



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4L-LED-26L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3034

[TESTLAB] TUV SUD America

[TESTDATE] 1/13/2017 12:30:50 PM

[ISSUEDATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[\_SEARCH\_SOURCE] LED

[\_SEARCH\_APPLICATION] Outdoor

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

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

[LUMCAT] TEL22-4L-LED-26L-45

### CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27408
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	265.38
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14525
Maximum Candela Angle	140H 70V
Maximum Candela (<90 Degrees Vertical)	14525
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	4690 (17.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2027.8	N.A.	7.4
FM - Front-Medium (30-60)	6526.3	N.A.	23.8
FH - Front-High (60-80)	4964.7	N.A.	18.1
FVH - Front-Very High (80-90)	185.0	N.A.	0.7
BL - Back-Low (0-30)	2027.8	N.A.	7.4
BM - Back-Medium (30-60)	6526.3	N.A.	23.8
BH - Back-High (60-80)	4964.7	N.A.	18.1
BVH - Back-Very High (80-90)	185.0	N.A.	0.7
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	27407.5	N.A.	100.0
BUG Rating	B4-U0-G4		

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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>	4447	4447	4447	4447	4447	4447	4447	4447	4447	4447
<b>5</b>	4452	4508	4550	4589	4622	4650	4681	4698	4712	4722
<b>10</b>	4519	4600	4662	4719	4774	4830	4892	4946	4982	4996
<b>15</b>	4659	4763	4856	4931	4979	5012	5050	5116	5191	5211
<b>20</b>	4818	4975	5108	5195	5228	5231	5254	5322	5412	5440
<b>25</b>	4926	5145	5376	5500	5544	5577	5602	5634	5680	5704
<b>30</b>	5069	5357	5590	5711	5869	5942	5966	5953	5947	5978
<b>35</b>	5269	5659	5906	5989	6090	6282	6370	6391	6378	6391
<b>40</b>	5469	6075	6359	6446	6490	6648	6908	6962	6959	6942
<b>45</b>	5742	6493	6898	7127	7119	7129	7177	7282	7310	7324
<b>50</b>	6049	7032	7498	7722	7530	7441	7458	7712	7955	8142
<b>55</b>	6392	7723	8546	8583	8125	7970	8419	8920	9545	9649
<b>60</b>	6170	7906	9278	9834	9498	9308	10447	10956	11342	11361
<b>65</b>	5273	7677	9729	10948	11819	12391	12061	10986	10563	10014
<b>70</b>	3529	6292	9045	11273	14525	13182	10618	7909	5201	4385
<b>75</b>	1540	3786	6584	9833	11944	9552	4032	2134	1517	1262
<b>80</b>	419	1155	2296	3684	4690	2154	854	602	418	346
<b>85</b>	80	147	194	255	299	145	81	57	53	52
<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>	4447	4447	4447	4447	4447	4447	4447	4447	4447	4447
<b>5</b>	4712	4698	4681	4650	4622	4589	4550	4508	4452	4416
<b>10</b>	4982	4946	4892	4830	4774	4719	4662	4600	4519	4445
<b>15</b>	5191	5116	5050	5012	4979	4931	4856	4763	4659	4533
<b>20</b>	5412	5322	5254	5231	5228	5195	5108	4975	4818	4637
<b>25</b>	5680	5634	5602	5577	5544	5500	5376	5145	4926	4659
<b>30</b>	5947	5953	5966	5942	5869	5711	5590	5357	5069	4769
<b>35</b>	6378	6391	6370	6282	6090	5989	5906	5659	5269	4869
<b>40</b>	6959	6962	6908	6648	6490	6446	6359	6075	5469	4983
<b>45</b>	7310	7282	7177	7129	7119	7127	6898	6493	5742	5141
<b>50</b>	7955	7712	7458	7441	7530	7722	7498	7032	6049	5368
<b>55</b>	9545	8920	8419	7970	8125	8583	8546	7723	6392	5222

