



8165 E. Kaiser Blvd. Anaheim, CA 92808
 www.lightlaboratory.com

Photometric Test Report

IES ROAD REPORT
PHOTOMETRIC FILENAME : L061805908.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L061805908
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 7/6/2018
 [MANUFAC] USTE, dba Vista Professional Outdoor Lighting
 [LUMCAT] 1505-AB-30
 [LUMINAIRE] Steplight, border door, clear lens, 9 LED
 [BALLASTCAT] THOMAS RESEARCH PRODUCTS LED20W-36-C0550
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 17.34W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---|---------------------------------|
| IES Classification | Type III |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 740 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 43 |
| Total Luminaire Watts | 17.34 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.16 |
| Maximum Candela | 647.45 |
| Maximum Candela Angle | 0H 60V |
| Maximum Candela (<90 Degrees Vertical) | 647.45 |
| Maximum Candela Angle (<90 Degrees Vertical) | 0H 60V |
| Maximum Candela At 90 Degrees Vertical | 207.84 (28.1% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 254.16 (34.3% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|-----------------|-------------|--------------|
| FL - Front-Low (0-30) | 3.1 | N.A. | 0.4 |
| FM - Front-Medium (30-60) | 320.0 | N.A. | 43.2 |
| FH - Front-High (60-80) | 238.4 | N.A. | 32.2 |
| FVH - Front-Very High (80-90) | 63.6 | N.A. | 8.6 |
| BL - Back-Low (0-30) | < 0.05 | N.A. | 0.0 |
| BM - Back-Medium (30-60) | 0.0 | N.A. | 0.0 |
| BH - Back-High (60-80) | 0.0 | N.A. | 0.0 |
| BVH - Back-Very High (80-90) | 0.0 | N.A. | 0.0 |
| UL - Uplight-Low (90-100) | 46.4 | N.A. | 6.3 |
| UH - Uplight-High (100-180) | 68.9 | N.A. | 9.3 |
| Total | 740.4 | N.A. | 100.0 |
| BUG Rating | B0-U3-G1 | | |

ZONAL LUMEN SUMMARY

| Zone | % |
|---------|------|
| 0-20 | 0 |
| 0-30 | 0.4 |
| 0-40 | 7.9 |
| 0-60 | 43.6 |
| 0-80 | 75.8 |
| 0-90 | 84.4 |
| 10-90 | 84.4 |
| 20-40 | 7.8 |
| 20-50 | 22.7 |
| 40-70 | 56 |
| 60-80 | 32.2 |
| 70-80 | 12 |
| 80-90 | 8.6 |
| 90-110 | 10.2 |
| 90-120 | 12.4 |
| 90-130 | 13.8 |
| 90-150 | 15.2 |
| 90-180 | 15.6 |
| 110-180 | 5.4 |
| 0-180 | 100 |

