

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: P191658

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-5NQ-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60775 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

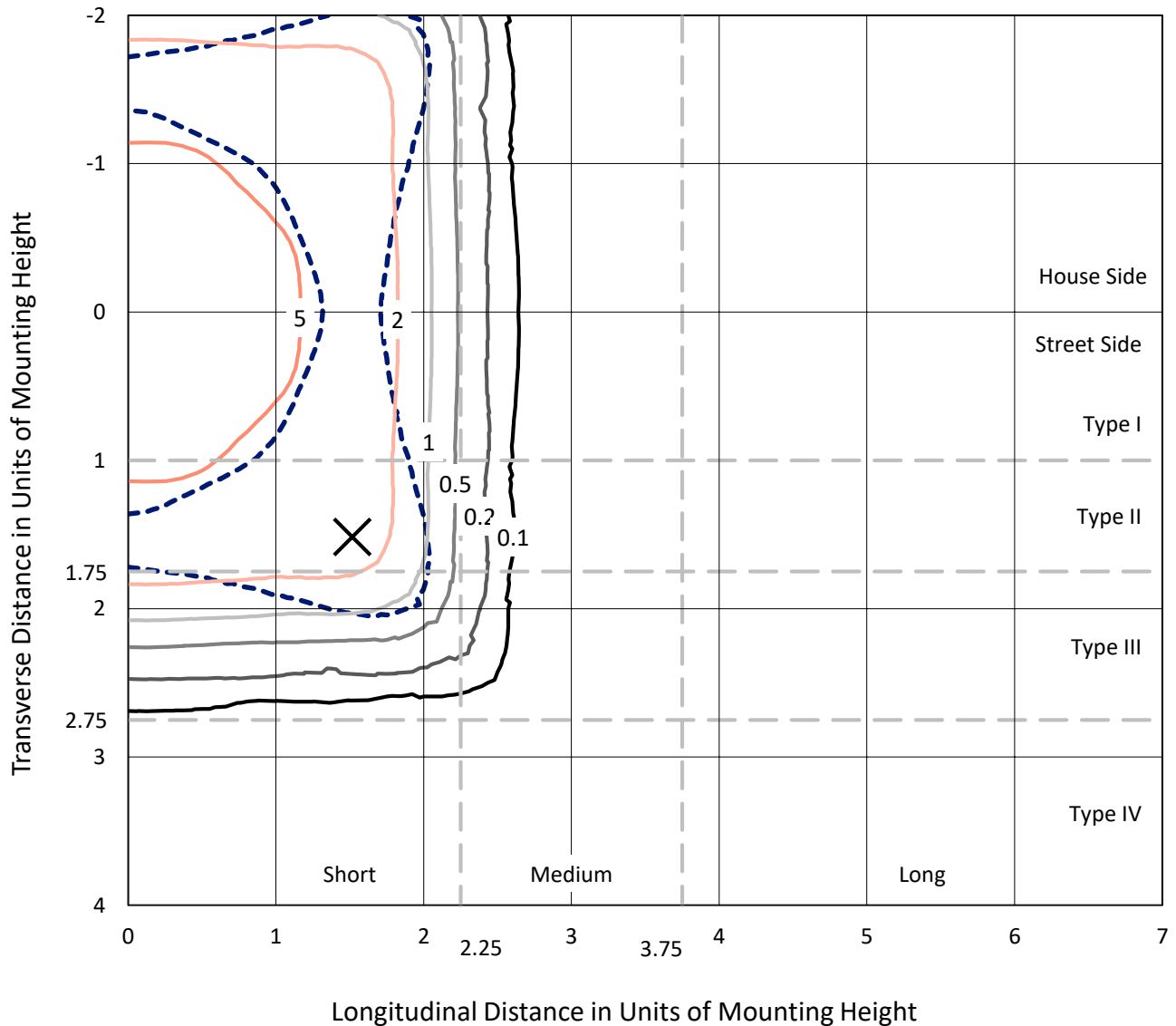
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P191658  
 CATALOG NUMBER: GAN-AF-10-LED-U-5NQ-7050