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	11342	10956	10447	9308	9498	9834	9278	7906	6170	4124
<b>65</b>	10563	10986	12061	12391	11819	10948	9729	7677	5273	2777
<b>70</b>	5201	7909	10618	13182	14525	11273	9045	6292	3529	1686
<b>75</b>	1517	2134	4032	9552	11944	9833	6584	3786	1540	901
<b>80</b>	418	602	854	2154	4690	3684	2296	1155	419	359
<b>85</b>	53	57	81	145	299	255	194	147	80	71
<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>	4447	4447	4447	4447	4447	4447	4447	4447	4447	4447
<b>5</b>	4362	4316	4278	4245	4218	4201	4190	4186	4190	4201
<b>10</b>	4350	4269	4202	4156	4123	4105	4097	4094	4097	4105
<b>15</b>	4397	4296	4235	4199	4177	4161	4159	4159	4159	4161
<b>20</b>	4478	4389	4340	4310	4280	4253	4244	4239	4244	4253
<b>25</b>	4506	4471	4429	4416	4390	4373	4351	4357	4351	4373
<b>30</b>	4558	4462	4452	4531	4539	4530	4522	4526	4522	4530
<b>35</b>	4614	4547	4532	4566	4654	4594	4549	4593	4549	4594
<b>40</b>	4727	4638	4569	4429	4252	4041	3907	3983	3907	4041
<b>45</b>	4849	4559	4187	3720	3381	3182	3074	3090	3074	3182
<b>50</b>	4611	3863	3349	2954	2827	2919	2985	2992	2985	2919
<b>55</b>	3797	2987	2680	2783	2910	3091	3250	3281	3250	3091
<b>60</b>	2672	2474	2523	2741	2987	3192	3389	3333	3389	3192
<b>65</b>	2169	2278	2290	2492	2643	2923	3164	3168	3164	2923
<b>70</b>	1782	1934	1849	2009	2373	2617	2673	2697	2673	2617
<b>75</b>	1162	1314	1265	1370	1538	1641	1637	1615	1637	1641
<b>80</b>	455	552	563	540	563	606	580	544	580	606
<b>85</b>	69	69	61	48	40	36	34	34	34	36
<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-26L-45.IES**

