/15
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-3-LED-SS-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]45829
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	45829
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	424.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27943
Maximum Candela Angle	7.5H 32.5V
Maximum Candela (<90 Degrees Vertical)	27943
Maximum Candela Angle (<90 Degrees Vertical)	7.5H 32.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2477 (5.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6551.3	N.A.	14.3
FM - Front-Medium (30-60)	17525.5	N.A.	38.2
FH - Front-High (60-80)	9415.7	N.A.	20.5
FVH - Front-Very High (80-90)	139.1	N.A.	0.3
BL - Back-Low (0-30)	5263.7	N.A.	11.5
BM - Back-Medium (30-60)	4767.4	N.A.	10.4
BH - Back-High (60-80)	2128.5	N.A.	4.6
BVH - Back-Very High (80-90)	38.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	45829.3	N.A.	100.0
BUG Rating	B5-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	7.5	15.0	25.0	35.0	45.0	55.0	65.0	75.0
0.0	18101	18101	18101	18101	18101	18101	18101	18101	18101	18101
2.5	18321	18354	18475	18294	18290	18290	18280	18250	18154	18097
5.0	18314	18350	18451	18256	18149	18066	18036	17914	17775	17707
7.5	17872	17889	17959	17794	17725	17699	17790	17713	17637	17518
10.0	17049	17004	17062	16845	16922	17181	17478	17344	17188	16934
12.5	16650	16543	16606	16290	16218	16472	16788	16432	15995	15886
15.0	16795	16692	16789	16387	16146	15912	15986	14962	14537	14466
17.5	17239	17176	17261	16876	16450	15638	14804	13980	13246	13250
20.0	18436	18500	18405	17907	17142	15691	14187	12905	11985	11809
22.5	20404	20472	20365	19644	18254	16038	13690	11822	10854	10380
25.0	22517	22631	22530	21735	19821	16772	13424	10934	10049	9700
27.5	24846	24787	24656	23926	21109	17277	13415	10526	9750	9498
30.0	26863	26769	26673	25700	21936	17093	13246	10686	9735	9387
32.5	27780	27891	27943	26320	21553	16354	13234	11064	9792	9297
35.0	27284	27500	27507	25891	20279	15524	13454	11555	9821	9259
37.5	26625	26750	26695	24486	18787	14679	13672	12034	9939	9454
40.0	25535	25767	25754	23180	17101	14195	13815	12522	10445	9878
42.5	24699	24793	24616	21559	15387	13833	13726	13225	11222	10307
45.0	23899	23978	23795	20007	14166	13493	13488	13856	12340	10568
47.5	23284	23482	23279	18972	13443	13318	13419	14256	13430	10843
50.0	22515	22928	22669	18100	13114	13262	13560	14745	14647	11389
52.5	21204	21574	21393	17353	12885	13245	13835	15317	16051	12538
55.0	19546	19630	19486	16038	12412	13090	14199	16283	17764	14102
57.5	17695	17718	17288	14183	11363	12698	14958	17823	19723	15779
60.0	15305	15574	14908	12338	9953	12082	15840	19320	21744	17650
62.5	11459	11566	11099	8897	8475	11279	16741	20739	23295	18910
65.0	6714	6794	6358	5181	6058	10199	16902	21520	22962	18639
67.5	3644	3751	3437	2595	3535	8569	16440	20274	21025	17635
70.0	2579	2836	2769	1783	2392	6873	14641	17654	18238	15400
72.5	747	1043	1275	757	2408	5761	12342	14692	13784	11239
75.0	353	444	480	381	1900	4597	9394	10544	8921	7007
77.5	230	239	248	272	1186	2981	5902	5538	4230	3105
80.0	160	160	165	216	384	1600	2477	2060	1456	1219
82.5	107	106	110	224	208	440	592	557	400	311
85.0	55	58	66	70	73	92	106	95	89	87
87.5	21	21	24	26	30	36	47	51	52	48
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	85.0	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0
0.0	18101	18101	18101	18101	18101	18101	18101	18101	18101	18101
2.5	18163	18115	18090	18076	17970	17807	17899	17958	17851	17912
5.0	17727	17637	17634	17547	17266	17029	16975	16972	16852	16922
7.5	17502	17371	17346	17121	16619	16182	15940	15801	15717	15926
10.0	16792	16689	16586	16207	15570	14935	14776	14811	14924	15290
12.5	15797	15436	15279	14586	14101	14073	14297	14576	14793	15223
15.0	14308	14216	14047	13438	13041	13391	13924	14498	14861	15585
17.5	13073	12988	12772	12108	12030	12692	13604	14437	14957	15712
20.0	11602	11549	11213	10626	10949	11965	13198	14197	14845	15306
22.5	10297	10261	9954	9469	9875	11023	12427	13671	14259	14289
25.0	9652	9620	9321	8802	9070	10067	11415	12550	12859	12355
27.5	9404	9337	9031	8510	8702	9202	10012	10614	10487	9527

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CANDELA TABULATION - (Cont.)

