

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: P193347

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-8030-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-5MQ-8030-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36855 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 374  
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

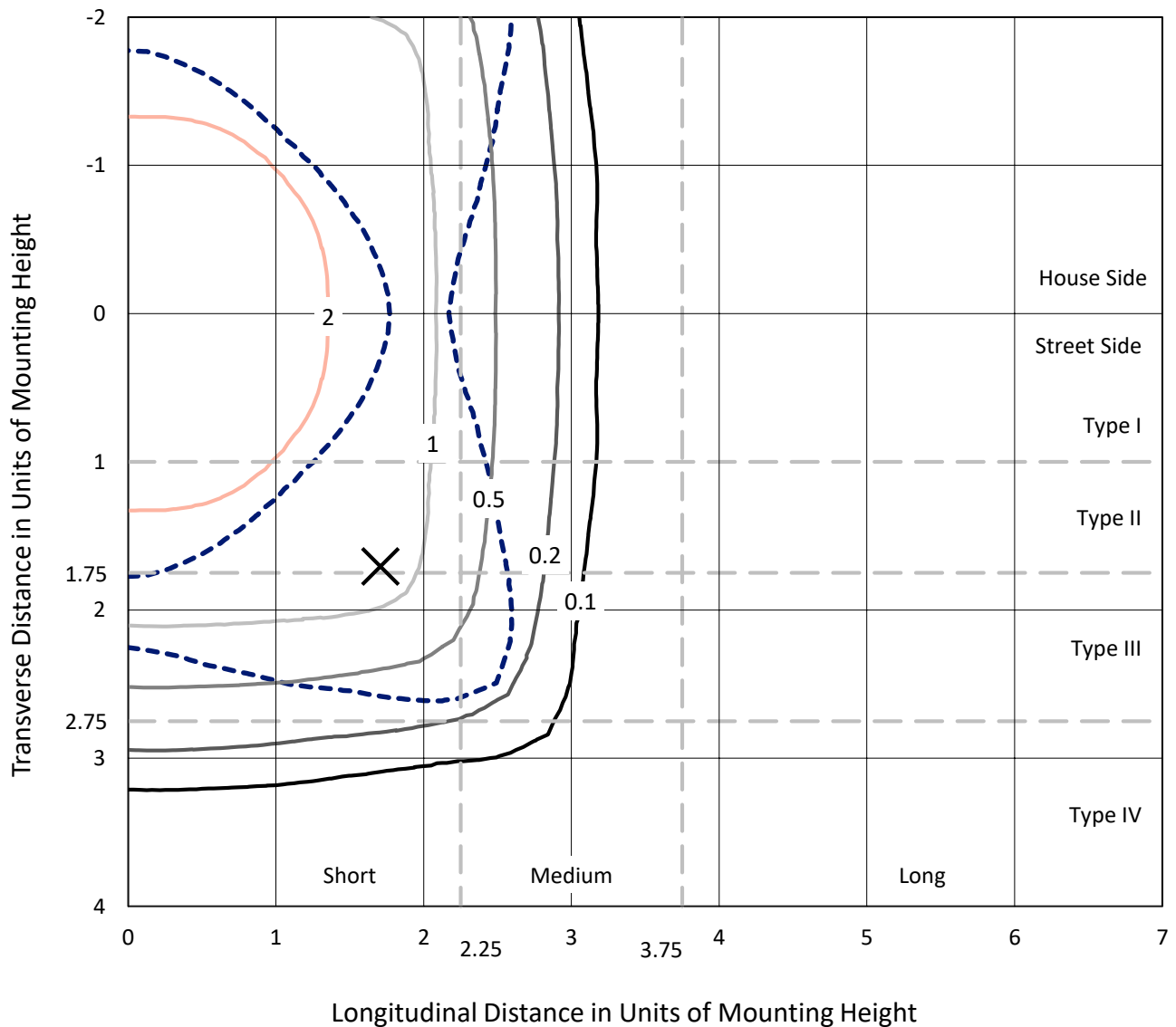


REPORT NUMBER: P193347

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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