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 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 |
| 2.5 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 | 1.16 |
| 5.0 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| 7.5 | 1.25 | 1.24 | 1.24 | 1.24 | 1.23 | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 |
| 10.0 | 1.31 | 1.31 | 1.30 | 1.30 | 1.29 | 1.28 | 1.27 | 1.26 | 1.25 | 1.24 |
| 12.5 | 1.45 | 1.46 | 1.46 | 1.45 | 1.43 | 1.40 | 1.36 | 1.32 | 1.30 | 1.29 |
| 15.0 | 1.73 | 1.73 | 1.70 | 1.68 | 1.64 | 1.60 | 1.54 | 1.48 | 1.42 | 1.36 |
| 17.5 | 2.07 | 2.08 | 2.05 | 2.00 | 1.94 | 1.86 | 1.77 | 1.69 | 1.60 | 1.50 |
| 20.0 | 2.90 | 2.90 | 2.80 | 2.67 | 2.50 | 2.28 | 2.07 | 1.95 | 1.81 | 1.69 |
| 22.5 | 4.74 | 4.72 | 4.44 | 4.11 | 3.67 | 3.11 | 2.72 | 2.38 | 2.07 | 1.91 |
| 25.0 | 7.40 | 7.30 | 6.99 | 6.50 | 5.75 | 4.73 | 4.00 | 3.16 | 2.64 | 2.18 |
| 27.5 | 11.82 | 13.44 | 14.07 | 12.67 | 10.33 | 7.55 | 6.17 | 4.72 | 3.67 | 2.81 |
| 30.0 | 333.94 | 325.82 | 287.45 | 218.45 | 101.46 | 25.04 | 19.66 | 7.47 | 5.36 | 4.11 |
| 32.5 | 472.01 | 463.22 | 443.85 | 427.31 | 418.18 | 294.49 | 108.20 | 55.14 | 9.84 | 5.81 |
| 35.0 | 475.30 | 472.97 | 469.80 | 464.38 | 453.84 | 438.54 | 398.51 | 220.67 | 108.48 | 15.61 |
| 37.5 | 480.10 | 480.11 | 477.23 | 471.58 | 461.33 | 448.80 | 434.65 | 419.03 | 300.92 | 94.55 |
| 40.0 | 502.92 | 500.74 | 493.81 | 485.25 | 473.50 | 457.40 | 441.61 | 425.18 | 393.54 | 305.59 |
| 42.5 | 525.84 | 523.22 | 519.26 | 507.20 | 491.74 | 471.24 | 450.64 | 430.47 | 409.17 | 365.22 |
| 45.0 | 558.51 | 554.80 | 547.48 | 533.32 | 515.21 | 491.35 | 464.28 | 437.34 | 409.26 | 369.00 |
| 47.5 | 594.77 | 589.67 | 576.10 | 558.69 | 540.54 | 514.51 | 483.55 | 449.43 | 414.95 | 365.63 |
| 50.0 | 618.93 | 614.32 | 601.40 | 584.61 | 564.35 | 538.22 | 504.75 | 466.45 | 426.82 | 368.61 |
| 52.5 | 633.38 | 630.60 | 619.24 | 602.15 | 582.04 | 557.76 | 523.94 | 484.57 | 443.21 | 379.72 |
| 55.0 | 646.00 | 642.79 | 631.89 | 613.57 | 592.34 | 570.01 | 537.70 | 498.95 | 456.07 | 390.06 |
| 57.5 | 646.73 | 641.44 | 631.13 | 623.66 | 603.43 | 577.12 | 541.64 | 504.95 | 467.55 | 400.56 |
| 60.0 | 647.45 | 637.16 | 612.25 | 598.62 | 601.69 | 576.41 | 541.13 | 505.18 | 468.66 | 405.96 |
