



IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-FT-LED-23L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3049
[TESTLAB] TUV SUD America
[TESTDATE] 2/9/2017 11:46:33 AM
[ISSUE DATE] 11/15/2019
[MANUFAC] LSI INDUSTRIES, INC.
[_SEARCH_ SOURCETYPE] LED
[_SEARCH_ APPLICATION] Outdoor
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[LUMCAT] TEL22-FT-LED-23L-45

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25210
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	221.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14854
Maximum Candela Angle	320H 70V
Maximum Candela (<90 Degrees Vertical)	14854
Maximum Candela Angle (<90 Degrees Vertical)	320H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	792 (3.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2456.8	N.A.	9.7
FM - Front-Medium (30-60)	8617.7	N.A.	34.2
FH - Front-High (60-80)	7306.4	N.A.	29.0
FVH - Front-Very High (80-90)	67.2	N.A.	0.3
BL - Back-Low (0-30)	1444.8	N.A.	5.7
BM - Back-Medium (30-60)	3481.6	N.A.	13.8
BH - Back-High (60-80)	1806.5	N.A.	7.2
BVH - Back-Very High (80-90)	29.3	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	25210.3	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	5615	5615	5615	5615	5615	5615	5615	5615	5615	5615
5	6242	6170	6130	6073	6007	5920	5824	5721	5613	5499
10	6656	6588	6502	6391	6254	6092	5923	5734	5522	5303
15	6716	6694	6615	6515	6375	6169	5929	5651	5350	5000
20	6443	6420	6340	6290	6205	6029	5763	5462	5113	4664
25	5974	6071	6039	6032	5874	5699	5556	5328	4973	4416
30	5979	5935	5840	5805	5719	5568	5486	5376	5033	4345
35	6635	6427	6239	6138	5931	5770	5757	5689	5335	4531
40	7969	7736	7249	7114	6713	6325	6155	6092	5782	5025
45	8155	8304	8018	7875	7418	6880	6536	6437	6225	5662
50	8914	8814	8625	8190	7670	7214	6876	6776	6744	6310
55	9770	10030	10000	9625	8871	8060	7558	7611	7626	7091
60	11093	11454	11773	11644	10623	9452	9214	9684	9599	8012
65	10963	12298	13483	14244	13108	11784	10903	10278	10023	7370
70	8316	10101	12165	13755	14854	9624	4588	3802	3487	3088
75	1760	3577	5277	8373	7431	1307	780	675	674	661
80	223	378	629	792	696	330	245	206	176	155
85	35	58	60	61	52	40	36	34	31	27
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	5615	5615	5615	5615	5615	5615	5615	5615	5615	5615
5	5385	5272	5163	5063	4978	4923	4872	4847	4964	4847
10	5054	4804	4575	4380	4218	4118	4039	4004	4108	4004
15	4610	4251	3937	3679	3501	3372	3307	3272	3346	3272
20	4137	3668	3296	3055	2939	2879	2852	2846	2891	2846
25	3727	3124	2745	2621	2597	2596	2590	2596	2631	2596
30	3475	2732	2403	2370	2382	2382	2388	2427	2456	2427
35	3503	2625	2281	2213	2228	2259	2313	2394	2434	2394
40	3949	2956	2374	2168	2152	2247	2383	2524	2615	2524
45	4626	3554	2697	2230	2115	2216	2486	2719	2891	2719
50	5381	4159	3124	2342	2019	2165	2490	2651	2864	2651
55	6009	4692	3500	2454	1915	2078	2419	2427	2549	2427

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CANDELA TABULATION - (Cont.)

