

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P268906

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268906  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-SL2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33038.7 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

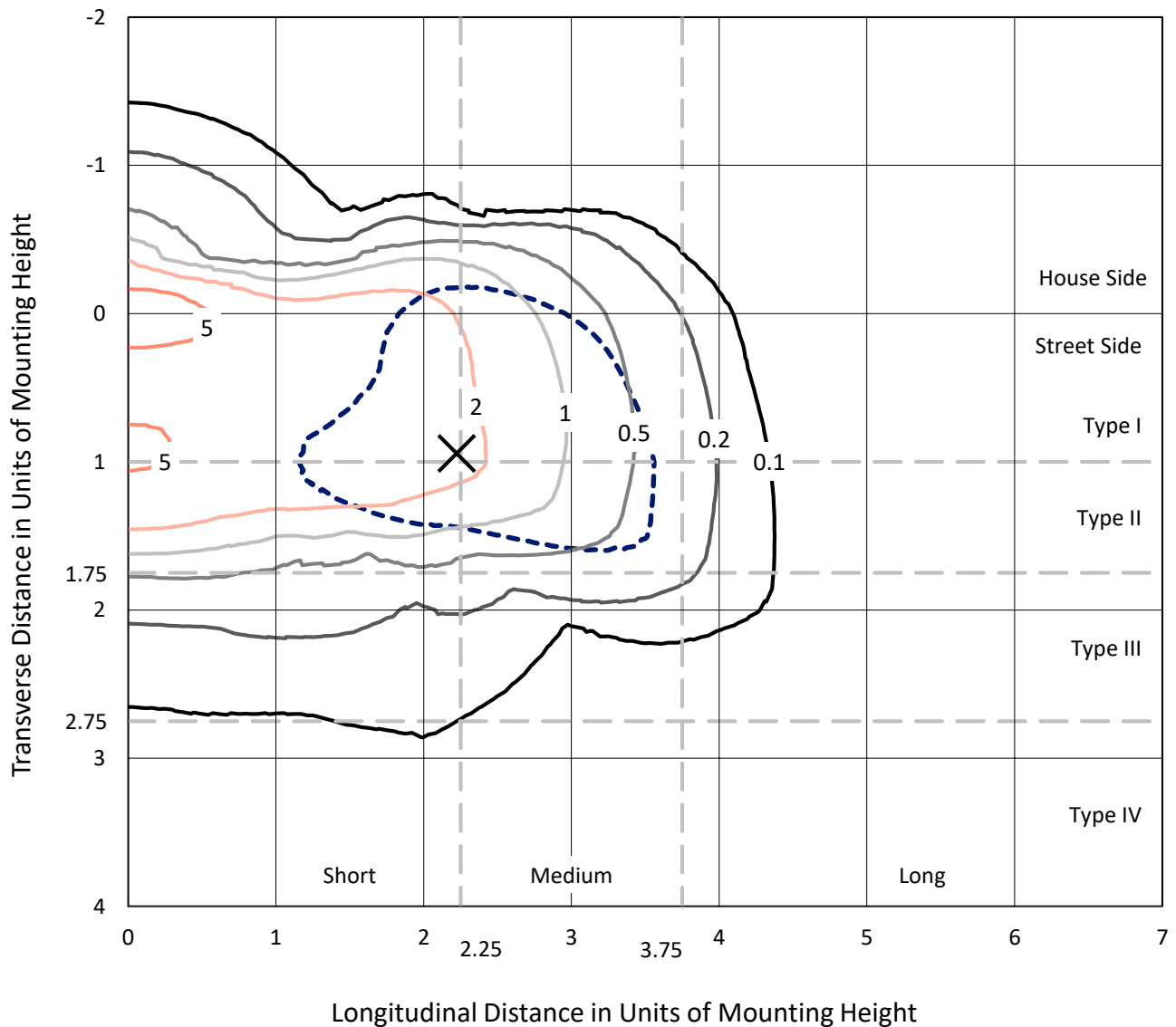
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P268906  
 CATALOG NUMBER: GAN-AF-10-LED-U-SL2-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

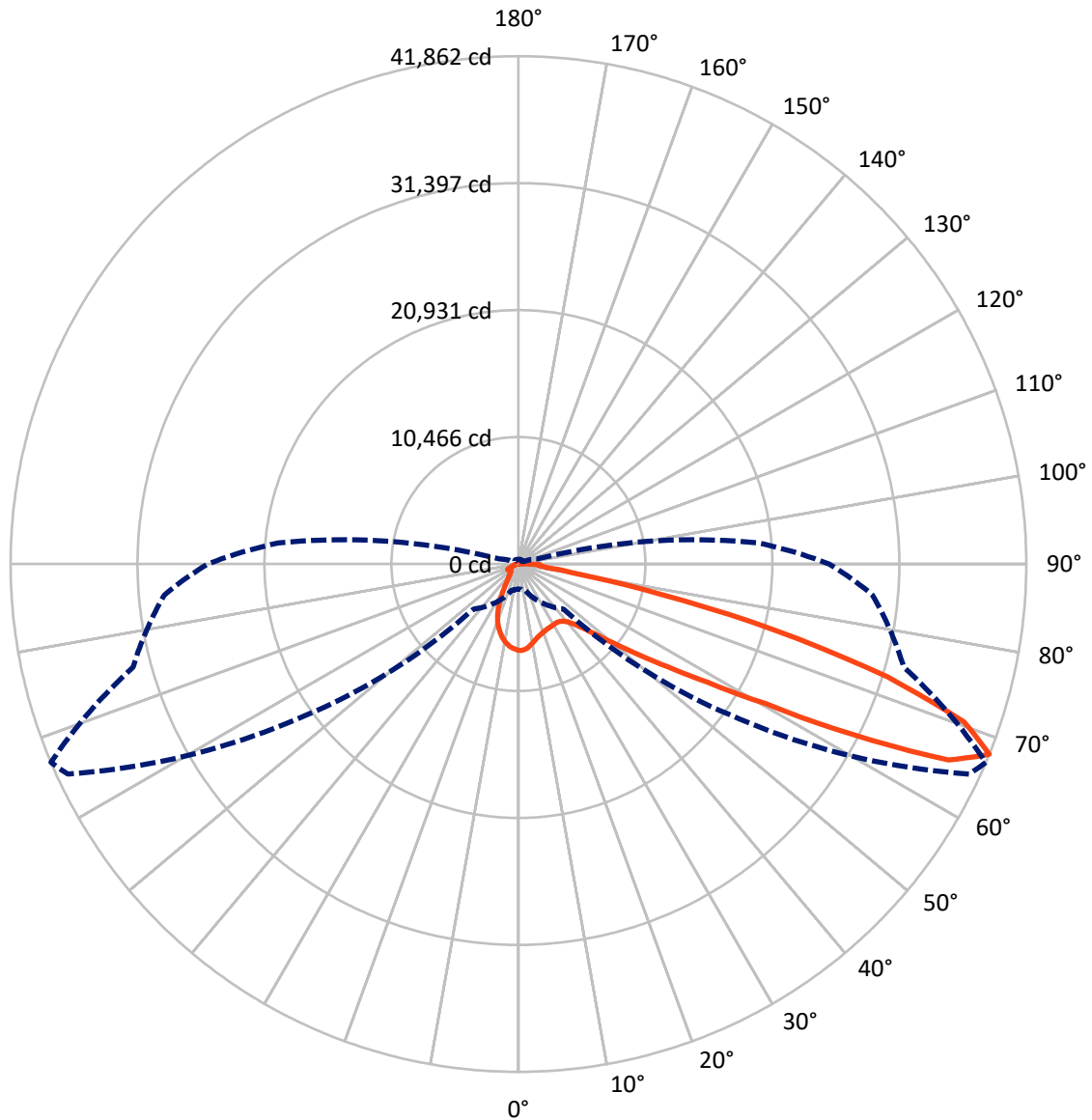
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P268906  
CATALOG NUMBER: GAN-AF-10-LED-U-SL2-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P268906

CATALOG NUMBER: GAN-AF-10-LED-U-SL2-7027-600

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5474.1   | 0.0    | 5474.1  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 27564.5  | 0.0    | 27564.5 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 33038.7  | 0.0    | 33038.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 608.0   | 1.8       |
| 10°-20°   | 1406.8  | 4.3       |
| 20°-30°   | 1906.9  | 5.8       |
| 30°-40°   | 2710.9  | 8.2       |
| 40°-50°   | 4535.4  | 13.7      |
| 50°-60°   | 7175.0  | 21.7      |
| 60°-70°   | 9140.2  | 27.7      |
| 70°-80°   | 4787.6  | 14.5      |
| 80°-90°   | 767.9   | 2.3       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 33038.7 | 100.0     |
| 0°-180°   | 33038.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P268906

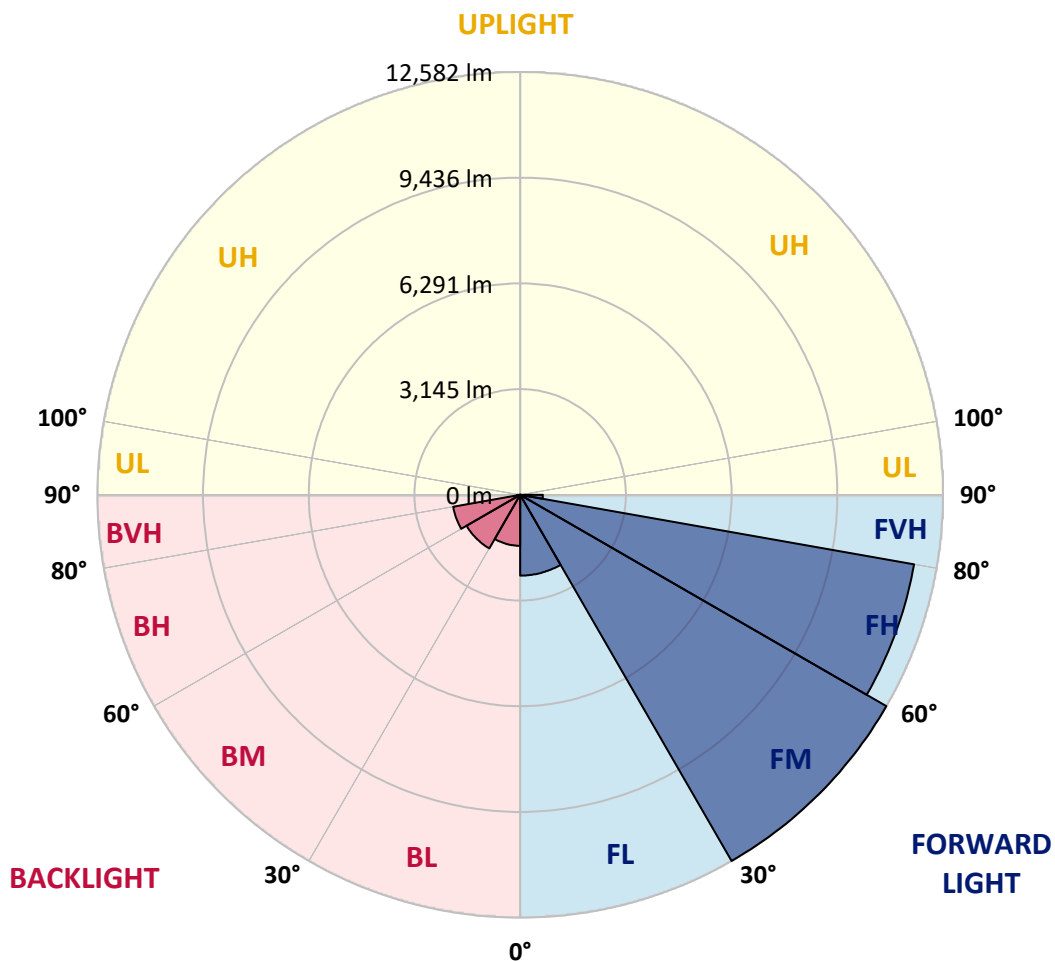
