



8165 E Kaiser Blvd. Anaheim, CA 92808
 p. 714.282.2270
 f. 714.676.5558

Report No: L061606105

Date: 7/19/2016



NVLAP LAB CODE 200927-0

Report No: L061606105

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

Model Number: E3-RL-3W-FL

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 E3-RL-3W-FL . 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: 7/13/16 - 7/19/16

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

| | |
|--|--------------------|
| Manufacturer: | Beachside Lighting |
| Model Number: | E3-RL-3W-FL |
| Driver Model Number: | N/A |
| Total Lumens: | 9.80 |
| Input Voltage (VAC/60Hz): | 12.00 |
| Input Current (Amp): | 0.33 |
| Input Power (W): | 2.87 |
| Input Power Factor: | 0.72 |
| Current ATHD @ 12V(%): | 83% |
| Current ATHD @ 277V(%): | N/A |
| Efficacy: | 3 |
| Color Rendering Index (CRI): | 83 |
| Correlated Color Temperature (K): | 3041 |
| Chromaticity Coordinate x: | 0.4347 |
| Chromaticity Coordinate y: | 0.4045 |
| Ambient Temperature (°C): | 25.0 |
| Stabilization Time (Hours): | 0:35 |
| Total Operating Time (Hours): | 1:20 |
| Off State Power(W): | 0.00 |

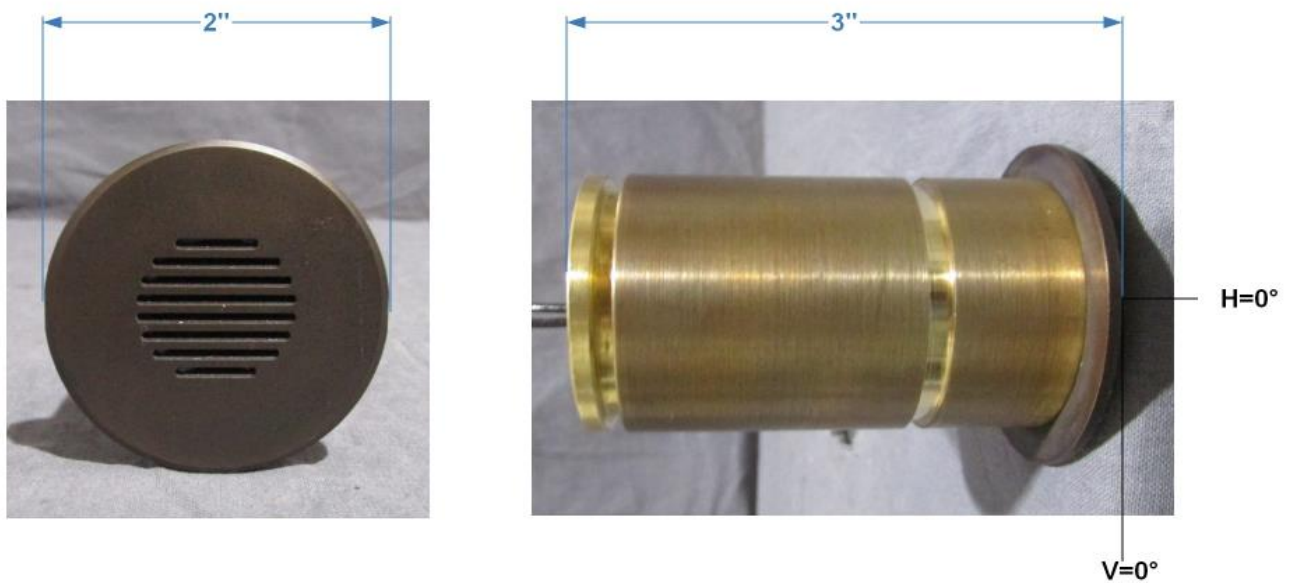
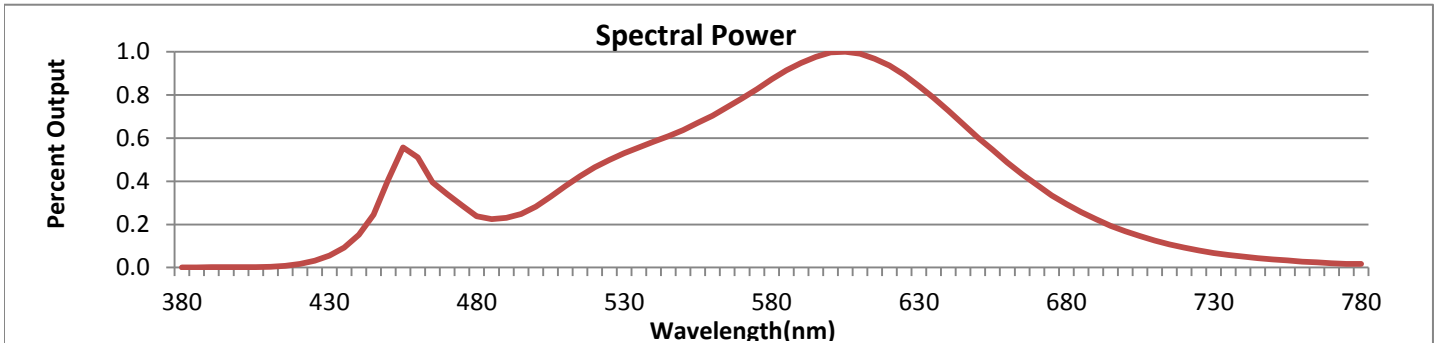


