

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: P191093

Luminaire Tested: **GAN-AF-05-LED-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191093  
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-05-LED-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 29812.9 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 279  
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

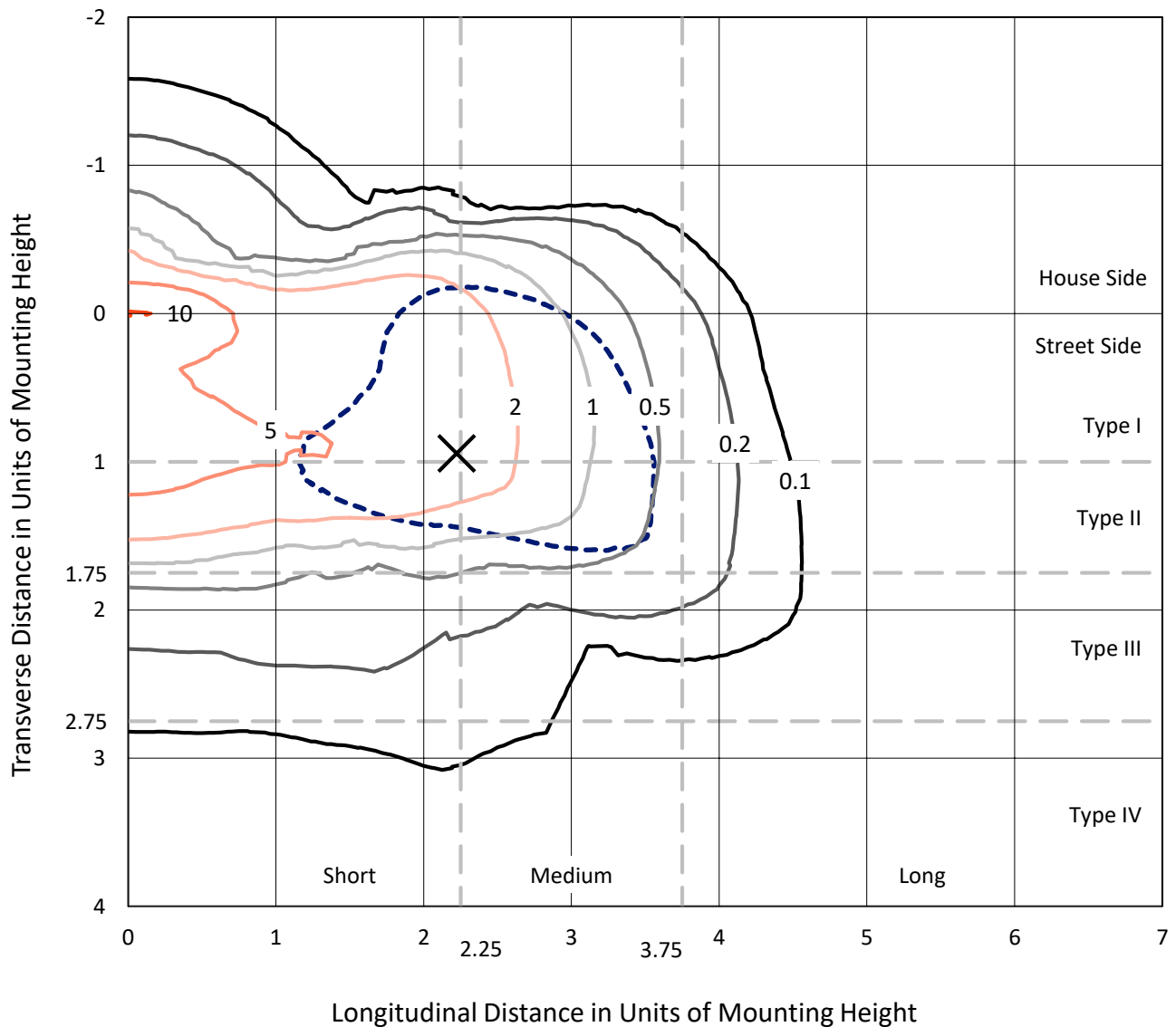


REPORT NUMBER: P191093

CATALOG NUMBER: GAN-AF-05-LED-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

