

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: P267357

Luminaire Tested: **GAN-AF-10-LED-U-T4W-7027-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-7027-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33490.1 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

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

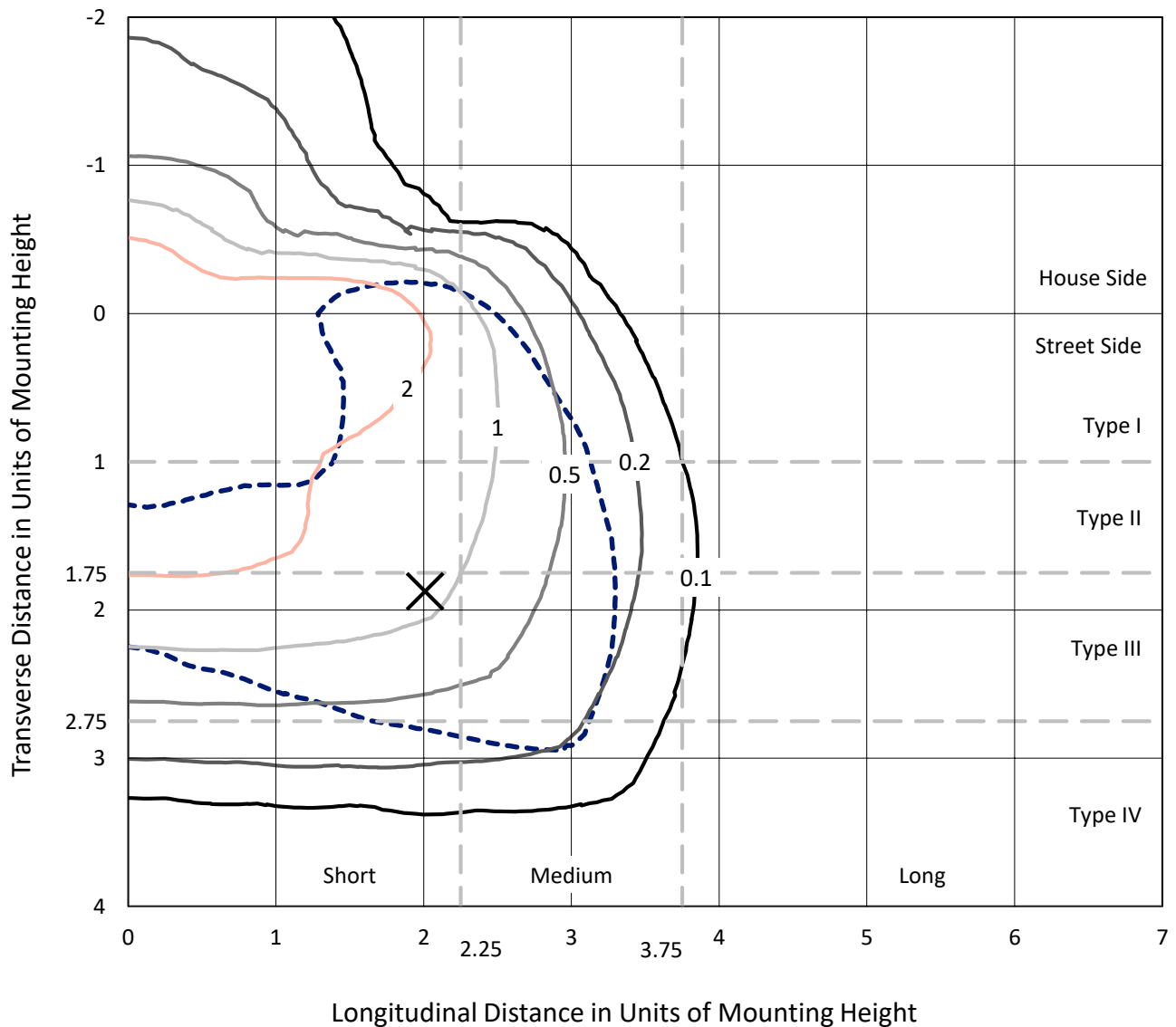


REPORT NUMBER: P267357

CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7027-600-ADJ

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

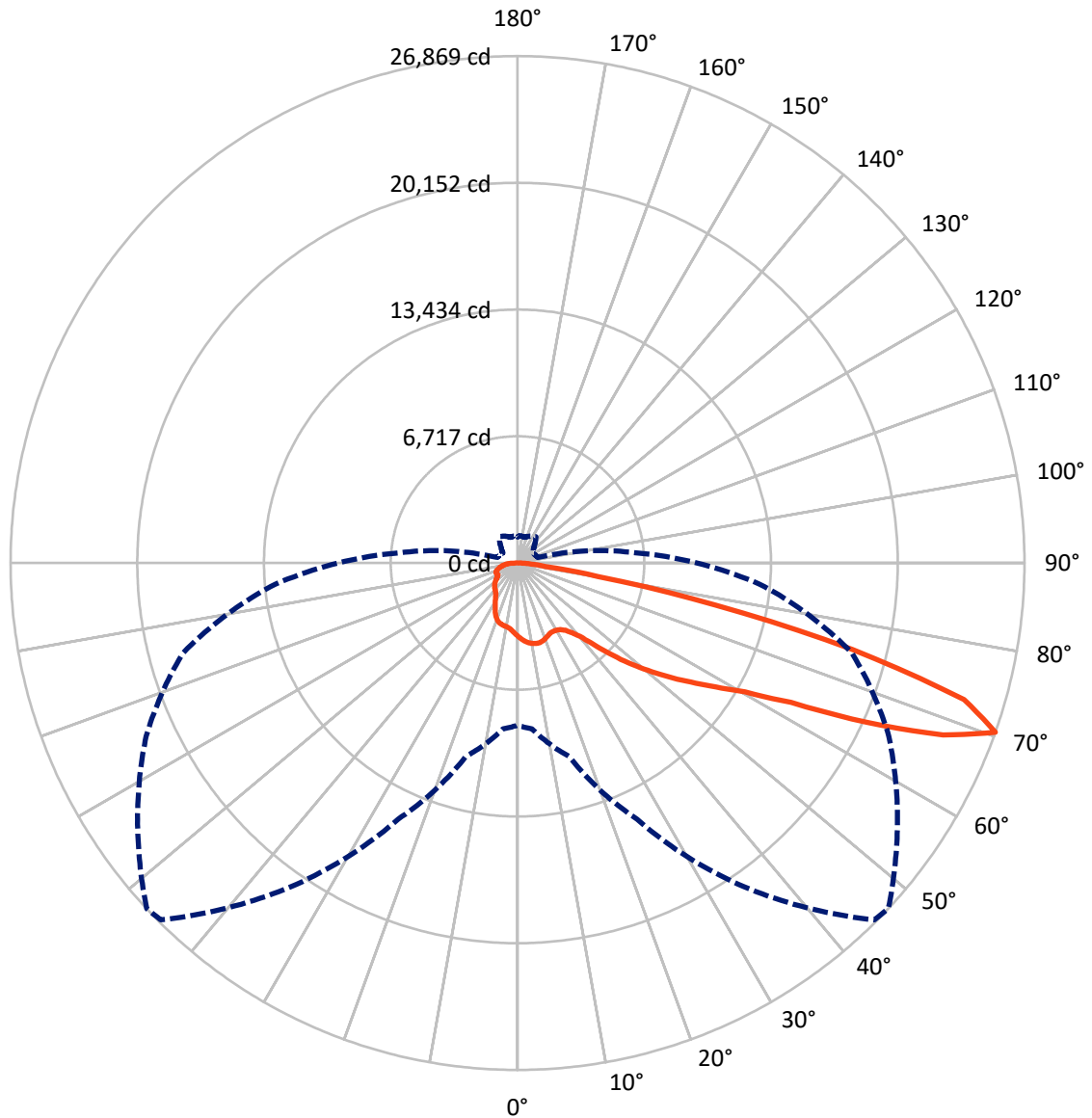


Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P267357

CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7027-600-ADJ

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P267357

CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7027-600-ADJ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6986.7   | 0.0    | 6986.7  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 26503.4  | 0.0    | 26503.4 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 33490.1  | 0.0    | 33490.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 372.3   | 1.1       |
| 10°-20°   | 1092.3  | 3.3       |
| 20°-30°   | 1613.1  | 4.8       |
| 30°-40°   | 2344.6  | 7.0       |
| 40°-50°   | 4219.4  | 12.6      |
| 50°-60°   | 7309.7  | 21.8      |
| 60°-70°   | 10433.1 | 31.2      |
| 70°-80°   | 5355.8  | 16.0      |
| 80°-90°   | 749.8   | 2.2       |
| 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°    | 33490.1 | 100.0     |
| 0°-180°   | 33490.1 | 100.0     |



REPORT NUMBER: P267357

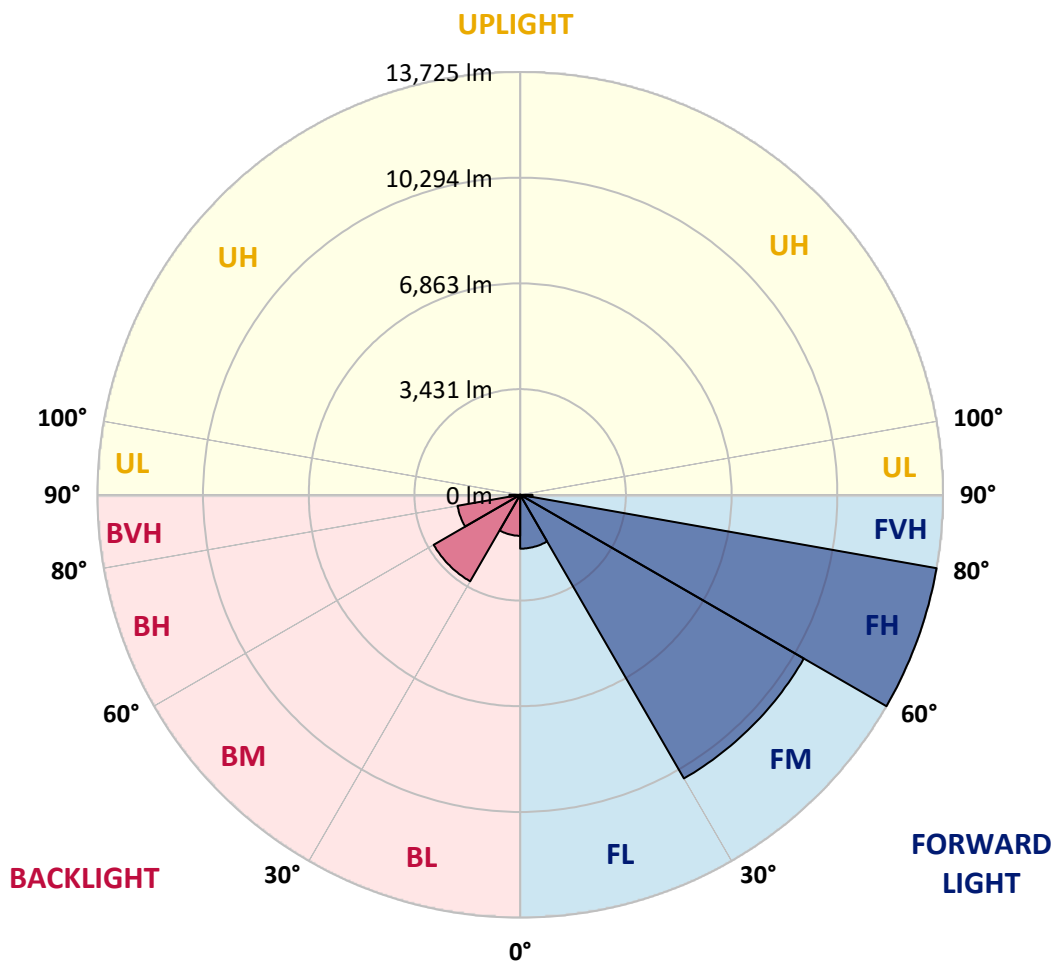
CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7027-600-ADJ