FIG. 1 LUMINAIRE

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



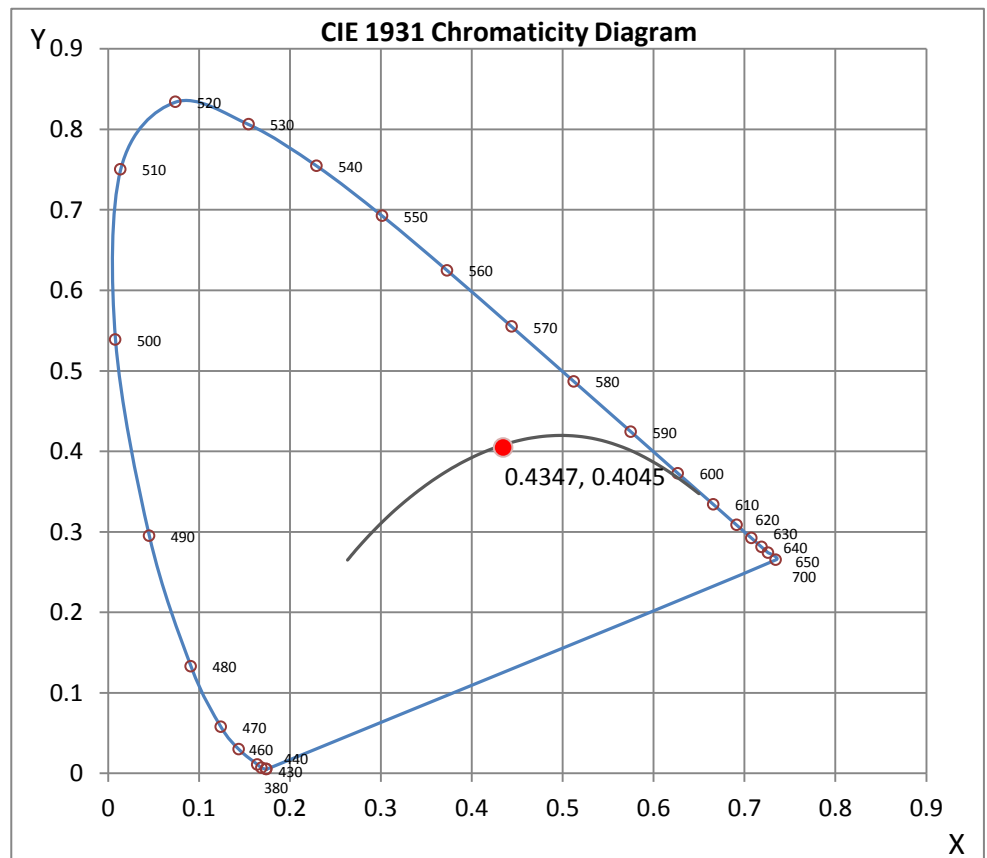
| Wavelength | W/m ² nm | 440 | 0.1522 | 510 | 0.3769 | 580 | 0.8724 | 650 | 0.6031 | 720 | 0.0926 |
|------------|---------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 380 | 0.0000 | 450 | 0.4081 | 520 | 0.4652 | 590 | 0.9488 | 660 | 0.4868 | 730 | 0.0680 |
| 390 | 0.0020 | 460 | 0.5111 | 530 | 0.5307 | 600 | 0.9972 | 670 | 0.3841 | 740 | 0.0505 |
| 400 | 0.0013 | 470 | 0.3402 | 540 | 0.5840 | 610 | 0.9923 | 680 | 0.2943 | 750 | 0.0376 |
| 410 | 0.0041 | 480 | 0.2374 | 550 | 0.6374 | 620 | 0.9375 | 690 | 0.2239 | 760 | 0.0276 |
| 420 | 0.0166 | 490 | 0.2303 | 560 | 0.7033 | 630 | 0.8422 | 700 | 0.1679 | 770 | 0.0202 |
| 430 | 0.0551 | 500 | 0.2825 | 570 | 0.7845 | 640 | 0.7278 | 710 | 0.1245 | 780 | 0.0174 |

CRI & CCT

| | |
|-----|---------|
| x | 0.4347 |
| y | 0.4045 |
| u' | 0.2489 |
| v' | 0.5212 |
| CRI | 83.00 |
| CCT | 3041 |
| Duv | 0.00048 |

R Values

| | |
|-----|-------|
| R1 | 81.78 |
| R2 | 91.64 |
| R3 | 96.72 |
| R4 | 79.73 |
| R5 | 80.89 |
| R6 | 88.93 |
| R7 | 83.51 |
| R8 | 60.94 |
| R9 | 11.82 |
| R10 | 79.40 |
| R11 | 77.71 |
| R12 | 67.00 |
| R13 | 84.25 |
| R14 | 98.74 |



*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 : L061606105.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L061606105
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 7/18/2016
 [MANUFAC] BEACHSIDE LIGHTING
 [LUMCAT] E3-RL-3W-FL
 [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] 12VAC, 2.87W
 [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 | 10 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 3 |
| Total Luminaire Watts | 2.87 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.02 |
| Maximum Candela | 21.428 |
| Maximum Candela Angle | 0H 75V |
| Maximum Candela (<90 Degrees Vertical) | 21.428 |
| Maximum Candela Angle (<90 Degrees Vertical) | 0H 75V |
| Maximum Candela At 90 Degrees Vertical | .539 (5.4% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 18.54 (185.4% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

IES ROAD REPORT
PHOTOMETRIC FILENAME : L061606105.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

