



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4L-LED-41L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3100

[TESTLAB] TUV SUD America

[TESTDATE] 4/6/2017 10:19:23 AM

[MANUFAC] LSI INDUSTRIES, INC.

[ISSUEDATE] 11/15/2019

[LUMCAT] TEL22-4L-LED-41L-45

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

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

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36773
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	356.26
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17774
Maximum Candela Angle	140H 70V
Maximum Candela (<90 Degrees Vertical)	17774
Maximum Candela Angle (<90 Degrees Vertical)	140H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4792 (13.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2856.7	N.A.	7.8
FM - Front-Medium (30-60)	9020.8	N.A.	24.5
FH - Front-High (60-80)	6292.8	N.A.	17.1
FVH - Front-Very High (80-90)	216.2	N.A.	0.6
BL - Back-Low (0-30)	2856.7	N.A.	7.8
BM - Back-Medium (30-60)	9020.8	N.A.	24.5
BH - Back-High (60-80)	6292.8	N.A.	17.1
BVH - Back-Very High (80-90)	216.2	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	36773.0	N.A.	100.0
BUG Rating	B5-U0-G5		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>
<b>0</b>	6348	6348	6348	6348	6348	6348	6348	6348	6348	6348
<b>5</b>	6372	6437	6486	6533	6577	6610	6642	6667	6681	6689
<b>10</b>	6456	6547	6622	6685	6771	6857	6945	7026	7072	7092
<b>15</b>	6626	6759	6862	6963	7045	7112	7233	7342	7454	7490
<b>20</b>	6815	7027	7191	7318	7403	7424	7487	7644	7754	7817
<b>25</b>	6964	7256	7551	7724	7816	7865	7913	8022	8079	8124
<b>30</b>	7100	7467	7776	7938	8186	8321	8410	8445	8495	8540
<b>35</b>	7395	7891	8227	8303	8422	8750	8948	9038	9093	9114
<b>40</b>	7723	8434	8727	8817	8850	9032	9515	9630	9693	9691
<b>45</b>	8242	9175	9532	9580	9503	9497	9768	10215	10391	10453
<b>50</b>	8838	10261	10672	10643	10230	10111	10360	11030	11390	11622
<b>55</b>	9284	11157	12002	11860	11062	11004	11682	12428	13338	13401
<b>60</b>	8672	11200	12637	13173	12695	12449	13750	14208	14743	14616
<b>65</b>	7196	10217	12462	14059	15229	15418	14580	13340	12996	12276
<b>70</b>	4732	8354	11086	13524	17774	15662	12805	10543	7804	6586
<b>75</b>	2082	4983	7758	11222	13004	11824	6437	3359	2258	1888
<b>80</b>	509	1511	2531	3896	4792	3013	1245	812	527	457
<b>85</b>	81	148	167	190	222	126	74	65	61	62
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>
<b>0</b>	6348	6348	6348	6348	6348	6348	6348	6348	6348	6348
<b>5</b>	6681	6667	6642	6610	6577	6533	6486	6437	6372	6319
<b>10</b>	7072	7026	6945	6857	6771	6685	6622	6547	6456	6340
<b>15</b>	7454	7342	7233	7112	7045	6963	6862	6759	6626	6435
<b>20</b>	7754	7644	7487	7424	7403	7318	7191	7027	6815	6550
<b>25</b>	8079	8022	7913	7865	7816	7724	7551	7256	6964	6568
<b>30</b>	8495	8445	8410	8321	8186	7938	7776	7467	7100	6692
<b>35</b>	9093	9038	8948	8750	8422	8303	8227	7891	7395	6830
<b>40</b>	9693	9630	9515	9032	8850	8817	8727	8434	7723	6979
<b>45</b>	10391	10215	9768	9497	9503	9580	9532	9175	8242	7251
<b>50</b>	11390	11030	10360	10111	10230	10643	10672	10261	8838	7649
<b>55</b>	13338	12428	11682	11004	11062	11860	12002	11157	9284	7586

