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Report No: L061606101

Date: 7/18/2016



NVLAP LAB CODE 200927-0

**Report No:** L061606101

**Report Prepared For:** Beachside Lighting  
 905 Kalaniana'ole Hwy # 29A Kailua, HI. 96734

**Model Number:** STL - WW

**Test:** Electrical and Photometric tests

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*IESNA LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products  
*ANSI NEMA ANSLG C78.377: 2008* Specification of the Chromaticity of Solid State Lighting Products  
*ANSI C82.77:2002:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Catalog number is STL - WW. Received in working and undamaged condition. No modifications were necessary.

**Testing Condition:** Fixture is tested with no special conditions.

**Sample Arrival Date:** 6/25/16

**Date of Tests:** 7/12/16 - 7/13/16

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

**Equipment List**

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/18/16
Xitron Power Analyzer	2503AH	MT-EL01	11/30/16
ITECH DC Power Supply	IT6122	PSDC-03-S1	11/17/16
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/24/16
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

**Test Summary**

<b>Manufacturer:</b>	Beachside Lighting
<b>Model Number:</b>	STL - WW
<b>Driver Model Number:</b>	N/A
<b>Total Lumens:</b>	14.00
<b>Input Voltage (VAC/60Hz):</b>	120.00
<b>Input Current (Amp):</b>	0.037
<b>Input Power (W):</b>	2.66
<b>Input Power Factor:</b>	0.60
<b>Current ATHD @ 120V(%):</b>	81%
<b>Current ATHD @ 277V(%):</b>	N/A
<b>Efficacy:</b>	5
<b>Color Rendering Index (CRI):</b>	87
<b>Correlated Color Temperature (K):</b>	3016
<b>Chromaticity Coordinate x:</b>	0.4327
<b>Chromaticity Coordinate y:</b>	0.3973
<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:30
<b>Total Operating Time (Hours):</b>	1:20
<b>Off State Power(W):</b>	0.00

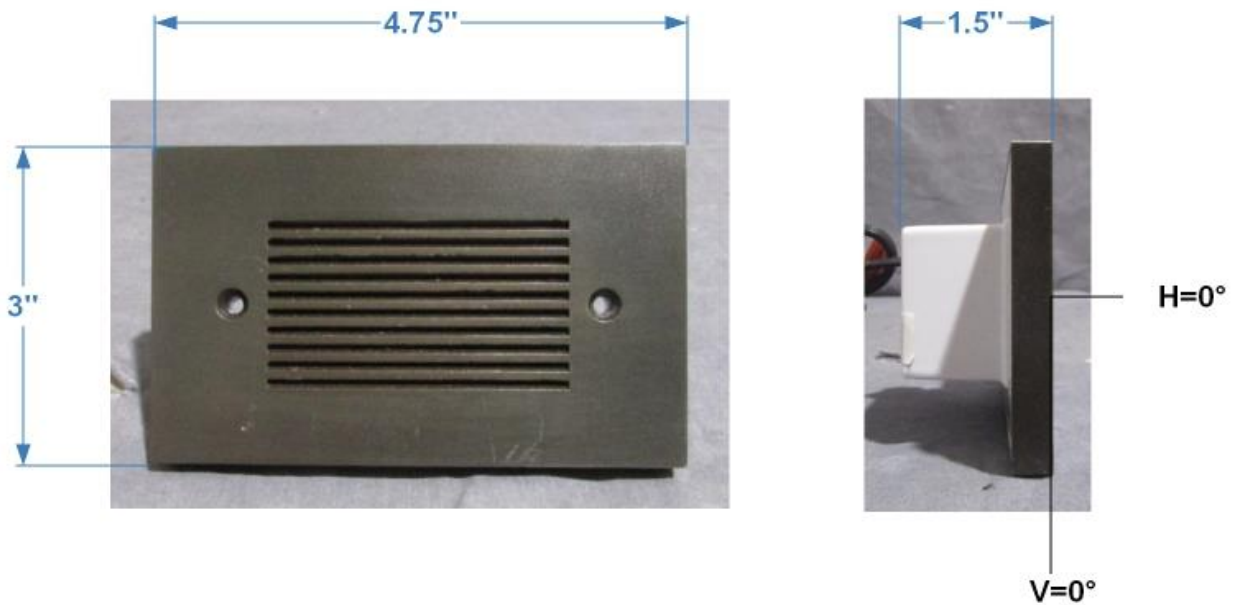
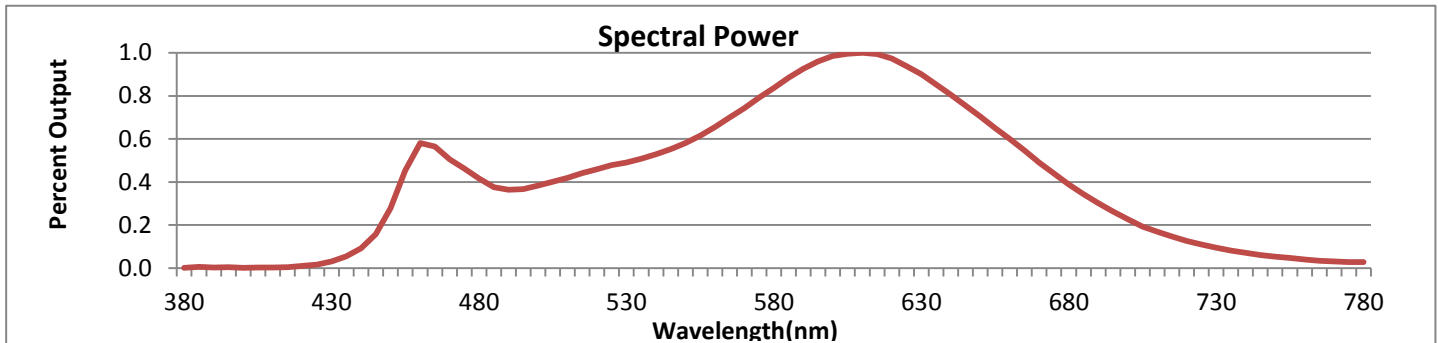