CATALOG NUMBER: GAN-AF-10-LED-U-SL2-7027-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2404.4  | 7.3       |                         |      |          |
| FM   | (30°-60°)   | 12581.8 | 38.1      |                         |      |          |
| FH   | (60°-80°)   | 11903.1 | 36.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 675.2   | 2.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1517.3  | 4.6       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1839.5  | 5.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 2024.7  | 6.1       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 92.7    | 0.3       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P268906  
 CATALOG NUMBER: GAN-AF-10-LED-U-SL2-7027-600

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  | 7126.3  |
| 2.5°  | 6833.0  | 6844.5  | 6880.4  | 6903.1  | 7005.8  | 7049.8  | 7080.7  | 7111.7  | 7116.6  | 7131.3  | 7116.6  |
| 5°    | 6116.2  | 6140.6  | 6207.5  | 6282.3  | 6481.2  | 6637.5  | 6802.1  | 6973.3  | 7004.2  | 7114.9  | 7145.8  |
| 7.5°  | 5560.7  | 5554.1  | 5609.6  | 5699.1  | 5902.9  | 6119.4  | 6407.9  | 6748.3  | 6815.3  | 7064.5  | 7185.1  |
| 10°   | 5155.0  | 5150.1  | 5208.7  | 5301.5  | 5495.6  | 5700.7  | 6026.5  | 6492.6  | 6587.1  | 6984.6  | 7222.6  |
| 12.5° | 4855.2  | 4856.7  | 4915.4  | 5018.1  | 5215.2  | 5422.2  | 5752.8  | 6244.9  | 6365.5  | 6891.7  | 7261.5  |
| 15°   | 4656.5  | 4669.4  | 4716.7  | 4825.9  | 5018.1  | 5225.0  | 5549.2  | 6059.2  | 6194.4  | 6818.5  | 7305.6  |