ZONAL LUMEN SUMMARY

| | Lumens | % Lamp | % Luminaire | Zone | % |
|-------------------------------|----------|--------|-------------|---------|------|
| FL - Front-Low (0-30) | 0.1 | N.A. | 0.6 | | |
| FM - Front-Medium (30-60) | 2.1 | N.A. | 21.1 | 0-20 | 0.2 |
| FH - Front-High (60-80) | 5.9 | N.A. | 60.6 | 0-30 | 0.6 |
| FVH - Front-Very High (80-90) | 1.5 | N.A. | 15.5 | 0-40 | 2 |
| BL - Back-Low (0-30) | 0.0 | N.A. | 0.0 | 0-60 | 21.8 |
| BM - Back-Medium (30-60) | 0.0 | N.A. | 0.0 | 0-80 | 82.6 |
| BH - Back-High (60-80) | 0.0 | N.A. | 0.0 | 0-90 | 98.2 |
| BVH - Back-Very High (80-90) | 0.0 | N.A. | 0.0 | 10-90 | 98.2 |
| UL - Uplight-Low (90-100) | 0.1 | N.A. | 0.9 | 20-40 | 1.8 |
| UH - Uplight-High (100-180) | 0.1 | N.A. | 0.9 | 20-50 | 6.8 |
| | | | | 40-70 | 48.2 |
| Total | 9.8 | N.A. | 100.0 | 60-80 | 60.9 |
| | | | | 70-80 | 32.4 |
| BUG Rating | B0-U1-G0 | | | 80-90 | 15.6 |
| | | | | 90-110 | 1.3 |
| | | | | 90-120 | 1.5 |
| | | | | 90-130 | 1.7 |
| | | | | 90-150 | 1.8 |
| | | | | 90-180 | 1.8 |
| | | | | 110-180 | 0.5 |
| | | | | 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> |
| 0.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2.5 | 0.018 | 0.017 | 0.017 | 0.017 | 0.016 | 0.016 | 0.015 | 0.014 | 0.013 | 0.012 |
| 5.0 | 0.035 | 0.035 | 0.035 | 0.034 | 0.033 | 0.032 | 0.030 | 0.029 | 0.027 | 0.025 |
| 7.5 | 0.070 | 0.069 | 0.068 | 0.066 | 0.063 | 0.060 | 0.056 | 0.051 | 0.045 | 0.039 |
| 10.0 | 0.104 | 0.104 | 0.102 | 0.099 | 0.096 | 0.091 | 0.085 | 0.079 | 0.072 | 0.063 |
| 12.5 | 0.139 | 0.136 | 0.133 | 0.128 | 0.123 | 0.118 | 0.113 | 0.106 | 0.098 | 0.087 |
| 15.0 | 0.174 | 0.169 | 0.162 | 0.155 | 0.147 | 0.142 | 0.135 | 0.128 | 0.119 | 0.105 |
| 17.5 | 0.192 | 0.188 | 0.184 | 0.177 | 0.172 | 0.165 | 0.158 | 0.148 | 0.132 | 0.114 |
| 20.0 | 0.209 | 0.209 | 0.206 | 0.202 | 0.196 | 0.189 | 0.180 | 0.165 | 0.148 | 0.128 |
| 22.5 | 0.279 | 0.276 | 0.268 | 0.256 | 0.239 | 0.217 | 0.202 | 0.187 | 0.168 | 0.149 |
| 25.0 | 0.348 | 0.345 | 0.337 | 0.323 | 0.304 | 0.279 | 0.250 | 0.216 | 0.193 | 0.172 |
| 27.5 | 0.470 | 0.464 | 0.447 | 0.415 | 0.378 | 0.341 | 0.308 | 0.271 | 0.229 | 0.196 |
| 30.0 | 0.591 | 0.585 | 0.562 | 0.518 | 0.474 | 0.429 | 0.376 | 0.325 | 0.278 | 0.227 |
| 32.5 | 0.800 | 0.788 | 0.748 | 0.675 | 0.586 | 0.521 | 0.462 | 0.394 | 0.322 | 0.267 |
| 35.0 | 1.009 | 0.996 | 0.957 | 0.886 | 0.793 | 0.676 | 0.548 | 0.472 | 0.381 | 0.299 |
| 37.5 | 1.427 | 1.405 | 1.322 | 1.186 | 0.999 | 0.872 | 0.722 | 0.557 | 0.455 | 0.342 |
| 40.0 | 1.844 | 1.827 | 1.737 | 1.606 | 1.410 | 1.129 | 0.910 | 0.725 | 0.533 | 0.416 |
| 42.5 | 2.592 | 2.540 | 2.375 | 2.125 | 1.836 | 1.553 | 1.195 | 0.909 | 0.680 | 0.503 |
| 45.0 | 3.339 | 3.275 | 3.112 | 2.827 | 2.450 | 2.007 | 1.638 | 1.151 | 0.885 | 0.593 |
| 47.5 | 4.453 | 4.360 | 4.095 | 3.601 | 3.142 | 2.665 | 2.103 | 1.611 | 1.112 | 0.804 |
| 50.0 | 5.566 | 5.482 | 5.223 | 4.739 | 4.052 | 3.350 | 2.731 | 2.078 | 1.507 | 1.058 |
| 52.5 | 7.497 | 7.326 | 6.797 | 5.903 | 5.201 | 4.256 | 3.411 | 2.624 | 1.973 | 1.371 |
| 55.0 | 9.427 | 9.251 | 8.705 | 7.759 | 6.462 | 5.391 | 4.149 | 3.295 | 2.457 | 1.749 |
| 57.5 | 11.792 | 11.467 | 10.651 | 9.588 | 8.076 | 6.537 | 5.218 | 3.992 | 2.972 | 2.202 |
| 60.0 | 14.157 | 13.696 | 12.520 | 11.128 | 9.488 | 7.664 | 6.194 | 4.711 | 3.595 | 2.654 |
| 62.5 | 15.862 | 15.393 | 14.131 | 12.360 | 10.416 | 8.465 | 6.875 | 5.335 | 4.136 | 3.114 |
| 65.0 | 17.532 | 16.994 | 15.467 | 13.368 | 11.104 | 8.904 | 7.143 | 5.648 | 4.454 | 3.468 |
| 67.5 | 19.132 | 18.436 | 16.656 | 14.220 | 11.613 | 9.216 | 7.204 | 5.640 | 4.451 | 3.617 |
| 70.0 | 20.488 | 19.668 | 17.611 | 14.814 | 11.917 | 9.285 | 7.085 | 5.454 | 4.269 | 3.437 |
| 72.5 | 21.323 | 20.404 | 18.209 | 15.104 | 11.948 | 9.123 | 6.860 | 5.202 | 4.000 | 3.186 |
| 75.0 | 21.428 | 20.426 | 18.075 | 14.865 | 11.603 | 8.749 | 6.500 | 4.844 | 3.676 | 2.905 |
| 77.5 | 20.593 | 19.535 | 17.175 | 14.038 | 10.814 | 8.020 | 5.908 | 4.327 | 3.263 | 2.513 |
| 80.0 | 18.540 | 17.535 | 15.361 | 12.445 | 9.513 | 6.991 | 5.043 | 3.672 | 2.731 | 2.072 |
| 82.5 | 14.992 | 14.294 | 12.658 | 10.150 | 7.685 | 5.598 | 3.999 | 2.895 | 2.130 | 1.620 |
| 85.0 | 10.366 | 9.965 | 8.831 | 7.111 | 5.379 | 3.895 | 2.793 | 2.008 | 1.491 | 1.138 |
| 87.5 | 5.436 | 4.832 | 4.321 | 3.530 | 2.672 | 1.945 | 1.494 | 1.094 | 0.867 | 0.684 |
| 90.0 | 0.505 | 0.504 | 0.522 | 0.539 | 0.539 | 0.452 | 0.417 | 0.383 | 0.313 | 0.278 |
| 92.5 | 0.392 | 0.305 | 0.297 | 0.280 | 0.262 | 0.237 | 0.209 | 0.216 | 0.192 | 0.180 |
| 95.0 | 0.278 | 0.270 | 0.258 | 0.238 | 0.225 | 0.208 | 0.206 | 0.176 | 0.146 | 0.131 |
| 97.5 | 0.243 | 0.235 | 0.236 | 0.215 | 0.198 | 0.189 | 0.170 | 0.150 | 0.132 | 0.118 |
| 100.0 | 0.209 | 0.203 | 0.196 | 0.190 | 0.176 | 0.158 | 0.142 | 0.133 | 0.117 | 0.105 |
