



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-5-LED-23L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3051

[TESTLAB] TUV SUD America

[TESTDATE] 2/9/2017 3:49:51 PM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[LUMCAT] TEL22-5-LED-23L-45

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25355
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	221.55
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8208
Maximum Candela Angle	320H 60V
Maximum Candela (<90 Degrees Vertical)	8208
Maximum Candela Angle (<90 Degrees Vertical)	320H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	285 (1.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-5-LED-23L-45.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1419.7	N.A.	5.6
FM - Front-Medium (30-60)	6377.2	N.A.	25.2
FH - Front-High (60-80)	4836.3	N.A.	19.1
FVH - Front-Very High (80-90)	44.3	N.A.	0.2
BL - Back-Low (0-30)	1419.7	N.A.	5.6
BM - Back-Medium (30-60)	6377.2	N.A.	25.2
BH - Back-High (60-80)	4836.3	N.A.	19.1
BVH - Back-Very High (80-90)	44.3	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25355.0	N.A.	100.0
BUG Rating	B4-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-5-LED-23L-45.IES

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	3142	3142	3142	3142	3142	3142	3142	3142	3142	3142
5	3143	3144	3145	3145	3145	3144	3143	3142	3142	3141
10	3165	3171	3173	3175	3171	3169	3167	3159	3153	3152
15	3225	3232	3235	3239	3235	3227	3214	3200	3192	3184
20	3324	3335	3341	3337	3328	3321	3308	3291	3282	3277
25	3474	3489	3494	3484	3476	3472	3466	3460	3452	3444
30	3709	3718	3720	3712	3705	3709	3718	3719	3697	3688
35	4021	4027	4029	4021	4014	4015	4043	4050	4027	4016
40	4419	4438	4432	4428	4402	4411	4446	4486	4481	4456
45	4975	5008	4994	5006	4990	5002	5054	5044	5035	5018
50	5776	5867	5847	5848	5903	5918	5886	5813	5819	5757
55	6860	6957	6978	6947	7088	7032	6967	6899	6942	6869
60	7752	7810	7902	8099	8208	8083	8122	8151	8100	8113
65	7587	7712	7683	7838	7985	8137	8054	7605	7677	7488
70	4930	5188	5321	5321	5676	5406	5558	5352	5026	4898
75	1793	1901	2028	2094	2046	2031	2023	1937	1878	1849
80	170	249	285	281	281	271	275	264	236	209
85	29	37	36	36	34	32	32	32	32	32
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	3142	3142	3142	3142	3142	3142	3142	3142	3142	3142
5	3142	3142	3143	3144	3145	3145	3145	3144	3143	3144
10	3153	3159	3167	3169	3171	3175	3173	3171	3165	3171
15	3192	3200	3214	3227	3235	3239	3235	3232	3225	3232
20	3282	3291	3308	3321	3328	3337	3341	3335	3324	3335
25	3452	3460	3466	3472	3476	3484	3494	3489	3474	3489
30	3697	3719	3718	3709	3705	3712	3720	3718	3709	3718
35	4027	4050	4043	4015	4014	4021	4029	4027	4021	4027
40	4481	4486	4446	4411	4402	4428	4432	4438	4419	4438
45	5035	5044	5054	5002	4990	5006	4994	5008	4975	5008
50	5819	5813	5886	5918	5903	5848	5847	5867	5776	5867
55	6942	6899	6967	7032	7088	6947	6978	6957	6860	6957

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-5-LED-23L-45.IES

CANDELA TABULATION - (Cont.)