| 17.5° | 4589.6  | 4610.8  | 4627.1  | 4706.8  | 4871.5  | 5078.4  | 5396.1  | 5922.3  | 6065.7  | 6767.9  | 7344.7  |
| 20°   | 4651.6  | 4675.9  | 4645.0  | 4672.8  | 4776.9  | 4959.5  | 5275.6  | 5814.8  | 5961.4  | 6710.9  | 7349.6  |
| 22.5° | 4917.1  | 4939.9  | 4848.6  | 4768.8  | 4762.4  | 4873.0  | 5176.2  | 5730.1  | 5881.7  | 6668.6  | 7351.2  |
| 25°   | 5384.7  | 5399.4  | 5246.2  | 5060.4  | 4879.7  | 4842.1  | 5106.1  | 5671.4  | 5832.8  | 6631.1  | 7320.3  |
| 27.5° | 5958.2  | 5969.5  | 5793.6  | 5519.9  | 5156.6  | 4915.4  | 5081.6  | 5637.3  | 5805.0  | 6598.5  | 7268.0  |
| 30°   | 6655.5  | 6709.4  | 6473.0  | 6127.6  | 5598.1  | 5132.1  | 5130.5  | 5619.3  | 5774.0  | 6543.1  | 7165.5  |
| 32.5° | 7369.1  | 7392.0  | 7229.0  | 6878.7  | 6192.7  | 5513.3  | 5267.4  | 5632.4  | 5766.0  | 6476.3  | 7035.2  |
| 35°   | 8092.6  | 8121.8  | 8015.9  | 7734.0  | 7005.8  | 6072.3  | 5534.5  | 5708.9  | 5816.4  | 6453.5  | 6943.9  |
| 37.5° | 9029.4  | 9068.4  | 8921.7  | 8595.9  | 7994.7  | 6829.9  | 5979.4  | 5901.1  | 5971.3  | 6518.6  | 6916.2  |
| 40°   | 10510.3 | 10492.5 | 10063.9 | 9578.4  | 9076.6  | 7799.3  | 6614.8  | 6227.1  | 6267.7  | 6728.8  | 7000.9  |
| 42.5° | 12234.0 | 12190.1 | 11452.0 | 10689.6 | 10265.9 | 8972.4  | 7455.5  | 6792.4  | 6784.2  | 7142.7  | 7299.1  |
| 45°   | 13609.1 | 13573.3 | 12908.6 | 11968.5 | 11629.5 | 10308.3 | 8542.2  | 7634.6  | 7574.4  | 7799.3  | 7849.7  |
| 47.5° | 14353.7 | 14355.4 | 13972.4 | 13205.1 | 13196.9 | 12005.9 | 9938.5  | 8853.3  | 8749.1  | 8855.0  | 8801.2  |