60	6314	4982	3734	2493	1799	1921	2131	2008	1966	2008
65	5514	4366	3377	2341	1555	1561	1881	1773	1697	1773
70	2631	2261	1969	1402	1156	1205	1417	1337	1271	1337
75	704	747	712	663	658	777	807	605	600	605
80	184	198	194	188	218	235	186	111	122	111
85	24	20	18	16	15	14	11	7	11	7
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	5615	5615	5615	5615	5615	5615	5615	5615	5615	5615
5	4872	4923	4978	5063	5163	5272	5385	5499	5613	5721
10	4039	4118	4218	4380	4575	4804	5054	5303	5522	5734
15	3307	3372	3501	3679	3937	4251	4610	5000	5350	5651
20	2852	2879	2939	3055	3296	3668	4137	4664	5113	5462
25	2590	2596	2597	2621	2745	3124	3727	4416	4973	5328
30	2388	2382	2382	2370	2403	2732	3475	4345	5033	5376
35	2313	2259	2228	2213	2281	2625	3503	4531	5335	5689
40	2383	2247	2152	2168	2374	2956	3949	5025	5782	6092
45	2486	2216	2115	2230	2697	3554	4626	5662	6225	6437
50	2490	2165	2019	2342	3124	4159	5381	6310	6744	6776
55	2419	2078	1915	2454	3500	4692	6009	7091	7626	7611
60	2131	1921	1799	2493	3734	4982	6314	8012	9599	9684
65	1881	1561	1555	2341	3377	4366	5514	7370	10023	10278
70	1417	1205	1156	1402	1969	2261	2631	3088	3487	3802
75	807	777	658	663	712	747	704	661	674	675
80	186	235	218	188	194	198	184	155	176	206
85	11	14	15	16	18	20	24	27	31	34
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

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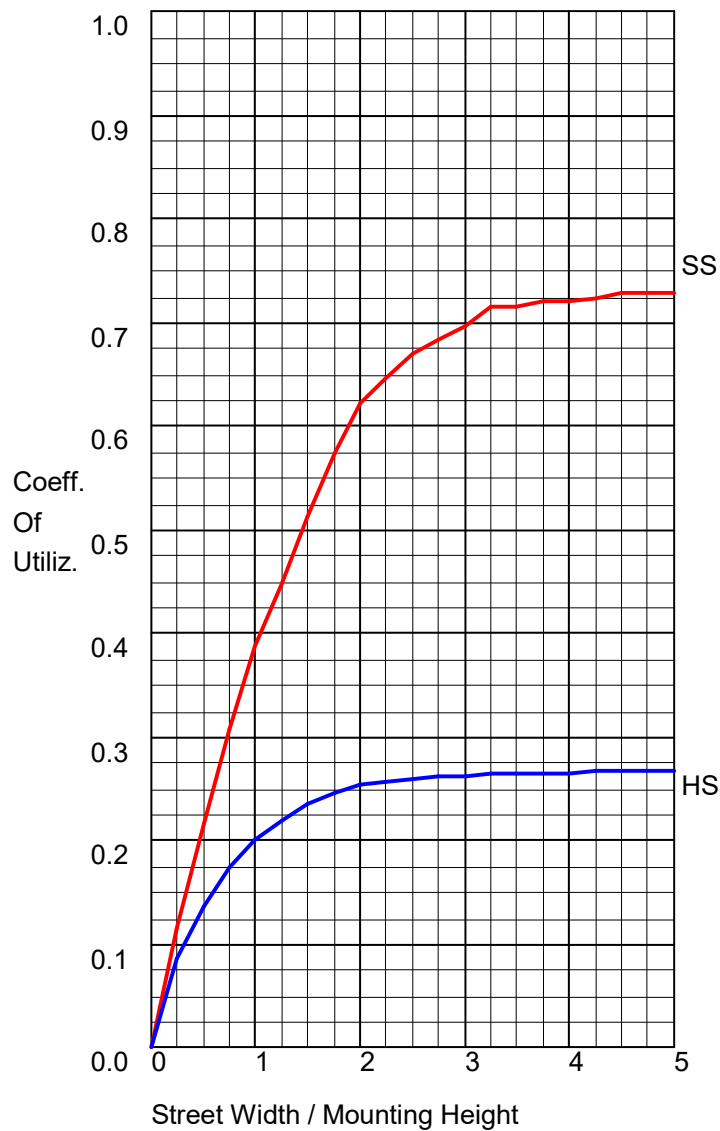
CANDELA TABULATION - (Cont.)

