



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7592
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]04/29/2016
[TEST DATE]04/29/2016
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLCL-FTA-LED-HO-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	54094
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	532.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	47498
Maximum Candela Angle	5H 35V
Maximum Candela (<90 Degrees Vertical)	47498
Maximum Candela Angle (<90 Degrees Vertical)	5H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1052 (1.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	9023.4	N.A.	16.7
FM - Front-Medium (30-60)	31951.0	N.A.	59.1
FH - Front-High (60-80)	5263.1	N.A.	9.7
FVH - Front-Very High (80-90)	164.5	N.A.	0.3
BL - Back-Low (0-30)	3526.9	N.A.	6.5
BM - Back-Medium (30-60)	3312.5	N.A.	6.1
BH - Back-High (60-80)	829.1	N.A.	1.5
BVH - Back-Very High (80-90)	23.1	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	54093.6	N.A.	100.0
BUG Rating	B4-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	10	15	25	35	45	55	65	75
0.0	14599	14599	14599	14599	14599	14599	14599	14599	14599	14599
2.5	14762	14828	14820	14781	14762	14769	14737	14727	14757	14685
5.0	16383	16582	16480	16363	16187	16069	15594	15180	15067	15081
7.5	16970	17115	17038	16991	16976	16984	16830	16648	16000	15483
10.0	17758	17913	17780	17734	17720	17790	17623	17483	17349	16295
12.5	18737	18895	18834	18783	18817	18742	18403	18189	17849	17045
15.0	20486	20666	20597	20681	20415	19478	18953	18517	17930	17524
17.5	21769	21963	21883	21980	21589	20904	19551	18777	18141	17724
20.0	24128	24277	24107	24111	22882	21686	20704	18841	18250	17757
22.5	27705	27812	27541	27181	25277	23184	21392	19669	18333	17712
25.0	31681	31983	31434	31104	28769	25461	22557	20080	18373	17634
27.5	36313	36630	35933	35282	32407	29151	24240	20536	18603	17600
30.0	41860	42191	41670	40596	36841	32717	26910	21610	19109	17518
32.5	45944	46375	46020	45127	41845	36964	29518	22966	19149	17407
35.0	47141	47498	47397	47184	45468	41121	32660	25071	19273	17150
37.5	46468	46821	46643	46782	46572	44225	36878	27251	19832	16804
40.0	44969	45353	45222	45444	45741	45053	40415	29669	20489	16841
42.5	42307	42852	42905	43449	44163	44117	42408	32694	21842	16737
45.0	37666	38259	38579	39437	41737	42600	42255	35672	23109	16560
47.5	31476	32073	32642	33752	37133	40372	40980	37781	24568	16295
50.0	24797	25381	25855	26986	31017	36104	38755	37826	26466	15898
52.5	19562	19755	20266	21103	24342	30244	35549	36037	28421	15566
55.0	15829	16051	16193	16917	18858	23652	30532	33575	29508	15448
57.5	11585	11599	12069	13029	14666	17679	24106	30299	28996	15330
60.0	4272	4747	5294	6784	10576	13647	17869	25566	27132	15367
62.5	1966	1919	1990	2153	3917	9290	13237	19500	24330	15484
65.0	1243	1262	1319	1387	1665	3242	9475	13858	20526	14576
67.5	1061	1091	1075	1074	1101	1432	3815	9331	14923	13076
70.0	1028	1057	1074	1087	1065	1021	1317	5270	9898	11374
72.5	795	803	807	825	975	1037	969	1417	5737	8903
75.0	880	879	867	824	736	809	981	868	2820	5936
77.5	799	783	797	826	886	820	710	865	762	2832
80.0	565	570	567	576	603	698	867	597	582	1052
82.5	418	424	427	450	463	512	549	689	405	297
85.0	214	218	222	234	257	300	349	391	349	140
87.5	116	117	120	121	133	146	153	160	143	77
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	14599	14599	14599	14599	14599	14599	14599	14599	14599	14599
2.5	14678	14860	14627	14569	14527	14522	14451	14460	14447	14436
5.0	14937	14743	14699	14607	14510	14437	14387	14363	14319	14301
7.5	15236	15203	15080	14819	14564	14444	14336	14308	14137	13876
10.0	15731	15602	15278	14837	14525	14379	13847	13485	13419	13310
12.5	15954	15590	15289	14690	14353	13649	13364	13020	12265	11510
15.0	15886	15477	15078	14380	13994	13368	12630	10895	9039	7758
17.5	15905	15448	14986	14261	13412	12792	10422	7590	5238	3562
20.0	15924	15339	14614	14160	13243	11164	7301	3945	1812	1054
22.5	15855	15191	14464	13985	12729	8763	4056	1384	775	722
25.0	15850	15074	14297	13419	11551	6083	1584	742	693	658
27.5	15864	14972	14137	13046	9755	3222	721	648	607	580
30.0	15973	14816	13949	12770	7661	1327	599	562	558	645
32.5	15994	14391	13715	12328	5489	661	521	534	630	781
35.0	15618	14108	13451	11586	3275	567	480	606	848	1115
37.5	15023	13648	13117	10405	1773	523	561	807	1171	1252
40.0	14369	13117	12757	8978	1110	491	671	1121	1318	1364
42.5	14069	12766	12405	7364	965	539	936	1242	1465	1517
45.0	13962	12564	12023	5676	918	621	1231	1396	1596	1708
47.5	13937	12346	11557	3890	831	838	1382	1572	1732	1801
50.0	13647	11902	10883	2325	730	1185	1591	1796	1807	1757
52.5	12923	11057	10091	1332	716	1399	1802	1899	1709	1530
55.0	12064	10325	9220	813	799	1595	1933	1816	1441	1174
57.5	11222	9558	8284	578	1096	1810	1955	1550	1037	795
60.0	9964	8395	7277	446	1338	1975	1758	1130	705	545
62.5	8841	7429	6085	413	1546	2040	1366	769	496	357
65.0	7751	6427	4465	462	1802	1803	924	557	315	182
67.5	6536	5451	3229	594	1992	1299	658	333	137	78
70.0	5034	4010	2094	811	1875	922	420	151	73	32
72.5	3944	3113	1203	1026	1325	624	198	91	37	2
75.0	2544	1870	574	1076	889	301	113	47	18	0
77.5	1589	1076	239	864	482	144	75	31	14	0