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	14743	14208	13750	12449	12695	13173	12637	11200	8672	5941
<b>65</b>	12996	13340	14580	15418	15229	14059	12462	10217	7196	3922
<b>70</b>	7804	10543	12805	15662	17774	13524	11086	8354	4732	2159
<b>75</b>	2258	3359	6437	11824	13004	11222	7758	4983	2082	1132
<b>80</b>	527	812	1245	3013	4792	3896	2531	1511	509	424
<b>85</b>	61	65	74	126	222	190	167	148	81	69
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<b><u>200</u></b>	<b><u>210</u></b>	<b><u>220</u></b>	<b><u>230</u></b>	<b><u>240</u></b>	<b><u>250</u></b>	<b><u>260</u></b>	<b><u>270</u></b>	<b><u>280</u></b>	<b><u>290</u></b>
<b>0</b>	6348	6348	6348	6348	6348	6348	6348	6348	6348	6348
<b>5</b>	6245	6174	6112	6051	6005	5970	5954	5938	5954	5970
<b>10</b>	6197	6059	5936	5839	5773	5735	5720	5709	5720	5735
<b>15</b>	6210	6017	5899	5829	5788	5766	5767	5761	5767	5766
<b>20</b>	6271	6088	6004	5963	5932	5912	5905	5898	5905	5912
<b>25</b>	6320	6201	6135	6115	6114	6110	6088	6092	6088	6110
<b>30</b>	6339	6189	6228	6288	6321	6349	6337	6341	6337	6349
<b>35</b>	6436	6307	6286	6402	6487	6412	6328	6328	6328	6412
<b>40</b>	6549	6420	6345	6111	5849	5569	5442	5460	5442	5569
<b>45</b>	6731	6337	5775	5158	4730	4504	4351	4335	4351	4504
<b>50</b>	6519	5429	4672	4080	3777	3789	3804	3805	3804	3789
<b>55</b>	5462	4128	3513	3495	3606	3873	4056	4068	4056	3873
<b>60</b>	3713	3123	3088	3343	3656	4012	4252	4259	4252	4012
<b>65</b>	2648	2747	2831	3062	3337	3679	3976	3972	3976	3679
<b>70</b>	2160	2307	2283	2503	2991	3362	3495	3479	3495	3362
<b>75</b>	1397	1566	1582	1785	2072	2231	2277	2297	2277	2231
<b>80</b>	537	680	756	745	813	874	870	846	870	874
<b>85</b>	71	74	75	66	61	57	57	60	57	57
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : TEL22-4L-LED-41L-45.IES**