| 102.5 | 0.174 | 0.171 | 0.165 | 0.171 | 0.148 | 0.138 | 0.127 | 0.119 | 0.102 | 0.089 |
| 105.0 | 0.139 | 0.146 | 0.136 | 0.138 | 0.129 | 0.121 | 0.113 | 0.095 | 0.087 | 0.072 |
| 107.5 | 0.139 | 0.130 | 0.122 | 0.119 | 0.108 | 0.103 | 0.099 | 0.082 | 0.073 | 0.062 |
| 110.0 | 0.104 | 0.104 | 0.106 | 0.105 | 0.097 | 0.094 | 0.085 | 0.072 | 0.057 | 0.055 |
| 112.5 | 0.104 | 0.103 | 0.090 | 0.092 | 0.075 | 0.073 | 0.081 | 0.067 | 0.052 | 0.052 |
| 115.0 | 0.070 | 0.096 | 0.075 | 0.076 | 0.079 | 0.070 | 0.072 | 0.063 | 0.051 | 0.052 |
| 117.5 | 0.070 | 0.070 | 0.070 | 0.067 | 0.073 | 0.065 | 0.066 | 0.053 | 0.046 | 0.045 |
| 120.0 | 0.070 | 0.068 | 0.065 | 0.058 | 0.068 | 0.058 | 0.050 | 0.036 | 0.038 | 0.036 |
| 122.5 | 0.070 | 0.054 | 0.056 | 0.052 | 0.058 | 0.052 | 0.045 | 0.035 | 0.035 | 0.030 |
| 125.0 | 0.070 | 0.044 | 0.045 | 0.052 | 0.052 | 0.047 | 0.050 | 0.035 | 0.031 | 0.019 |
| 127.5 | 0.053 | 0.040 | 0.038 | 0.047 | 0.046 | 0.038 | 0.039 | 0.026 | 0.026 | 0.017 |
| 130.0 | 0.035 | 0.035 | 0.035 | 0.039 | 0.039 | 0.035 | 0.034 | 0.022 | 0.026 | 0.017 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : L061606105.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 132.5 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.034 | 0.026 | 0.033 | 0.019 |
| 135.0 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.027 | 0.018 | 0.023 | 0.017 |
| 137.5 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.033 | 0.021 | 0.015 | 0.017 | 0.017 |
| 140.0 | 0.035 | 0.034 | 0.034 | 0.035 | 0.035 | 0.035 | 0.023 | 0.008 | 0.012 | 0.017 |
| 142.5 | 0.035 | 0.028 | 0.030 | 0.035 | 0.035 | 0.033 | 0.029 | 0.009 | 0.010 | 0.016 |
| 145.0 | 0.035 | 0.022 | 0.022 | 0.026 | 0.024 | 0.026 | 0.032 | 0.020 | 0.015 | 0.016 |
| 147.5 | 0.018 | 0.017 | 0.016 | 0.010 | 0.010 | 0.020 | 0.026 | 0.021 | 0.017 | 0.017 |
| 150.0 | 0.000 | 0.010 | 0.015 | 0.005 | 0.006 | 0.021 | 0.030 | 0.022 | 0.017 | 0.017 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2.5 | 0.011 | 0.010 | 0.009 | 0.007 | 0.006 | 0.005 | 0.003 | 0.002 | 0.000 | 0.000 |
| 5.0 | 0.022 | 0.020 | 0.017 | 0.015 | 0.012 | 0.009 | 0.006 | 0.003 | 0.000 | 0.000 |
| 7.5 | 0.034 | 0.030 | 0.026 | 0.022 | 0.018 | 0.014 | 0.009 | 0.005 | 0.000 | 0.000 |
| 10.0 | 0.054 | 0.045 | 0.035 | 0.029 | 0.024 | 0.018 | 0.012 | 0.006 | 0.000 | 0.000 |
| 12.5 | 0.076 | 0.064 | 0.050 | 0.038 | 0.030 | 0.022 | 0.015 | 0.008 | 0.000 | 0.000 |
| 15.0 | 0.088 | 0.072 | 0.058 | 0.046 | 0.036 | 0.027 | 0.018 | 0.009 | 0.000 | 0.000 |
| 17.5 | 0.094 | 0.074 | 0.061 | 0.051 | 0.041 | 0.031 | 0.021 | 0.011 | 0.000 | 0.000 |
| 20.0 | 0.107 | 0.088 | 0.069 | 0.058 | 0.047 | 0.036 | 0.024 | 0.012 | 0.000 | 0.000 |
| 22.5 | 0.129 | 0.107 | 0.084 | 0.065 | 0.053 | 0.040 | 0.027 | 0.013 | 0.000 | 0.000 |
| 25.0 | 0.150 | 0.123 | 0.097 | 0.073 | 0.058 | 0.044 | 0.029 | 0.015 | 0.000 | 0.000 |
| 27.5 | 0.167 | 0.134 | 0.107 | 0.083 | 0.067 | 0.050 | 0.033 | 0.021 | 0.000 | 0.000 |
| 30.0 | 0.188 | 0.150 | 0.112 | 0.094 | 0.080 | 0.059 | 0.035 | 0.026 | 0.000 | 0.000 |
| 32.5 | 0.210 | 0.164 | 0.118 | 0.098 | 0.087 | 0.063 | 0.038 | 0.023 | 0.000 | 0.000 |
| 35.0 | 0.237 | 0.178 | 0.136 | 0.106 | 0.086 | 0.062 | 0.040 | 0.020 | 0.000 | 0.000 |
| 37.5 | 0.266 | 0.202 | 0.157 | 0.121 | 0.091 | 0.063 | 0.042 | 0.021 | 0.000 | 0.000 |
| 40.0 | 0.307 | 0.236 | 0.174 | 0.133 | 0.098 | 0.067 | 0.045 | 0.022 | 0.000 | 0.000 |
| 42.5 | 0.369 | 0.269 | 0.187 | 0.144 | 0.103 | 0.071 | 0.047 | 0.026 | 0.000 | 0.000 |
| 45.0 | 0.443 | 0.300 | 0.211 | 0.151 | 0.102 | 0.074 | 0.049 | 0.030 | 0.000 | 0.000 |
| 47.5 | 0.524 | 0.344 | 0.244 | 0.159 | 0.104 | 0.078 | 0.051 | 0.030 | 0.000 | 0.000 |
| 50.0 | 0.628 | 0.430 | 0.280 | 0.173 | 0.119 | 0.084 | 0.054 | 0.031 | 0.000 | 0.000 |
| 52.5 | 0.820 | 0.543 | 0.317 | 0.185 | 0.133 | 0.089 | 0.055 | 0.031 | 0.000 | 0.000 |
| 55.0 | 1.160 | 0.703 | 0.374 | 0.219 | 0.145 | 0.093 | 0.057 | 0.032 | 0.000 | 0.000 |
| 57.5 | 1.505 | 0.930 | 0.472 | 0.274 | 0.161 | 0.094 | 0.054 | 0.032 | 0.000 | 0.000 |
| 60.0 | 1.869 | 1.193 | 0.671 | 0.358 | 0.179 | 0.095 | 0.048 | 0.033 | 0.000 | 0.000 |
| 62.5 | 2.232 | 1.520 | 0.921 | 0.470 | 0.214 | 0.108 | 0.054 | 0.033 | 0.000 | 0.000 |
| 65.0 | 2.600 | 1.846 | 1.185 | 0.641 | 0.278 | 0.127 | 0.062 | 0.033 | 0.000 | 0.000 |
| 67.5 | 2.808 | 2.110 | 1.453 | 0.832 | 0.378 | 0.157 | 0.072 | 0.041 | 0.000 | 0.000 |
| 70.0 | 2.829 | 2.252 | 1.649 | 1.060 | 0.522 | 0.193 | 0.082 | 0.050 | 0.000 | 0.000 |
| 72.5 | 2.637 | 2.198 | 1.796 | 1.241 | 0.672 | 0.265 | 0.090 | 0.042 | 0.000 | 0.000 |
| 75.0 | 2.377 | 1.996 | 1.664 | 1.300 | 0.820 | 0.353 | 0.099 | 0.034 | 0.000 | 0.000 |
| 77.5 | 2.035 | 1.720 | 1.476 | 1.235 | 0.857 | 0.420 | 0.116 | 0.035 | 0.000 | 0.000 |