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CANDELA TABULATION - (Cont.)

80.0	907	520	156	462	170	88	47	25	13	2
82.5	511	235	134	187	84	49	33	25	15	4
85.0	181	92	71	59	41	34	30	24	16	6
87.5	44	35	32	27	26	24	21	16	11	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

	<u>175</u>	<u>180</u>
0.0	14599	14599
2.5	14417	14542
5.0	14259	14382
7.5	13739	13914
10.0	13212	13359
12.5	11037	10905
15.0	7076	6826
17.5	2676	2614
20.0	794	776
22.5	642	641
25.0	621	622

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CANDELA TABULATION - (Cont.)

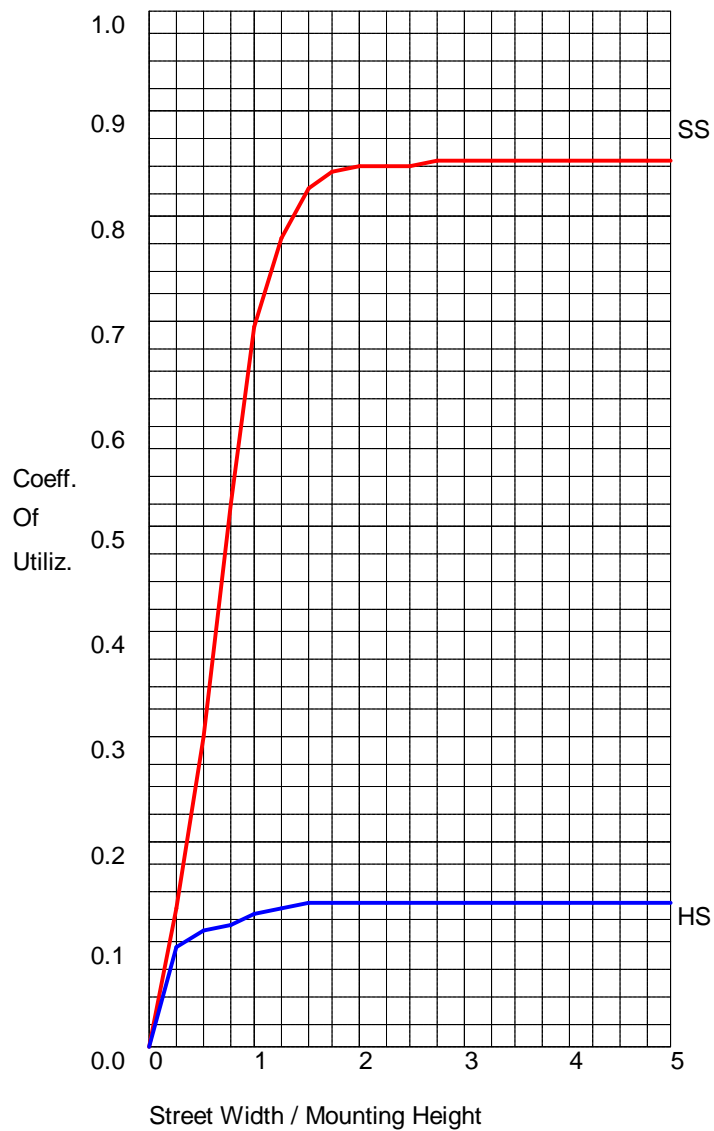
27.5	623	661
30.0	702	738
32.5	868	896
35.0	1163	1171
37.5	1258	1258
40.0	1392	1406
42.5	1567	1583
45.0	1730	1727
47.5	1803	1806
50.0	1685	1686
52.5	1400	1387
55.0	1030	1019
57.5	705	699
60.0	479	482
62.5	315	297
65.0	126	118
67.5	51	44
70.0	21	19
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
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