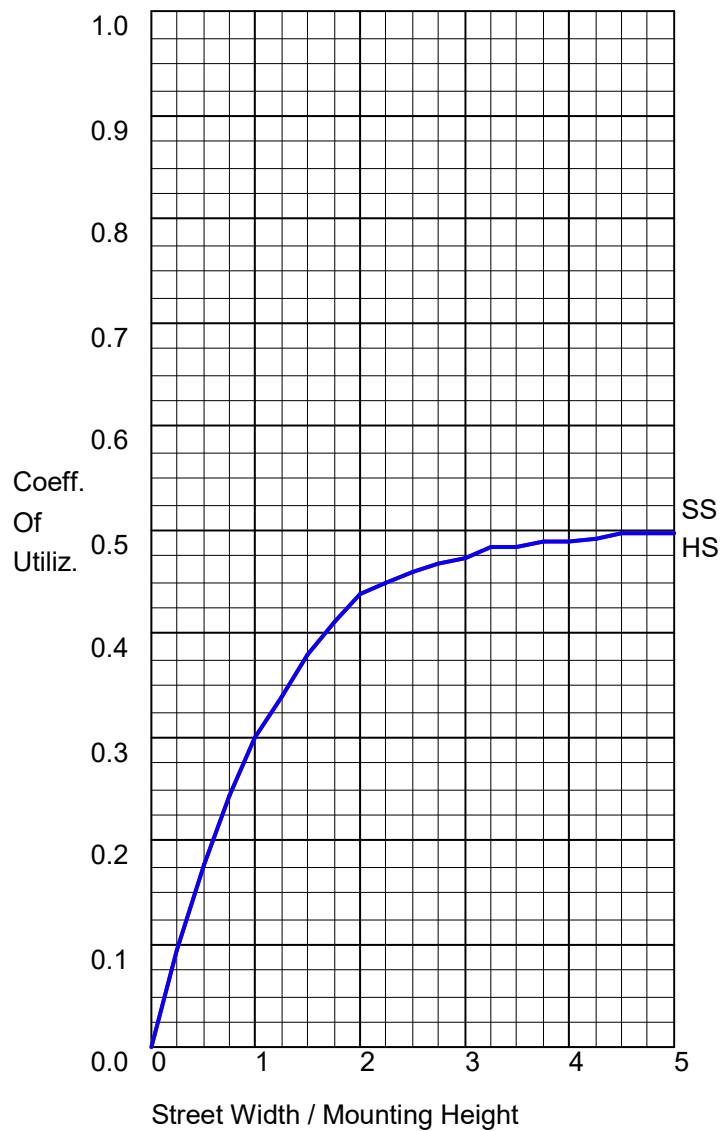
**CANDELA TABULATION - (Cont.)**

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**

	<b><u>300</u></b>	<b><u>310</u></b>	<b><u>320</u></b>	<b><u>330</u></b>	<b><u>340</u></b>	<b><u>350</u></b>	<b><u>360</u></b>
0	6348	6348	6348	6348	6348	6348	6348
5	6005	6051	6112	6174	6245	6319	6372
10	5773	5839	5936	6059	6197	6340	6456
15	5788	5829	5899	6017	6210	6435	6626
20	5932	5963	6004	6088	6271	6550	6815
25	6114	6115	6135	6201	6320	6568	6964
30	6321	6288	6228	6189	6339	6692	7100
35	6487	6402	6286	6307	6436	6830	7395
40	5849	6111	6345	6420	6549	6979	7723
45	4730	5158	5775	6337	6731	7251	8242
50	3777	4080	4672	5429	6519	7649	8838
55	3606	3495	3513	4128	5462	7586	9284
60	3656	3343	3088	3123	3713	5941	8672
65	3337	3062	2831	2747	2648	3922	7196
70	2991	2503	2283	2307	2160	2159	4732
75	2072	1785	1582	1566	1397	1132	2082
80	813	745	756	680	537	424	509
85	61	66	75	74	71	69	81
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

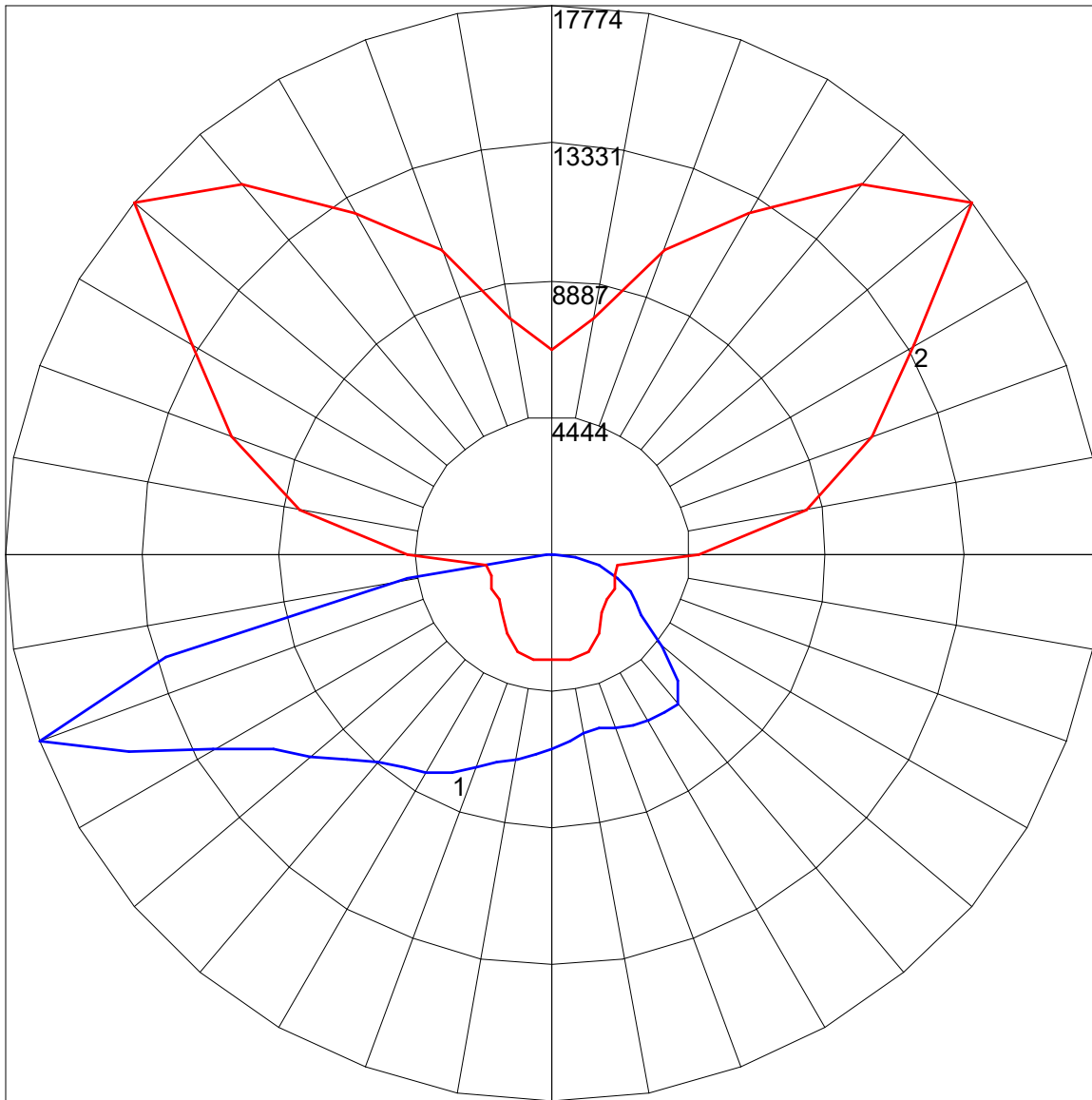
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