FIG. 1 LUMINAIRE

\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



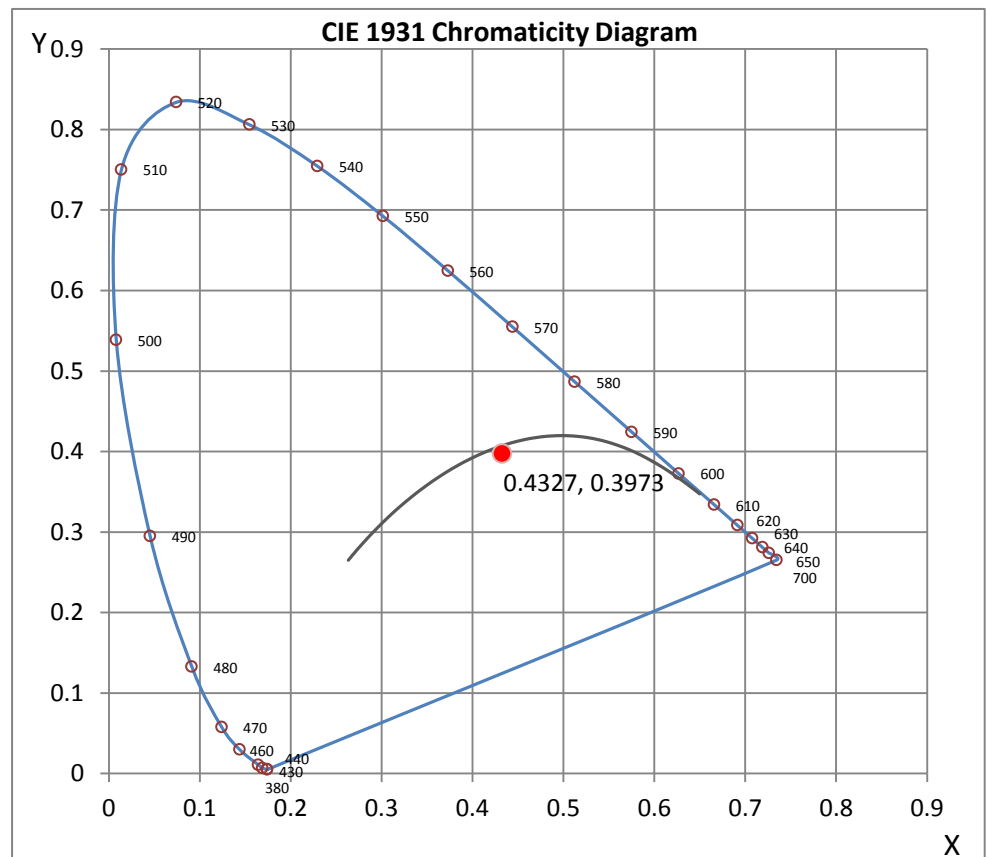
Wavelength	W/m <sup>2</sup> nm	440	0.0914	510	0.4196	580	0.8364	650	0.7048	720	0.1259
380	0.0008	450	0.2776	520	0.4592	590	0.9259	660	0.5999	730	0.0948
390	0.0031	460	0.5812	530	0.4905	600	0.9855	670	0.4900	740	0.0708
400	0.0006	470	0.5045	540	0.5287	610	1.0000	680	0.3898	750	0.0537
410	0.0027	480	0.4158	550	0.5816	620	0.9729	690	0.3009	760	0.0404
420	0.0105	490	0.3638	560	0.6561	630	0.9010	700	0.2266	770	0.0313
430	0.0312	500	0.3829	570	0.7427	640	0.8055	710	0.1694	780	0.0276

**CRI & CCT**

x	0.4327
y	0.3973
u'	0.2508
v'	0.5181
CRI	87.30
CCT	3016
Duv	-0.00215

**R Values**

R1	90.45
R2	98.99
R3	88.92
R4	84.36
R5	90.63
R6	93.98
R7	82.12
R8	68.91
R9	38.55
R10	98.78
R11	85.53
R12	79.25
R13	93.85
R14	94.60



\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Released by:



Jeff Ahn  
Engineering Manager

Test Report Reviewed by:



Steve Kang  
Quality Assurance

*\*Attached are photometric data reports. Total number of pages: 16*



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# Photometric Test Report

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061606101.IES**

## DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L061606101  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUEDATE] 7/12/2016  
 [MANUFAC] BEACHSIDE LIGHTING  
 [LUMCAT] STL-WW  
 [LUMINAIRE] STEP LIGHT  
 [BALLASTCAT] N/A  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 120VAC, 2.66W  
 [TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	5
Total Luminaire Watts	2.66
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	15.48
Maximum Candela Angle	0H 60V
Maximum Candela (<90 Degrees Vertical)	15.48
Maximum Candela Angle (<90 Degrees Vertical)	0H 60V
Maximum Candela At 90 Degrees Vertical	3.74 (26.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	8.73 (62.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

**ZONAL LUMEN SUMMARY**

	Lumens	% Lamp	% Luminaire	Zone	%
FL - Front-Low (0-30)	0.1	N.A.	0.7		
FM - Front-Medium (30-60)	3.7	N.A.	26.4	0-20	0.2
FH - Front-High (60-80)	7.3	N.A.	52.4	0-30	0.7
FVH - Front-Very High (80-90)	2.1	N.A.	14.9	0-40	2.1
BL - Back-Low (0-30)	< 0.05	N.A.	0.0	0-60	27.1
BM - Back-Medium (30-60)	< 0.05	N.A.	0.0	0-80	79.6
BH - Back-High (60-80)	< 0.05	N.A.	0.0	0-90	94.5
BVH - Back-Very High (80-90)	< 0.05	N.A.	0.0	10-90	94.5
UL - Uplight-Low (90-100)	0.5	N.A.	3.5	20-40	1.9
UH - Uplight-High (100-180)	0.3	N.A.	2.0	20-50	8.6
				40-70	52.4
Total	14.0	N.A.	100.0	60-80	52.5
				70-80	25.1
BUG Rating	B0-U1-G0			80-90	14.9
				90-110	4.4
				90-120	4.9
				90-130	5.1
				90-150	5.4
				90-180	5.5
				110-180	1.1
				0-180	100

**IES ROAD REPORT**  
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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>2.5</b>	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
<b>5.0</b>	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<b>7.5</b>	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.10
<b>10.0</b>	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.12	0.12
<b>12.5</b>	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.14	0.14	0.13
<b>15.0</b>	0.21	0.21	0.21	0.20	0.20	0.19	0.18	0.17	0.16	0.15
<b>17.5</b>	0.24	0.25	0.26	0.26	0.25	0.23	0.21	0.20	0.18	0.17
<b>20.0</b>	0.31	0.32	0.32	0.32	0.31	0.29	0.27	0.25	0.22	0.19
<b>22.5</b>	0.42	0.42	0.41	0.39	0.38	0.36	0.33	0.30	0.27	0.23
<b>25.0</b>	0.52	0.52	0.50	0.48	0.46	0.43	0.40	0.36	0.32	0.28
<b>27.5</b>	0.66	0.64	0.62	0.60	0.56	0.53	0.49	0.43	0.38	0.32
<b>30.0</b>	0.80	0.79	0.77	0.73	0.69	0.65	0.59	0.52	0.45	0.39
<b>32.5</b>	0.94	0.93	0.92	0.88	0.83	0.77	0.70	0.62	0.54	0.48
<b>35.0</b>	1.15	1.14	1.10	1.06	1.01	0.93	0.83	0.75	0.65	0.56
<b>37.5</b>	1.46	1.45	1.44	1.37	1.21	1.12	1.00	0.89	0.78	0.66
<b>40.0</b>	2.89	2.84	2.66	2.29	1.87	1.54	1.24	1.06	0.91	0.78
<b>42.5</b>	4.63	4.56	4.31	3.90	3.34	2.62	1.91	1.43	1.09	0.92
<b>45.0</b>	6.37	6.29	6.02	5.57	4.97	4.22	3.30	2.25	1.47	1.07
<b>47.5</b>	8.14	8.06	7.75	7.25	6.59	5.77	4.83	3.71	2.51	1.55
<b>50.0</b>	9.88	9.78	9.47	8.96	8.24	7.36	6.32	5.15	3.86	2.44
<b>52.5</b>	11.55	11.47	11.15	10.62	9.88	8.93	7.82	6.58	5.29	3.72
<b>55.0</b>	13.25	13.16	12.81	12.24	11.49	10.49	9.27	7.99	6.58	4.96
<b>57.5</b>	14.37	14.24	14.01	13.84	13.08	12.05	10.79	9.38	7.88	6.21
<b>60.0</b>	15.48	15.21	14.65	14.35	14.23	13.35	12.17	10.78	9.15	7.41
<b>62.5</b>	14.87	14.83	14.72	14.33	14.11	13.72	13.08	11.87	10.36	8.58
<b>65.0</b>	14.26	14.20	14.03	13.83	13.54	13.24	12.76	12.22	11.15	9.60
<b>67.5</b>	13.43	13.39	13.28	13.07	12.83	12.50	12.12	11.66	11.03	10.12
<b>70.0</b>	12.59	12.55	12.43	12.28	12.00	11.69	11.34	10.92	10.35	9.65
<b>72.5</b>	11.71	11.66	11.56	11.38	11.16	10.87	10.52	10.10	9.59	8.97
<b>75.0</b>	10.82	10.75	10.63	10.48	10.30	9.97	9.64	9.26	8.77	8.17
<b>77.5</b>	9.78	9.73	9.66	9.51	9.30	9.01	8.71	8.36	7.88	7.34
<b>80.0</b>	8.73	8.67	8.60	8.46	8.24	8.01	7.71	7.39	6.98	6.46
<b>82.5</b>	7.48	7.50	7.44	7.32	7.16	6.92	6.68	6.35	5.98	5.52
<b>85.0</b>	6.23	6.22	6.18	6.09	5.94	5.73	5.50	5.23	4.92	4.53
<b>87.5</b>	4.99	4.94	4.91	4.81	4.65	4.52	4.31	4.04	3.81	3.49
<b>90.0</b>	3.74	3.71	3.62	3.51	3.41	3.24	3.08	2.87	2.64	2.37
<b>92.5</b>	2.57	2.46	2.36	2.26	2.17	2.05	1.83	1.68	1.52	1.32
<b>95.0</b>	1.39	1.47	1.30	1.19	1.09	1.05	0.90	0.89	0.84	0.71
<b>97.5</b>	0.98	0.84	0.76	0.68	0.64	0.62	0.57	0.55	0.51	0.45
<b>100.0</b>	0.56	0.55	0.54	0.52	0.50	0.49	0.48	0.44	0.42	0.39
<b>102.5</b>	0.49	0.47	0.44	0.45	0.43	0.41	0.39	0.37	0.34	0.33
<b>105.0</b>	0.42	0.40	0.39	0.38	0.36	0.35	0.33	0.31	0.29	0.28
<b>107.5</b>	0.37	0.35	0.33	0.33	0.31	0.30	0.27	0.27	0.24	0.22
<b>110.0</b>	0.31	0.30	0.28	0.27	0.26	0.26	0.23	0.23	0.20	0.19
<b>112.5</b>	0.26	0.26	0.24	0.24	0.23	0.21	0.20	0.19	0.17	0.16
<b>115.0</b>	0.21	0.22	0.21	0.20	0.21	0.18	0.17	0.16	0.15	0.13
<b>117.5</b>	0.19	0.19	0.18	0.18	0.18	0.16	0.16	0.14	0.14	0.11
<b>120.0</b>	0.17	0.17	0.16	0.16	0.15	0.15	0.13	0.12	0.12	0.09
<b>122.5</b>	0.14	0.15	0.15	0.14	0.12	0.12	0.11	0.10	0.09	0.09
<b>125.0</b>	0.10	0.14	0.12	0.12	0.11	0.11	0.09	0.09	0.09	0.07
<b>127.5</b>	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.06
<b>130.0</b>	0.10	0.10	0.10	0.08	0.09	0.09	0.08	0.07	0.06	0.05