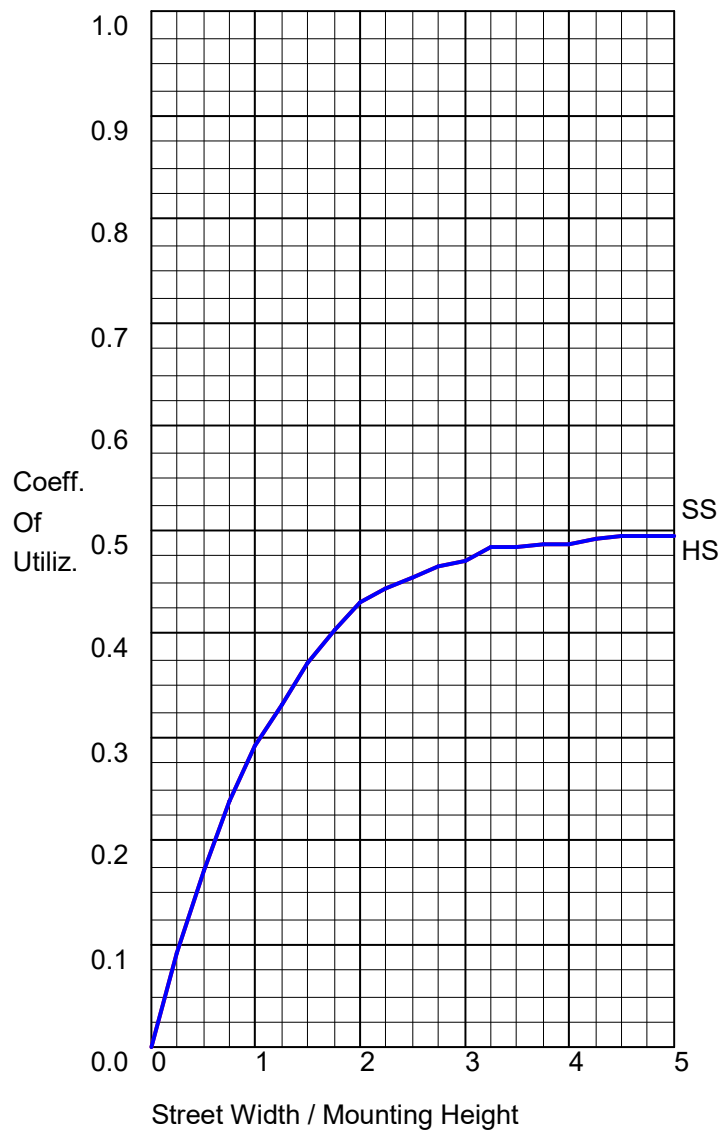
**CANDELA TABULATION - (Cont.)**

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	4447	4447	4447	4447	4447	4447	4447
5	4218	4245	4278	4316	4362	4416	4452
10	4123	4156	4202	4269	4350	4445	4519
15	4177	4199	4235	4296	4397	4533	4659
20	4280	4310	4340	4389	4478	4637	4818
25	4390	4416	4429	4471	4506	4659	4926
30	4539	4531	4452	4462	4558	4769	5069
35	4654	4566	4532	4547	4614	4869	5269
40	4252	4429	4569	4638	4727	4983	5469
45	3381	3720	4187	4559	4849	5141	5742
50	2827	2954	3349	3863	4611	5368	6049
55	2910	2783	2680	2987	3797	5222	6392
60	2987	2741	2523	2474	2672	4124	6170
65	2643	2492	2290	2278	2169	2777	5273
70	2373	2009	1849	1934	1782	1686	3529
75	1538	1370	1265	1314	1162	901	1540
80	563	540	563	552	455	359	419
85	40	48	61	69	69	71	80
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

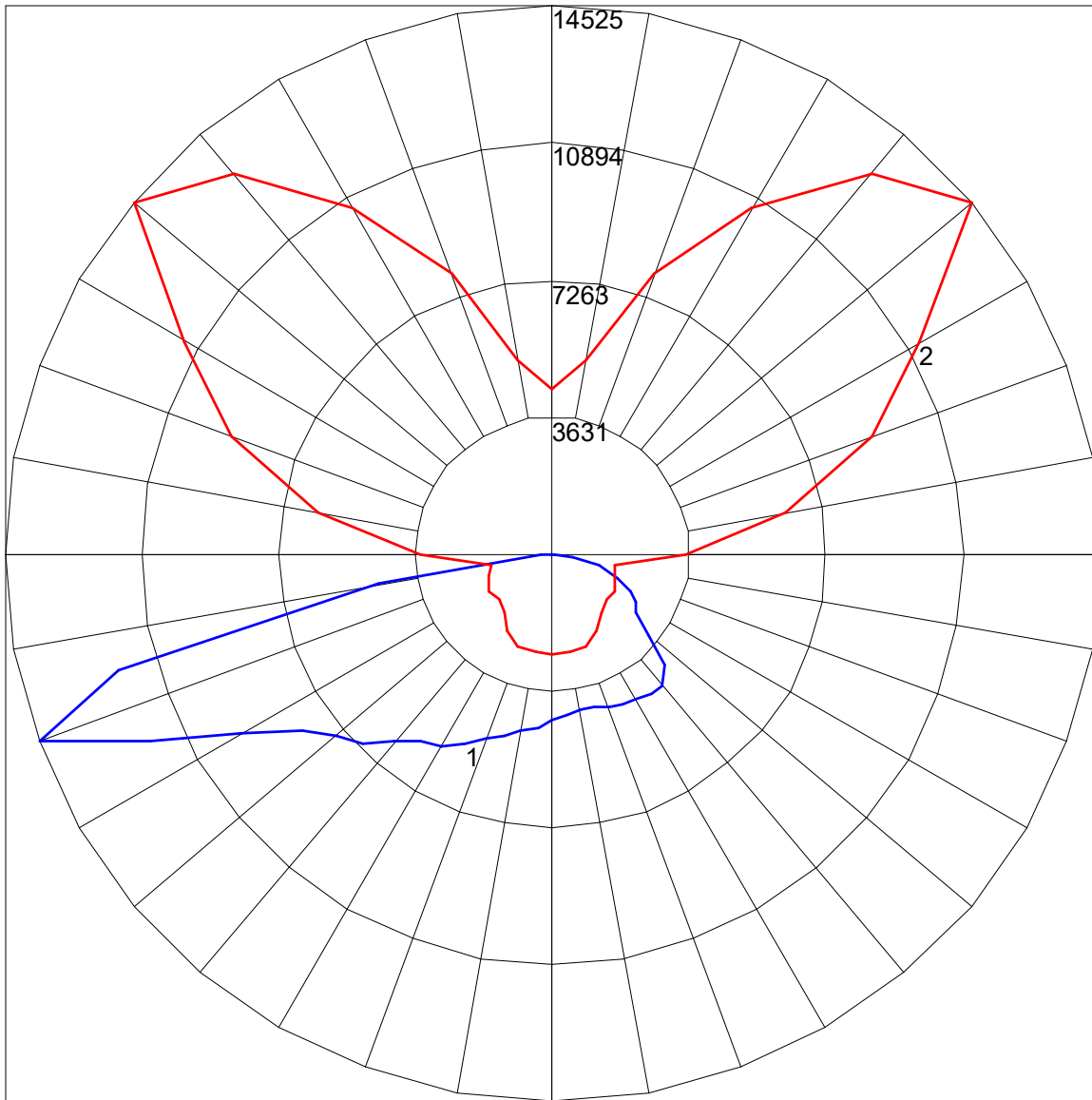
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

