



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-FTL-LED-34L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3011

[TESTLAB] TUV SUD America

[TESTDATE] 11/28/2016 1:18:43 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 LIGHTING

[LUMCAT] TEL22-FTL-LED-34L-45

### CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	35373
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	301.04
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14467
Maximum Candela Angle	150H 65V
Maximum Candela (<90 Degrees Vertical)	14467
Maximum Candela Angle (<90 Degrees Vertical)	150H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1641 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3279.9	N.A.	9.3
FM - Front-Medium (30-60)	8524.2	N.A.	24.1
FH - Front-High (60-80)	5789.1	N.A.	16.4
FVH - Front-Very High (80-90)	93.5	N.A.	0.3
BL - Back-Low (0-30)	3279.9	N.A.	9.3
BM - Back-Medium (30-60)	8524.2	N.A.	24.1
BH - Back-High (60-80)	5789.1	N.A.	16.4
BVH - Back-Very High (80-90)	93.5	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	35373.4	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>	8974	8974	8974	8974	8974	8974	8974	8974	8974	8974
<b>5</b>	8861	9058	9210	9357	9496	9630	9739	9823	9874	9895
<b>10</b>	8431	8841	9112	9423	9718	10008	10268	10478	10611	10657
<b>15</b>	7879	8508	9016	9493	9895	10204	10477	10787	11017	11135
<b>20</b>	7211	8065	8808	9460	10005	10386	10549	10808	11057	11215
<b>25</b>	6668	7657	8586	9333	9915	10291	10303	10170	10222	10361
<b>30</b>	6305	7338	8247	9120	9802	10029	9948	9803	9870	9909
<b>35</b>	6608	7686	8526	9196	9607	10004	10029	10042	10207	10236
<b>40</b>	7271	8315	9123	9691	9887	9971	10344	10310	10693	10674
<b>45</b>	8016	9031	9734	10140	10166	10148	10279	10516	10392	9733
<b>50</b>	8391	9465	10258	10625	10525	10240	9947	10181	9991	9559
<b>55</b>	9019	10178	10944	10808	10901	10460	10179	10079	10066	9366
<b>60</b>	9332	11300	12345	12016	11273	10983	10988	10520	10493	9859
<b>65</b>	8378	11607	13830	14467	13118	12071	12449	11500	10983	10417
<b>70</b>	5481	9227	11026	12178	12662	13001	13315	13455	12068	11173
<b>75</b>	1009	1602	2012	3067	3622	8937	11908	10112	8170	7121
<b>80</b>	307	395	455	522	561	947	1641	754	440	345
<b>85</b>	43	82	75	68	62	53	46	40	36	34
<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>	8974	8974	8974	8974	8974	8974	8974	8974	8974	8974
<b>5</b>	9874	9823	9739	9630	9496	9357	9210	9058	8861	8653
<b>10</b>	10611	10478	10268	10008	9718	9423	9112	8841	8431	8056
<b>15</b>	11017	10787	10477	10204	9895	9493	9016	8508	7879	7299
<b>20</b>	11057	10808	10549	10386	10005	9460	8808	8065	7211	6500
<b>25</b>	10222	10170	10303	10291	9915	9333	8586	7657	6668	5786
<b>30</b>	9870	9803	9948	10029	9802	9120	8247	7338	6305	5331
<b>35</b>	10207	10042	10029	10004	9607	9196	8526	7686	6608	5513
<b>40</b>	10693	10310	10344	9971	9887	9691	9123	8315	7271	6081
<b>45</b>	10392	10516	10279	10148	10166	10140	9734	9031	8016	6738
<b>50</b>	9991	10181	9947	10240	10525	10625	10258	9465	8391	7113
<b>55</b>	10066	10079	10179	10460	10901	10808	10944	10178	9019	7509