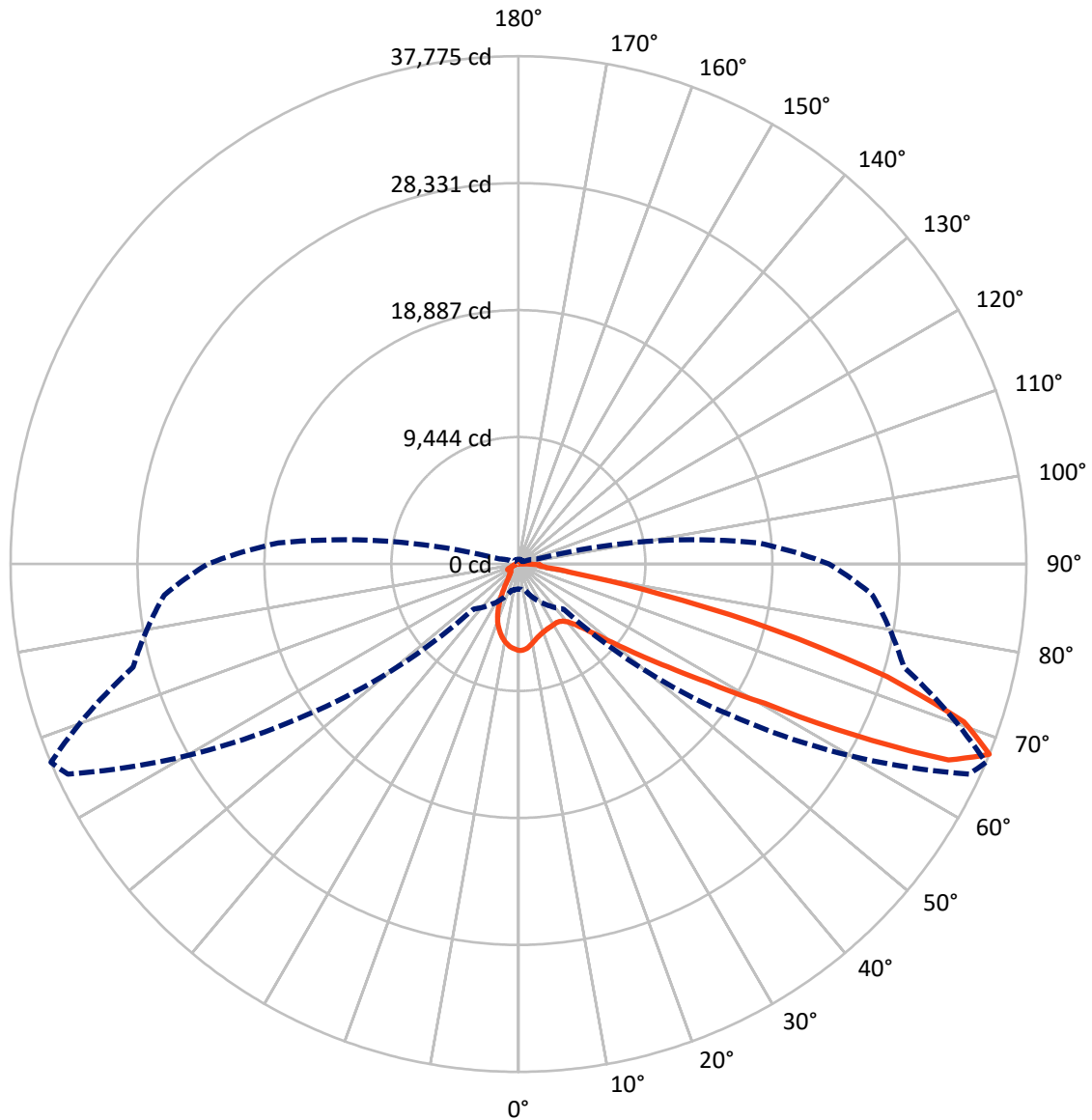
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191093  
CATALOG NUMBER: GAN-AF-05-LED-U-SL2