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

132.5	0.10	0.10	0.09	0.07	0.08	0.08	0.07	0.06	0.05	0.05
135.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.05	0.05	0.05
137.5	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.05
140.0	0.07	0.07	0.07	0.06	0.07	0.07	0.05	0.05	0.05	0.05
142.5	0.07	0.07	0.06	0.06	0.05	0.06	0.05	0.05	0.05	0.05
145.0	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.05	0.05	0.04
147.5	0.04	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05
150.0	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04
152.5	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
155.0	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
157.5	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
160.0	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
162.5	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
165.0	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04
167.5	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
170.0	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
172.5	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
175.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
177.5	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.5	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00
5.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00
7.5	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00
10.0	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00
12.5	0.12	0.12	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.00
15.0	0.14	0.13	0.12	0.11	0.10	0.09	0.09	0.08	0.07	0.00
17.5	0.15	0.14	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.00
20.0	0.17	0.15	0.14	0.12	0.11	0.09	0.08	0.06	0.05	0.00
22.5	0.20	0.17	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.00
25.0	0.23	0.19	0.16	0.13	0.11	0.09	0.07	0.05	0.04	0.00
27.5	0.27	0.22	0.18	0.15	0.11	0.09	0.07	0.05	0.04	0.00
30.0	0.32	0.26	0.21	0.16	0.12	0.09	0.07	0.05	0.04	0.00
32.5	0.39	0.31	0.24	0.19	0.13	0.10	0.07	0.05	0.03	0.00
35.0	0.46	0.37	0.28	0.21	0.15	0.10	0.06	0.04	0.02	0.00
37.5	0.54	0.43	0.32	0.24	0.16	0.11	0.06	0.04	0.02	0.00
40.0	0.64	0.51	0.37	0.27	0.18	0.11	0.07	0.04	0.02	0.00
42.5	0.76	0.59	0.43	0.32	0.20	0.12	0.07	0.04	0.02	0.00
45.0	0.89	0.68	0.50	0.36	0.24	0.13	0.08	0.04	0.02	0.00
47.5	1.04	0.78	0.57	0.41	0.27	0.15	0.08	0.04	0.02	0.00
50.0	1.41	0.93	0.65	0.47	0.31	0.17	0.09	0.04	0.02	0.00
52.5	2.19	1.21	0.77	0.53	0.35	0.19	0.10	0.04	0.02	0.00
55.0	3.34	1.80	0.95	0.61	0.38	0.22	0.12	0.04	0.02	0.00
57.5	4.45	2.74	1.32	0.70	0.43	0.24	0.13	0.05	0.02	0.00
60.0	5.56	3.69	2.02	0.93	0.48	0.26	0.13	0.05	0.02	0.00
62.5	6.64	4.66	2.83	1.26	0.56	0.29	0.13	0.04	0.02	0.00
65.0	7.66	5.59	3.65	1.88	0.73	0.33	0.14	0.04	0.02	0.00
67.5	8.43	6.49	4.45	2.57	1.06	0.39	0.14	0.03	0.02	0.00
70.0	8.71	7.11	5.19	3.24	1.53	0.47	0.15	0.02	0.02	0.00
72.5	8.20	7.09	5.83	3.84	2.01	0.67	0.16	0.02	0.02	0.00
75.0	7.50	6.60	5.52	4.21	2.47	0.94	0.16	0.02	0.02	0.00
77.5	6.69	5.91	5.06	4.16	2.64	1.18	0.20	0.02	0.02	0.00