60	8100	8151	8122	8083	8208	8099	7902	7810	7752	7810
65	7677	7605	8054	8137	7985	7838	7683	7712	7587	7712
70	5026	5352	5558	5406	5676	5321	5321	5188	4930	5188
75	1878	1937	2023	2031	2046	2094	2028	1901	1793	1901
80	236	264	275	271	281	281	285	249	170	249
85	32	32	32	32	34	36	36	37	29	37
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	3142	3142	3142	3142	3142	3142	3142	3142	3142	3142
5	3145	3145	3145	3144	3143	3142	3142	3141	3142	3142
10	3173	3175	3171	3169	3167	3159	3153	3152	3153	3159
15	3235	3239	3235	3227	3214	3200	3192	3184	3192	3200
20	3341	3337	3328	3321	3308	3291	3282	3277	3282	3291
25	3494	3484	3476	3472	3466	3460	3452	3444	3452	3460
30	3720	3712	3705	3709	3718	3719	3697	3688	3697	3719
35	4029	4021	4014	4015	4043	4050	4027	4016	4027	4050
40	4432	4428	4402	4411	4446	4486	4481	4456	4481	4486
45	4994	5006	4990	5002	5054	5044	5035	5018	5035	5044
50	5847	5848	5903	5918	5886	5813	5819	5757	5819	5813
55	6978	6947	7088	7032	6967	6899	6942	6869	6942	6899
60	7902	8099	8208	8083	8122	8151	8100	8113	8100	8151
65	7683	7838	7985	8137	8054	7605	7677	7488	7677	7605
70	5321	5321	5676	5406	5558	5352	5026	4898	5026	5352
75	2028	2094	2046	2031	2023	1937	1878	1849	1878	1937
80	285	281	281	271	275	264	236	209	236	264
85	36	36	34	32	32	32	32	32	32	32
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

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-5-LED-23L-45.IES

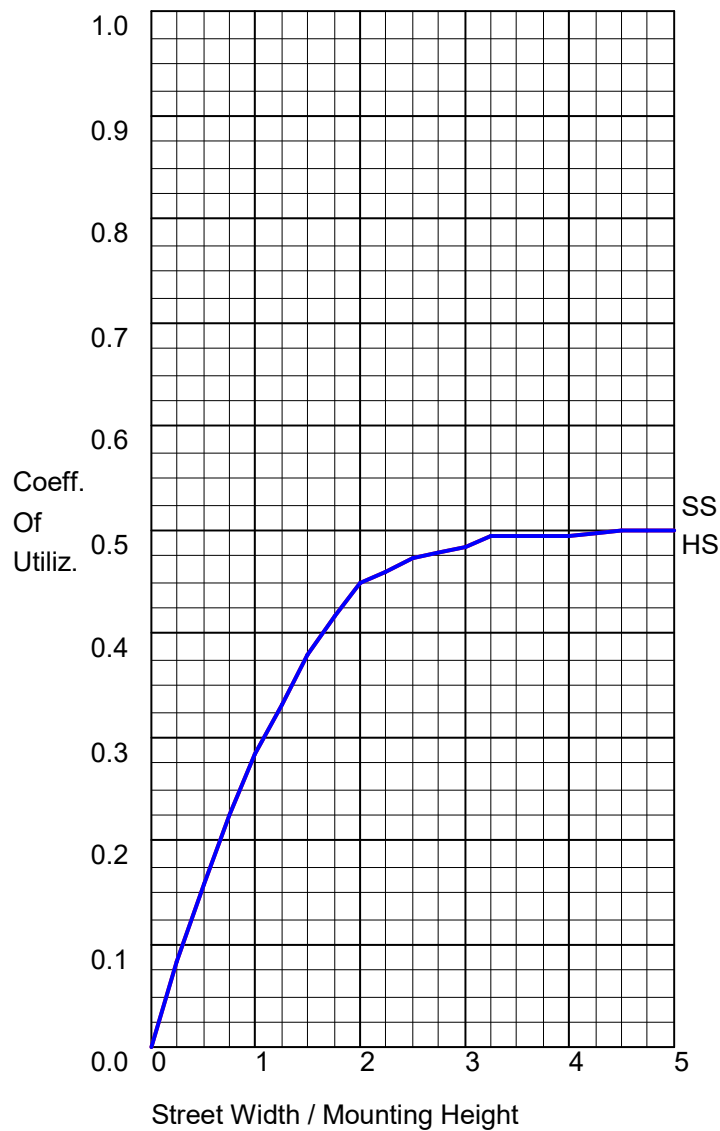
CANDELA TABULATION - (Cont.)