| 62.5 | 558.75 | 559.14 | 561.13 | 552.74 | 550.59 | 552.83 | 531.54 | 498.34 | 467.27 | 405.85 |
| 65.0 | 470.04 | 466.37 | 462.66 | 471.01 | 468.98 | 483.56 | 477.52 | 471.75 | 452.01 | 399.31 |
| 67.5 | 374.22 | 376.30 | 364.51 | 366.40 | 374.57 | 382.36 | 388.73 | 395.96 | 403.96 | 376.61 |
| 70.0 | 278.39 | 291.60 | 302.40 | 277.29 | 293.94 | 287.69 | 291.23 | 300.64 | 316.08 | 314.42 |
| 72.5 | 270.96 | 266.91 | 258.12 | 253.45 | 247.55 | 229.99 | 225.77 | 220.23 | 224.08 | 239.42 |
| 75.0 | 263.52 | 260.87 | 253.17 | 244.08 | 230.87 | 214.63 | 197.29 | 175.28 | 173.20 | 166.65 |
| 77.5 | 258.84 | 255.43 | 248.43 | 238.34 | 224.88 | 207.52 | 187.61 | 168.55 | 150.74 | 137.29 |
| 80.0 | 254.16 | 249.39 | 242.07 | 231.88 | 218.27 | 201.24 | 182.17 | 163.46 | 145.09 | 125.22 |
| 82.5 | 246.36 | 241.74 | 233.82 | 223.18 | 210.20 | 193.83 | 175.66 | 157.91 | 140.24 | 120.18 |
| 85.0 | 238.57 | 231.14 | 223.60 | 213.54 | 200.54 | 184.47 | 167.74 | 150.90 | 134.33 | 115.09 |
| 87.5 | 223.20 | 218.07 | 210.53 | 200.14 | 188.10 | 173.59 | 158.40 | 141.60 | 126.90 | 109.03 |
| 90.0 | 207.84 | 202.16 | 195.68 | 186.85 | 174.56 | 160.58 | 146.26 | 131.62 | 117.19 | 100.75 |
| 92.5 | 192.76 | 188.73 | 181.98 | 172.78 | 161.51 | 148.17 | 135.04 | 122.43 | 108.96 | 93.02 |
| 95.0 | 177.69 | 174.05 | 167.68 | 158.56 | 148.18 | 136.34 | 124.09 | 111.25 | 99.02 | 85.15 |
| 97.5 | 161.25 | 158.53 | 152.80 | 144.56 | 134.57 | 123.68 | 112.59 | 100.87 | 89.45 | 77.27 |
| 100.0 | 144.81 | 142.67 | 137.09 | 130.13 | 121.11 | 111.16 | 101.25 | 90.66 | 80.31 | 68.93 |
| 102.5 | 128.18 | 126.43 | 121.63 | 115.56 | 107.82 | 99.01 | 90.14 | 80.76 | 71.06 | 61.25 |
| 105.0 | 111.56 | 110.69 | 106.84 | 101.92 | 94.53 | 87.21 | 79.43 | 71.51 | 62.58 | 54.14 |
| 107.5 | 96.99 | 96.01 | 92.69 | 88.65 | 83.18 | 76.63 | 69.76 | 62.55 | 55.13 | 47.55 |
| 110.0 | 82.41 | 82.15 | 80.27 | 75.94 | 72.44 | 67.27 | 60.95 | 55.19 | 48.52 | 42.18 |
| 112.5 | 71.04 | 70.57 | 68.42 | 66.16 | 62.28 | 58.64 | 53.74 | 48.62 | 43.03 | 37.73 |
| 115.0 | 59.67 | 59.76 | 59.31 | 57.28 | 54.62 | 51.03 | 47.52 | 43.23 | 38.79 | 34.14 |
| 117.5 | 52.49 | 52.30 | 51.39 | 49.99 | 48.10 | 45.23 | 42.56 | 39.11 | 35.20 | 31.03 |
| 120.0 | 45.32 | 45.44 | 45.53 | 44.63 | 42.67 | 40.86 | 38.58 | 35.42 | 32.18 | 28.17 |