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1747.4  | 5.2       |                         |      |         |
| FM (30°-60°)   | 10630.7 | 31.7      |                         |      |         |
| FH (60°-80°)   | 13725.2 | 41.0      |                         |      | G5      |
| FVH (80°-90°)  | 400.1   | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1330.3  | 4.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 3243.0  | 9.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 2063.7  | 6.2       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 349.7   | 1.0       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P267357

CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7027-600-ADJ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  | 3885.9  |
| 2.5°  | 4114.0  | 4105.9  | 4102.6  | 4096.1  | 4087.9  | 4047.3  | 4039.0  | 4009.8  | 3969.0  | 3926.6  | 3882.7  |
| 5°    | 4384.4  | 4382.8  | 4365.0  | 4332.3  | 4280.2  | 4190.6  | 4169.5  | 4097.7  | 4001.6  | 3908.7  | 3815.8  |
| 7.5°  | 4622.4  | 4607.6  | 4573.5  | 4508.4  | 4417.1  | 4294.8  | 4265.5  | 4166.1  | 4034.2  | 3907.1  | 3781.7  |
| 10°   | 4796.7  | 4788.5  | 4713.5  | 4623.9  | 4505.0  | 4369.7  | 4335.6  | 4224.8  | 4079.8  | 3918.4  | 3762.1  |
| 12.5° | 4896.0  | 4879.8  | 4793.4  | 4685.9  | 4544.2  | 4412.1  | 4377.9  | 4265.5  | 4102.6  | 3918.4  | 3734.3  |
| 15°   | 4889.6  | 4878.2  | 4791.7  | 4674.5  | 4531.1  | 4415.3  | 4384.4  | 4272.0  | 4097.7  | 3902.1  | 3698.5  |
| 17.5° | 4759.2  | 4764.2  | 4690.8  | 4575.1  | 4457.7  | 4369.7  | 4342.0  | 4237.8  | 4065.1  | 3869.5  | 3656.1  |
| 20°   | 4531.1  | 4553.9  | 4505.0  | 4402.4  | 4337.1  | 4276.9  | 4259.0  | 4171.0  | 4014.6  | 3822.4  | 3610.6  |
| 22.5° | 4303.1  | 4324.3  | 4304.6  | 4218.4  | 4208.5  | 4172.6  | 4162.8  | 4099.3  | 3970.6  | 3793.1  | 3582.8  |
| 25°   | 4135.2  | 4154.8  | 4151.4  | 4076.5  | 4105.9  | 4104.3  | 4096.1  | 4065.1  | 3960.8  | 3793.1  | 3587.7  |
| 27.5° | 4089.5  | 4096.1  | 4089.5  | 4021.2  | 4061.9  | 4094.5  | 4087.9  | 4083.1  | 3990.2  | 3840.3  | 3649.6  |
| 30°   | 4246.0  | 4236.1  | 4185.7  | 4047.3  | 4084.7  | 4130.2  | 4123.8  | 4127.1  | 4078.1  | 3964.1  | 3788.2  |
| 32.5° | 4870.0  | 4826.1  | 4666.3  | 4276.9  | 4177.6  | 4202.0  | 4205.2  | 4259.0  | 4267.2  | 4154.8  | 4003.1  |
| 35°   | 5803.6  | 5754.7  | 5547.8  | 4892.8  | 4466.0  | 4381.3  | 4381.3  | 4462.7  | 4511.6  | 4428.5  | 4337.1  |