30.0	9358	9253	8912	8331	8491	8579	8443	8344	7674	6502
32.5	9380	9282	8891	8207	8307	7925	6896	6054	4814	3831
35.0	9382	9320	8948	8132	8114	7120	5380	3800	2771	2032
37.5	9686	9505	9019	8069	7826	6130	3943	2160	1512	1293
40.0	10106	9713	9151	8207	7506	5019	2695	1200	906	1117
42.5	10354	10073	9448	8446	7136	3905	1795	787	628	974
45.0	10359	10054	9542	8774	6628	2718	1308	632	499	730
47.5	10331	10229	10014	9277	5989	1771	1198	567	426	489
50.0	11091	11009	10784	10017	5285	1206	1189	519	388	389
52.5	12227	12142	11899	11065	4491	982	1091	478	360	345
55.0	13377	13374	13175	12034	3749	903	975	425	338	303
57.5	14404	14462	14241	12582	2988	830	881	371	318	280
60.0	15177	15253	15436	12784	2359	700	933	328	297	257
62.5	15249	15253	15761	12130	2069	534	921	314	279	246
65.0	14142	14025	14377	10169	1787	452	814	290	267	244
67.5	12938	12788	13393	8521	1460	393	664	241	243	225
70.0	11089	10925	11535	6677	1046	366	526	215	219	211
72.5	7621	7479	7838	4478	749	339	440	194	207	192
75.0	4574	4453	4595	2273	433	303	370	172	172	170
77.5	1936	1765	1908	894	287	244	292	141	129	154
80.0	696	634	661	294	193	183	172	105	98	134
82.5	173	164	163	137	111	110	104	76	79	75
85.0	76	76	76	72	65	52	54	43	39	36
87.5	42	39	35	29	18	10	6	3	2	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

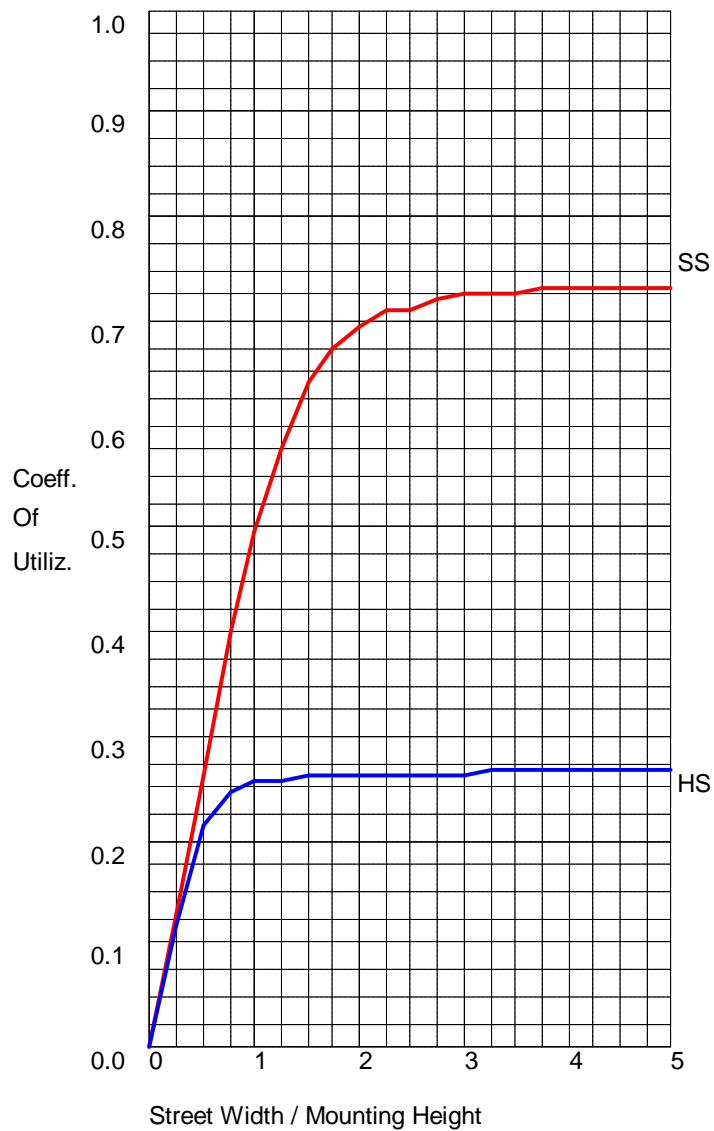
	175.0	180.0
0.0	18101	18101
2.5	17845	18043
5.0	16886	17087
7.5	15987	16089
10.0	15646	15806
12.5	15664	15803
15.0	15906	16049
17.5	15989	16189
20.0	15713	15871
22.5	14307	14419
25.0	12266	12391
27.5	9323	9455
30.0	6267	6402
32.5	3700	3927
35.0	2237	2441
37.5	1642	1815
40.0	1386	1600
42.5	1237	1500
45.0	1122	1421
47.5	935	1224
50.0	676	855
52.5	468	536
55.0	382	420
57.5	381	420
60.0	366	403
62.5	329	380
65.0	298	362