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P191093

CATALOG NUMBER: GAN-AF-05-LED-U-SL2

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4939.7   | 0.0    | 4939.7  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 24873.2  | 0.0    | 24873.2 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 29812.9  | 0.0    | 29812.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 548.6   | 1.8       |
| 10°-20°   | 1269.4  | 4.3       |
| 20°-30°   | 1720.7  | 5.8       |
| 30°-40°   | 2446.2  | 8.2       |
| 40°-50°   | 4092.6  | 13.7      |
| 50°-60°   | 6474.4  | 21.7      |
| 60°-70°   | 8247.8  | 27.7      |
| 70°-80°   | 4320.2  | 14.5      |
| 80°-90°   | 692.9   | 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°    | 29812.9 | 100.0     |
| 0°-180°   | 29812.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P191093

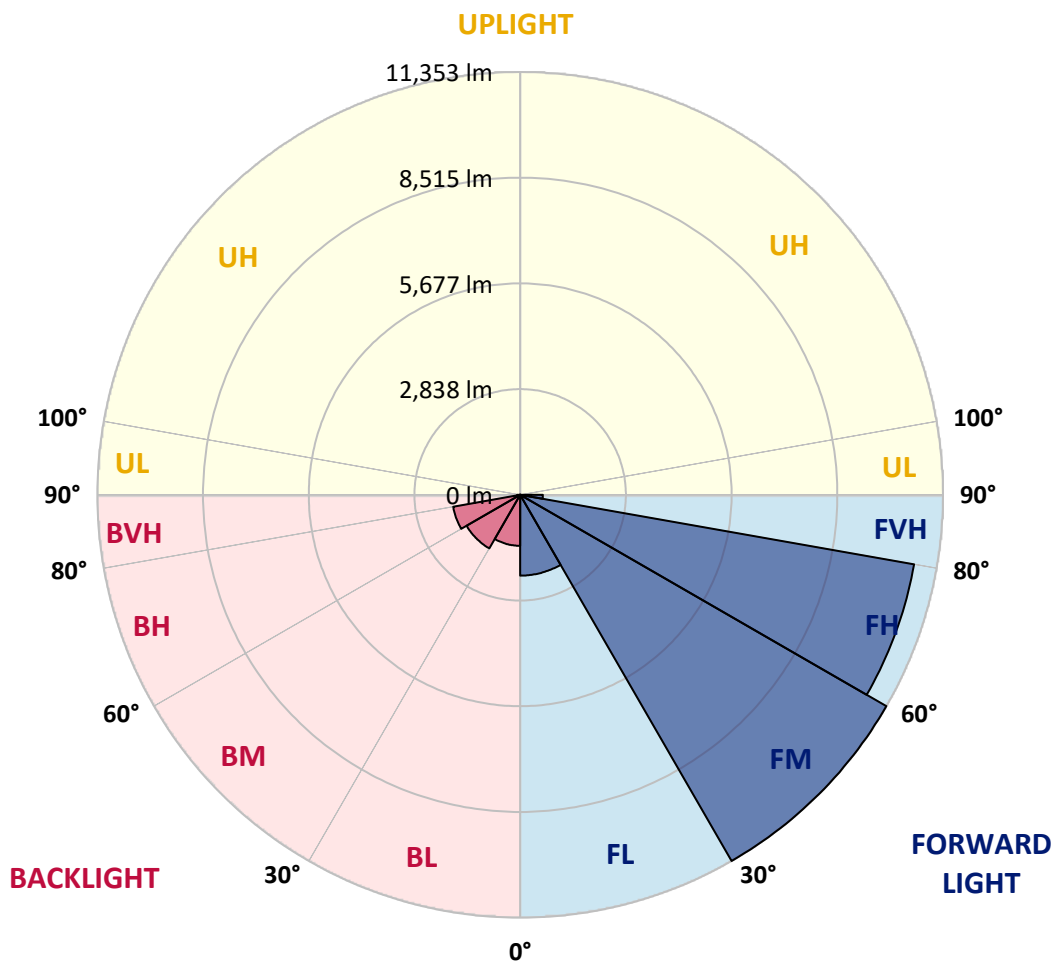
CATALOG NUMBER: GAN-AF-05-LED-U-SL2

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2169.7  | 7.3       |                         |      |          |
| FM (30°-60°)   | 11353.4 | 38.1      |                         |      |          |
| FH (60°-80°)   | 10741.0 | 36.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 609.3   | 2.0       |                         |      | G4/750   |
| BL (0°-30°)    | 1369.1  | 4.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 1659.9  | 5.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 1827.0  | 6.1       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 83.6    | 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: P191093