| 122.5 | 41.29 | 41.31 | 40.90 | 40.01 | 39.07 | 37.36 | 35.21 | 32.58 | 29.29 | 25.85 |
| 125.0 | 37.27 | 37.37 | 37.34 | 36.89 | 35.97 | 34.37 | 32.22 | 29.84 | 26.94 | 23.87 |
| 127.5 | 34.74 | 34.78 | 34.69 | 34.18 | 33.25 | 31.71 | 29.74 | 27.45 | 24.92 | 22.24 |
| 130.0 | 32.46 | 32.45 | 32.29 | 31.75 | 30.80 | 29.37 | 27.57 | 25.41 | 23.16 | 20.89 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 132.5 | 30.49 | 30.44 | 30.21 | 29.65 | 28.72 | 27.39 | 25.70 | 23.71 | 21.77 | 19.84 |
| 135.0 | 28.76 | 28.72 | 28.40 | 27.84 | 26.92 | 25.63 | 24.04 | 22.38 | 20.69 | 19.06 |
| 137.5 | 27.14 | 27.07 | 26.79 | 26.20 | 25.29 | 24.11 | 22.72 | 21.27 | 19.74 | 17.83 |
| 140.0 | 25.72 | 25.61 | 25.28 | 24.67 | 23.83 | 22.80 | 21.60 | 20.28 | 18.77 | 16.79 |
| 142.5 | 24.20 | 24.11 | 23.82 | 23.31 | 22.58 | 21.67 | 20.62 | 19.44 | 17.56 | 16.06 |
| 145.0 | 22.89 | 22.81 | 22.55 | 22.10 | 21.43 | 20.65 | 19.66 | 18.11 | 16.71 | 15.33 |
| 147.5 | 21.71 | 21.62 | 21.38 | 20.97 | 20.40 | 19.51 | 18.27 | 17.18 | 15.94 | 14.51 |
| 150.0 | 20.53 | 20.43 | 20.14 | 19.62 | 18.92 | 18.14 | 17.32 | 16.25 | 15.04 | 12.91 |
| 152.5 | 18.88 | 18.79 | 18.59 | 18.22 | 17.75 | 17.08 | 16.17 | 14.89 | 12.72 | 9.52 |
| 155.0 | 17.63 | 17.54 | 17.29 | 16.86 | 16.30 | 15.61 | 13.52 | 11.69 | 8.83 | 5.46 |
| 157.5 | 15.70 | 15.70 | 14.70 | 13.53 | 12.06 | 10.39 | 9.02 | 7.12 | 5.38 | 5.04 |
| 160.0 | 8.47 | 8.58 | 8.29 | 7.91 | 7.35 | 6.42 | 5.45 | 5.18 | 4.89 | 4.43 |
| 162.5 | 5.57 | 5.57 | 5.48 | 5.37 | 5.22 | 5.04 | 4.83 | 4.50 | 4.12 | 3.71 |
| 165.0 | 4.77 | 4.77 | 4.68 | 4.56 | 4.40 | 4.19 | 3.95 | 3.68 | 3.41 | 3.11 |
| 167.5 | 3.73 | 3.74 | 3.68 | 3.60 | 3.49 | 3.35 | 3.18 | 2.98 | 2.81 | 2.65 |
| 170.0 | 2.90 | 2.90 | 2.87 | 2.83 | 2.77 | 2.70 | 2.61 | 2.51 | 2.39 | 2.27 |
| 172.5 | 2.35 | 2.35 | 2.33 | 2.30 | 2.26 | 2.20 | 2.14 | 2.06 | 1.98 | 1.88 |
| 175.0 | 1.80 | 1.80 | 1.80 | 1.78 | 1.77 | 1.75 | 1.72 | 1.69 | 1.66 | 1.62 |
| 177.5 | 1.49 | 1.49 | 1.48 | 1.48 | 1.47 | 1.46 | 1.44 | 1.43 | 1.41 | 1.39 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Angles **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 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 |