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CANDELA TABULATION - (Cont.)

67.5	270	327
70.0	254	300
72.5	237	276
75.0	222	260
77.5	195	221
80.0	155	176
82.5	88	100
85.0	32	34
87.5	5	7
90.0	0	0

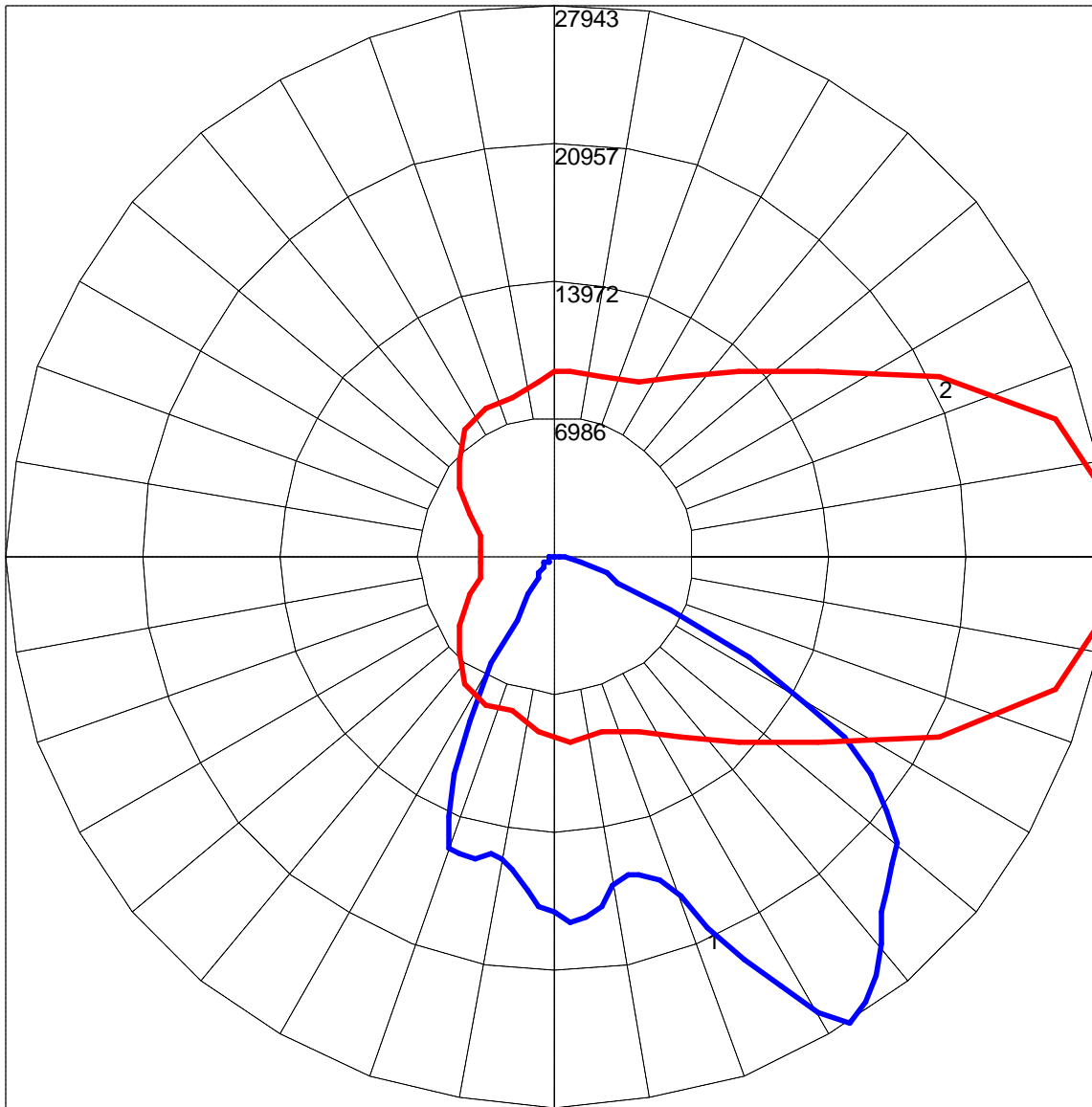
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