| 37.5° | 6792.5  | 6738.8  | 6628.1  | 5746.5  | 5072.0  | 4692.3  | 4684.2  | 4741.3  | 4811.3  | 4830.8  | 4853.7  |
| 40°   | 7916.9  | 7859.8  | 7890.7  | 6704.6  | 5917.7  | 5231.6  | 5116.0  | 5075.2  | 5264.2  | 5389.7  | 5572.2  |
| 42.5° | 9146.9  | 9120.9  | 9132.3  | 7771.7  | 6880.6  | 6038.1  | 5873.7  | 5663.5  | 5891.5  | 6114.9  | 6497.7  |
| 45°   | 10285.9 | 10308.6 | 10297.2 | 8913.9  | 7952.6  | 7022.3  | 6848.0  | 6440.7  | 6663.8  | 7046.8  | 7670.7  |
| 47.5° | 11282.9 | 11188.4 | 11335.2 | 10161.9 | 9153.4  | 8123.7  | 7908.7  | 7362.9  | 7589.3  | 8061.7  | 9117.5  |
| 50°   | 12493.4 | 12480.5 | 12265.4 | 11827.2 | 10605.2 | 9230.1  | 8948.1  | 8316.0  | 8667.9  | 9324.5  | 10940.7 |
| 52.5° | 13765.9 | 13529.7 | 13332.6 | 13122.4 | 12144.8 | 10364.0 | 10018.5 | 9265.8  | 9935.6  | 10761.5 | 13163.1 |
| 55°   | 14026.8 | 13920.8 | 14165.3 | 14518.8 | 13629.2 | 11542.1 | 11139.5 | 10456.9 | 11362.8 | 12403.8 | 15726.1 |
| 57.5° | 14584.0 | 14582.2 | 15087.4 | 15718.0 | 15157.5 | 12791.7 | 12386.0 | 11895.5 | 12967.7 | 14285.7 | 18447.1 |
| 60°   | 14960.4 | 15066.3 | 16004.7 | 17228.2 | 16658.0 | 14235.3 | 13862.1 | 13555.9 | 14792.5 | 16389.1 | 20982.3 |
| 62.5° | 15157.5 | 15300.8 | 16581.5 | 17840.9 | 18779.3 | 16638.4 | 16265.4 | 15823.9 | 17207.2 | 18696.2 | 22464.9 |
| 65°   | 14337.8 | 14619.7 | 16491.9 | 18370.3 | 20636.9 | 20534.1 | 20366.4 | 19590.7 | 20226.1 | 20519.4 | 21928.9 |
| 67.5° | 12069.8 | 12358.3 | 14538.3 | 17876.7 | 21963.0 | 24291.3 | 24327.2 | 23002.5 | 22083.7 | 20675.8 | 18437.3 |
| 70°   | 8599.5  | 8825.9  | 10629.6 | 14988.0 | 20952.8 | 26746.7 | 26868.8 | 24574.8 | 21713.8 | 18336.3 | 12881.2 |
| 72.5° | 4083.1  | 4221.6  | 5929.1  | 9754.6  | 16627.1 | 24506.4 | 24742.6 | 22567.5 | 18463.4 | 13575.4 | 7027.3  |
| 75°   | 1500.6  | 1543.0  | 2004.1  | 4149.8  | 9643.8  | 18072.3 | 18350.8 | 16177.3 | 12239.3 | 6758.4  | 2676.9  |
| 77.5° | 899.4   | 927.1   | 1124.1  | 1751.5  | 3793.1  | 10329.8 | 10742.0 | 8798.3  | 5349.0  | 2515.7  | 1316.5  |
| 80°   | 629.0   | 648.4   | 806.5   | 1090.1  | 1792.3  | 3936.5  | 4303.1  | 3591.0  | 2131.0  | 1591.8  | 958.0   |
| 82.5° | 425.3   | 435.0   | 567.0   | 736.4   | 1191.1  | 1406.0  | 1516.9  | 1596.6  | 1437.1  | 1184.5  | 607.8   |
| 85°   | 278.7   | 288.4   | 384.6   | 485.5   | 757.6   | 726.6   | 743.0   | 940.0   | 1049.3  | 804.9   | 337.3   |
| 87.5° | 159.7   | 166.1   | 231.4   | 259.0   | 371.4   | 307.8   | 311.3   | 495.3   | 671.3   | 542.5   | 205.4   |
| 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: P267357