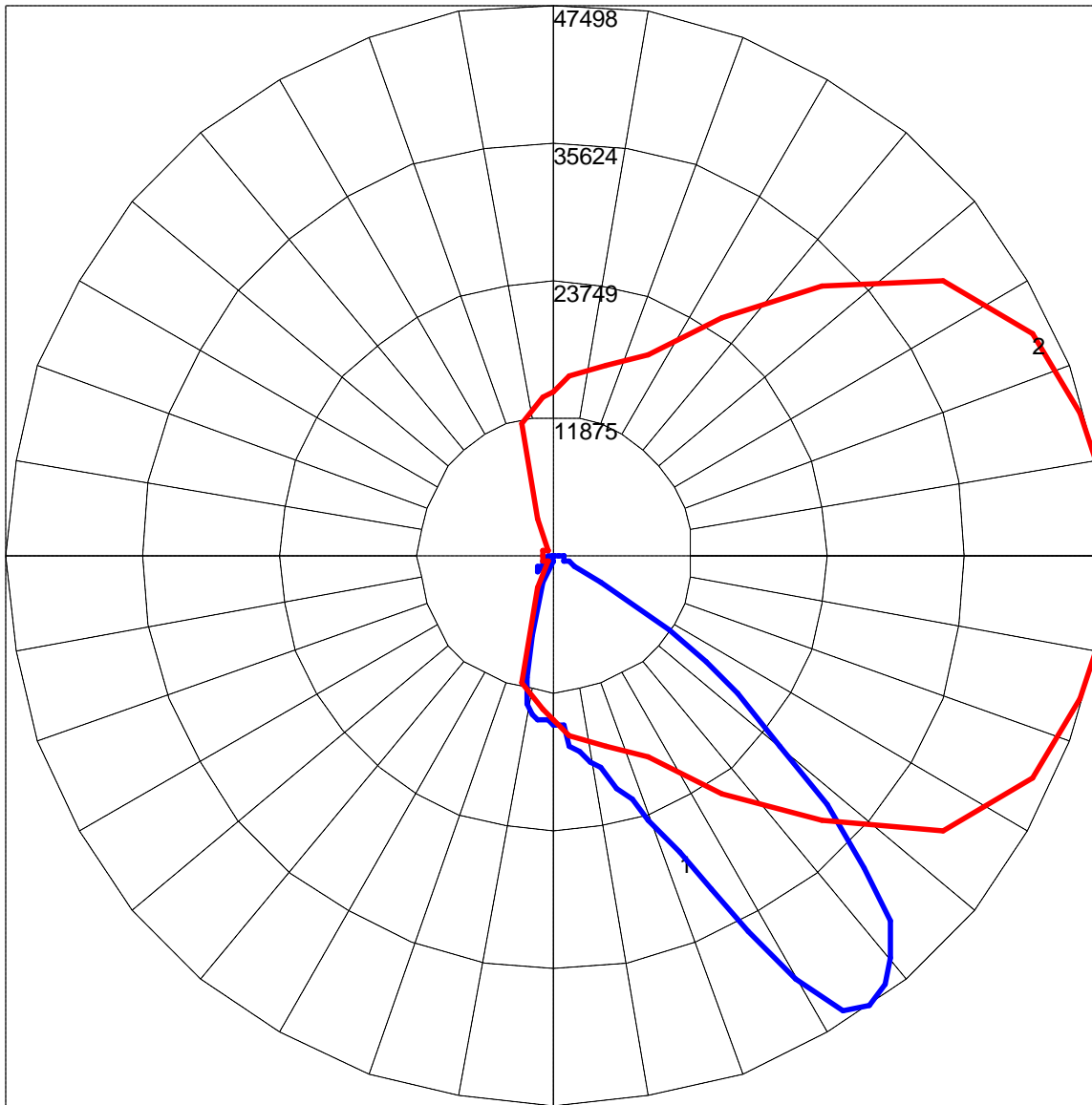
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