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 80.0 | 1.680 | 1.414 | 1.211 | 1.029 | 0.825 | 0.480 | 0.135 | 0.035 | 0.000 | 0.000 |
| 82.5 | 1.313 | 1.092 | 0.931 | 0.801 | 0.671 | 0.419 | 0.139 | 0.035 | 0.000 | 0.000 |
| 85.0 | 0.916 | 0.749 | 0.636 | 0.565 | 0.476 | 0.336 | 0.139 | 0.035 | 0.000 | 0.000 |
| 87.5 | 0.561 | 0.470 | 0.402 | 0.350 | 0.306 | 0.230 | 0.096 | 0.026 | 0.000 | 0.000 |
| 90.0 | 0.243 | 0.226 | 0.191 | 0.139 | 0.139 | 0.122 | 0.052 | 0.017 | 0.000 | 0.000 |
| 92.5 | 0.164 | 0.152 | 0.131 | 0.101 | 0.093 | 0.077 | 0.034 | 0.017 | 0.000 | 0.000 |
| 95.0 | 0.116 | 0.100 | 0.084 | 0.068 | 0.051 | 0.034 | 0.017 | 0.017 | 0.000 | 0.000 |
| 97.5 | 0.104 | 0.089 | 0.074 | 0.057 | 0.041 | 0.025 | 0.017 | 0.017 | 0.000 | 0.000 |
| 100.0 | 0.091 | 0.078 | 0.063 | 0.047 | 0.032 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 102.5 | 0.076 | 0.066 | 0.052 | 0.037 | 0.023 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 105.0 | 0.056 | 0.057 | 0.048 | 0.032 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 107.5 | 0.048 | 0.048 | 0.047 | 0.031 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 110.0 | 0.043 | 0.039 | 0.036 | 0.025 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 112.5 | 0.048 | 0.034 | 0.025 | 0.018 | 0.017 | 0.017 | 0.016 | 0.009 | 0.000 | 0.000 |
| 115.0 | 0.048 | 0.027 | 0.019 | 0.017 | 0.017 | 0.017 | 0.014 | 0.002 | 0.000 | 0.000 |
| 117.5 | 0.037 | 0.020 | 0.017 | 0.017 | 0.017 | 0.017 | 0.015 | 0.010 | 0.000 | 0.000 |
| 120.0 | 0.031 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 122.5 | 0.027 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 125.0 | 0.020 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 127.5 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 130.0 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 132.5 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.000 | 0.000 |
| 135.0 | 0.017 | 0.017 | 0.017 | 0.017 | 0.016 | 0.014 | 0.016 | 0.017 | 0.000 | 0.000 |
| 137.5 | 0.017 | 0.017 | 0.017 | 0.017 | 0.012 | 0.005 | 0.014 | 0.017 | 0.000 | 0.000 |
| 140.0 | 0.016 | 0.016 | 0.017 | 0.017 | 0.012 | 0.004 | 0.012 | 0.017 | 0.000 | 0.000 |
| 142.5 | 0.011 | 0.008 | 0.014 | 0.017 | 0.015 | 0.011 | 0.008 | 0.012 | 0.000 | 0.000 |
| 145.0 | 0.010 | 0.003 | 0.013 | 0.017 | 0.017 | 0.013 | 0.004 | 0.007 | 0.000 | 0.000 |
| 147.5 | 0.014 | 0.012 | 0.015 | 0.017 | 0.017 | 0.015 | 0.010 | 0.013 | 0.000 | 0.000 |
| 150.0 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.016 | 0.016 | 0.017 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 5.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 7.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 17.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 22.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : L061606105.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 27.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 32.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 42.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 47.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 52.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 55.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 57.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 62.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 67.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 72.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 77.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 82.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Horizontal Angles
Angles