| 50°   | 14093.0 | 14127.3 | 14086.5 | 13842.2 | 14627.5 | 14231.5 | 11761.6 | 10552.7 | 10342.5 | 10446.7 | 10239.9 |
| 52.5° | 12832.0 | 12875.9 | 13117.1 | 13491.9 | 15228.6 | 16921.5 | 14440.1 | 12664.1 | 12419.7 | 12382.2 | 12152.6 |
| 55°   | 10596.6 | 10650.5 | 11142.4 | 12160.7 | 14728.4 | 18728.3 | 18666.3 | 15355.6 | 14966.3 | 14612.8 | 14515.1 |
| 57.5° | 7303.9  | 7393.5  | 8185.4  | 9697.4  | 13110.7 | 19274.0 | 23699.2 | 19192.6 | 18400.8 | 17165.8 | 17188.6 |
| 60°   | 4117.1  | 4221.3  | 5155.0  | 6528.4  | 9845.6  | 18681.1 | 27527.8 | 25004.1 | 23332.5 | 20155.5 | 20325.0 |
| 62.5° | 2618.2  | 2730.6  | 3439.3  | 4535.8  | 5907.7  | 15487.7 | 29096.8 | 33083.6 | 30960.8 | 23840.8 | 24007.1 |
| 65°   | 2119.7  | 2168.6  | 2502.5  | 3744.0  | 4289.9  | 9330.8  | 27905.8 | 39739.1 | 38947.3 | 28518.4 | 27743.0 |
| 67.5° | 2069.2  | 2085.4  | 2258.2  | 3142.8  | 4113.9  | 5244.6  | 22258.8 | 40983.8 | 41862.1 | 32886.5 | 29298.8 |
| 70°   | 2044.7  | 2101.8  | 2544.9  | 2999.4  | 3939.5  | 4423.4  | 13376.1 | 37572.1 | 38958.8 | 34028.5 | 27228.0 |
| 72.5° | 992.2   | 988.9   | 1280.7  | 2712.7  | 4438.0  | 4588.0  | 6872.3  | 30400.3 | 31791.6 | 29481.4 | 22374.5 |
| 75°   | 800.0   | 731.5   | 698.9   | 993.9   | 4266.9  | 4737.9  | 4379.4  | 20918.0 | 21924.8 | 19766.0 | 13754.2 |
| 77.5° | 759.2   | 677.9   | 620.8   | 622.3   | 1803.5  | 5024.6  | 3709.8  | 11577.4 | 11870.7 | 8928.3  | 3768.5  |
| 80°   | 629.0   | 554.0   | 513.2   | 578.4   | 873.3   | 4785.1  | 4011.2  | 5239.6  | 4807.9  | 2193.0  | 1254.6  |