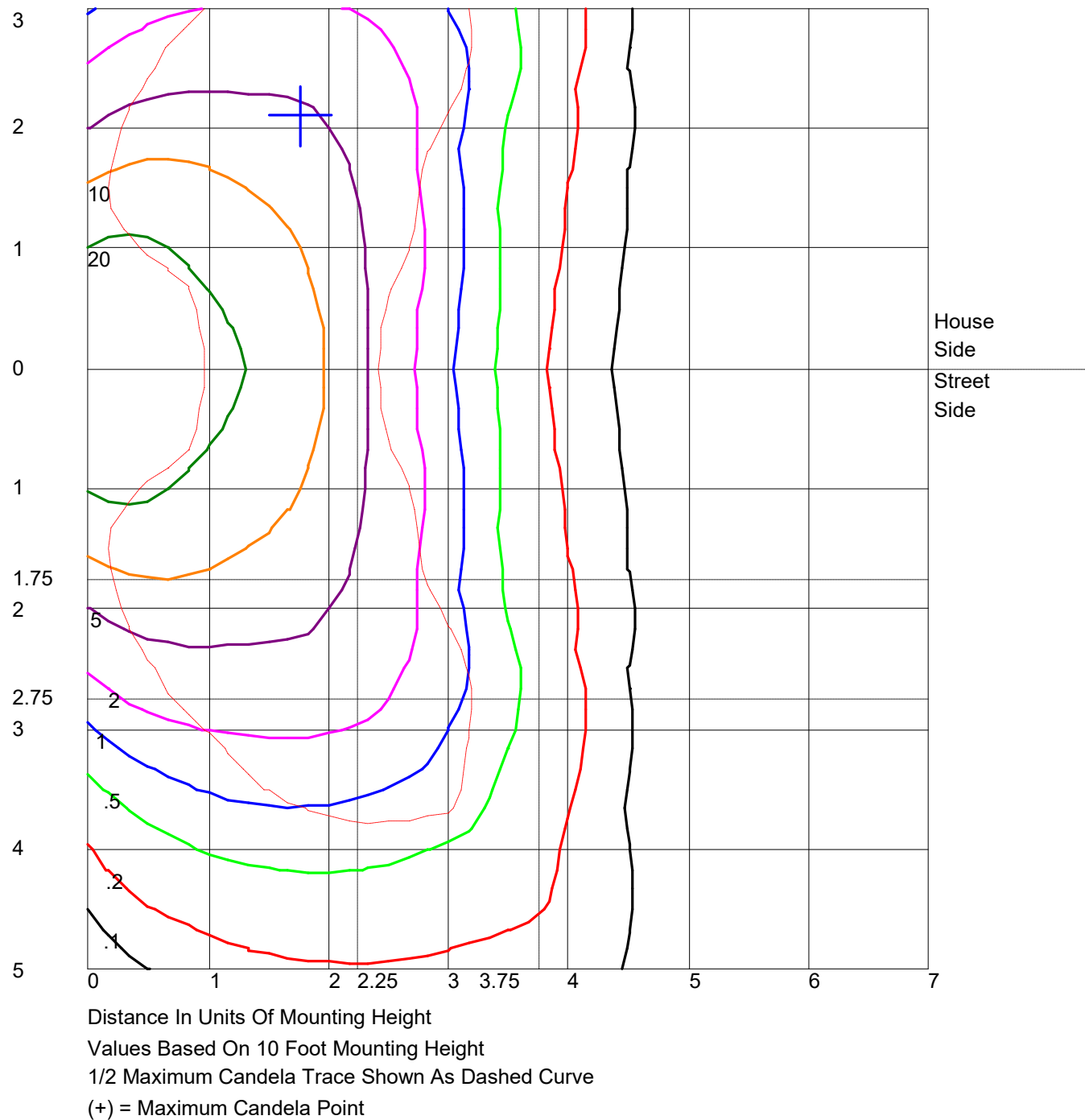
	Lumens	Percent Of Luminaire
Downward Street Side	13703.8	50.0
Downward House Side	13703.8	50.0
Downward Total	27407.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27407.6	100.0