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. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	3142	3142	3142	3142	3142	3142	3142
5	3143	3144	3145	3145	3145	3144	3143
10	3167	3169	3171	3175	3173	3171	3165
15	3214	3227	3235	3239	3235	3232	3225
20	3308	3321	3328	3337	3341	3335	3324
25	3466	3472	3476	3484	3494	3489	3474
30	3718	3709	3705	3712	3720	3718	3709
35	4043	4015	4014	4021	4029	4027	4021
40	4446	4411	4402	4428	4432	4438	4419
45	5054	5002	4990	5006	4994	5008	4975
50	5886	5918	5903	5848	5847	5867	5776
55	6967	7032	7088	6947	6978	6957	6860
60	8122	8083	8208	8099	7902	7810	7752
65	8054	8137	7985	7838	7683	7712	7587
70	5558	5406	5676	5321	5321	5188	4930
75	2023	2031	2046	2094	2028	1901	1793
80	275	271	281	281	285	249	170
85	32	32	34	36	36	37	29
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

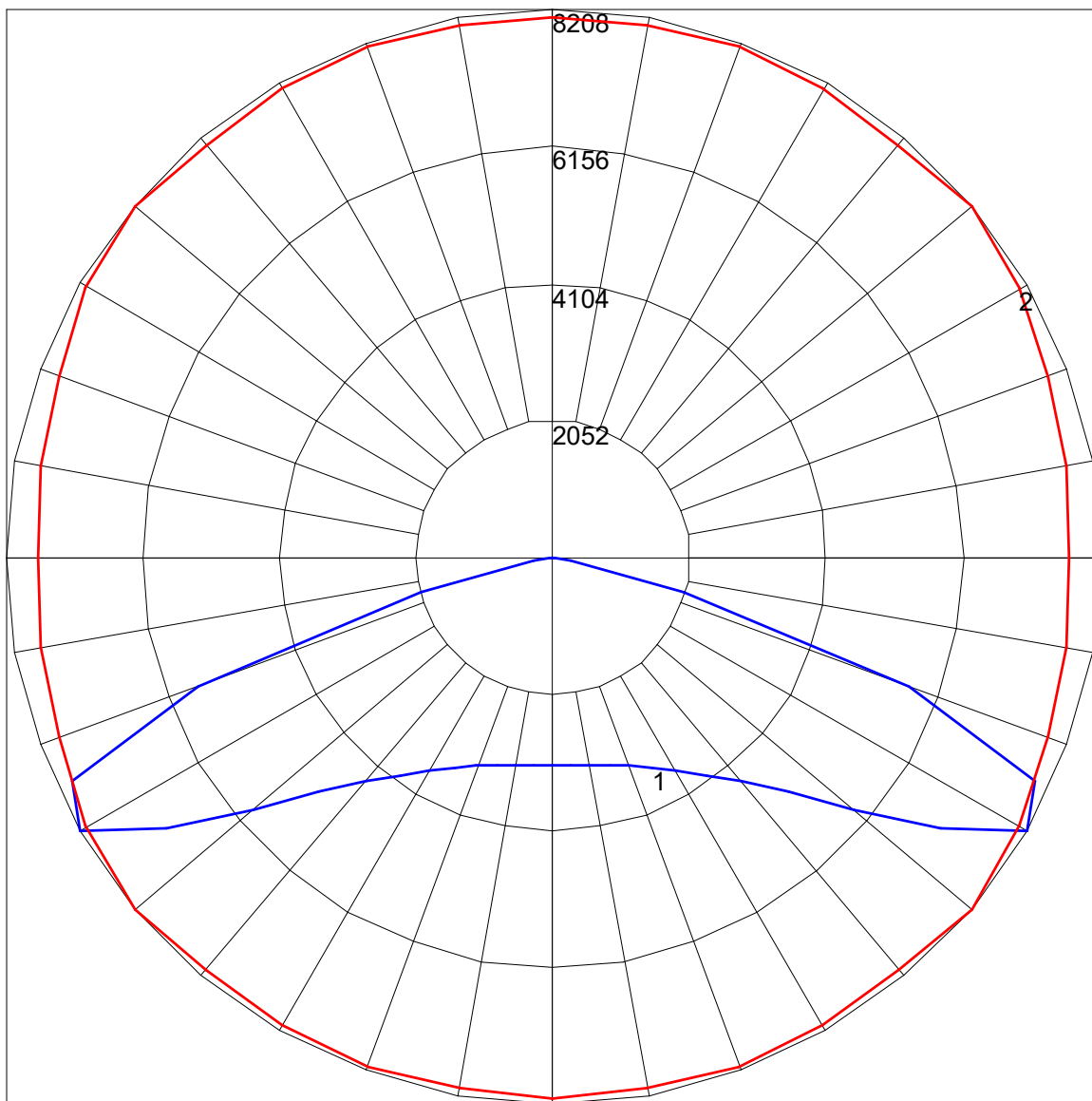
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