CATALOG NUMBER: GAN-AF-10-LED-U-T4W-7027-600-ADJ

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3885.9  | 3885.9  | 3885.9 | 3885.9 | 3885.9 | 3885.9 | 3885.9 | 3885.9 | 3885.9 | 3885.9 | 3885.9 |
| 2.5°  | 3871.2  | 3850.0  | 3802.9 | 3773.5 | 3745.8 | 3739.3 | 3727.8 | 3726.2 | 3724.6 | 3724.6 | 3719.7 |
| 5°    | 3784.9  | 3749.0  | 3675.8 | 3635.0 | 3600.8 | 3597.5 | 3595.8 | 3604.0 | 3607.2 | 3610.6 | 3605.6 |
| 7.5°  | 3729.5  | 3680.5  | 3589.4 | 3530.7 | 3489.9 | 3480.3 | 3496.6 | 3533.9 | 3558.4 | 3568.2 | 3563.2 |
| 10°   | 3695.3  | 3635.0  | 3529.1 | 3465.5 | 3431.3 | 3426.4 | 3447.7 | 3491.6 | 3542.0 | 3561.7 | 3560.1 |
| 12.5° | 3656.1  | 3587.7  | 3475.4 | 3408.4 | 3388.9 | 3398.7 | 3426.4 | 3467.2 | 3519.3 | 3550.2 | 3551.9 |
| 15°   | 3617.0  | 3537.3  | 3421.6 | 3362.9 | 3354.7 | 3367.7 | 3393.8 | 3424.8 | 3465.5 | 3496.6 | 3499.7 |
| 17.5° | 3569.9  | 3486.7  | 3371.0 | 3310.8 | 3304.2 | 3310.8 | 3312.4 | 3328.7 | 3354.7 | 3384.1 | 3392.2 |
| 20°   | 3519.3  | 3434.6  | 3313.9 | 3253.8 | 3224.3 | 3198.3 | 3169.0 | 3172.3 | 3180.4 | 3209.7 | 3216.2 |
| 22.5° | 3483.4  | 3398.7  | 3270.0 | 3186.9 | 3108.8 | 3030.5 | 2971.9 | 2963.7 | 2966.9 | 2991.4 | 2999.5 |
| 25°   | 3486.7  | 3397.1  | 3258.6 | 3115.2 | 2944.1 | 2818.7 | 2740.5 | 2727.4 | 2725.8 | 2743.8 | 2755.1 |
| 27.5° | 3550.2  | 3460.6  | 3301.0 | 3041.9 | 2765.0 | 2579.3 | 2496.1 | 2486.2 | 2473.4 | 2478.2 | 2491.2 |
| 30°   | 3692.0  | 3608.9  | 3403.6 | 2966.9 | 2571.0 | 2344.5 | 2258.2 | 2248.5 | 2230.5 | 2222.3 | 2232.2 |
| 32.5° | 3923.3  | 3854.9  | 3553.5 | 2895.2 | 2377.2 | 2144.2 | 2056.2 | 2035.0 | 2023.6 | 2013.8 | 2021.9 |
| 35°   | 4307.9  | 4278.5  | 3753.9 | 2817.1 | 2206.1 | 1989.3 | 1909.5 | 1877.0 | 1860.7 | 1878.5 | 1891.7 |
| 37.5° | 4910.8  | 4927.1  | 4016.2 | 2694.8 | 2074.0 | 1886.7 | 1820.0 | 1782.4 | 1758.1 | 1772.6 | 1787.4 |
| 40°   | 5764.5  | 5775.9  | 4306.3 | 2522.3 | 1960.0 | 1826.4 | 1754.7 | 1720.6 | 1686.3 | 1660.2 | 1658.6 |
| 42.5° | 6885.5  | 6769.7  | 4591.3 | 2334.8 | 1828.1 | 1789.0 | 1709.1 | 1666.7 | 1614.7 | 1543.0 | 1528.2 |