| 2.5 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.14 | 0.00 | 0.00 |
| 5.0 | 1.17 | 1.17 | 1.17 | 1.16 | 1.16 | 1.15 | 1.15 | 1.15 | 0.00 | 0.00 |
| 7.5 | 1.19 | 1.19 | 1.19 | 1.18 | 1.18 | 1.17 | 1.16 | 1.16 | 0.00 | 0.00 |
| 10.0 | 1.23 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.18 | 1.17 | 0.00 | 0.00 |
| 12.5 | 1.27 | 1.26 | 1.24 | 1.22 | 1.20 | 1.19 | 1.19 | 1.18 | 0.00 | 0.00 |
| 15.0 | 1.32 | 1.30 | 1.27 | 1.24 | 1.21 | 1.20 | 1.19 | 1.18 | 0.00 | 0.00 |
| 17.5 | 1.43 | 1.34 | 1.31 | 1.28 | 1.25 | 1.22 | 1.21 | 1.19 | 0.00 | 0.00 |
| 20.0 | 1.57 | 1.47 | 1.36 | 1.32 | 1.29 | 1.24 | 1.22 | 1.20 | 0.00 | 0.00 |
| 22.5 | 1.76 | 1.61 | 1.47 | 1.37 | 1.32 | 1.27 | 1.23 | 1.21 | 0.00 | 0.00 |
| 25.0 | 1.97 | 1.78 | 1.60 | 1.44 | 1.36 | 1.29 | 1.24 | 1.22 | 0.00 | 0.00 |
| 27.5 | 2.24 | 1.97 | 1.75 | 1.55 | 1.41 | 1.34 | 1.26 | 1.24 | 0.00 | 0.00 |
| 30.0 | 3.07 | 2.24 | 1.91 | 1.68 | 1.48 | 1.39 | 1.29 | 1.26 | 0.00 | 0.00 |
| 32.5 | 4.21 | 2.80 | 2.17 | 1.82 | 1.58 | 1.44 | 1.33 | 1.28 | 0.00 | 0.00 |
| 35.0 | 5.84 | 3.66 | 2.54 | 2.02 | 1.71 | 1.50 | 1.37 | 1.30 | 0.00 | 0.00 |
| 37.5 | 17.54 | 5.39 | 3.06 | 2.26 | 1.85 | 1.59 | 1.42 | 1.34 | 0.00 | 0.00 |
| 40.0 | 78.75 | 10.11 | 5.03 | 2.70 | 2.01 | 1.69 | 1.49 | 1.37 | 0.00 | 0.00 |
| 42.5 | 204.22 | 50.77 | 10.99 | 3.39 | 2.23 | 1.80 | 1.57 | 1.42 | 0.00 | 0.00 |
| 45.0 | 307.64 | 179.27 | 31.68 | 4.35 | 2.50 | 1.94 | 1.65 | 1.46 | 0.00 | 0.00 |
| 47.5 | 319.22 | 289.82 | 83.44 | 7.84 | 2.85 | 2.08 | 1.73 | 1.51 | 0.00 | 0.00 |
| 50.0 | 317.45 | 288.56 | 164.93 | 32.40 | 3.90 | 2.24 | 1.82 | 1.56 | 0.00 | 0.00 |
| 52.5 | 320.00 | 287.72 | 226.90 | 78.82 | 9.72 | 2.44 | 1.92 | 1.60 | 0.00 | 0.00 |
| 55.0 | 325.85 | 288.39 | 247.54 | 115.60 | 26.16 | 2.68 | 2.03 | 1.64 | 0.00 | 0.00 |
| 57.5 | 333.15 | 289.39 | 248.58 | 147.44 | 46.98 | 3.75 | 2.14 | 1.69 | 0.00 | 0.00 |
| 60.0 | 344.14 | 291.95 | 244.97 | 173.94 | 67.89 | 7.41 | 2.24 | 1.74 | 0.00 | 0.00 |
| 62.5 | 349.62 | 296.99 | 243.82 | 183.05 | 93.66 | 17.14 | 2.45 | 1.80 | 0.00 | 0.00 |
| 65.0 | 344.81 | 298.70 | 247.32 | 178.77 | 117.83 | 31.35 | 2.69 | 1.85 | 0.00 | 0.00 |
| 67.5 | 330.88 | 291.29 | 250.99 | 176.86 | 126.18 | 49.53 | 3.80 | 1.90 | 0.00 | 0.00 |