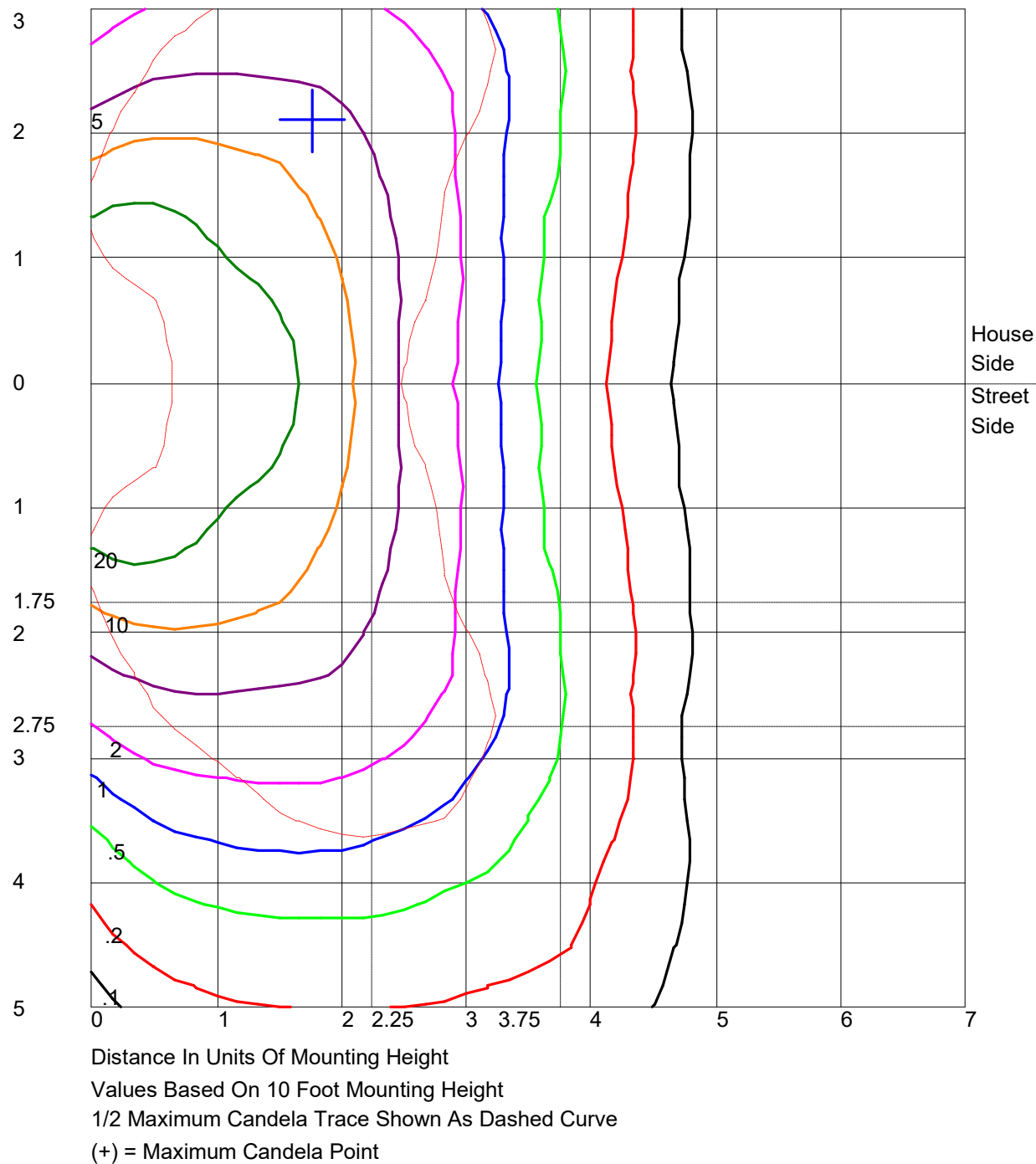
	Lumens	Percent Of Luminaire
Downward Street Side	18386.6	50.0
Downward House Side	18386.6	50.0
Downward Total	36773.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36773.2	100.0