### Iso-Footcandle Lines of Horizontal Illumination

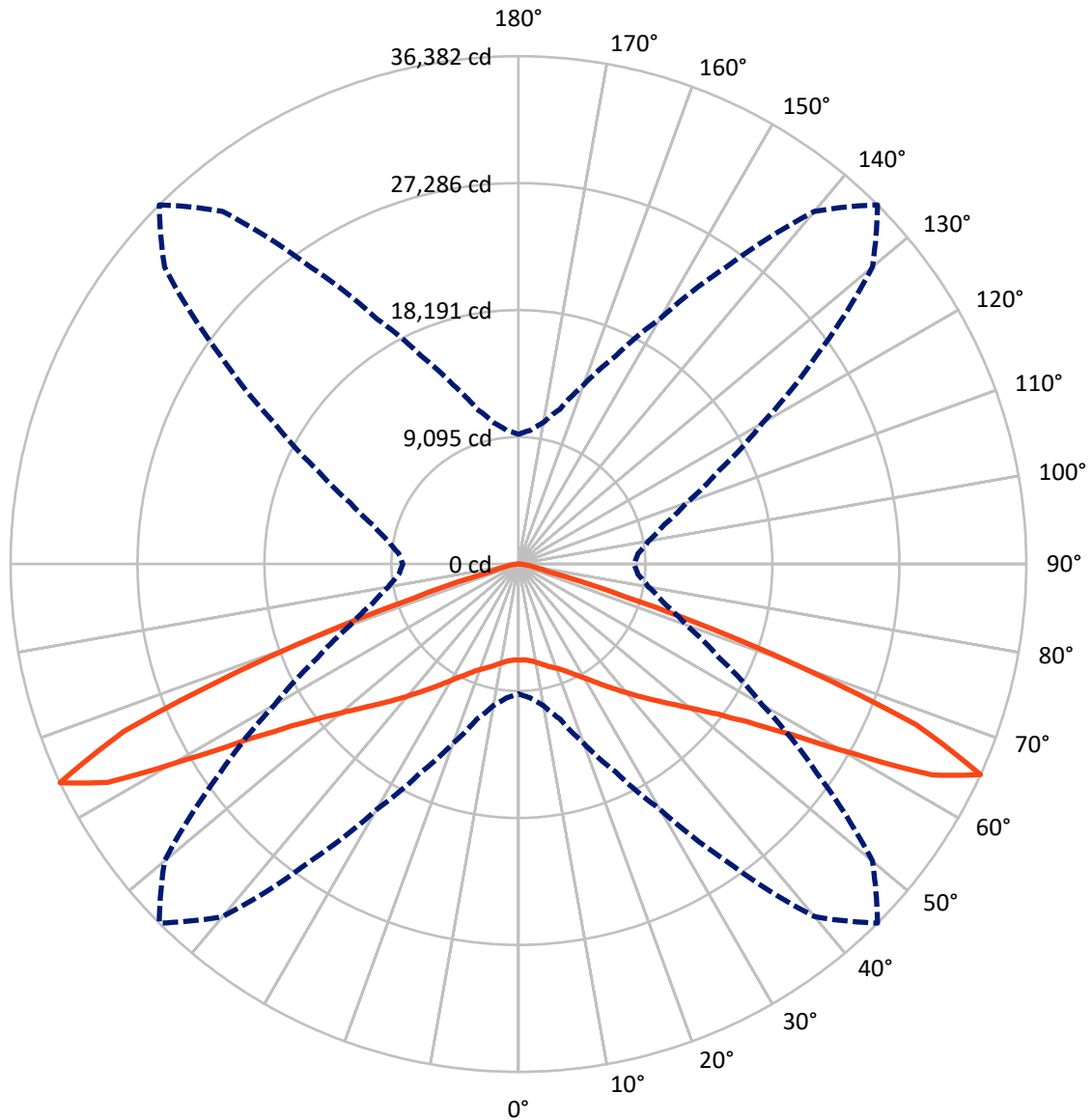
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P191658  
CATALOG NUMBER: GAN-AF-10-LED-U-5NQ-7050

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



REPORT NUMBER: P191658

CATALOG NUMBER: GAN-AF-10-LED-U-5NQ-7050

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 30387.5  | 0.0    | 30387.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 30387.5  | 0.0    | 30387.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 60775.0  | 0.0    | 60775.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 670.3   | 1.1       |
| 10°-20°   | 2149.6  | 3.5       |
| 20°-30°   | 4019.4  | 6.6       |
| 30°-40°   | 6798.0  | 11.2      |
| 40°-50°   | 11115.4 | 18.3      |
| 50°-60°   | 17675.2 | 29.1      |
| 60°-70°   | 15977.2 | 26.3      |
| 70°-80°   | 2022.0  | 3.3       |
| 80°-90°   | 347.8   | 0.6       |
| 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°    | 60775.0 | 100.0     |
| 0°-180°   | 60775.0 | 100.0     |