CATALOG NUMBER: GAN-AF-05-LED-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  | 6430.6  |
| 2.5°  | 6165.9  | 6176.3  | 6208.6  | 6229.2  | 6321.7  | 6361.4  | 6389.4  | 6417.4  | 6421.8  | 6435.0  | 6421.8  |
| 5°    | 5519.0  | 5541.1  | 5601.4  | 5669.0  | 5848.4  | 5989.5  | 6138.0  | 6292.4  | 6320.3  | 6420.2  | 6448.2  |
| 7.5°  | 5017.7  | 5011.8  | 5061.9  | 5142.7  | 5326.5  | 5522.0  | 5782.2  | 6089.5  | 6149.8  | 6374.7  | 6483.5  |
| 10°   | 4651.7  | 4647.3  | 4700.2  | 4783.9  | 4959.0  | 5144.1  | 5438.2  | 5858.6  | 5944.0  | 6302.7  | 6517.3  |
| 12.5° | 4381.1  | 4382.6  | 4435.5  | 4528.2  | 4706.1  | 4892.8  | 5191.2  | 5635.2  | 5744.0  | 6218.8  | 6552.6  |
| 15°   | 4201.8  | 4213.5  | 4256.2  | 4354.7  | 4528.2  | 4714.9  | 5007.4  | 5467.6  | 5589.6  | 6152.7  | 6592.3  |
| 17.5° | 4141.5  | 4160.6  | 4175.3  | 4247.4  | 4395.8  | 4582.5  | 4869.2  | 5344.1  | 5473.5  | 6107.1  | 6627.6  |
| 20°   | 4197.4  | 4219.4  | 4191.4  | 4216.5  | 4310.6  | 4475.2  | 4760.4  | 5247.0  | 5379.4  | 6055.7  | 6632.0  |
| 22.5° | 4437.0  | 4457.6  | 4375.3  | 4303.2  | 4297.3  | 4397.3  | 4670.8  | 5170.6  | 5307.4  | 6017.4  | 6633.4  |
| 25°   | 4858.9  | 4872.2  | 4734.0  | 4566.4  | 4403.2  | 4369.3  | 4607.6  | 5117.7  | 5263.3  | 5983.6  | 6605.5  |
| 27.5° | 5376.4  | 5386.8  | 5228.0  | 4981.0  | 4653.1  | 4435.5  | 4585.5  | 5086.8  | 5238.2  | 5954.2  | 6558.4  |
| 30°   | 6005.6  | 6054.2  | 5841.0  | 5529.4  | 5051.5  | 4631.1  | 4629.6  | 5070.7  | 5210.3  | 5904.3  | 6465.9  |
| 32.5° | 6649.6  | 6670.3  | 6523.2  | 6207.1  | 5588.2  | 4975.1  | 4753.1  | 5082.4  | 5202.9  | 5843.9  | 6348.2  |
| 35°   | 7302.3  | 7328.8  | 7233.3  | 6979.0  | 6321.7  | 5479.3  | 4994.3  | 5151.5  | 5248.6  | 5823.4  | 6265.9  |
| 37.5° | 8147.7  | 8183.0  | 8050.7  | 7756.6  | 7214.2  | 6163.0  | 5395.6  | 5325.0  | 5388.2  | 5882.2  | 6240.9  |
| 40°   | 9484.1  | 9467.9  | 9081.3  | 8643.2  | 8190.4  | 7037.8  | 5968.9  | 5619.1  | 5655.8  | 6071.8  | 6317.3  |
| 42.5° | 11039.6 | 10999.9 | 10333.8 | 9645.8  | 9263.6  | 8096.2  | 6727.5  | 6129.2  | 6121.8  | 6445.3  | 6586.4  |