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	5615	5615	5615	5615	5615	5615	5615
5	5824	5920	6007	6073	6130	6170	6242
10	5923	6092	6254	6391	6502	6588	6656
15	5929	6169	6375	6515	6615	6694	6716
20	5763	6029	6205	6290	6340	6420	6443
25	5556	5699	5874	6032	6039	6071	5974
30	5486	5568	5719	5805	5840	5935	5979
35	5757	5770	5931	6138	6239	6427	6635
40	6155	6325	6713	7114	7249	7736	7969
45	6536	6880	7418	7875	8018	8304	8155
50	6876	7214	7670	8190	8625	8814	8914
55	7558	8060	8871	9625	10000	10030	9770
60	9214	9452	10623	11644	11773	11454	11093
65	10903	11784	13108	14244	13483	12298	10963
70	4588	9624	14854	13755	12165	10101	8316
75	780	1307	7431	8373	5277	3577	1760
80	245	330	696	792	629	378	223
85	36	40	52	61	60	58	35
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

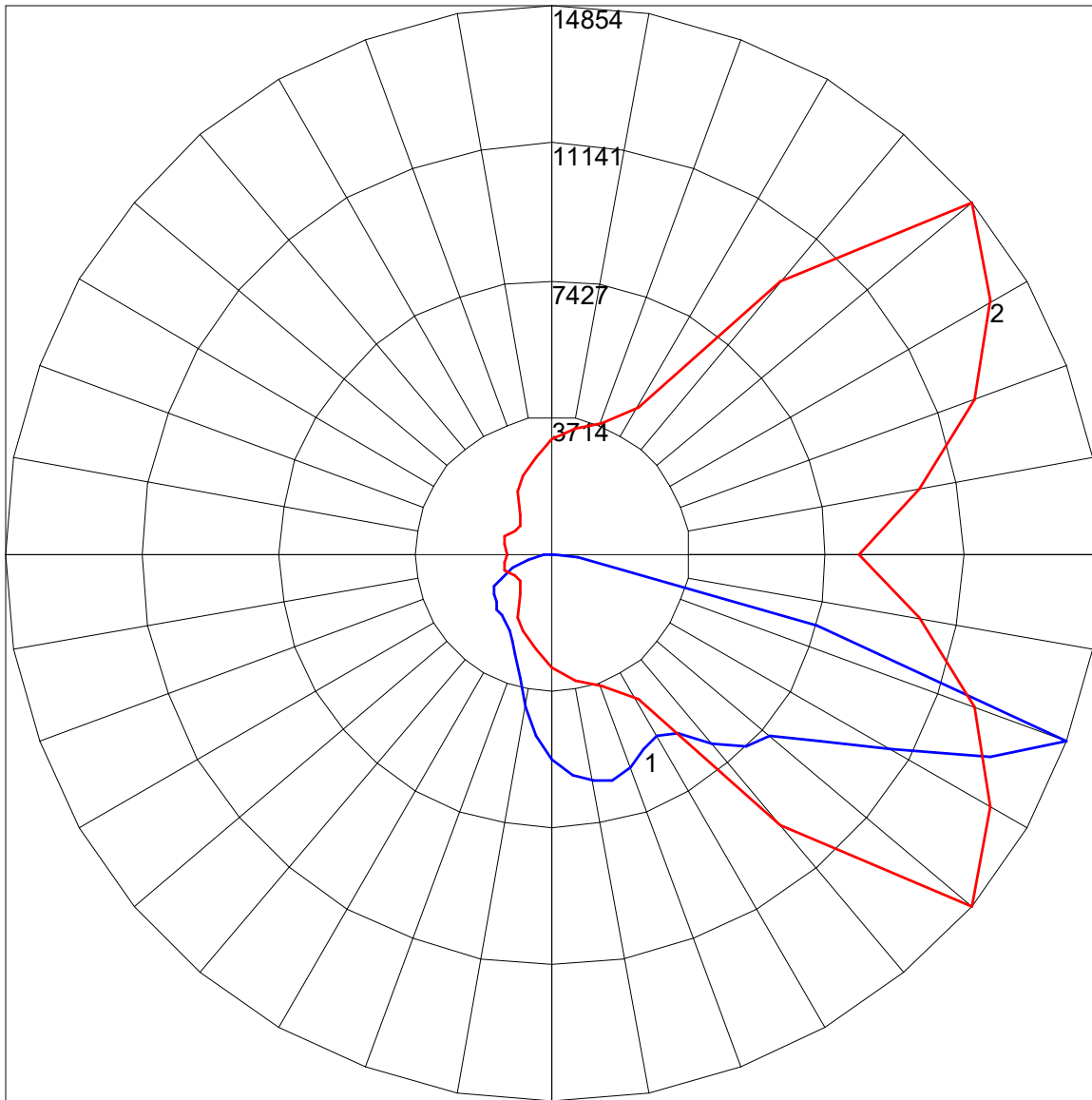
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