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	10493	10520	10988	10983	11273	12016	12345	11300	9332	7474
<b>65</b>	10983	11500	12449	12071	13118	14467	13830	11607	8378	6423
<b>70</b>	12068	13455	13315	13001	12662	12178	11026	9227	5481	3645
<b>75</b>	8170	10112	11908	8937	3622	3067	2012	1602	1009	888
<b>80</b>	440	754	1641	947	561	522	455	395	307	303
<b>85</b>	36	40	46	53	62	68	75	82	43	40
<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>	8974	8974	8974	8974	8974	8974	8974	8974	8974	8974
<b>5</b>	8482	8340	8213	8119	8050	7986	7956	7929	7956	7986
<b>10</b>	7756	7511	7305	7187	7112	7066	7035	7013	7035	7066
<b>15</b>	6891	6596	6416	6329	6258	6229	6205	6197	6205	6229
<b>20</b>	6016	5769	5673	5597	5535	5503	5482	5458	5482	5503
<b>25</b>	5311	5167	5094	5028	4973	4937	4915	4908	4915	4937
<b>30</b>	4798	4679	4703	4656	4619	4578	4537	4532	4537	4578
<b>35</b>	4771	4433	4352	4393	4368	4436	4526	4571	4526	4436
<b>40</b>	5113	4412	4127	4164	4452	4684	4801	4858	4801	4684
<b>45</b>	5507	4539	3989	4054	4423	4853	5012	5168	5012	4853
<b>50</b>	5666	4593	3864	3793	4257	4735	4720	4683	4720	4735
<b>55</b>	5759	4460	3620	3412	3849	4253	4133	3899	4133	4253
<b>60</b>	5636	4228	3222	2893	3368	3737	3588	3309	3588	3737
<b>65</b>	4839	3520	2707	2393	2804	3059	2950	2687	2950	3059
<b>70</b>	2952	2254	1888	1893	2219	2427	2238	2090	2238	2427
<b>75</b>	983	1018	1057	1360	1526	1550	1468	1431	1468	1550
<b>80</b>	341	376	402	534	626	677	618	601	618	677
<b>85</b>	43	48	52	59	64	67	71	71	71	67
<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-FTL-LED-34L-45.IES**