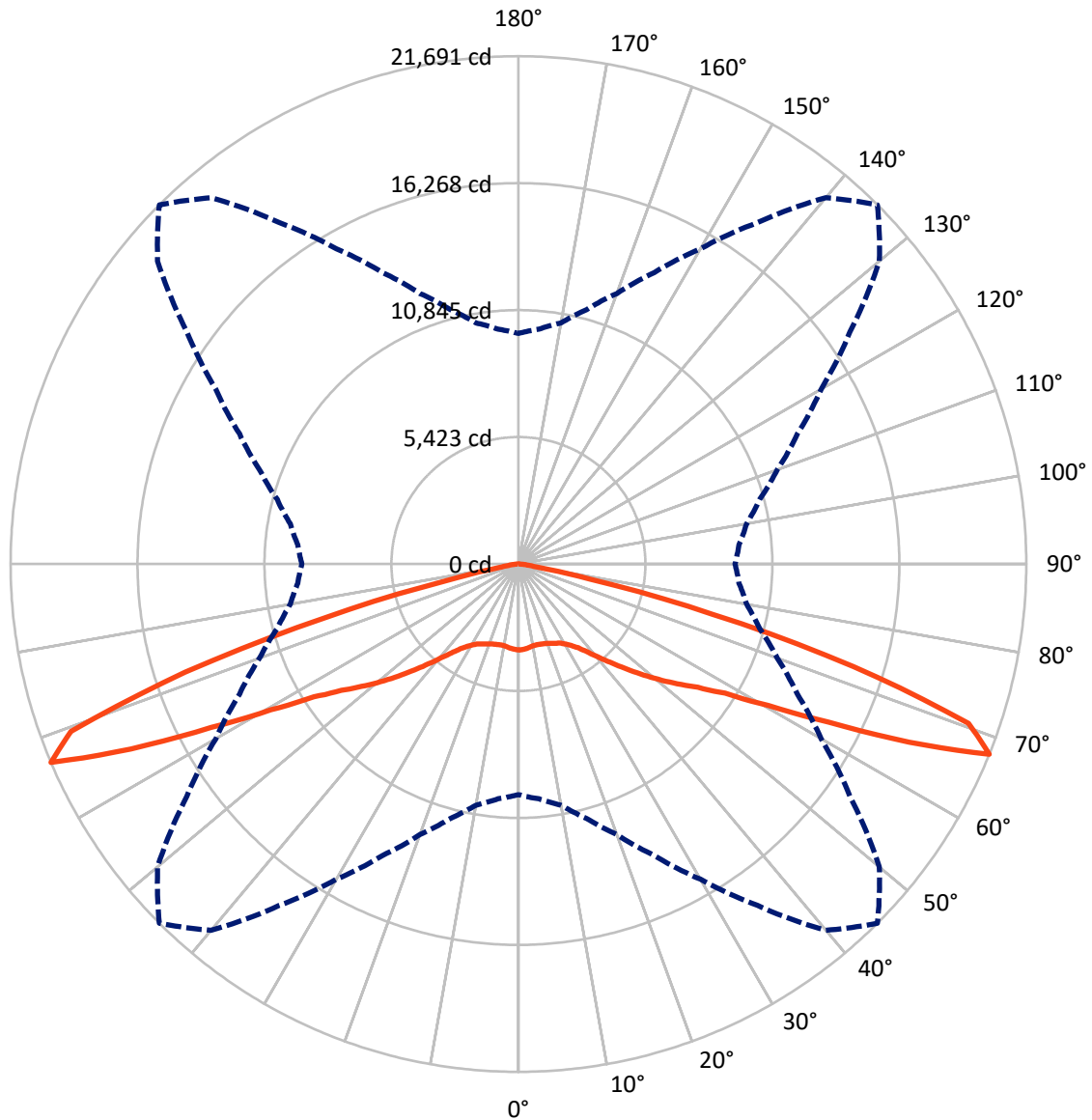


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P193347

CATALOG NUMBER: GAN-AF-09-LED-U-5MQ-8030-800-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GAN-AF-09-LED-U-5MQ-8030-800-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18427.5  | 0.0    | 18427.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18427.5  | 0.0    | 18427.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36855.0  | 0.0    | 36855.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 343.8   | 0.9       |
| 10°-20°   | 997.5   | 2.7       |
| 20°-30°   | 1695.7  | 4.6       |
| 30°-40°   | 2772.0  | 7.5       |
| 40°-50°   | 4948.6  | 13.4      |
| 50°-60°   | 8343.4  | 22.6      |
| 60°-70°   | 12947.7 | 35.1      |
| 70°-80°   | 4549.3  | 12.3      |
| 80°-90°   | 257.1   | 0.7       |
| 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°    | 36855.0 | 100.0     |
| 0°-180°   | 36855.0 | 100.0     |