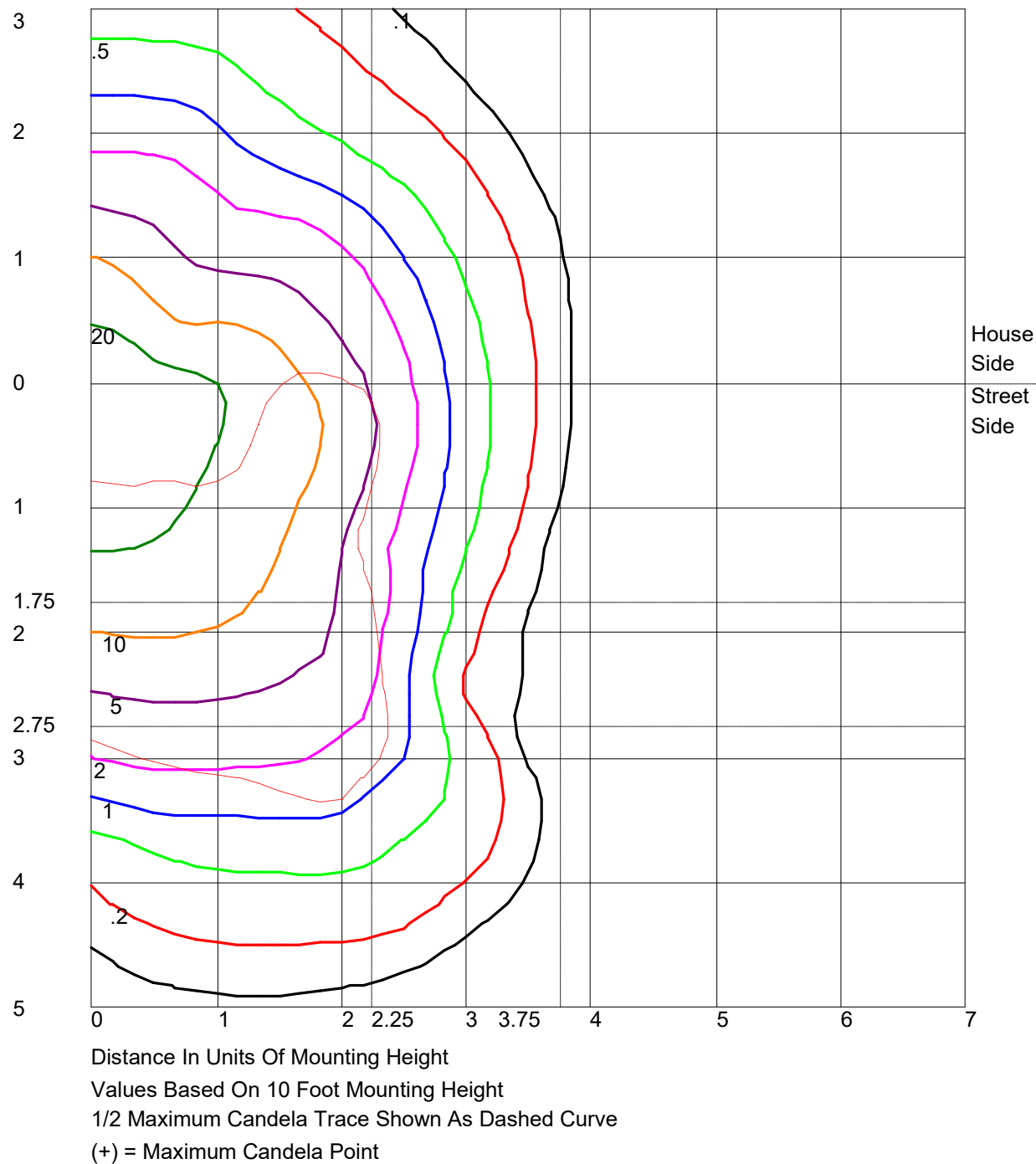
	Lumens	Percent Of Luminaire
Downward Street Side	18448.1	73.2
Downward House Side	6762.3	26.8
Downward Total	25210.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25210.4	100.0