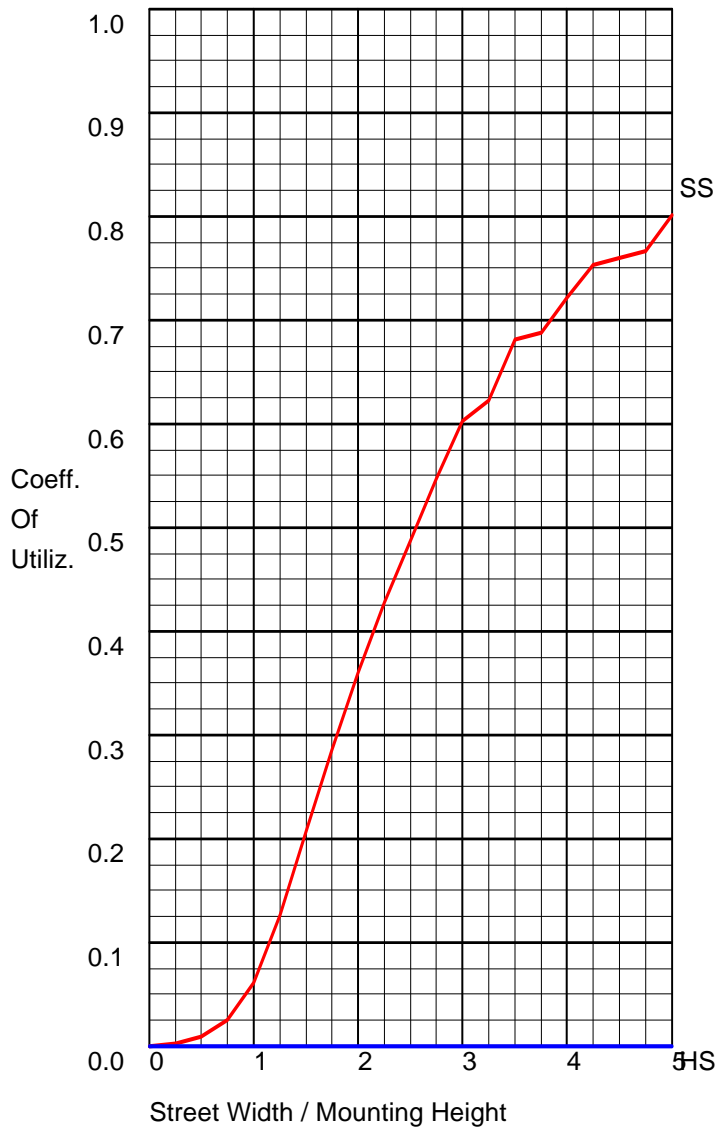
| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
|-------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 5.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 7.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 12.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 17.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 22.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 27.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 32.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 42.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 47.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 52.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 55.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 57.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 62.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 67.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 72.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 77.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 82.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 87.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : L061606105.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