REPORT NUMBER: P193347

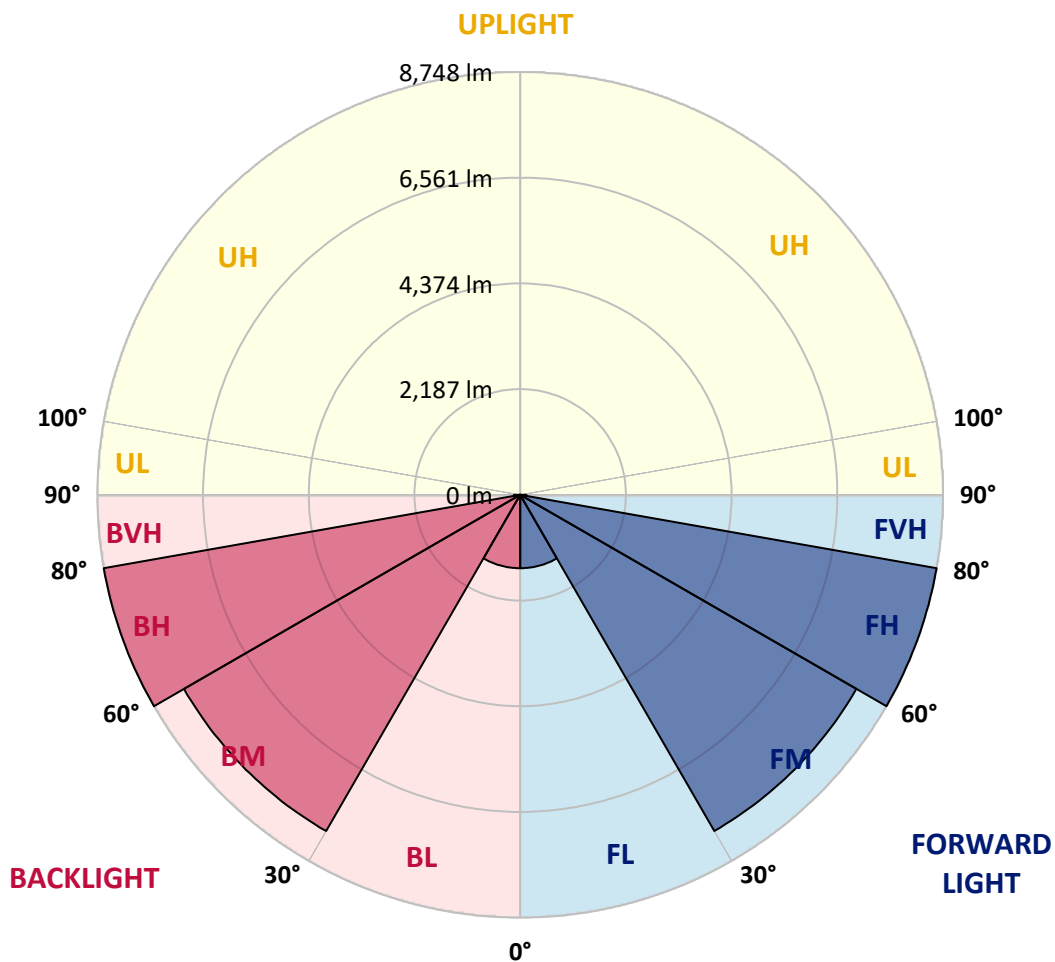
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1518.5 | 4.1       |                         |      |          |
| FM   | (30°-60°)   | 8032.0 | 21.8      |                         |      |          |
| FH   | (60°-80°)   | 8748.5 | 23.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 128.5  | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1518.5 | 4.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 8032.0 | 21.8      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8748.5 | 23.7      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 128.5  | 0.3       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