| 82.5° | 436.7   | 397.5   | 386.1   | 485.5   | 698.9   | 3410.1  | 4664.5  | 2815.4  | 2360.7  | 1098.1  | 773.9   |
| 85°   | 278.7   | 238.0   | 263.9   | 353.6   | 544.2   | 1573.9  | 4804.7  | 2194.6  | 1745.0  | 697.4   | 436.7   |
| 87.5° | 128.6   | 104.3   | 130.3   | 195.6   | 355.2   | 542.5   | 4571.7  | 2465.0  | 1797.1  | 368.2   | 275.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P268906  
 CATALOG NUMBER: GAN-AF-10-LED-U-SL2-7027-600

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7126.3  | 7126.3  | 7126.3 | 7126.3 | 7126.3 | 7126.3 | 7126.3 | 7126.3 | 7126.3 | 7126.3 | 7126.3 |
| 2.5°  | 7129.6  | 7098.6  | 7074.2 | 7028.6 | 6978.2 | 6929.3 | 6885.1 | 6829.9 | 6813.6 | 6798.9 | 6821.6 |
| 5°    | 7152.5  | 7121.5  | 7031.8 | 6891.7 | 6737.0 | 6591.9 | 6447.0 | 6323.1 | 6246.5 | 6204.2 | 6228.7 |
| 7.5°  | 7186.6  | 7142.7  | 6957.0 | 6699.5 | 6420.8 | 6166.8 | 5904.4 | 5694.3 | 5539.5 | 5466.1 | 5487.3 |
| 10°   | 7217.6  | 7132.9  | 6829.9 | 6443.7 | 6036.4 | 5658.5 | 5244.6 | 4902.4 | 4648.3 | 4514.6 | 4547.2 |
| 12.5° | 7230.6  | 7095.4  | 6652.3 | 6124.4 | 5565.4 | 5011.6 | 4402.2 | 3890.6 | 3525.7 | 3392.1 | 3364.4 |
| 15°   | 7243.7  | 7053.0  | 6456.7 | 5761.0 | 4996.9 | 4213.2 | 3359.5 | 2746.8 | 2443.8 | 2377.1 | 2362.5 |
| 17.5° | 7246.9  | 6979.7  | 6235.1 | 5366.7 | 4330.5 | 3263.5 | 2297.2 | 1907.9 | 1909.4 | 2017.1 | 2030.1 |
| 20°   | 7212.8  | 6870.5  | 5966.4 | 4876.4 | 3532.2 | 2256.5 | 1577.2 | 1510.3 | 1756.4 | 2025.1 | 2057.7 |