| 45°   | 12280.4 | 12248.1 | 11648.2 | 10799.9 | 10494.1 | 9301.8  | 7708.1  | 6889.3  | 6834.8  | 7037.8  | 7083.3  |
| 47.5° | 12952.3 | 12953.7 | 12608.3 | 11915.8 | 11908.5 | 10833.8 | 8968.1  | 7988.9  | 7894.8  | 7990.5  | 7941.9  |
| 50°   | 12717.0 | 12747.9 | 12711.2 | 12490.6 | 13199.2 | 12842.0 | 10613.2 | 9522.3  | 9332.7  | 9426.8  | 9240.1  |
| 52.5° | 11579.1 | 11618.8 | 11836.5 | 12174.5 | 13741.8 | 15269.3 | 13030.2 | 11427.7 | 11207.1 | 11173.4 | 10966.0 |
| 55°   | 9562.0  | 9610.5  | 10054.6 | 10973.4 | 13290.4 | 16899.8 | 16843.8 | 13856.5 | 13505.1 | 13186.0 | 13097.9 |
| 57.5° | 6590.8  | 6671.7  | 7386.2  | 8750.5  | 11830.5 | 17392.2 | 21385.2 | 17318.8 | 16604.2 | 15489.8 | 15510.4 |
| 60°   | 3715.2  | 3809.3  | 4651.7  | 5891.0  | 8884.3  | 16857.1 | 24840.1 | 22562.8 | 21054.5 | 18187.6 | 18340.5 |
| 62.5° | 2362.6  | 2464.0  | 3103.5  | 4092.9  | 5330.9  | 13975.6 | 26256.0 | 29853.5 | 27937.8 | 21513.2 | 21663.1 |
| 65°   | 1912.7  | 1956.8  | 2258.2  | 3378.5  | 3870.9  | 8419.7  | 25181.3 | 35859.1 | 35144.6 | 25734.1 | 25034.3 |
| 67.5° | 1867.1  | 1881.8  | 2037.7  | 2835.9  | 3712.2  | 4732.5  | 20085.6 | 36982.3 | 37774.8 | 29675.6 | 26438.3 |
| 70°   | 1845.1  | 1896.6  | 2296.4  | 2706.6  | 3554.9  | 3991.6  | 12070.2 | 33903.8 | 35154.9 | 30706.1 | 24569.6 |
| 72.5° | 895.4   | 892.4   | 1155.5  | 2447.8  | 4004.8  | 4140.0  | 6201.2  | 27432.1 | 28687.6 | 26602.9 | 20190.0 |
| 75°   | 721.9   | 660.1   | 630.8   | 896.8   | 3850.4  | 4275.3  | 3951.9  | 18875.6 | 19784.2 | 17836.2 | 12411.3 |
| 77.5° | 685.1   | 611.6   | 560.2   | 561.6   | 1627.5  | 4534.0  | 3347.6  | 10447.1 | 10711.7 | 8056.6  | 3400.5  |
| 80°   | 567.5   | 499.8   | 463.1   | 521.9   | 788.0   | 4317.9  | 3619.6  | 4728.1  | 4338.5  | 1978.9  | 1132.0  |
| 82.5° | 394.0   | 358.7   | 348.4   | 438.1   | 630.8   | 3077.0  | 4209.1  | 2540.5  | 2130.3  | 990.9   | 698.4   |
| 85°   | 251.4   | 214.6   | 238.1   | 319.1   | 491.0   | 1420.2  | 4335.6  | 1980.3  | 1574.5  | 629.2   | 394.0   |
| 87.5° | 116.1   | 94.1    | 117.6   | 176.5   | 320.5   | 489.6   | 4125.4  | 2224.4  | 1621.6  | 332.3   | 248.5   |
| 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: P191093