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061606101.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	5.85	5.16	4.40	3.65	2.61	1.41	0.25	0.02	0.02	0.00
<b>82.5</b>	4.98	4.35	3.72	3.04	2.22	1.26	0.25	0.02	0.02	0.00
<b>85.0</b>	4.03	3.49	3.00	2.39	1.71	1.05	0.23	0.02	0.02	0.00
<b>87.5</b>	3.02	2.60	2.20	1.72	1.16	0.69	0.15	0.03	0.02	0.00
<b>90.0</b>	1.98	1.70	1.36	1.03	0.61	0.33	0.07	0.04	0.00	0.00
<b>92.5</b>	1.15	0.97	0.79	0.61	0.38	0.21	0.06	0.03	0.02	0.00
<b>95.0</b>	0.61	0.46	0.35	0.25	0.17	0.09	0.05	0.02	0.02	0.00
<b>97.5</b>	0.41	0.35	0.27	0.20	0.13	0.07	0.04	0.02	0.02	0.00
<b>100.0</b>	0.34	0.28	0.22	0.16	0.10	0.05	0.04	0.02	0.02	0.00
<b>102.5</b>	0.28	0.23	0.19	0.13	0.09	0.04	0.04	0.02	0.02	0.00
<b>105.0</b>	0.23	0.19	0.16	0.11	0.08	0.04	0.04	0.02	0.02	0.00
<b>107.5</b>	0.19	0.16	0.13	0.09	0.07	0.04	0.04	0.02	0.02	0.00
<b>110.0</b>	0.16	0.13	0.11	0.08	0.06	0.04	0.04	0.02	0.02	0.00
<b>112.5</b>	0.13	0.11	0.09	0.07	0.05	0.04	0.03	0.02	0.03	0.00
<b>115.0</b>	0.11	0.09	0.07	0.06	0.05	0.04	0.02	0.02	0.04	0.00
<b>117.5</b>	0.10	0.08	0.06	0.05	0.05	0.04	0.02	0.02	0.03	0.00
<b>120.0</b>	0.09	0.07	0.05	0.05	0.05	0.04	0.02	0.02	0.02	0.00
<b>122.5</b>	0.07	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.00
<b>125.0</b>	0.06	0.05	0.05	0.05	0.03	0.04	0.03	0.02	0.02	0.00
<b>127.5</b>	0.05	0.05	0.05	0.05	0.03	0.03	0.03	0.02	0.02	0.00
<b>130.0</b>	0.05	0.05	0.05	0.05	0.03	0.03	0.03	0.02	0.02	0.00
<b>132.5</b>	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.00
<b>135.0</b>	0.05	0.05	0.04	0.05	0.04	0.04	0.03	0.02	0.02	0.00
<b>137.5</b>	0.04	0.05	0.04	0.04	0.03	0.05	0.03	0.02	0.02	0.00
<b>140.0</b>	0.04	0.05	0.05	0.04	0.04	0.05	0.03	0.02	0.02	0.00
<b>142.5</b>	0.04	0.04	0.05	0.04	0.04	0.04	0.03	0.02	0.02	0.00
<b>145.0</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02	0.00
<b>147.5</b>	0.05	0.04	0.04	0.04	0.05	0.04	0.03	0.03	0.02	0.00
<b>150.0</b>	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.00
<b>152.5</b>	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.00
<b>155.0</b>	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.00
<b>157.5</b>	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.00
<b>160.0</b>	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.00
<b>162.5</b>	0.04	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00
<b>165.0</b>	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.00
<b>167.5</b>	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.00
<b>170.0</b>	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.00
<b>172.5</b>	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.00
<b>175.0</b>	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.00
<b>177.5</b>	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

<b>Angles</b>	<b><u>100</u></b>	<b><u>105</u></b>	<b><u>110</u></b>	<b><u>115</u></b>	<b><u>120</u></b>	<b><u>125</u></b>	<b><u>130</u></b>	<b><u>135</u></b>	<b><u>140</u></b>	<b><u>145</u></b>
<b>0.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>2.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>7.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>12.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>17.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>22.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES ROAD REPORT  
PHOTOMETRIC FILENAME : L061606101.IES

CANDELA TABULATION - (Cont.)