REPORT NUMBER: P191658

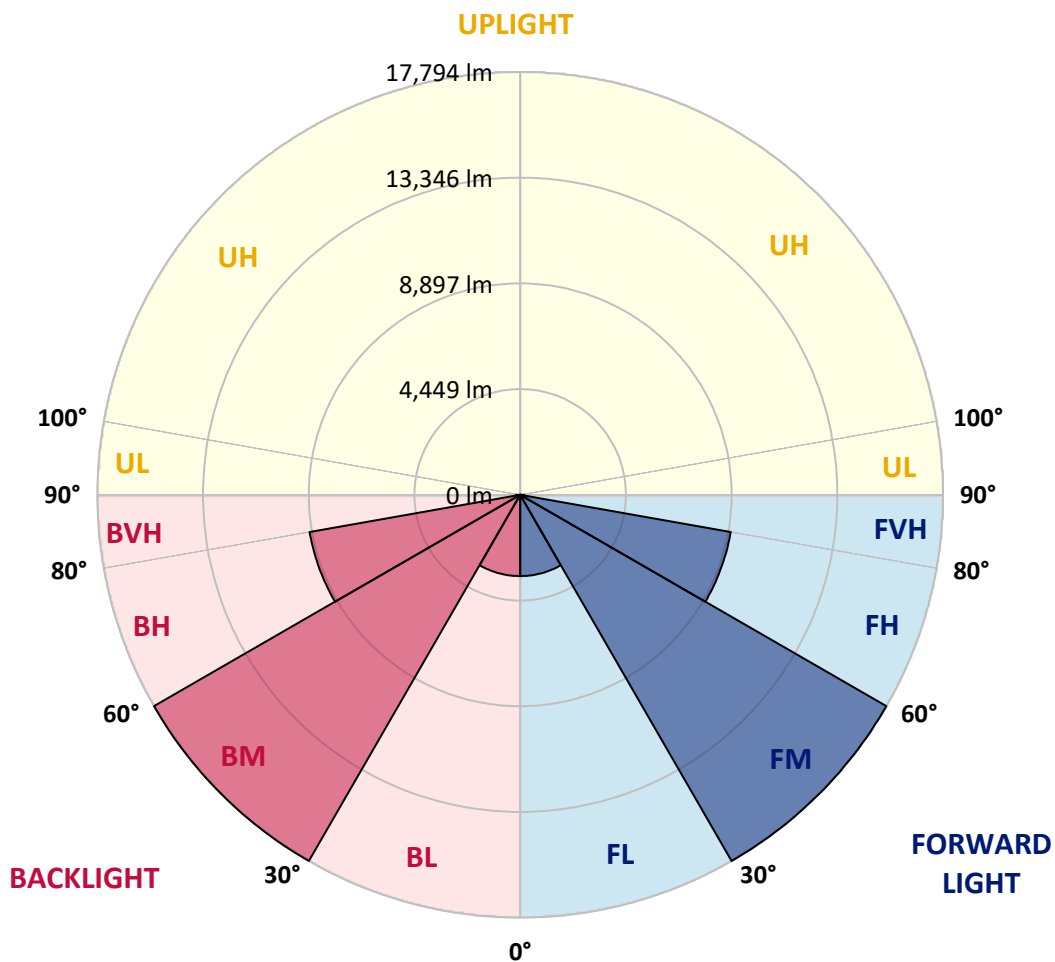
CATALOG NUMBER: GAN-AF-10-LED-U-5NQ-7050

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3419.7  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 17794.3 | 29.3      |                         |      |          |
| FH   | (60°-80°)   | 8999.6  | 14.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 173.9   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 3419.7  | 5.6       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 17794.3 | 29.3      | B5                      |      |          |
| BH   | (60°-80°)   | 8999.6  | 14.8      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 173.9   | 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: P191658  
 CATALOG NUMBER: GAN-AF-10-LED-U-5NQ-7050