POLAR GRAPH

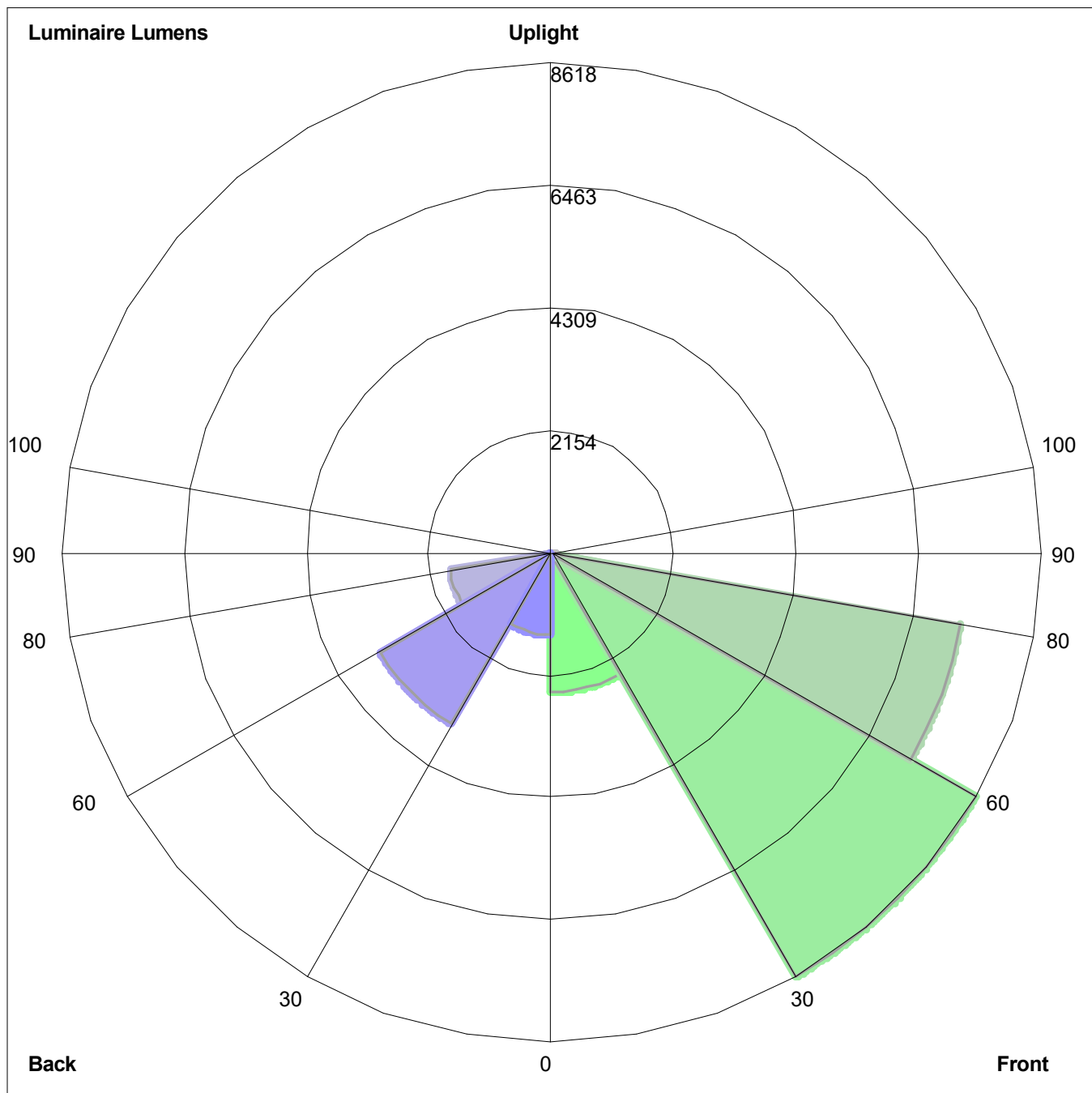


Maximum Candela = 14854 Located At Horizontal Angle = 320, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2456.8, Medium=8617.7, High=7306.4, Very High=67.2
Back: Low=1444.8, Medium=3481.6, High=1806.5, Very High=29.3
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3