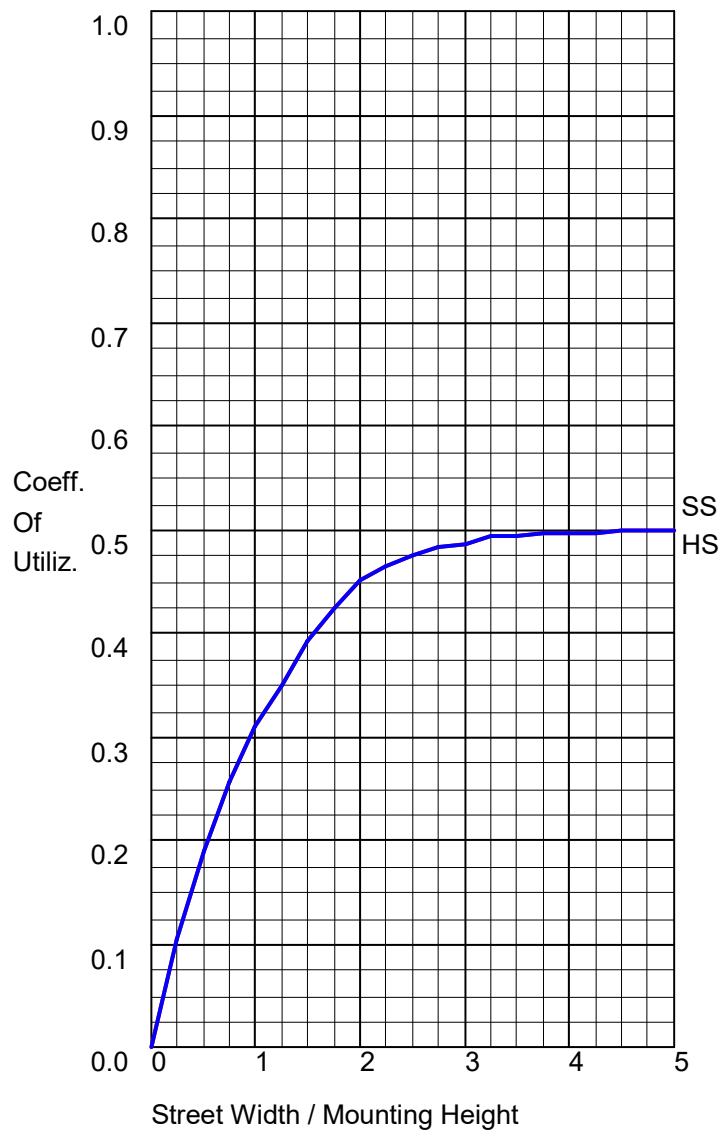
**CANDELA TABULATION - (Cont.)**

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	8974	8974	8974	8974	8974	8974	8974
5	8050	8119	8213	8340	8482	8653	8861
10	7112	7187	7305	7511	7756	8056	8431
15	6258	6329	6416	6596	6891	7299	7879
20	5535	5597	5673	5769	6016	6500	7211
25	4973	5028	5094	5167	5311	5786	6668
30	4619	4656	4703	4679	4798	5331	6305
35	4368	4393	4352	4433	4771	5513	6608
40	4452	4164	4127	4412	5113	6081	7271
45	4423	4054	3989	4539	5507	6738	8016
50	4257	3793	3864	4593	5666	7113	8391
55	3849	3412	3620	4460	5759	7509	9019
60	3368	2893	3222	4228	5636	7474	9332
65	2804	2393	2707	3520	4839	6423	8378
70	2219	1893	1888	2254	2952	3645	5481
75	1526	1360	1057	1018	983	888	1009
80	626	534	402	376	341	303	307
85	64	59	52	48	43	40	43
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

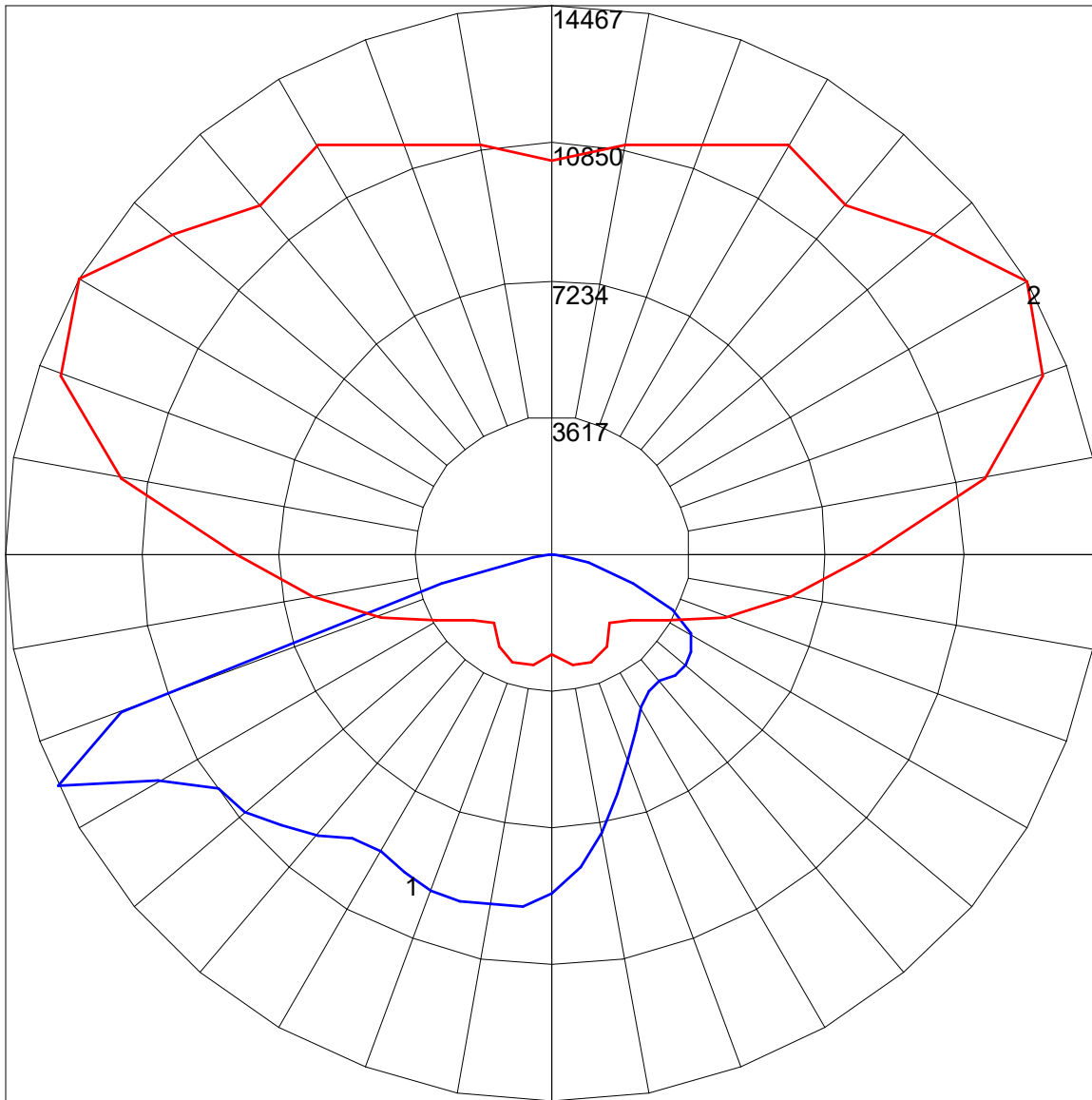
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