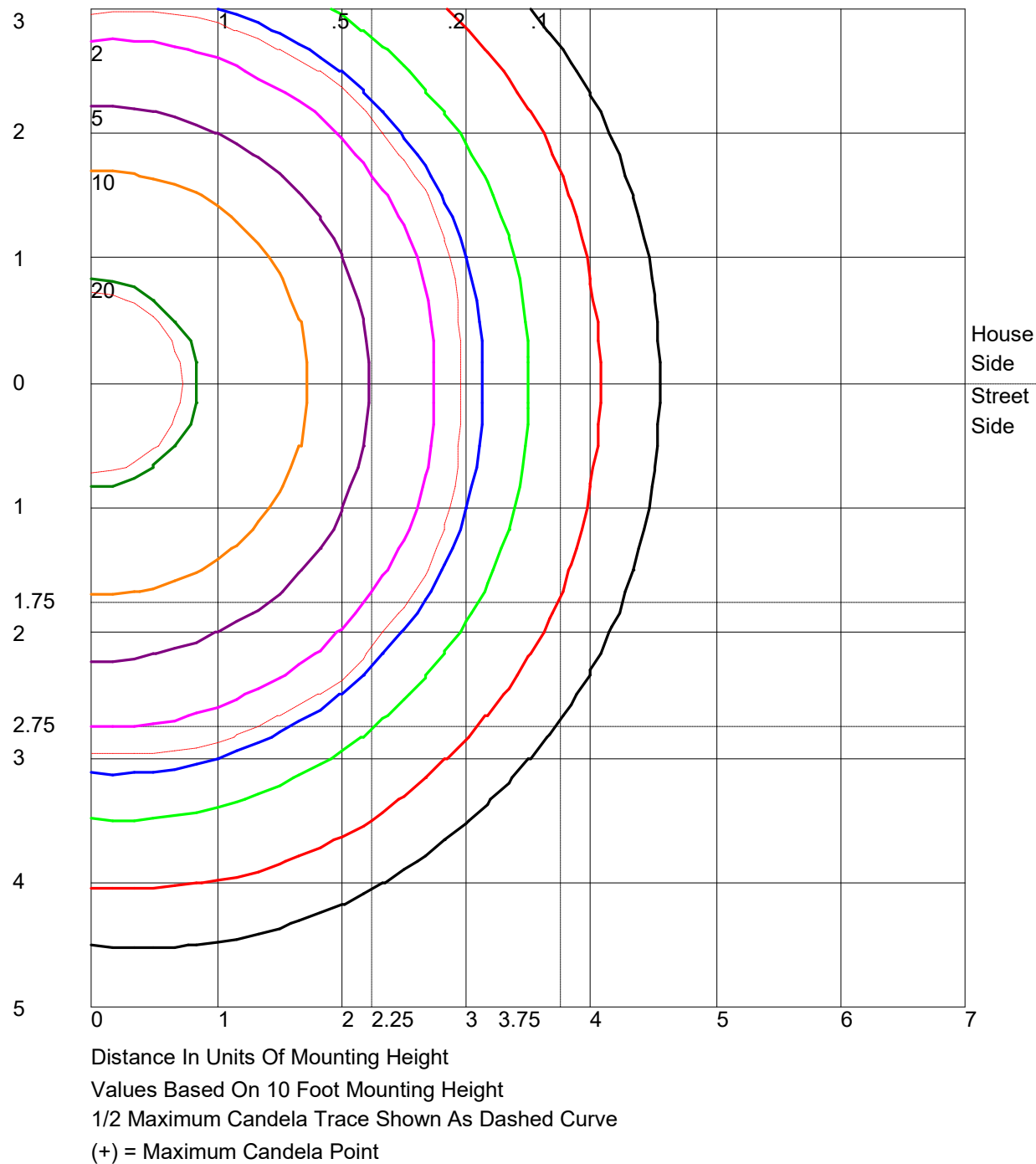
	Lumens	Percent Of Luminaire
Downward Street Side	12677.4	50.0
Downward House Side	12677.4	50.0
Downward Total	25354.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25354.8	100.0