CATALOG NUMBER: GAN-AF-05-LED-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6430.6  | 6430.6  | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 |
| 2.5°  | 6433.5  | 6405.6  | 6383.5 | 6342.4 | 6296.8 | 6252.7 | 6213.0 | 6163.0 | 6148.2 | 6135.0 | 6155.6 |
| 5°    | 6454.1  | 6426.2  | 6345.3 | 6218.8 | 6079.2 | 5948.4 | 5817.5 | 5705.8 | 5636.7 | 5598.4 | 5620.5 |
| 7.5°  | 6485.0  | 6445.3  | 6277.6 | 6045.3 | 5794.0 | 5564.6 | 5327.9 | 5138.3 | 4998.6 | 4932.5 | 4951.6 |
| 10°   | 6512.9  | 6436.4  | 6163.0 | 5814.6 | 5447.0 | 5106.0 | 4732.5 | 4423.8 | 4194.4 | 4073.9 | 4103.3 |
| 12.5° | 6524.7  | 6402.6  | 6002.8 | 5526.4 | 5022.2 | 4522.3 | 3972.4 | 3510.8 | 3181.5 | 3060.9 | 3035.9 |
| 15°   | 6536.5  | 6364.4  | 5826.3 | 5198.5 | 4509.1 | 3801.9 | 3031.5 | 2478.7 | 2205.3 | 2145.0 | 2131.7 |
| 17.5° | 6539.3  | 6298.2  | 5626.3 | 4842.8 | 3907.8 | 2944.8 | 2072.9 | 1721.6 | 1723.1 | 1820.0 | 1831.8 |
| 20°   | 6508.5  | 6199.7  | 5383.8 | 4400.2 | 3187.3 | 2036.2 | 1423.1 | 1362.9 | 1584.9 | 1827.4 | 1856.9 |
| 22.5° | 6437.9  | 6068.9  | 5108.9 | 3884.2 | 2362.6 | 1340.8 | 1101.2 | 1167.3 | 1454.0 | 1751.0 | 1784.8 |
| 25°   | 6348.2  | 5910.1  | 4783.9 | 3285.8 | 1564.3 | 958.6  | 923.3  | 1004.1 | 1198.2 | 1396.6 | 1415.8 |
| 27.5° | 6226.2  | 5722.0  | 4419.4 | 2600.8 | 1015.9 | 789.5  | 813.0  | 867.4  | 946.8  | 1035.0 | 1043.8 |
| 30°   | 6068.9  | 5497.0  | 4029.8 | 1896.6 | 767.4  | 710.1  | 743.9  | 773.4  | 807.1  | 857.1  | 861.5  |
| 32.5° | 5888.1  | 5280.9  | 3629.8 | 1309.9 | 680.7  | 668.9  | 695.4  | 710.1  | 736.5  | 767.4  | 770.4  |
| 35°   | 5736.6  | 5075.1  | 3215.2 | 926.2  | 643.9  | 638.0  | 655.7  | 661.5  | 686.6  | 720.4  | 723.3  |
| 37.5° | 5649.9  | 4907.5  | 2787.4 | 746.9  | 619.0  | 610.1  | 620.4  | 620.4  | 655.7  | 705.7  | 713.0  |
| 40°   | 5655.8  | 4814.8  | 2359.6 | 674.8  | 598.3  | 586.6  | 588.1  | 588.1  | 633.6  | 688.0  | 692.4  |
| 42.5° | 5816.0  | 4838.4  | 1980.3 | 646.9  | 582.2  | 569.0  | 561.6  | 566.0  | 604.3  | 639.5  | 642.5  |