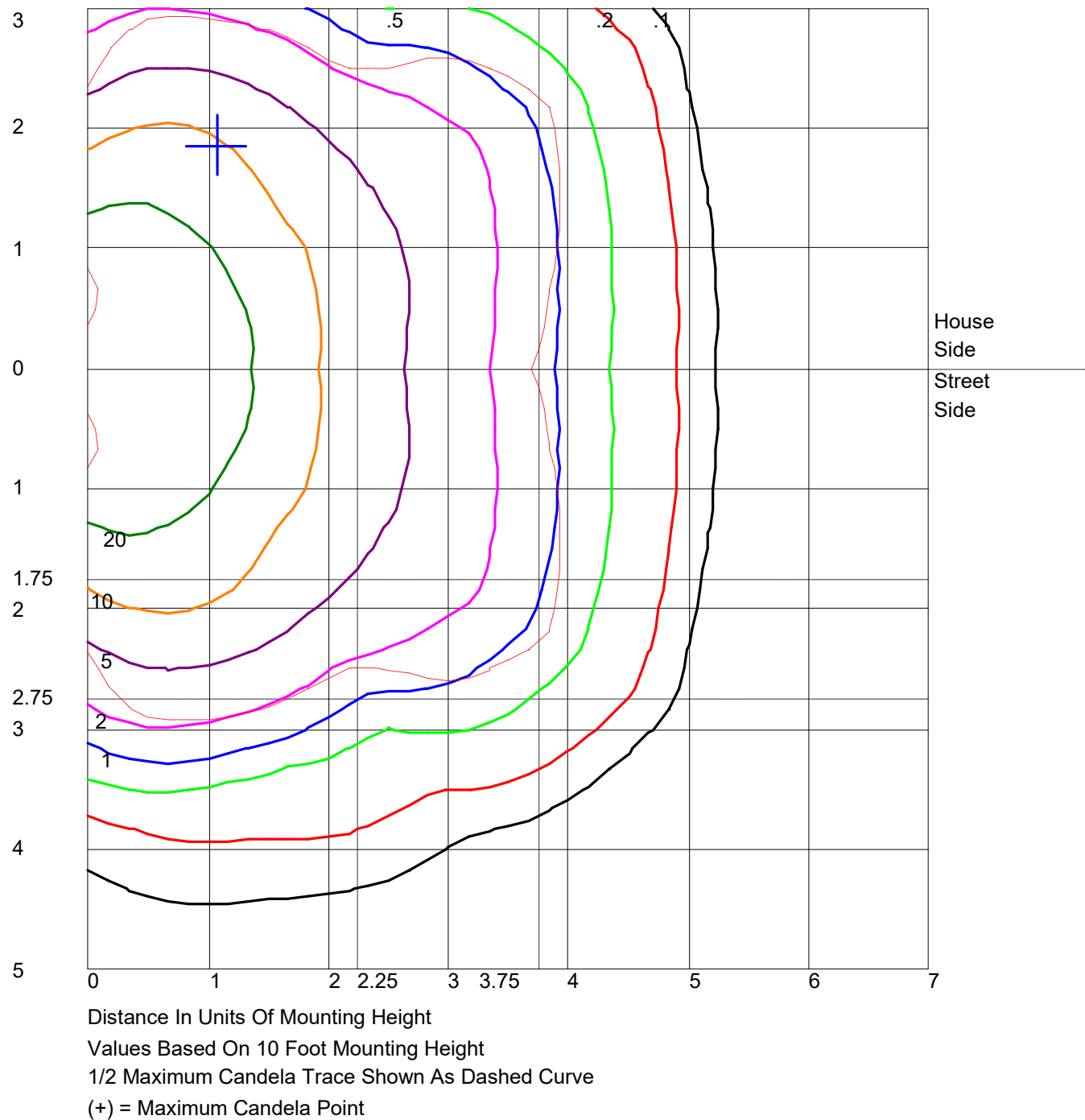
	Lumens	Percent Of Luminaire
Downward Street Side	17686.6	50.0
Downward House Side	17686.6	50.0
Downward Total	35373.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35373.2	100.0