| 45°   | 8215.0  | 7809.2  | 4808.1 | 2119.7 | 1679.8 | 1743.4 | 1658.6 | 1600.1 | 1518.6 | 1440.3 | 1432.2 |
| 47.5° | 9746.5  | 8925.3  | 4914.0 | 1896.5 | 1541.3 | 1676.5 | 1596.6 | 1503.9 | 1401.1 | 1362.1 | 1357.2 |
| 50°   | 11616.9 | 10250.0 | 4964.6 | 1679.8 | 1420.8 | 1588.6 | 1507.0 | 1397.9 | 1311.5 | 1303.4 | 1298.6 |
| 52.5° | 13746.5 | 11843.4 | 4980.8 | 1502.2 | 1321.3 | 1474.5 | 1433.8 | 1327.9 | 1259.5 | 1266.0 | 1266.0 |
| 55°   | 15975.4 | 13488.9 | 4759.2 | 1373.5 | 1230.0 | 1357.2 | 1384.8 | 1300.1 | 1243.2 | 1269.2 | 1278.9 |
| 57.5° | 18021.7 | 14947.3 | 4061.9 | 1274.2 | 1143.8 | 1267.6 | 1367.0 | 1326.3 | 1287.1 | 1393.0 | 1399.6 |
| 60°   | 19592.5 | 15809.1 | 3033.8 | 1184.5 | 1080.2 | 1236.6 | 1414.2 | 1425.6 | 1435.4 | 1687.9 | 1722.2 |
| 62.5° | 19921.5 | 15522.4 | 2085.5 | 1114.4 | 1050.8 | 1262.7 | 1500.6 | 1502.2 | 1490.7 | 1666.7 | 1687.9 |
| 65°   | 18411.1 | 13708.9 | 1516.9 | 1075.4 | 1026.5 | 1310.0 | 1573.9 | 1539.7 | 1464.7 | 1598.4 | 1559.3 |
| 67.5° | 14621.4 | 10328.2 | 1262.7 | 1046.0 | 990.7  | 1306.8 | 1652.2 | 1573.9 | 1450.0 | 1565.7 | 1502.2 |
| 70°   | 9490.8  | 6245.1  | 1124.1 | 1021.6 | 948.3  | 1244.8 | 1697.7 | 1570.6 | 1407.7 | 1456.6 | 1381.7 |
| 72.5° | 4630.6  | 2792.7  | 1031.3 | 985.7  | 904.2  | 1158.5 | 1696.1 | 1541.3 | 1363.7 | 1360.5 | 1319.7 |
| 75°   | 1811.8  | 1278.9  | 946.6  | 931.9  | 829.3  | 1060.7 | 1650.5 | 1498.9 | 1311.5 | 1259.5 | 1244.8 |
| 77.5° | 1060.7  | 912.4   | 839.0  | 852.1  | 739.8  | 963.0  | 1583.7 | 1425.6 | 1239.9 | 1177.9 | 1161.7 |
| 80°   | 772.4   | 682.7   | 715.3  | 736.4  | 632.1  | 865.2  | 1494.2 | 1336.0 | 1160.2 | 1191.1 | 1168.2 |
| 82.5° | 495.3   | 439.9   | 580.0  | 601.2  | 526.2  | 765.7  | 1396.3 | 1241.5 | 1047.7 | 951.6  | 928.7  |
| 85°   | 252.6   | 278.7   | 431.7  | 457.9  | 405.8  | 629.0  | 1277.4 | 1116.1 | 920.6  | 791.9  | 804.9  |
| 87.5° | 141.8   | 190.6   | 275.3  | 307.8  | 286.7  | 483.8  | 1036.3 | 920.6  | 751.2  | 610.9  | 537.6  |
| 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)