REPORT NUMBER: P193347

CATALOG NUMBER: GAN-AF-09-LED-U-5MQ-8030-800-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  |
| 2.5°  | 3659.2  | 3662.6  | 3662.6  | 3662.6  | 3660.9  | 3660.9  | 3657.5  | 3660.9  | 3659.2  | 3654.1  | 3655.8  |
| 5°    | 3628.7  | 3632.1  | 3632.1  | 3630.4  | 3635.5  | 3633.8  | 3628.7  | 3632.1  | 3630.4  | 3627.0  | 3628.7  |
| 7.5°  | 3584.6  | 3589.7  | 3589.7  | 3588.0  | 3593.1  | 3591.4  | 3588.0  | 3589.7  | 3589.7  | 3584.6  | 3584.6  |
| 10°   | 3535.5  | 3538.9  | 3538.9  | 3537.2  | 3545.6  | 3545.6  | 3543.9  | 3549.0  | 3550.7  | 3545.6  | 3542.3  |
| 12.5° | 3489.7  | 3494.8  | 3494.8  | 3501.6  | 3510.0  | 3513.4  | 3521.9  | 3528.7  | 3535.5  | 3533.8  | 3527.0  |
| 15°   | 3462.6  | 3466.0  | 3472.8  | 3481.2  | 3494.8  | 3506.7  | 3520.2  | 3535.5  | 3549.0  | 3552.4  | 3542.3  |
| 17.5° | 3445.6  | 3450.7  | 3460.9  | 3472.8  | 3491.4  | 3511.7  | 3532.1  | 3552.4  | 3571.1  | 3577.8  | 3566.0  |
| 20°   | 3440.6  | 3444.0  | 3454.1  | 3474.5  | 3499.9  | 3530.4  | 3559.2  | 3582.9  | 3608.4  | 3616.8  | 3608.4  |
| 22.5° | 3450.7  | 3457.5  | 3469.4  | 3493.1  | 3527.0  | 3566.0  | 3599.9  | 3632.1  | 3664.3  | 3679.5  | 3667.7  |
| 25°   | 3496.5  | 3503.3  | 3518.5  | 3549.0  | 3586.3  | 3627.0  | 3666.0  | 3703.3  | 3732.1  | 3747.3  | 3738.9  |
| 27.5° | 3581.2  | 3589.7  | 3608.4  | 3638.9  | 3679.5  | 3723.6  | 3766.0  | 3796.5  | 3820.2  | 3825.3  | 3815.1  |
| 30°   | 3708.3  | 3727.0  | 3749.0  | 3782.9  | 3830.4  | 3867.7  | 3910.0  | 3937.2  | 3966.0  | 3966.0  | 3957.5  |
| 32.5° | 3906.6  | 3925.3  | 3949.0  | 3981.2  | 4018.5  | 4059.2  | 4096.5  | 4120.2  | 4150.7  | 4152.4  | 4132.1  |
| 35°   | 4203.2  | 4211.7  | 4232.1  | 4252.4  | 4286.3  | 4321.9  | 4354.1  | 4369.3  | 4394.8  | 4396.5  | 4377.8  |
| 37.5° | 4594.8  | 4596.5  | 4610.0  | 4616.8  | 4647.3  | 4686.3  | 4716.8  | 4727.0  | 4750.7  | 4747.3  | 4728.7  |
| 40°   | 5050.7  | 5059.1  | 5064.2  | 5074.4  | 5106.6  | 5143.9  | 5176.1  | 5181.2  | 5206.6  | 5201.5  | 5177.8  |
| 42.5° | 5577.8  | 5581.2  | 5610.0  | 5625.2  | 5655.7  | 5674.4  | 5715.1  | 5720.1  | 5750.7  | 5737.1  | 5710.0  |