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  |
| 2.5°  | 6882.4  | 6888.1  | 6893.8  | 6888.1  | 6893.8  | 6885.3  | 6879.6  | 6888.1  | 6879.6  | 6871.0  | 6876.7  |
| 5°    | 6942.2  | 6945.0  | 6945.0  | 6936.5  | 6945.0  | 6939.3  | 6930.8  | 6942.2  | 6933.7  | 6925.1  | 6930.8  |
| 7.5°  | 7041.8  | 7053.2  | 7044.7  | 7036.1  | 7041.8  | 7036.1  | 7030.4  | 7033.3  | 7030.4  | 7021.9  | 7024.7  |
| 10°   | 7175.6  | 7184.1  | 7178.4  | 7175.6  | 7181.3  | 7178.4  | 7172.7  | 7169.9  | 7172.7  | 7164.2  | 7164.2  |
| 12.5° | 7337.8  | 7335.0  | 7332.1  | 7335.0  | 7343.5  | 7343.5  | 7340.7  | 7343.5  | 7349.2  | 7352.1  | 7346.4  |
| 15°   | 7497.2  | 7502.9  | 7502.9  | 7502.9  | 7520.0  | 7534.2  | 7542.8  | 7548.5  | 7559.8  | 7562.7  | 7551.3  |
| 17.5° | 7696.5  | 7696.5  | 7693.6  | 7696.5  | 7713.5  | 7736.3  | 7744.9  | 7756.2  | 7767.6  | 7776.2  | 7761.9  |
| 20°   | 7918.5  | 7924.2  | 7924.2  | 7929.9  | 7952.6  | 7978.3  | 7978.3  | 7983.9  | 7978.3  | 7983.9  | 7975.4  |
| 22.5° | 8188.9  | 8206.0  | 8206.0  | 8208.8  | 8231.6  | 8262.9  | 8254.3  | 8262.9  | 8248.7  | 8260.0  | 8248.7  |
| 25°   | 8541.8  | 8567.4  | 8561.7  | 8561.7  | 8578.8  | 8598.8  | 8601.6  | 8618.7  | 8615.8  | 8630.1  | 8621.5  |
| 27.5° | 8940.3  | 8980.2  | 8991.5  | 8988.7  | 9000.1  | 9020.0  | 9025.7  | 9045.6  | 9034.2  | 9045.6  | 9039.9  |
| 30°   | 9418.5  | 9435.6  | 9458.3  | 9466.9  | 9481.1  | 9501.0  | 9501.0  | 9503.9  | 9489.7  | 9506.7  | 9515.3  |
| 32.5° | 9913.8  | 9945.1  | 9967.8  | 10019.1 | 10044.7 | 10058.9 | 10056.1 | 10061.8 | 10047.5 | 10070.3 | 10087.4 |
| 35°   | 10568.4 | 10591.2 | 10628.2 | 10668.0 | 10702.2 | 10699.3 | 10690.8 | 10693.6 | 10693.6 | 10713.6 | 10730.6 |
| 37.5° | 11356.8 | 11362.5 | 11410.9 | 11467.8 | 11484.9 | 11467.8 | 11416.6 | 11405.2 | 11379.6 | 11405.2 | 11433.7 |
| 40°   | 12190.8 | 12210.7 | 12307.5 | 12344.5 | 12353.1 | 12321.7 | 12247.7 | 12205.0 | 12148.1 | 12179.4 | 12219.3 |
| 42.5° | 13064.6 | 13104.5 | 13192.7 | 13258.2 | 13286.7 | 13266.7 | 13164.3 | 13098.8 | 13024.8 | 13041.9 | 13081.7 |
| 45°   | 14032.4 | 14080.8 | 14206.0 | 14268.6 | 14322.7 | 14291.4 | 14191.8 | 14092.2 | 13975.5 | 13984.0 | 14046.6 |