| 45°   | 6192.4  | 5004.5  | 1624.5 | 629.2  | 566.0  | 561.6  | 545.4  | 544.0  | 558.6  | 574.8  | 574.8  |
| 47.5° | 6809.9  | 5332.3  | 1383.4 | 617.5  | 552.8  | 551.3  | 532.2  | 513.1  | 511.6  | 517.5  | 517.5  |
| 50°   | 7814.0  | 5896.9  | 1221.7 | 604.3  | 544.0  | 532.2  | 510.1  | 480.8  | 470.5  | 474.9  | 474.9  |
| 52.5° | 9319.5  | 6904.0  | 1159.9 | 586.6  | 524.9  | 505.7  | 480.8  | 451.3  | 442.5  | 444.0  | 444.0  |
| 55°   | 11293.9 | 8450.6  | 1151.1 | 566.0  | 504.3  | 473.4  | 452.9  | 430.8  | 420.4  | 423.4  | 423.4  |
| 57.5° | 13706.5 | 10589.7 | 1308.5 | 533.7  | 476.4  | 441.1  | 429.3  | 414.6  | 407.2  | 411.6  | 410.2  |
| 60°   | 16639.5 | 13388.9 | 1940.6 | 499.8  | 448.4  | 411.6  | 411.6  | 399.9  | 394.0  | 398.4  | 396.9  |
| 62.5° | 20017.9 | 16604.2 | 2728.6 | 474.9  | 419.0  | 388.1  | 394.0  | 388.1  | 382.3  | 385.1  | 383.7  |
| 65°   | 23014.1 | 18699.2 | 2555.1 | 455.7  | 389.6  | 366.1  | 376.3  | 373.4  | 369.0  | 371.9  | 370.5  |
| 67.5° | 23100.9 | 17922.9 | 1434.9 | 435.2  | 361.6  | 344.0  | 358.7  | 357.2  | 354.4  | 357.2  | 355.8  |
| 70°   | 20616.3 | 15134.0 | 808.6  | 396.9  | 332.3  | 317.5  | 338.2  | 336.7  | 333.7  | 339.6  | 338.2  |
| 72.5° | 16517.5 | 10982.2 | 591.1  | 350.0  | 302.9  | 289.6  | 313.1  | 311.7  | 311.7  | 320.5  | 316.1  |
| 75°   | 9504.7  | 5651.4  | 471.9  | 299.9  | 272.0  | 261.7  | 282.2  | 283.8  | 286.7  | 298.5  | 289.6  |
| 77.5° | 2709.5  | 1761.3  | 385.1  | 254.3  | 233.7  | 229.3  | 249.9  | 252.9  | 254.3  | 267.6  | 255.8  |
| 80°   | 1007.1  | 811.5   | 317.5  | 213.2  | 191.1  | 192.6  | 211.8  | 216.1  | 217.6  | 230.8  | 216.1  |
| 82.5° | 642.5   | 535.1   | 257.3  | 164.7  | 150.0  | 148.5  | 172.1  | 177.9  | 177.9  | 179.3  | 170.5  |
| 85°   | 374.9   | 320.5   | 194.1  | 119.1  | 105.9  | 101.5  | 127.9  | 138.2  | 133.8  | 130.8  | 125.0  |
| 87.5° | 251.4   | 220.5   | 119.1  | 66.2   | 57.4   | 54.4   | 75.0   | 82.3   | 79.4   | 75.0   | 70.6   |
| 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)