27.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061606101.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>172.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>177.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

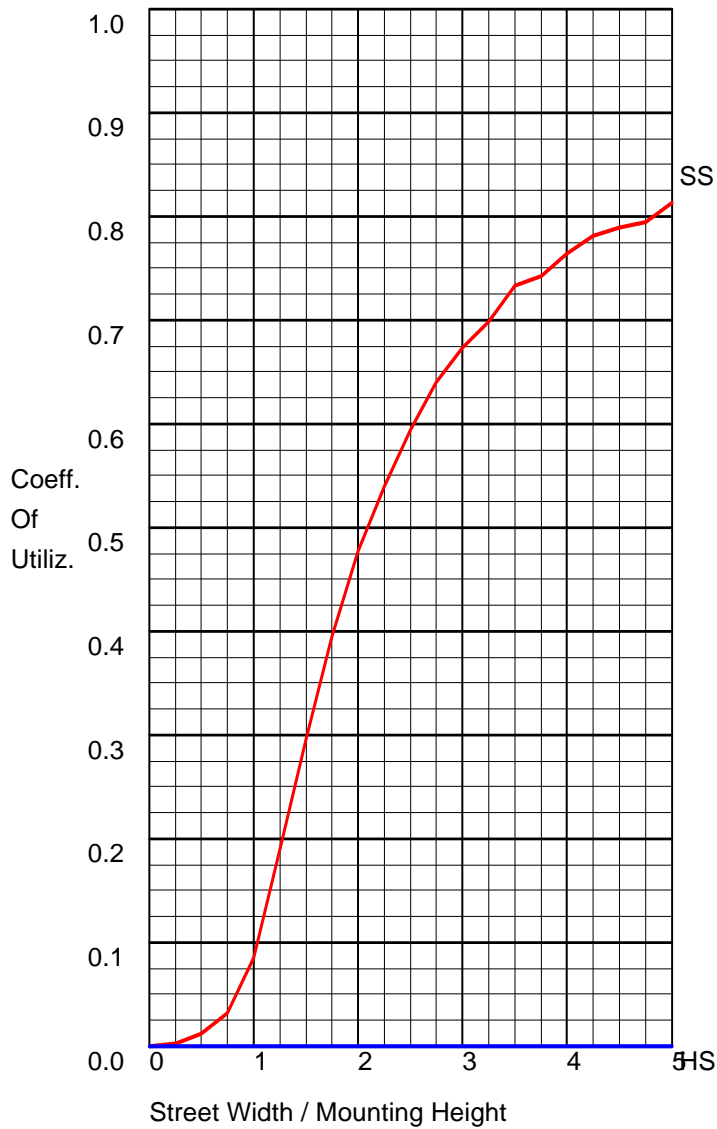
	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>2.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>7.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>12.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>17.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>22.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>27.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>32.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>37.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>42.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>47.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>52.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>57.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>62.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>67.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>72.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>77.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>92.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>97.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>102.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>107.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>112.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061606101.IES**

**CANDELA TABULATION - (Cont.)**

115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

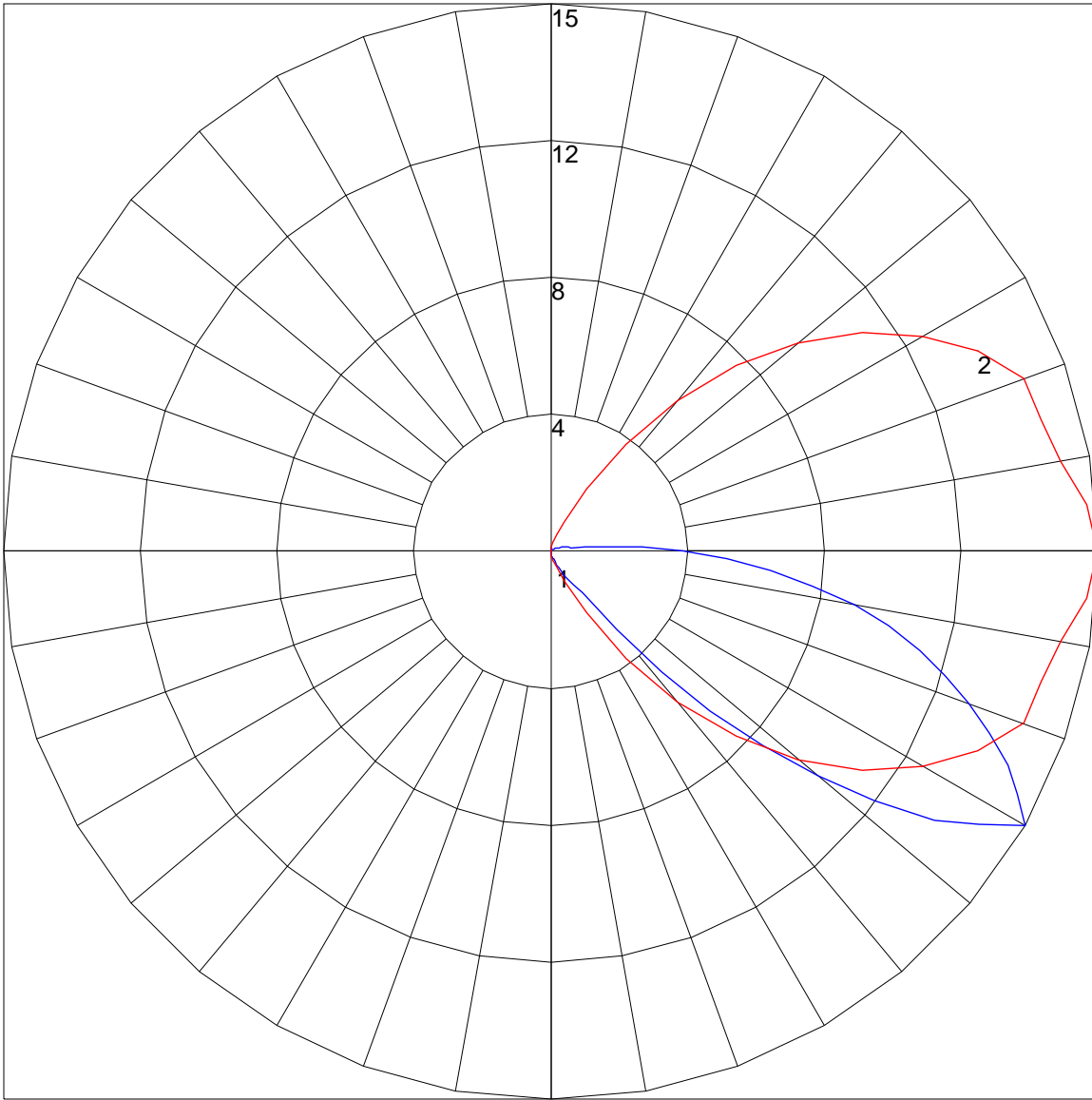
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