| 47.5° | 15114.0 | 15162.4 | 15324.6 | 15429.9 | 15458.4 | 15452.7 | 15341.7 | 15205.1 | 15045.7 | 15040.0 | 15094.1 |
| 50°   | 16326.5 | 16374.9 | 16577.0 | 16739.2 | 16821.8 | 16813.2 | 16682.3 | 16488.8 | 16295.2 | 16298.1 | 16366.4 |
| 52.5° | 17510.6 | 17570.4 | 17781.0 | 18059.9 | 18222.2 | 18338.9 | 18259.2 | 18077.0 | 17840.8 | 17846.5 | 17909.1 |
| 55°   | 18620.7 | 18720.3 | 18962.2 | 19340.8 | 19642.5 | 19969.8 | 20063.8 | 20058.1 | 19915.7 | 19955.6 | 20018.2 |
| 57.5° | 19158.6 | 19306.6 | 19679.5 | 20277.2 | 20892.0 | 21558.1 | 22121.6 | 22542.9 | 22722.2 | 22992.6 | 22930.0 |
| 60°   | 18139.6 | 18375.9 | 18925.2 | 19804.7 | 21020.1 | 22409.1 | 23897.8 | 25352.2 | 26593.2 | 27529.7 | 26991.7 |
| 62.5° | 14852.1 | 15159.5 | 15825.6 | 16952.7 | 18791.4 | 21014.4 | 23863.6 | 27302.0 | 31047.7 | 33307.7 | 31693.8 |
| 65°   | 9293.3  | 9612.0  | 10289.5 | 11496.3 | 13648.1 | 16411.9 | 20277.2 | 25975.6 | 32974.7 | 36381.7 | 33097.1 |
| 67.5° | 3623.4  | 3797.0  | 4164.2  | 4935.5  | 6552.2  | 9011.5  | 12891.0 | 19357.9 | 27728.9 | 30714.7 | 27213.7 |
| 70°   | 1816.0  | 1833.0  | 1901.3  | 2043.7  | 2390.9  | 3105.3  | 4724.9  | 8974.5  | 15902.4 | 19207.0 | 15330.3 |
| 72.5° | 1312.2  | 1315.0  | 1349.2  | 1411.8  | 1522.8  | 1682.2  | 1989.6  | 2746.7  | 5171.8  | 7904.2  | 4847.3  |
| 75°   | 1004.8  | 1016.1  | 1036.1  | 1070.2  | 1130.0  | 1209.7  | 1320.7  | 1582.6  | 1961.1  | 2274.2  | 1912.7  |
| 77.5° | 774.2   | 797.0   | 811.2   | 842.5   | 879.5   | 933.6   | 964.9   | 1064.5  | 1238.2  | 1303.6  | 1283.7  |
| 80°   | 589.2   | 609.1   | 640.4   | 666.0   | 691.7   | 717.3   | 705.9   | 751.4   | 842.5   | 896.6   | 868.1   |
| 82.5° | 375.7   | 398.5   | 489.6   | 512.3   | 523.7   | 540.8   | 520.9   | 523.7   | 563.6   | 597.7   | 563.6   |
| 85°   | 241.9   | 256.2   | 310.2   | 338.7   | 341.6   | 352.9   | 344.4   | 324.5   | 324.5   | 296.0   | 333.0   |
| 87.5° | 111.0   | 113.9   | 139.5   | 165.1   | 170.8   | 153.7   | 150.9   | 145.2   | 116.7   | 111.0   | 119.5   |
| 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: P191658