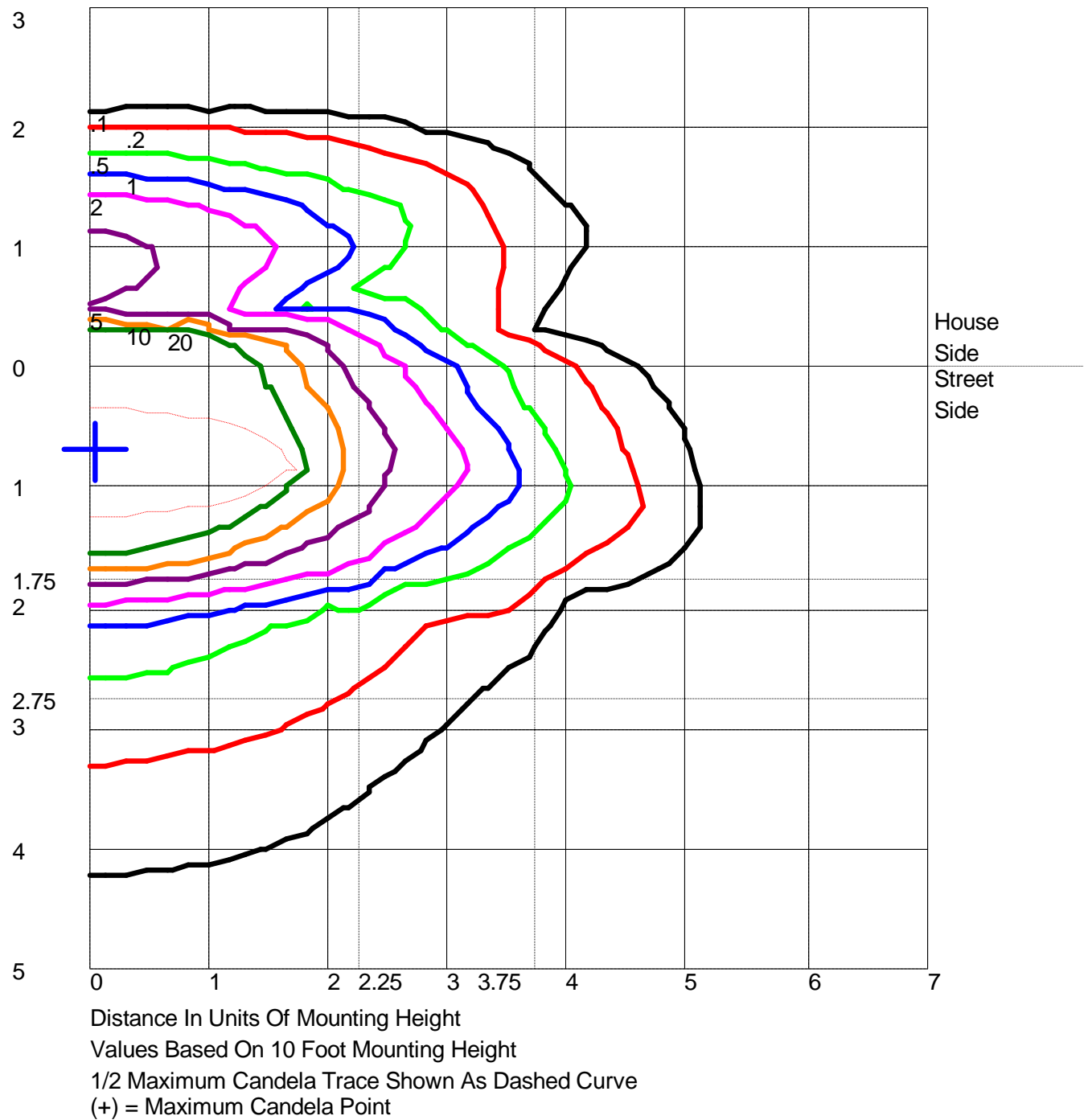
	Lumens	Percent Of Luminaire
Downward Street Side	46402.0	85.8
Downward House Side	7691.6	14.2
Downward Total	54093.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	54093.6	100.0