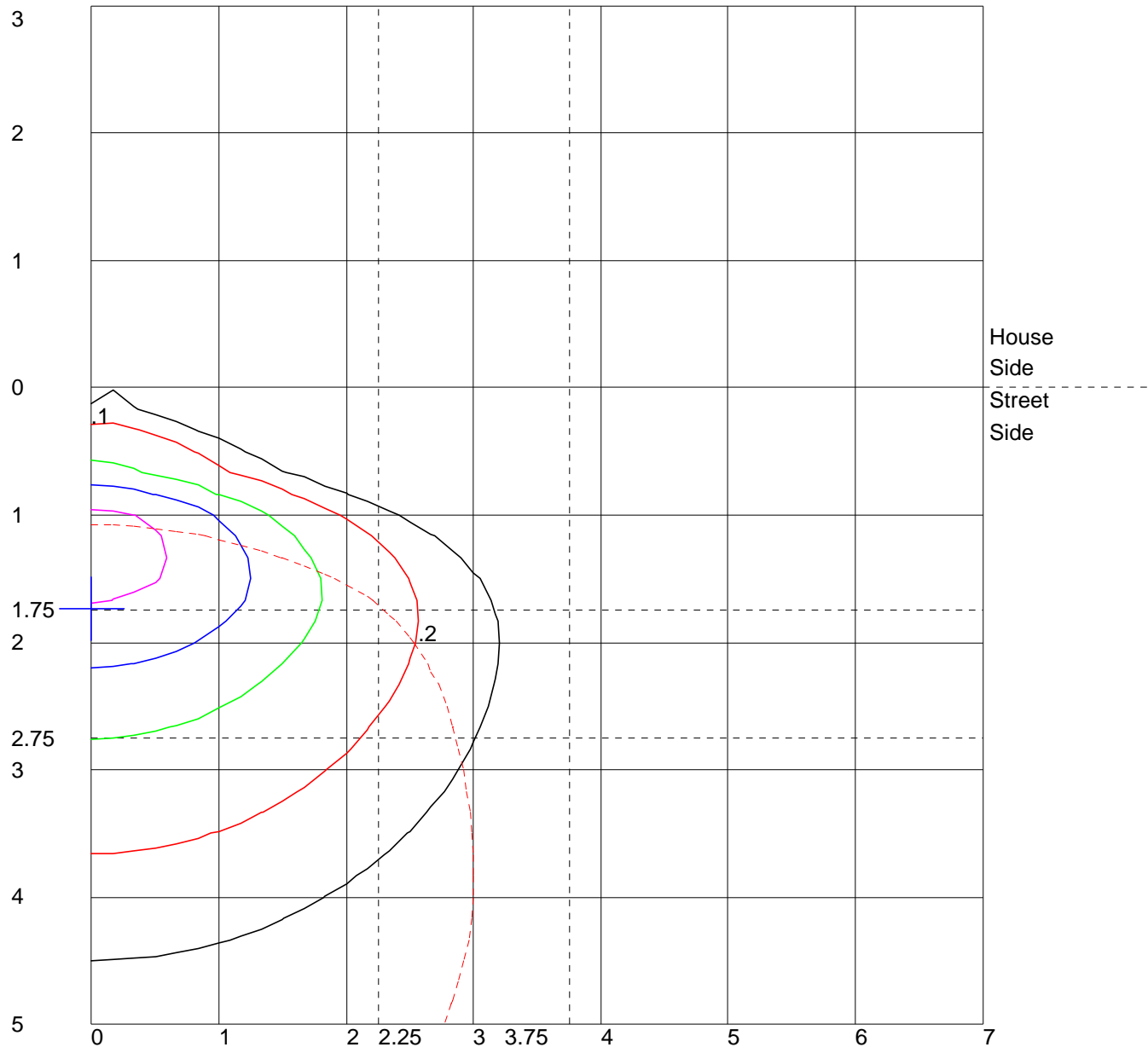
	Lumens	Percent Of Luminaire
Downward Street Side	13.2	94.5
Downward House Side	0.0	0.0
Downward Total	13.2	94.4
Upward Street Side	0.8	5.5
Upward House Side	0.0	0.0
Upward Total	0.8	5.7
Total Flux	14.0	100.1