CATALOG NUMBER: GAN-AF-10-LED-U-5NQ-7050

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  | 6876.7  |
| 2.5°  | 6873.9  | 6879.6  | 6882.4  | 6891.0  | 6893.8  | 6893.8  | 6896.6  | 6902.3  |
| 5°    | 6928.0  | 6936.5  | 6939.3  | 6950.7  | 6953.6  | 6950.7  | 6956.4  | 6959.3  |
| 7.5°  | 7024.7  | 7039.0  | 7044.7  | 7056.0  | 7047.5  | 7058.9  | 7061.7  | 7061.7  |
| 10°   | 7167.0  | 7181.3  | 7184.1  | 7195.5  | 7189.8  | 7195.5  | 7195.5  | 7189.8  |
| 12.5° | 7354.9  | 7357.8  | 7349.2  | 7357.8  | 7346.4  | 7352.1  | 7343.5  | 7337.8  |
| 15°   | 7562.7  | 7554.1  | 7534.2  | 7534.2  | 7517.1  | 7520.0  | 7517.1  | 7514.3  |
| 17.5° | 7764.8  | 7747.7  | 7733.5  | 7727.8  | 7713.5  | 7710.7  | 7702.2  | 7702.2  |
| 20°   | 7986.8  | 7978.3  | 7969.7  | 7958.3  | 7944.1  | 7929.9  | 7927.0  | 7932.7  |
| 22.5° | 8254.3  | 8251.5  | 8251.5  | 8245.8  | 8225.9  | 8211.7  | 8203.1  | 8203.1  |
| 25°   | 8613.0  | 8587.4  | 8587.4  | 8584.5  | 8576.0  | 8567.4  | 8550.4  | 8558.9  |
| 27.5° | 9017.2  | 9002.9  | 9014.3  | 9011.5  | 9002.9  | 9002.9  | 8991.5  | 8991.5  |
| 30°   | 9515.3  | 9509.6  | 9526.7  | 9512.4  | 9484.0  | 9481.1  | 9469.7  | 9455.5  |
| 32.5° | 10090.2 | 10084.5 | 10110.2 | 10093.1 | 10047.5 | 10021.9 | 9999.1  | 9987.8  |
| 35°   | 10730.6 | 10733.5 | 10764.8 | 10753.4 | 10702.2 | 10685.1 | 10645.3 | 10639.6 |
| 37.5° | 11430.8 | 11476.4 | 11530.5 | 11541.9 | 11499.2 | 11487.8 | 11445.1 | 11422.3 |
| 40°   | 12253.4 | 12313.2 | 12395.8 | 12415.7 | 12370.1 | 12361.6 | 12301.8 | 12270.5 |
| 42.5° | 13130.1 | 13232.6 | 13335.0 | 13352.1 | 13306.6 | 13261.0 | 13204.1 | 13181.3 |
| 45°   | 14109.2 | 14231.6 | 14365.4 | 14399.6 | 14331.3 | 14277.2 | 14203.2 | 14203.2 |
| 47.5° | 15207.9 | 15361.6 | 15512.5 | 15606.4 | 15543.8 | 15486.9 | 15398.6 | 15341.7 |
| 50°   | 16505.8 | 16716.5 | 16912.9 | 17009.6 | 16910.0 | 16801.9 | 16648.2 | 16596.9 |
| 52.5° | 18133.9 | 18361.6 | 18532.4 | 18481.2 | 18327.5 | 18176.6 | 18008.7 | 17940.4 |
| 55°   | 20211.8 | 20288.6 | 20288.6 | 20095.1 | 19787.7 | 19534.3 | 19269.6 | 19181.4 |
| 57.5° | 22810.5 | 22514.4 | 22059.0 | 21481.2 | 20755.4 | 20123.5 | 19696.6 | 19494.5 |
| 60°   | 25864.6 | 24441.4 | 22833.2 | 21253.5 | 19955.6 | 18885.4 | 18250.6 | 17960.3 |
| 62.5° | 27899.7 | 24176.7 | 20954.7 | 18418.6 | 16551.4 | 15262.0 | 14385.3 | 14043.8 |
| 65°   | 26075.2 | 20163.4 | 15848.3 | 12814.2 | 10779.0 | 9466.9  | 8598.8  | 8280.0  |
| 67.5° | 19098.8 | 12634.8 | 8439.4  | 6048.4  | 4431.7  | 3535.1  | 3179.3  | 3031.3  |
| 70°   | 8573.1  | 4448.8  | 2726.8  | 2129.1  | 1835.9  | 1685.0  | 1619.6  | 1596.8  |
| 72.5° | 2584.5  | 1870.0  | 1576.9  | 1423.2  | 1306.5  | 1232.5  | 1178.4  | 1172.7  |
| 75°   | 1559.8  | 1297.9  | 1152.8  | 1061.7  | 987.7   | 927.9   | 899.4   | 890.9   |
| 77.5° | 1090.1  | 953.5   | 885.2   | 819.7   | 762.8   | 717.3   | 691.7   | 671.7   |
| 80°   | 765.7   | 700.2   | 668.9   | 631.9   | 594.9   | 552.2   | 515.2   | 498.1   |
| 82.5° | 512.3   | 498.1   | 498.1   | 475.3   | 444.0   | 404.2   | 330.2   | 313.1   |
| 85°   | 330.2   | 327.3   | 333.0   | 324.5   | 301.7   | 259.0   | 213.5   | 202.1   |
| 87.5° | 153.7   | 156.5   | 173.6   | 170.8   | 165.1   | 136.6   | 108.2   | 102.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)