POLAR GRAPH



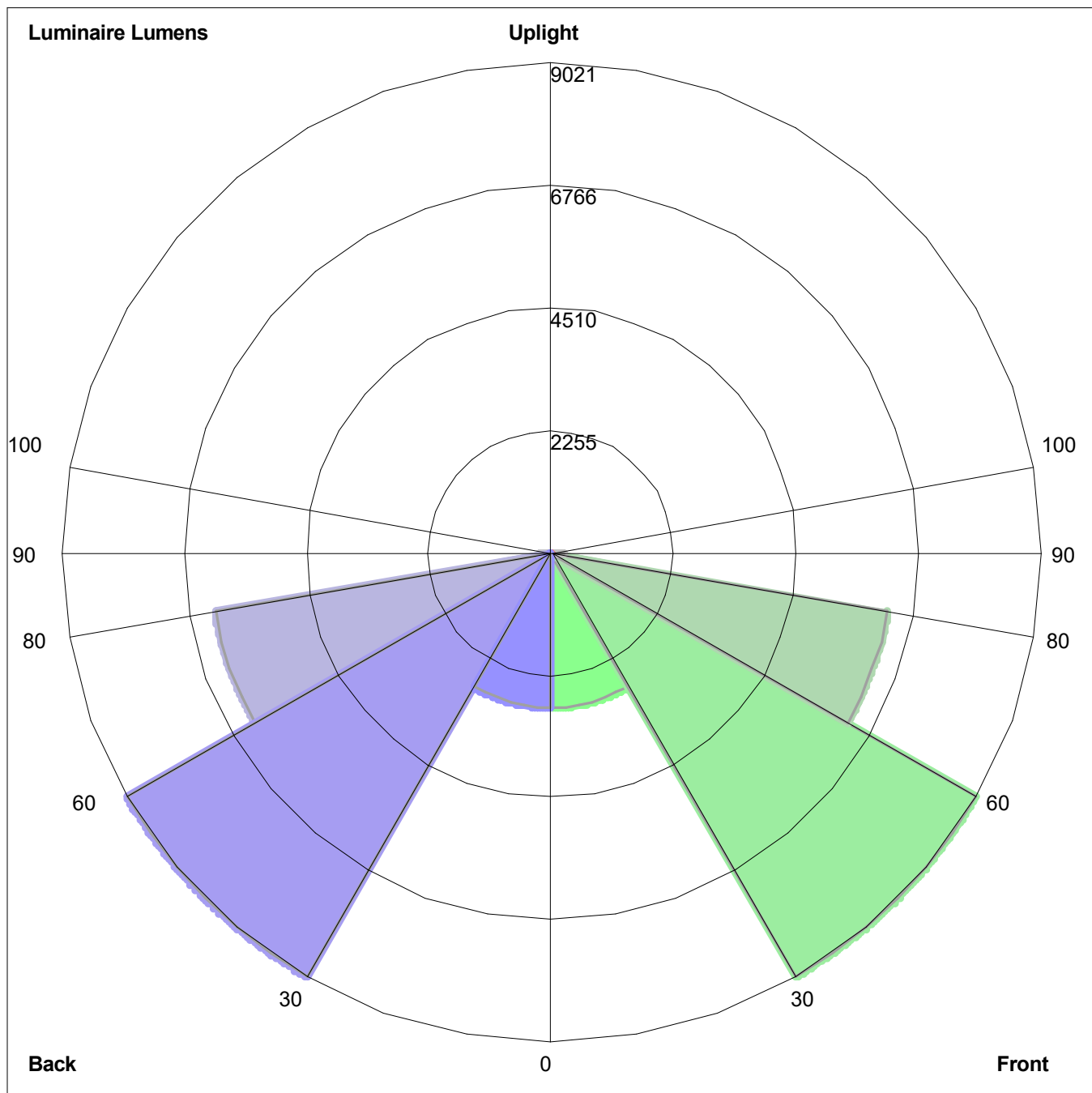
Maximum Candela = 17774 Located At Horizontal Angle = 140, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2856.7, Medium=9020.8, High=6292.8, Very High=216.2  
Back: Low=2856.7, Medium=9020.8, High=6292.8, Very High=216.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5