POLAR GRAPH



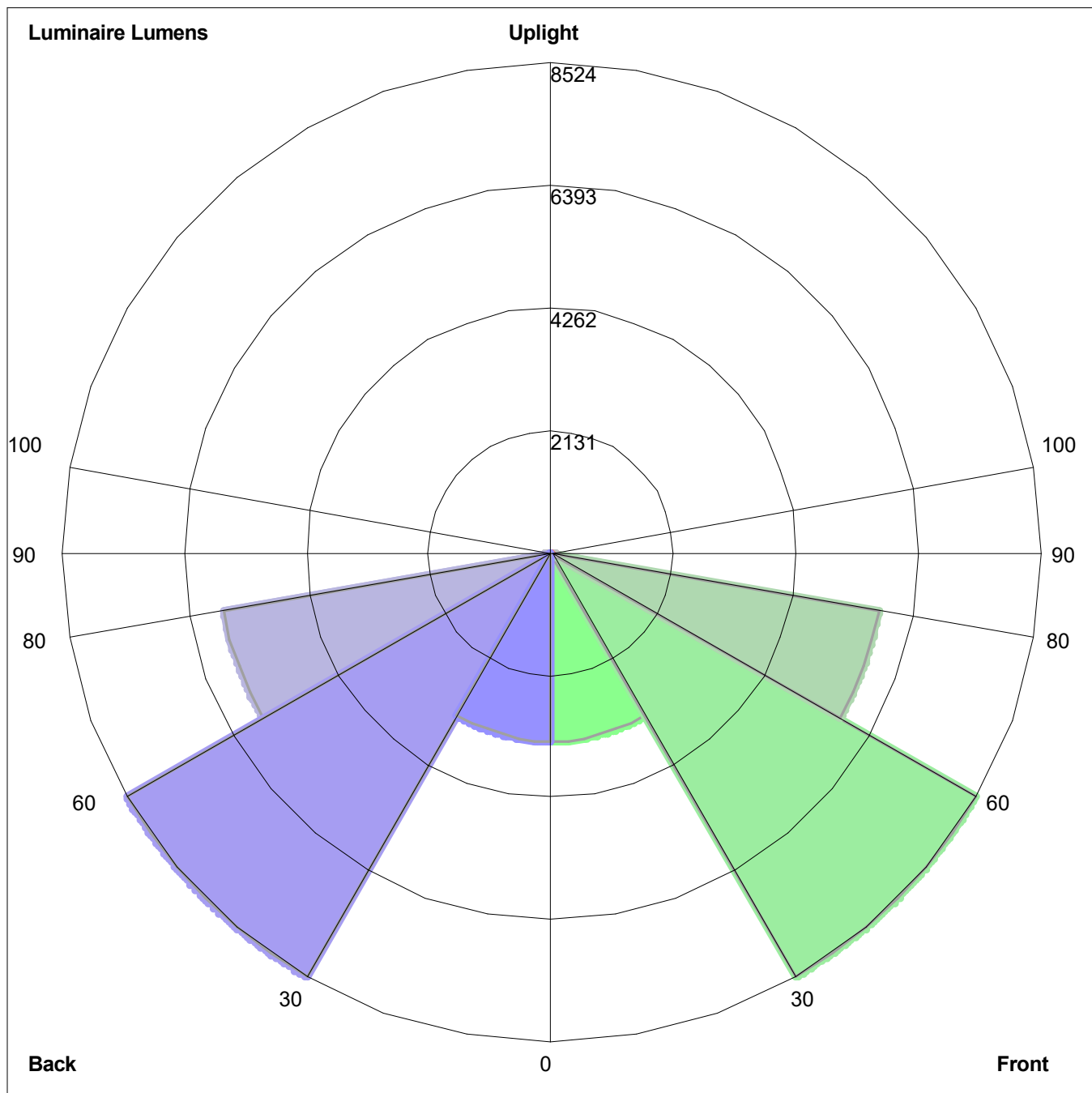
Maximum Candela = 14467 Located At Horizontal Angle = 150, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (150 - 330) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3279.9, Medium=8524.2, High=5789.1, Very High=93.5  
Back: Low=3279.9, Medium=8524.2, High=5789.1, Very High=93.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5