| 45°   | 6169.3  | 6199.8  | 6226.9  | 6257.4  | 6289.6  | 6311.6  | 6343.9  | 6337.1  | 6357.4  | 6337.1  | 6321.8  |
| 47.5° | 6791.3  | 6813.3  | 6874.3  | 6921.8  | 6974.3  | 6993.0  | 7038.7  | 7018.4  | 7038.7  | 7009.9  | 7004.8  |
| 50°   | 7476.0  | 7515.0  | 7567.5  | 7621.8  | 7677.7  | 7708.2  | 7767.5  | 7742.1  | 7769.2  | 7742.1  | 7726.9  |
| 52.5° | 8150.6  | 8160.7  | 8276.0  | 8355.6  | 8433.6  | 8469.2  | 8504.8  | 8492.9  | 8494.6  | 8492.9  | 8477.7  |
| 55°   | 8791.2  | 8815.0  | 8930.2  | 9038.7  | 9174.3  | 9274.3  | 9335.3  | 9328.5  | 9313.2  | 9298.0  | 9272.6  |
| 57.5° | 9513.2  | 9537.0  | 9669.2  | 9803.1  | 9957.3  | 10099.7 | 10223.4 | 10350.5 | 10399.6 | 10413.2 | 10357.3 |
| 60°   | 10489.5 | 10487.8 | 10664.0 | 10826.7 | 11047.1 | 11258.9 | 11530.1 | 11806.4 | 12123.3 | 12270.8 | 12075.9 |
| 62.5° | 11482.7 | 11523.3 | 11777.6 | 12065.7 | 12519.9 | 12962.3 | 13462.3 | 13953.8 | 14455.4 | 14863.9 | 14430.0 |
| 65°   | 11364.0 | 11519.9 | 11897.9 | 12550.4 | 13389.4 | 14386.0 | 15463.9 | 16604.5 | 17635.0 | 18343.4 | 17548.6 |
| 67.5° | 9848.8  | 10070.8 | 10455.6 | 11248.8 | 12297.9 | 13735.1 | 15545.2 | 17801.1 | 20423.0 | 21690.8 | 20119.7 |
| 70°   | 7138.7  | 7389.6  | 7793.0  | 8567.5  | 9606.5  | 10972.5 | 12938.5 | 15646.9 | 19118.0 | 20395.9 | 18665.5 |
| 72.5° | 3552.4  | 3688.0  | 3937.2  | 4430.4  | 5216.8  | 6325.2  | 8108.2  | 10711.5 | 13782.6 | 14955.4 | 13374.1 |
| 75°   | 1206.7  | 1269.4  | 1311.8  | 1472.8  | 1722.0  | 2157.6  | 3044.0  | 4682.9  | 7143.8  | 8564.1  | 7042.1  |
| 77.5° | 696.6   | 698.3   | 727.1   | 755.9   | 798.3   | 845.7   | 964.4   | 1266.1  | 2189.8  | 3110.1  | 2266.0  |
| 80°   | 450.8   | 449.1   | 472.9   | 494.9   | 523.7   | 547.4   | 554.2   | 586.4   | 676.2   | 801.7   | 716.9   |
| 82.5° | 233.9   | 262.7   | 315.2   | 344.1   | 398.3   | 408.5   | 394.9   | 383.0   | 405.1   | 420.3   | 430.5   |
| 85°   | 128.8   | 111.9   | 167.8   | 216.9   | 240.7   | 244.1   | 244.1   | 230.5   | 239.0   | 233.9   | 254.2   |
| 87.5° | 59.3    | 54.2    | 66.1    | 106.8   | 113.6   | 96.6    | 101.7   | 89.8    | 64.4    | 62.7    | 71.2    |
| 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: P193347