| 70.0 | 301.99 | 275.34 | 237.55 | 177.18 | 124.71 | 66.60 | 5.11 | 1.95 | 0.00 | 0.00 |
| 72.5 | 238.23 | 240.29 | 221.67 | 166.10 | 116.91 | 68.65 | 14.11 | 1.98 | 0.00 | 0.00 |
| 75.0 | 171.22 | 182.28 | 171.26 | 131.71 | 101.51 | 66.16 | 24.57 | 2.01 | 0.00 | 0.00 |
| 77.5 | 124.36 | 117.53 | 122.69 | 101.11 | 89.80 | 63.80 | 24.41 | 2.07 | 0.00 | 0.00 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|--------|-------|-------|-------|-------|-------|-------|------|------|------|
| 80.0 | 105.46 | 93.67 | 86.81 | 75.85 | 80.36 | 60.97 | 23.06 | 2.14 | 0.00 | 0.00 |
| 82.5 | 99.54 | 79.68 | 64.37 | 57.06 | 58.18 | 42.94 | 20.25 | 2.19 | 0.00 | 0.00 |
| 85.0 | 95.76 | 75.53 | 58.50 | 43.51 | 32.56 | 21.93 | 16.61 | 2.23 | 0.00 | 0.00 |
| 87.5 | 90.67 | 71.15 | 54.47 | 38.94 | 26.46 | 18.09 | 11.25 | 2.20 | 0.00 | 0.00 |
| 90.0 | 83.90 | 66.27 | 50.64 | 36.09 | 23.06 | 15.54 | 5.77 | 2.16 | 0.00 | 0.00 |
| 92.5 | 77.48 | 61.81 | 47.04 | 33.95 | 21.41 | 13.04 | 5.33 | 2.16 | 0.00 | 0.00 |
| 95.0 | 70.76 | 56.45 | 42.97 | 31.29 | 19.75 | 10.68 | 4.89 | 2.16 | 0.00 | 0.00 |
| 97.5 | 64.29 | 50.36 | 38.35 | 27.58 | 17.68 | 9.93 | 4.77 | 2.16 | 0.00 | 0.00 |
| 100.0 | 57.21 | 44.94 | 34.17 | 24.40 | 16.03 | 9.28 | 4.57 | 2.16 | 0.00 | 0.00 |
| 102.5 | 50.41 | 39.65 | 30.50 | 22.15 | 15.25 | 8.79 | 4.44 | 2.15 | 0.00 | 0.00 |
| 105.0 | 44.35 | 35.38 | 27.50 | 20.23 | 14.16 | 8.31 | 4.32 | 2.15 | 0.00 | 0.00 |
| 107.5 | 39.48 | 31.70 | 24.78 | 18.57 | 12.74 | 7.91 | 4.25 | 2.15 | 0.00 | 0.00 |
| 110.0 | 35.23 | 28.87 | 22.71 | 17.30 | 11.68 | 7.53 | 4.18 | 2.15 | 0.00 | 0.00 |
| 112.5 | 31.90 | 26.28 | 20.75 | 16.36 | 10.96 | 7.24 | 4.10 | 2.14 | 0.00 | 0.00 |
| 115.0 | 29.02 | 23.89 | 19.15 | 14.98 | 10.40 | 6.97 | 3.98 | 2.13 | 0.00 | 0.00 |
| 117.5 | 26.40 | 21.94 | 17.80 | 13.42 | 9.96 | 6.74 | 3.67 | 2.11 | 0.00 | 0.00 |
| 120.0 | 24.26 | 20.12 | 16.90 | 12.75 | 9.57 | 6.46 | 3.40 | 2.09 | 0.00 | 0.00 |
| 122.5 | 22.40 | 18.81 | 15.99 | 12.14 | 9.20 | 6.08 | 3.24 | 2.05 | 0.00 | 0.00 |
| 125.0 | 20.81 | 17.67 | 14.63 | 11.62 | 8.85 | 5.45 | 3.09 | 2.01 | 0.00 | 0.00 |
| 127.5 | 19.41 | 16.80 | 13.82 | 11.12 | 8.50 | 4.62 | 2.96 | 1.97 | 0.00 | 0.00 |
| 130.0 | 18.36 | 15.85 | 13.19 | 10.72 | 7.95 | 4.09 | 2.83 | 1.93 | 0.00 | 0.00 |