| 22.5° | 7134.5  | 6725.6  | 5661.7 | 4304.5 | 2618.2 | 1485.8 | 1220.3 | 1293.6 | 1611.3 | 1940.5 | 1977.9 |
| 25°   | 7035.2  | 6549.6  | 5301.5 | 3641.4 | 1733.5 | 1062.2 | 1023.2 | 1112.8 | 1327.9 | 1547.8 | 1569.0 |
| 27.5° | 6899.9  | 6341.0  | 4897.5 | 2882.1 | 1125.8 | 874.9  | 901.0  | 961.2  | 1049.2 | 1147.0 | 1156.7 |
| 30°   | 6725.6  | 6091.8  | 4465.7 | 2101.8 | 850.4  | 786.9  | 824.5  | 857.1  | 894.4  | 949.9  | 954.8  |
| 32.5° | 6525.2  | 5852.3  | 4022.6 | 1451.8 | 754.3  | 741.3  | 770.7  | 786.9  | 816.3  | 850.4  | 853.7  |
| 35°   | 6357.3  | 5624.2  | 3563.1 | 1026.5 | 713.7  | 707.1  | 726.6  | 733.1  | 760.9  | 798.4  | 801.6  |
| 37.5° | 6261.2  | 5438.5  | 3089.0 | 827.7  | 685.9  | 676.2  | 687.6  | 687.6  | 726.6  | 782.1  | 790.1  |
| 40°   | 6267.7  | 5335.8  | 2615.0 | 747.7  | 663.0  | 650.1  | 651.7  | 651.7  | 702.2  | 762.5  | 767.4  |
| 42.5° | 6445.2  | 5361.9  | 2194.6 | 716.8  | 645.3  | 630.5  | 622.3  | 627.2  | 669.6  | 708.8  | 711.9  |
| 45°   | 6862.4  | 5546.0  | 1800.4 | 697.4  | 627.2  | 622.3  | 604.5  | 602.9  | 619.1  | 637.1  | 637.1  |
| 47.5° | 7546.8  | 5909.3  | 1533.1 | 684.2  | 612.6  | 610.9  | 589.7  | 568.5  | 567.0  | 573.5  | 573.5  |
| 50°   | 8659.5  | 6534.9  | 1353.9 | 669.6  | 602.9  | 589.7  | 565.4  | 532.8  | 521.3  | 526.2  | 526.2  |
| 52.5° | 10327.9 | 7651.0  | 1285.5 | 650.1  | 581.7  | 560.5  | 532.8  | 500.1  | 490.5  | 492.0  | 492.0  |
| 55°   | 12515.9 | 9364.9  | 1275.8 | 627.2  | 558.8  | 524.6  | 501.9  | 477.4  | 466.0  | 469.3  | 469.3  |