CATALOG NUMBER: GAN-AF-09-LED-U-5MQ-8030-800-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  | 3672.8  |
| 2.5°  | 3655.8  | 3657.5  | 3657.5  | 3662.6  | 3664.3  | 3667.7  | 3671.1  | 3672.8  |
| 5°    | 3627.0  | 3632.1  | 3628.7  | 3633.8  | 3633.8  | 3637.2  | 3637.2  | 3638.9  |
| 7.5°  | 3584.6  | 3589.7  | 3589.7  | 3589.7  | 3588.0  | 3593.1  | 3593.1  | 3593.1  |
| 10°   | 3540.6  | 3543.9  | 3542.3  | 3538.9  | 3535.5  | 3540.6  | 3538.9  | 3537.2  |
| 12.5° | 3527.0  | 3518.5  | 3511.7  | 3508.4  | 3501.6  | 3503.3  | 3498.2  | 3498.2  |
| 15°   | 3535.5  | 3520.2  | 3508.4  | 3503.3  | 3496.5  | 3493.1  | 3489.7  | 3491.4  |
| 17.5° | 3557.5  | 3538.9  | 3523.6  | 3515.1  | 3506.7  | 3501.6  | 3494.8  | 3496.5  |
| 20°   | 3596.5  | 3574.5  | 3552.4  | 3535.5  | 3520.2  | 3511.7  | 3506.7  | 3505.0  |
| 22.5° | 3654.1  | 3621.9  | 3589.7  | 3564.3  | 3543.9  | 3532.1  | 3527.0  | 3523.6  |
| 25°   | 3720.2  | 3684.6  | 3647.3  | 3618.5  | 3598.2  | 3582.9  | 3572.8  | 3572.8  |
| 27.5° | 3803.3  | 3774.4  | 3740.6  | 3706.7  | 3688.0  | 3672.8  | 3666.0  | 3662.6  |
| 30°   | 3942.2  | 3915.1  | 3888.0  | 3855.8  | 3832.1  | 3816.8  | 3805.0  | 3794.8  |
| 32.5° | 4120.2  | 4098.2  | 4076.1  | 4052.4  | 4030.4  | 4010.0  | 3991.4  | 3982.9  |
| 35°   | 4371.0  | 4354.1  | 4338.8  | 4311.7  | 4303.2  | 4291.4  | 4281.2  | 4272.7  |
| 37.5° | 4716.8  | 4710.0  | 4710.0  | 4681.2  | 4674.4  | 4669.3  | 4659.2  | 4660.9  |
| 40°   | 5171.0  | 5177.8  | 5169.3  | 5159.1  | 5154.1  | 5140.5  | 5140.5  | 5152.4  |
| 42.5° | 5708.3  | 5713.4  | 5732.0  | 5715.1  | 5733.7  | 5716.8  | 5706.6  | 5715.1  |
| 45°   | 6332.0  | 6350.6  | 6387.9  | 6371.0  | 6382.8  | 6354.0  | 6318.4  | 6320.1  |
| 47.5° | 7032.0  | 7048.9  | 7064.2  | 7052.3  | 7054.0  | 7006.5  | 6959.1  | 6947.2  |
| 50°   | 7759.1  | 7765.8  | 7774.3  | 7757.4  | 7760.8  | 7708.2  | 7654.0  | 7655.7  |
| 52.5° | 8477.7  | 8509.9  | 8543.8  | 8498.0  | 8487.8  | 8428.5  | 8352.3  | 8321.8  |
| 55°   | 9299.7  | 9345.4  | 9306.5  | 9226.8  | 9147.1  | 9067.5  | 8967.5  | 8950.5  |
| 57.5° | 10313.2 | 10235.2 | 10113.2 | 9962.4  | 9852.2  | 9740.3  | 9638.7  | 9596.3  |
| 60°   | 11723.3 | 11430.1 | 11209.8 | 10986.1 | 10845.4 | 10708.1 | 10574.2 | 10553.9 |
| 62.5° | 13716.5 | 13209.7 | 12770.8 | 12308.1 | 11930.1 | 11635.2 | 11399.6 | 11333.5 |
| 65°   | 16214.7 | 15016.4 | 13977.5 | 13008.0 | 12165.7 | 11530.1 | 11130.1 | 10953.9 |
| 67.5° | 17289.2 | 14923.2 | 13141.9 | 11765.7 | 10664.0 | 9894.6  | 9462.4  | 9247.1  |
| 70°   | 15192.7 | 12375.8 | 10438.6 | 9060.7  | 8057.4  | 7237.0  | 6845.5  | 6615.0  |
| 72.5° | 10452.2 | 7872.6  | 6225.2  | 5081.2  | 4279.5  | 3593.1  | 3321.9  | 3301.6  |
| 75°   | 4693.1  | 3108.4  | 2142.3  | 1650.8  | 1389.8  | 1208.4  | 1152.5  | 1110.1  |
| 77.5° | 1313.5  | 971.2   | 866.1   | 810.1   | 755.9   | 693.2   | 669.5   | 674.6   |
| 80°   | 639.0   | 603.4   | 579.6   | 544.0   | 494.9   | 442.4   | 418.6   | 428.8   |
| 82.5° | 423.7   | 418.6   | 433.9   | 408.5   | 337.3   | 286.4   | 240.7   | 220.3   |
| 85°   | 257.6   | 261.0   | 266.1   | 267.8   | 227.1   | 159.3   | 108.5   | 122.0   |
| 87.5° | 101.7   | 116.9   | 127.1   | 132.2   | 123.7   | 76.3    | 61.0    | 62.7    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)