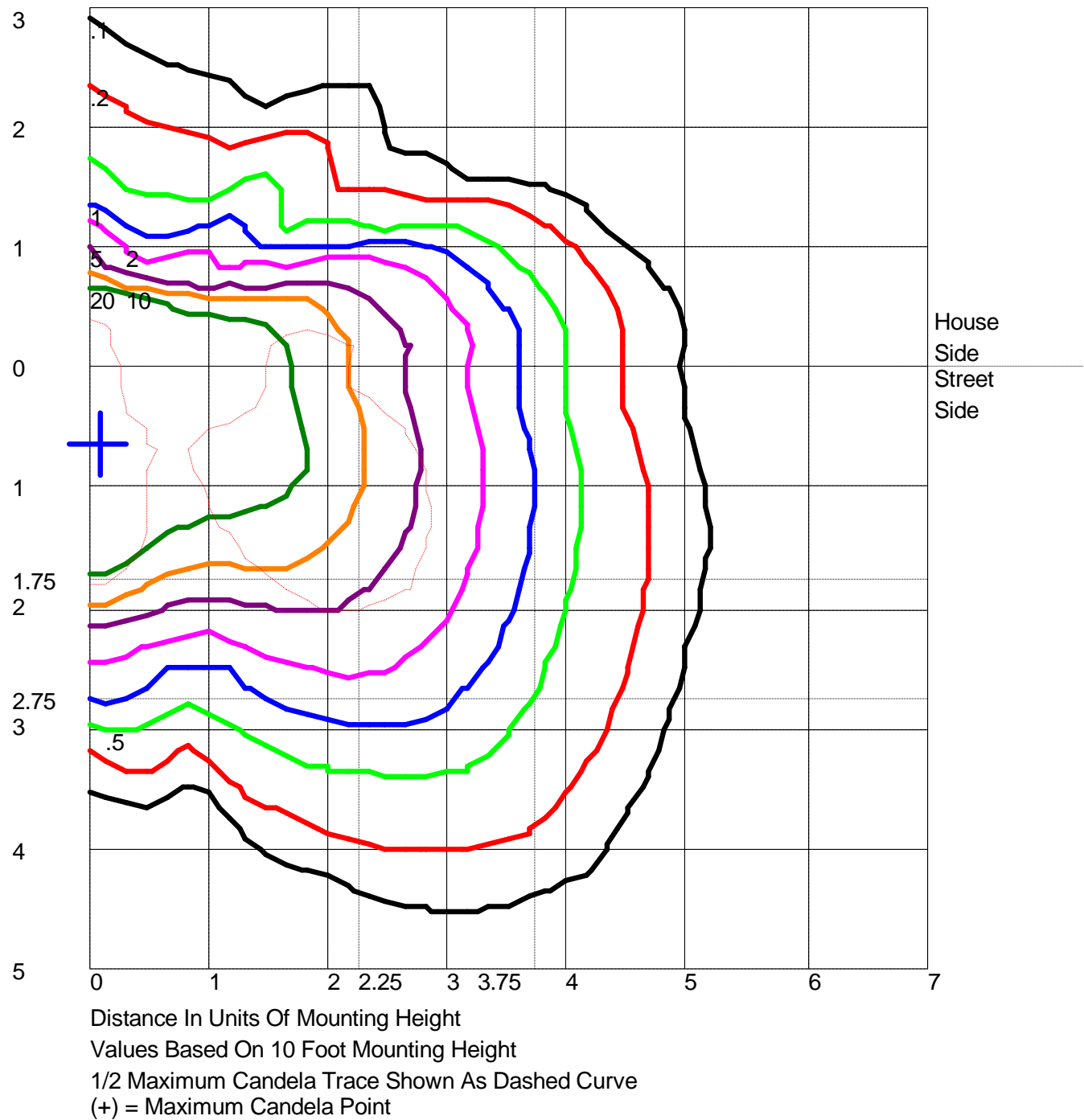
	Lumens	Percent Of Luminaire
Downward Street Side	33631.6	73.4
Downward House Side	12197.7	26.6
Downward Total	45829.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	45829.3	100.0