POLAR GRAPH



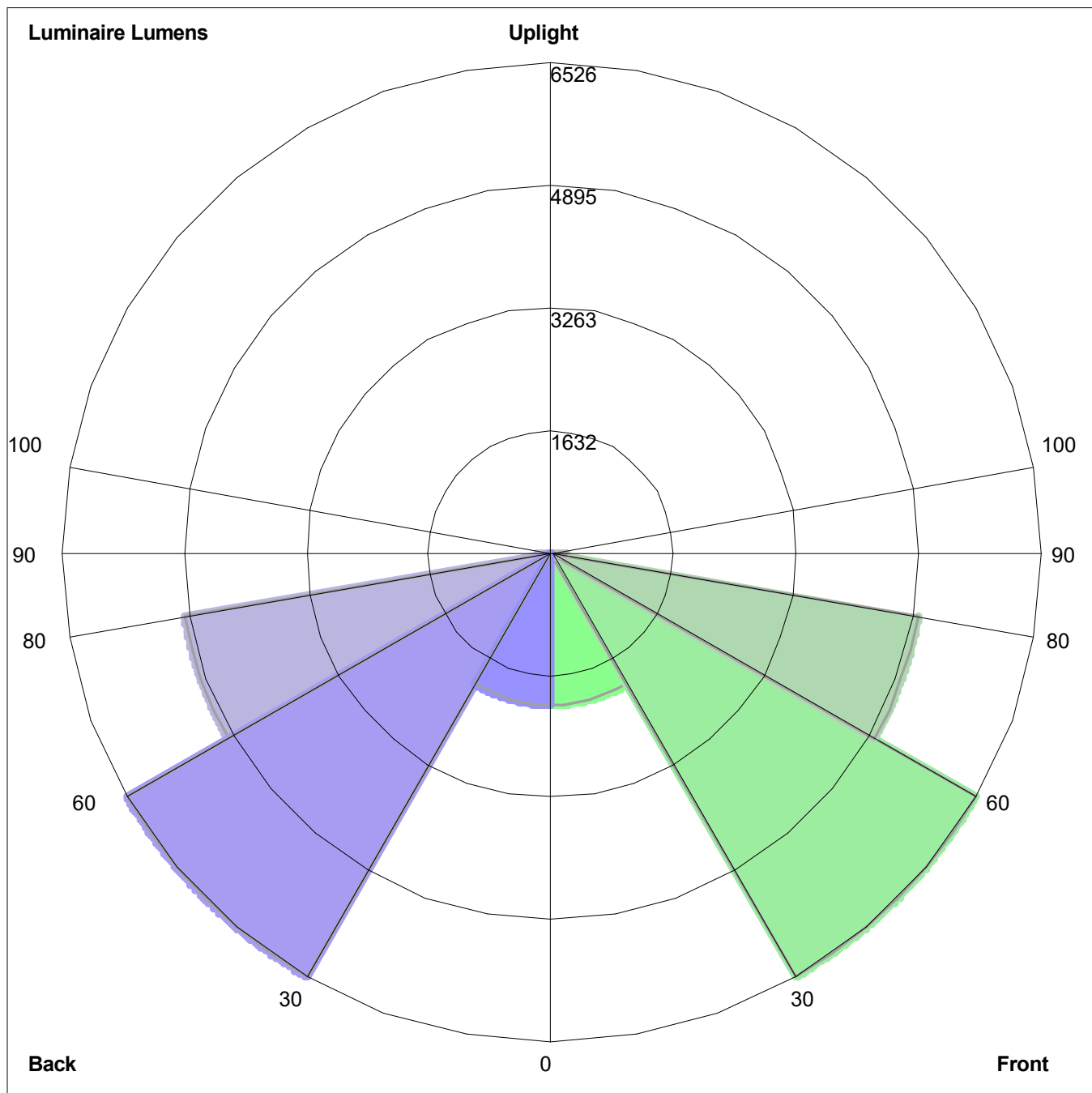
Maximum Candela = 14525 Located At Horizontal Angle = 140, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2027.8, Medium=6526.3, High=4964.7, Very High=185.0  
Back: Low=2027.8, Medium=6526.3, High=4964.7, Very High=185.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4