POLAR GRAPH



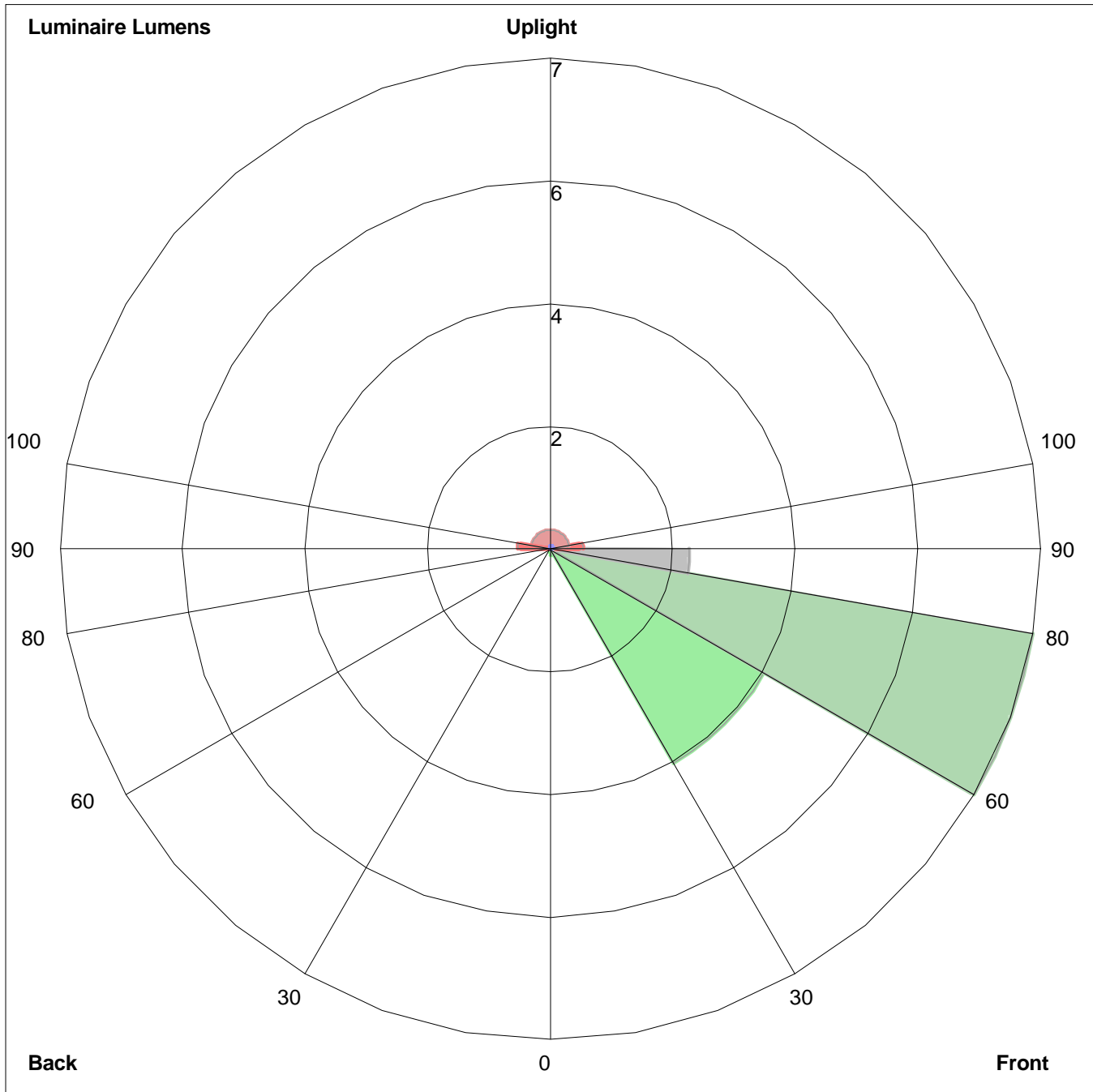
Maximum Candela = 15.48 Located At Horizontal Angle = 0, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height  
 Values Based On 1 Foot Mounting Height  
 1/2 Maximum Candela Trace Shown As Dashed Curve  
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=0.1, Medium=3.7, High=7.3, Very High=2.1  
Back: Low=0.0, Medium=0.0, High=0.0, Very High=0.0  
Uplight: Low=0.5, High=0.3

BUG Rating : B0-U1-G0