POLAR GRAPH

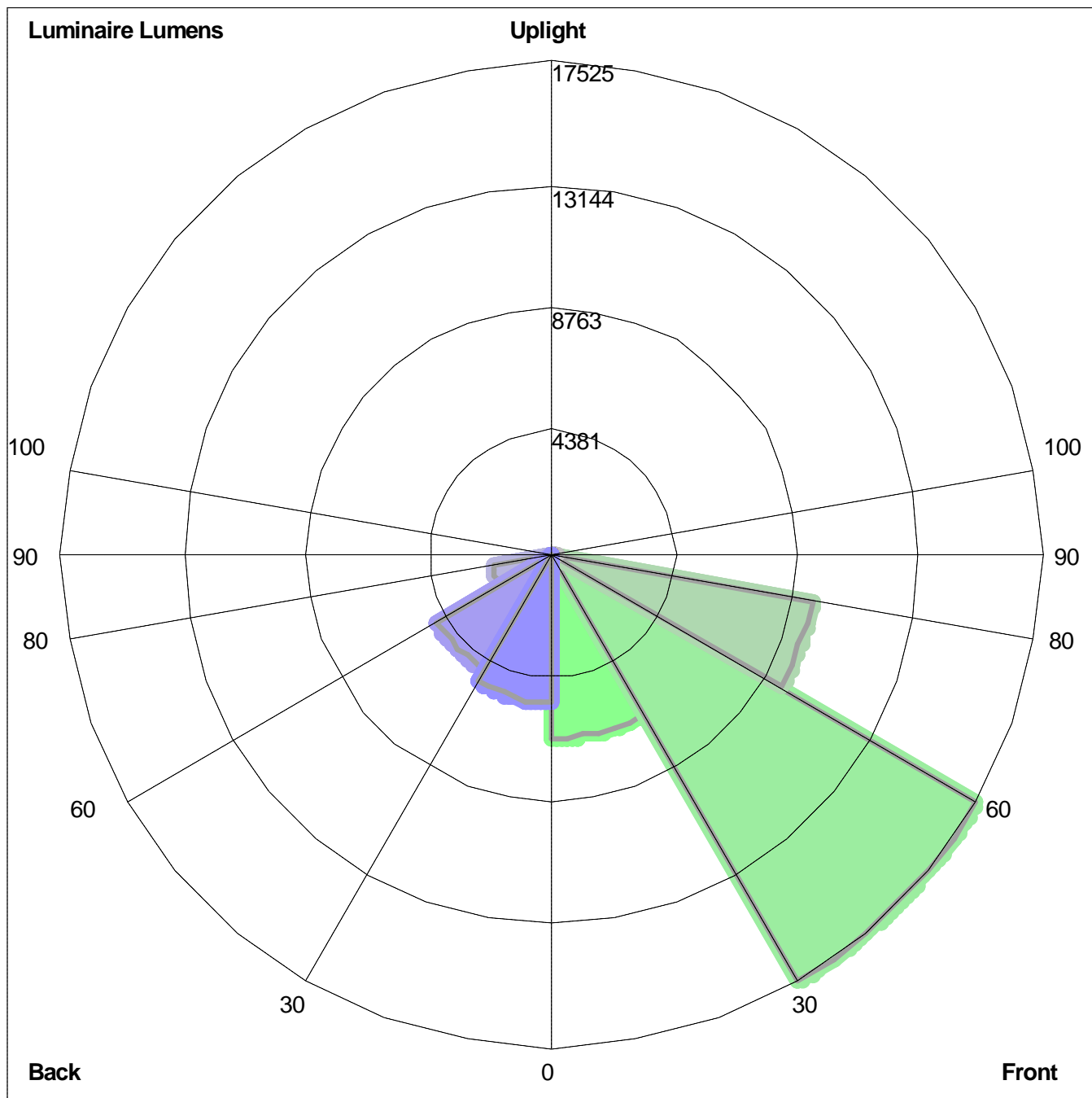


Maximum Candela = 27943 Located At Horizontal Angle = 7.5, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (7.5 - 187.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6551.3, Medium=17525.5, High=9415.7, Very High=139.1
Back: Low=5263.7, Medium=4767.4, High=2128.5, Very High=38.1
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4