| 132.5 | 17.26 | 15.01 | 12.65 | 10.30 | 7.02 | 3.82 | 2.70 | 1.88 | 0.00 | 0.00 |
| 135.0 | 16.43 | 14.34 | 12.17 | 9.76 | 5.74 | 3.57 | 2.57 | 1.84 | 0.00 | 0.00 |
| 137.5 | 15.75 | 13.77 | 11.66 | 8.28 | 4.75 | 3.32 | 2.43 | 1.78 | 0.00 | 0.00 |
| 140.0 | 15.10 | 13.20 | 10.74 | 6.48 | 4.24 | 3.12 | 2.30 | 1.72 | 0.00 | 0.00 |
| 142.5 | 14.48 | 12.59 | 9.06 | 4.82 | 3.89 | 2.93 | 2.17 | 1.67 | 0.00 | 0.00 |
| 145.0 | 13.68 | 10.77 | 6.79 | 4.50 | 3.58 | 2.74 | 2.04 | 1.61 | 0.00 | 0.00 |
| 147.5 | 12.57 | 7.52 | 5.32 | 4.17 | 3.26 | 2.57 | 1.93 | 1.57 | 0.00 | 0.00 |
| 150.0 | 8.92 | 5.43 | 4.67 | 3.81 | 2.98 | 2.41 | 1.83 | 1.53 | 0.00 | 0.00 |
| 152.5 | 5.46 | 4.99 | 4.22 | 3.44 | 2.79 | 2.27 | 1.78 | 1.50 | 0.00 | 0.00 |
| 155.0 | 5.07 | 4.48 | 3.75 | 3.08 | 2.59 | 2.13 | 1.73 | 1.47 | 0.00 | 0.00 |
| 157.5 | 4.56 | 3.90 | 3.32 | 2.80 | 2.40 | 1.99 | 1.68 | 1.45 | 0.00 | 0.00 |
| 160.0 | 3.89 | 3.40 | 2.91 | 2.57 | 2.22 | 1.85 | 1.63 | 1.42 | 0.00 | 0.00 |
| 162.5 | 3.33 | 2.94 | 2.64 | 2.34 | 2.03 | 1.76 | 1.58 | 1.39 | 0.00 | 0.00 |
| 165.0 | 2.83 | 2.61 | 2.36 | 2.11 | 1.85 | 1.68 | 1.52 | 1.36 | 0.00 | 0.00 |
| 167.5 | 2.48 | 2.29 | 2.09 | 1.88 | 1.72 | 1.59 | 1.46 | 1.32 | 0.00 | 0.00 |
| 170.0 | 2.12 | 1.97 | 1.82 | 1.71 | 1.61 | 1.50 | 1.40 | 1.29 | 0.00 | 0.00 |
| 172.5 | 1.79 | 1.72 | 1.65 | 1.57 | 1.49 | 1.41 | 1.33 | 1.24 | 0.00 | 0.00 |
| 175.0 | 1.57 | 1.53 | 1.48 | 1.43 | 1.37 | 1.32 | 1.26 | 1.20 | 0.00 | 0.00 |
| 177.5 | 1.37 | 1.35 | 1.32 | 1.30 | 1.27 | 1.24 | 1.22 | 1.19 | 0.00 | 0.00 |
| 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

| | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 |
| 2.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25.0 | 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 : L061805908.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 : L061805908.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|
| 167.5 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 |
| 172.5 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 |
| 177.5 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 |

Vert. Horizontal Angles
Angles

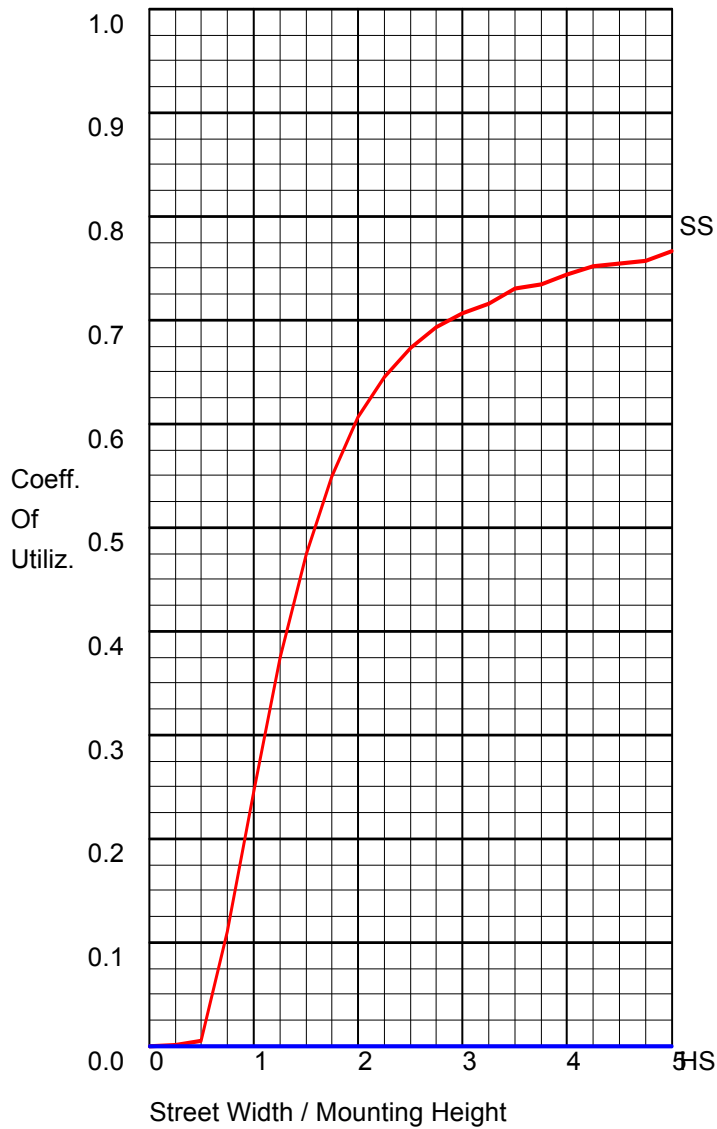
| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.0 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 |
| 2.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.5 | 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 |
| 32.5 | 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 |
| 37.5 | 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 |
| 42.5 | 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 |
| 47.5 | 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 |
| 52.5 | 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 |
| 57.5 | 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 |
| 62.5 | 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 |
| 67.5 | 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 |
| 72.5 | 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 |
| 77.5 | 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 |
| 82.5 | 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 |
| 87.5 | 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 |
| 92.5 | 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 |
| 97.5 | 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 |
| 102.5 | 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 |
| 107.5 | 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 |
| 112.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES ROAD REPORT
PHOTOMETRIC FILENAME : L061805908.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 |

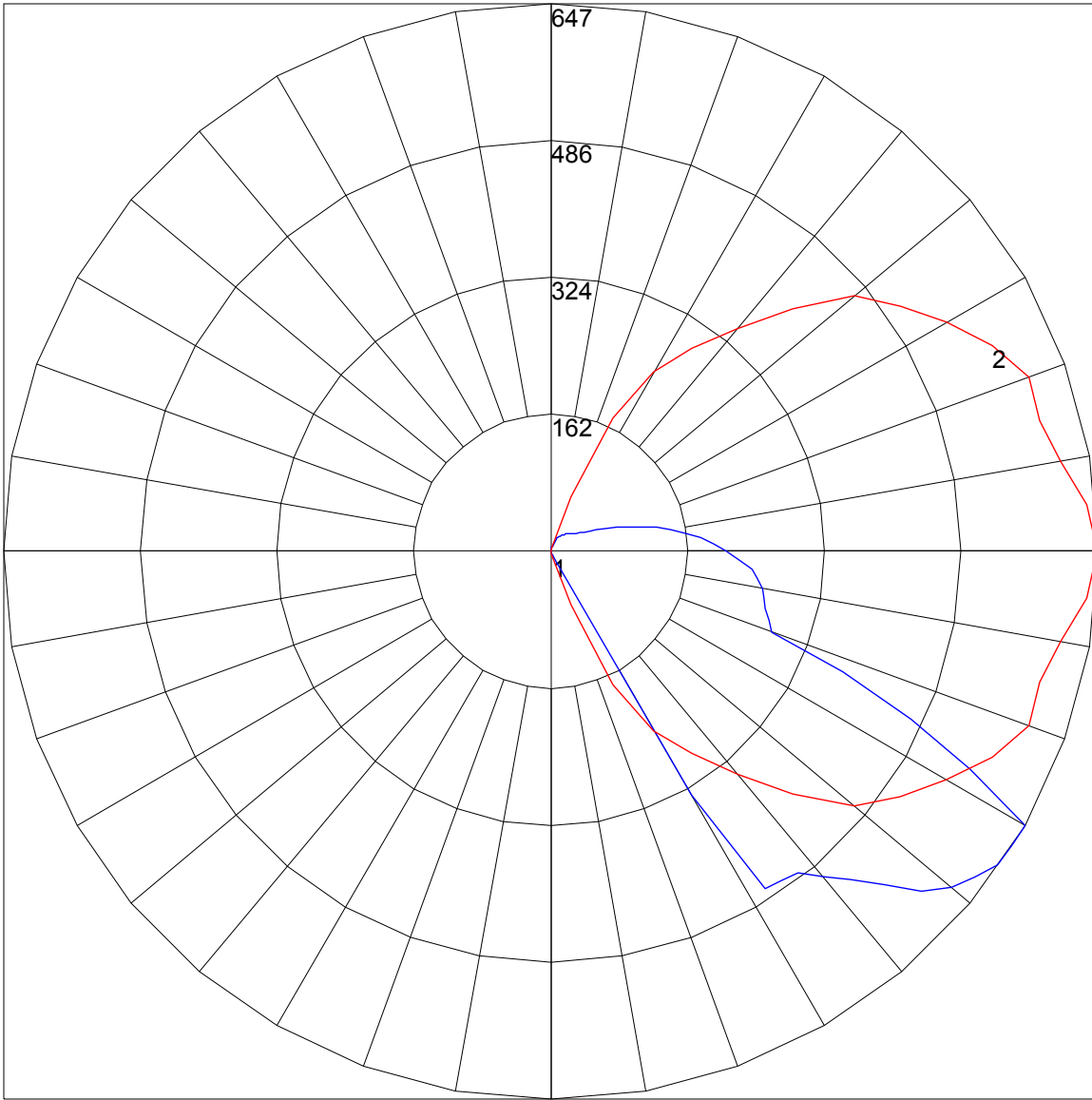
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

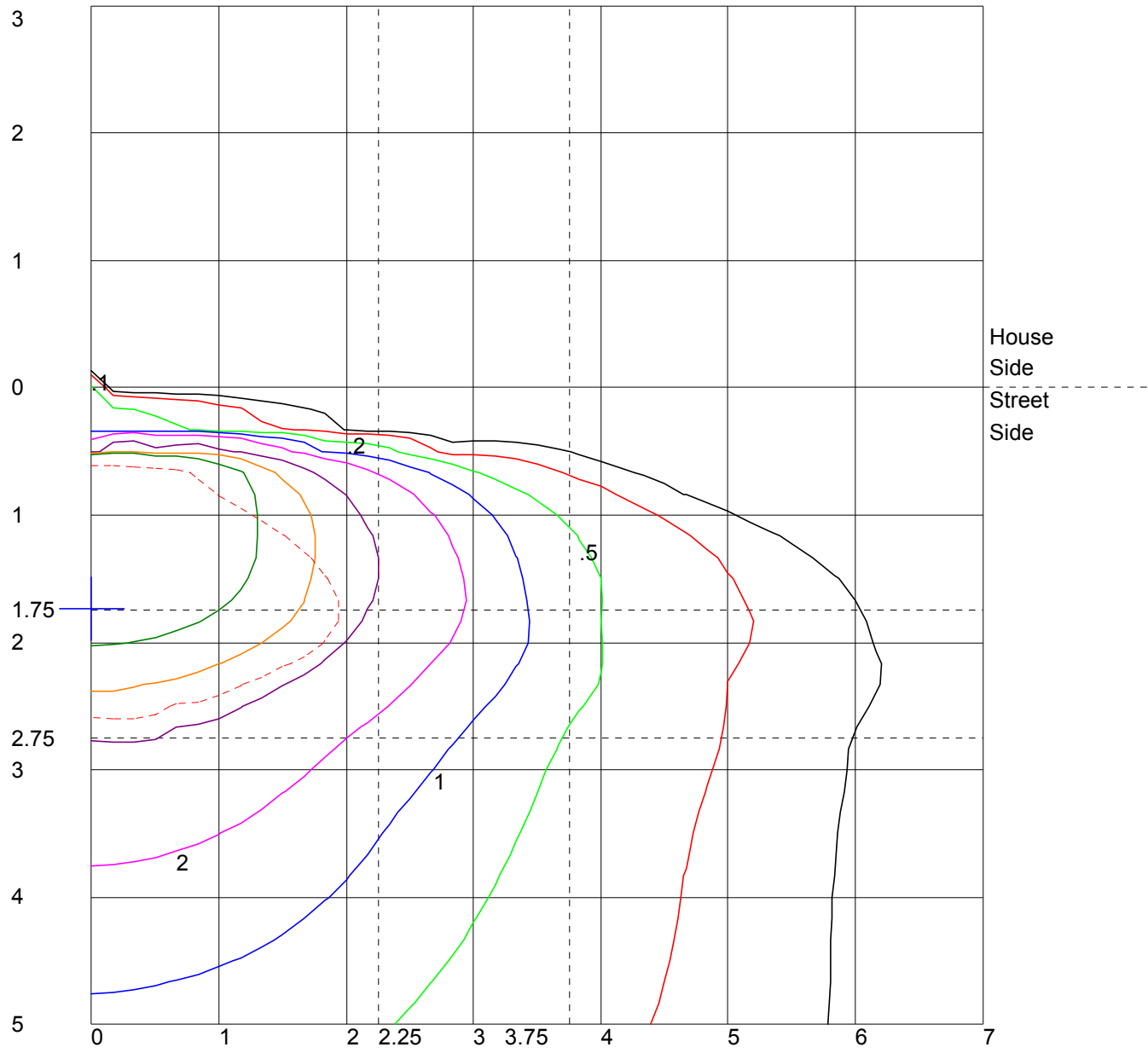
| | Lumens | Percent Of Luminaire |
|----------------------|--------|----------------------|
| Downward Street Side | 625.1 | 84.4 |
| Downward House Side | 0.0 | 0.0 |
| Downward Total | 625.1 | 84.4 |
| Upward Street Side | 115.3 | 15.6 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 115.3 | 15.6 |
| Total Flux | 740.4 | 100.0 |

POLAR GRAPH



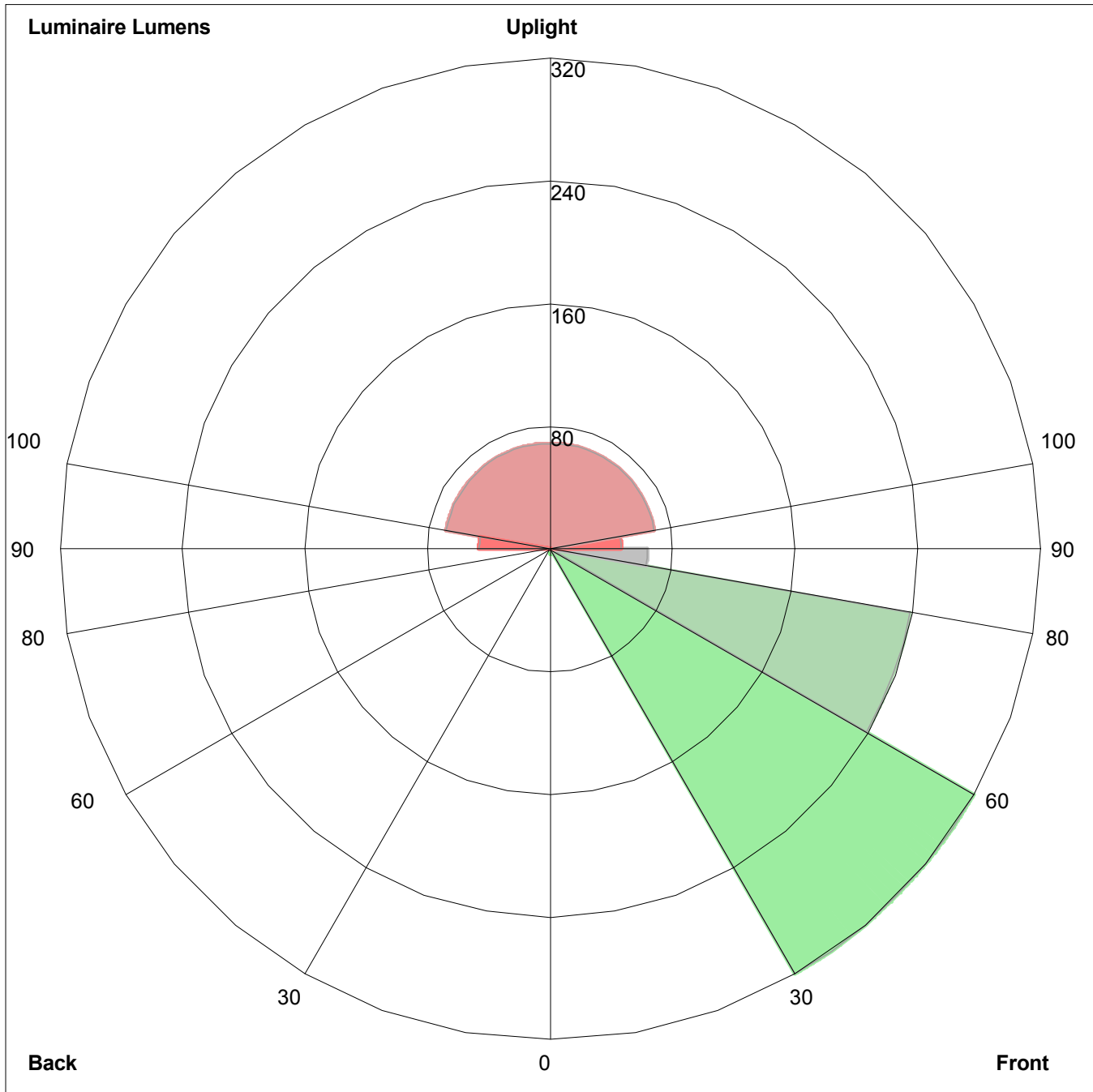
Maximum Candela = 647.45 Located At Horizontal Angle = 0, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 1.5 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3.1, Medium=320.0, High=238.4, Very High=63.6
Back: Low=0.0, Medium=0.0, High=0.0, Very High=0.0
Uplight: Low=46.4, High=68.9

BUG Rating : B0-U3-G1