| 57.5° | 15189.5 | 11735.5 | 1450.0 | 591.4  | 527.8  | 488.8  | 475.7  | 459.5  | 451.3  | 456.2  | 454.5  |
| 60°   | 18439.9 | 14837.7 | 2150.6 | 554.0  | 496.9  | 456.2  | 456.2  | 443.1  | 436.7  | 441.5  | 439.9  |
| 62.5° | 22184.0 | 18400.8 | 3023.9 | 526.2  | 464.3  | 430.1  | 436.7  | 430.1  | 423.6  | 426.9  | 425.3  |
| 65°   | 25504.3 | 20722.6 | 2831.6 | 505.0  | 431.7  | 405.7  | 417.2  | 413.8  | 409.0  | 412.2  | 410.5  |
| 67.5° | 25600.4 | 19862.2 | 1590.2 | 482.3  | 400.9  | 381.2  | 397.5  | 396.0  | 392.6  | 396.0  | 394.3  |
| 70°   | 22847.0 | 16771.5 | 896.1  | 439.9  | 368.2  | 352.0  | 374.8  | 373.1  | 369.8  | 376.4  | 374.8  |
| 72.5° | 18304.7 | 12170.5 | 655.0  | 387.8  | 335.6  | 321.0  | 347.0  | 345.4  | 345.4  | 355.2  | 350.2  |
| 75°   | 10533.2 | 6262.9  | 523.1  | 332.4  | 301.4  | 290.1  | 312.8  | 314.4  | 317.7  | 330.8  | 321.0  |
| 77.5° | 3002.8  | 1951.8  | 426.9  | 281.9  | 259.0  | 254.2  | 276.9  | 280.2  | 281.9  | 296.5  | 283.4  |
| 80°   | 1116.1  | 899.4   | 352.0  | 236.3  | 211.8  | 213.4  | 234.5  | 239.5  | 241.1  | 255.7  | 239.5  |
| 82.5° | 711.9   | 593.1   | 285.1  | 182.4  | 166.1  | 164.6  | 190.6  | 197.2  | 197.2  | 198.7  | 189.1  |
| 85°   | 415.5   | 355.2   | 215.1  | 132.1  | 117.3  | 112.4  | 141.8  | 153.2  | 148.3  | 144.9  | 138.5  |
| 87.5° | 278.7   | 244.3   | 132.1  | 73.3   | 63.5   | 60.2   | 83.2   | 91.3   | 87.9   | 83.2   | 78.2   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)