POLAR GRAPH

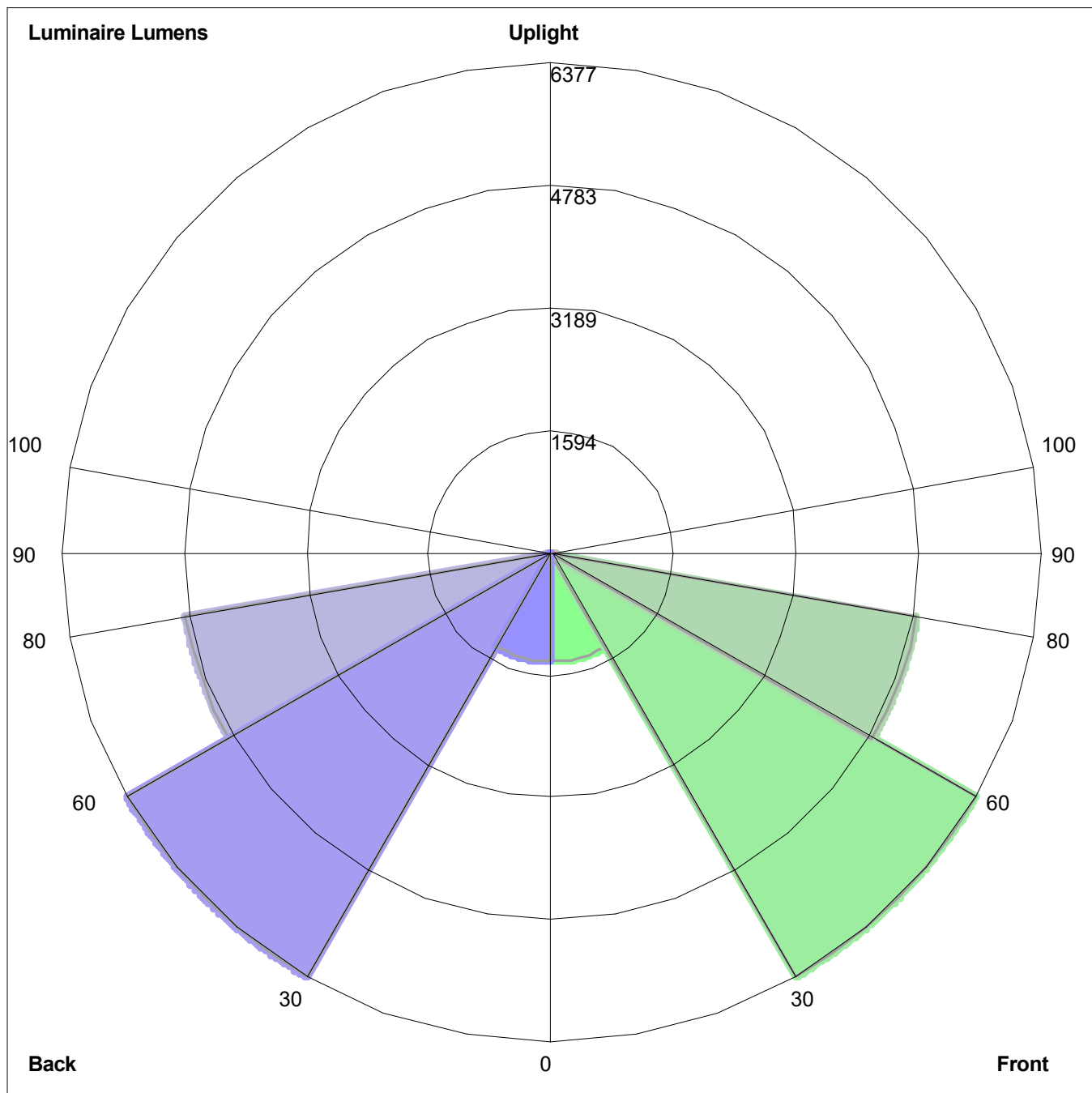


Maximum Candela = 8208 Located At Horizontal Angle = 320, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1419.7, Medium=6377.2, High=4836.3, Very High=44.3
Back: Low=1419.7, Medium=6377.2, High=4836.3, Very High=44.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2