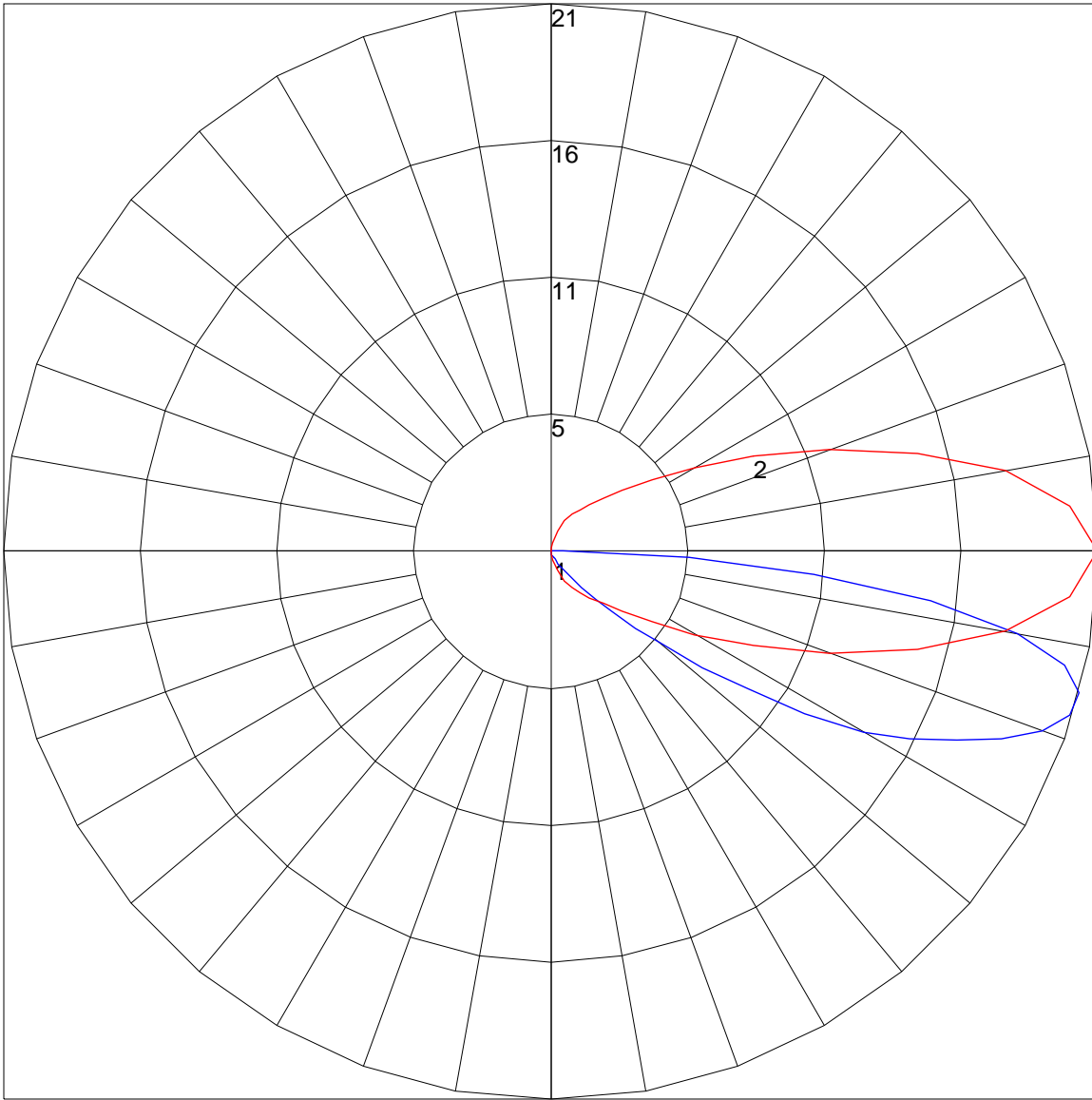
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

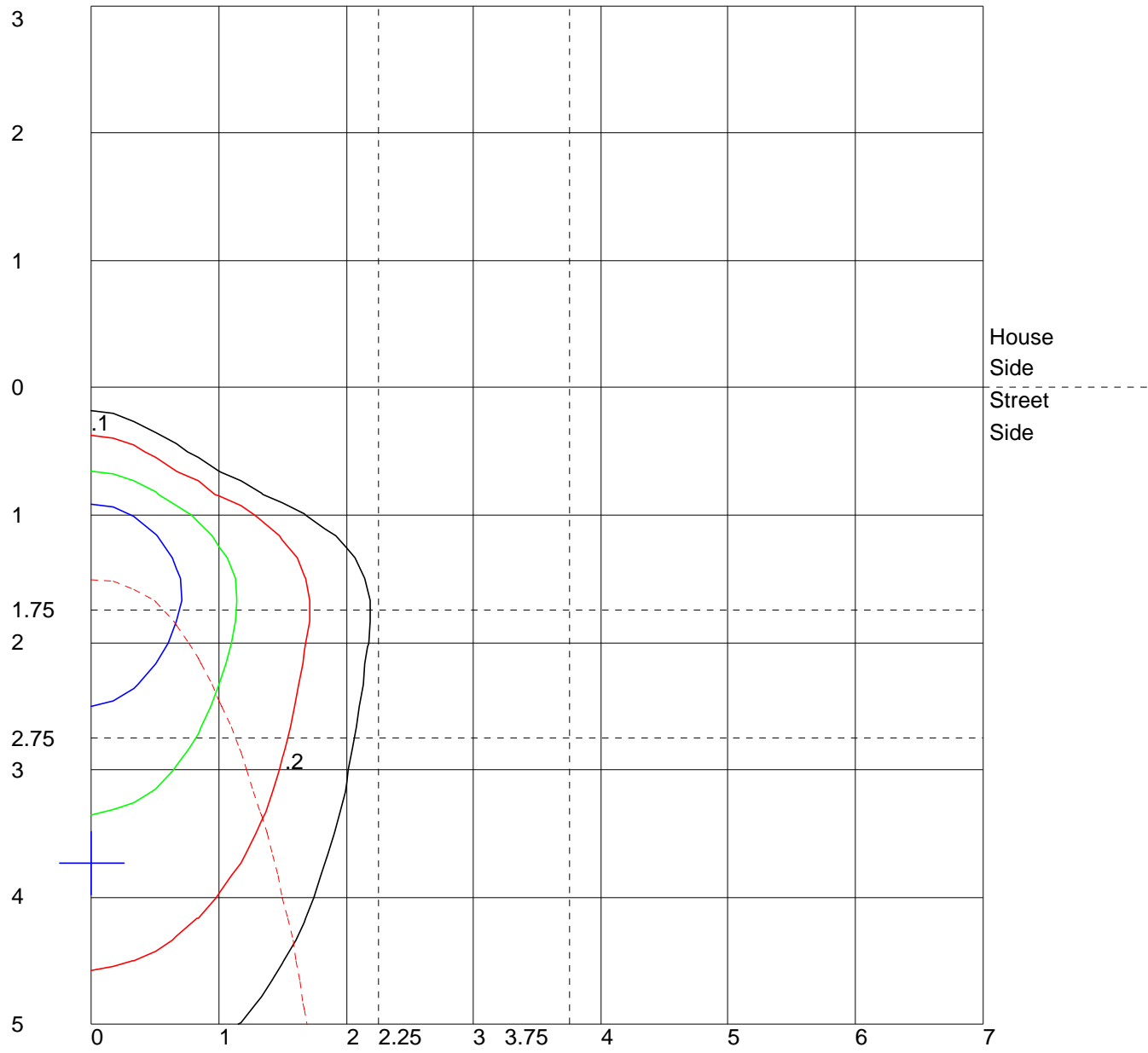
| | Lumens | Percent Of Luminaire |
|----------------------|--------|----------------------|
| Downward Street Side | 9.6 | 98.2 |
| Downward House Side | 0.0 | 0.0 |
| Downward Total | 9.6 | 98.4 |
| Upward Street Side | 0.2 | 1.8 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.2 | 2.0 |
| Total Flux | 9.8 | 100.4 |