POLAR GRAPH

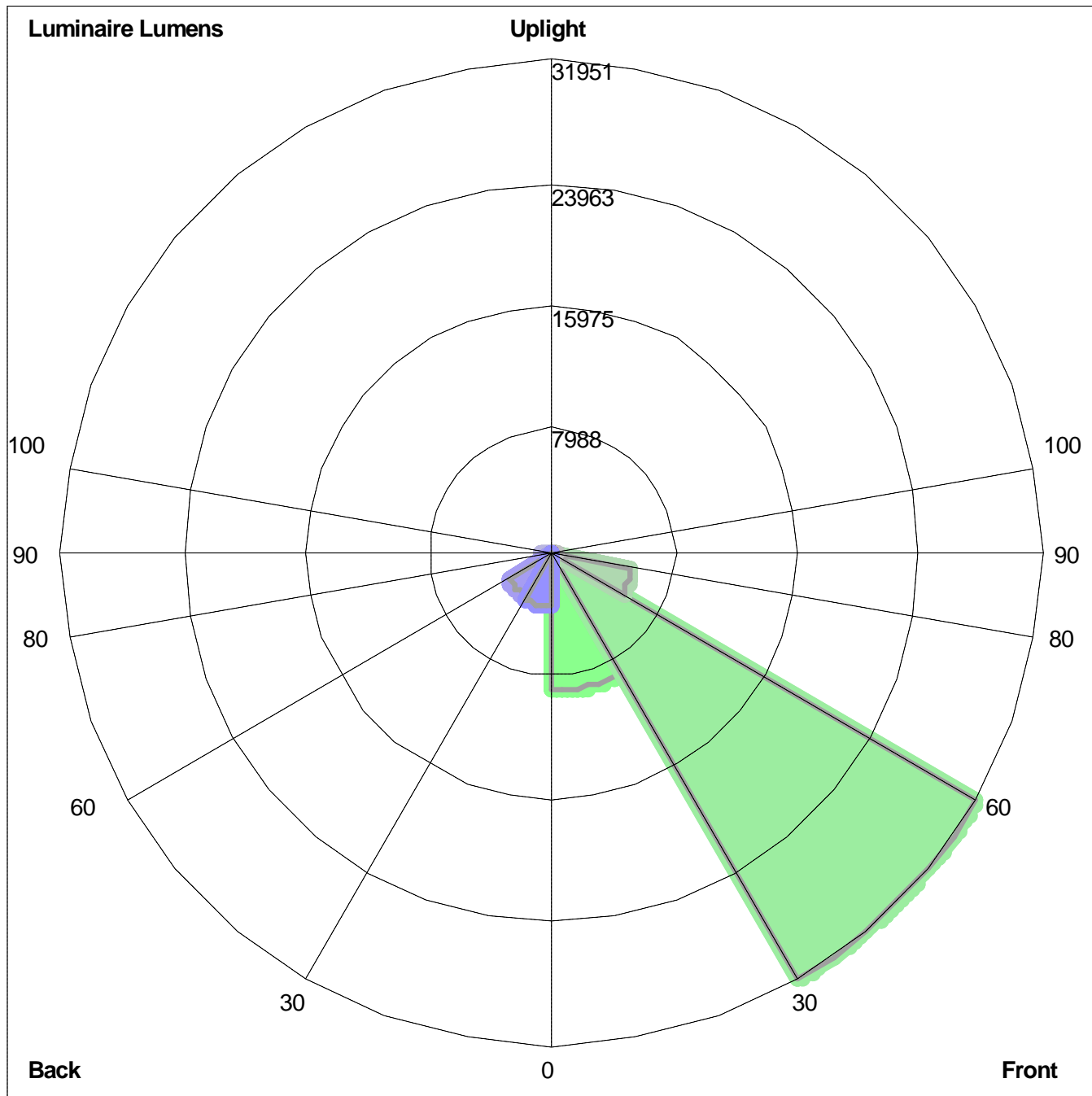


Maximum Candela = 47498 Located At Horizontal Angle = 5, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=9023.4, Medium= 31951.0, High=5263.1, Very High=164.5
Back: Low=3526.9, Medium=3312.5, High=829.1, Very High=23.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3