POLAR GRAPH



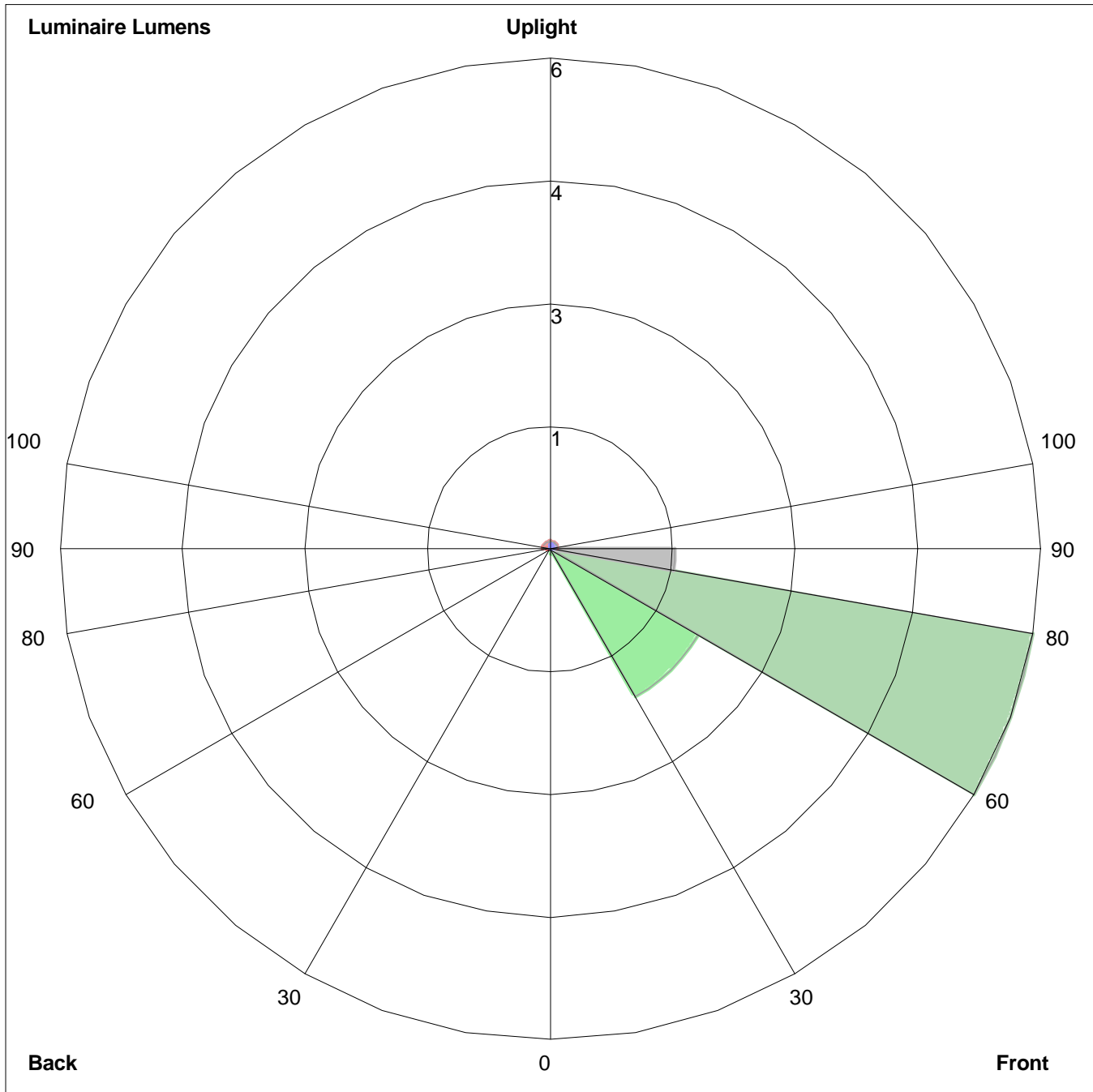
Maximum Candela = 21.428 Located At Horizontal Angle = 0, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)

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=2.1, High=5.9, Very High=1.5
Back: Low=0.0, Medium=0.0, High=0.0, Very High=0.0
Uplight: Low=0.1, High=0.1

BUG Rating : B0-U1-G0