

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: P192958

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-7030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 46247.3 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

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



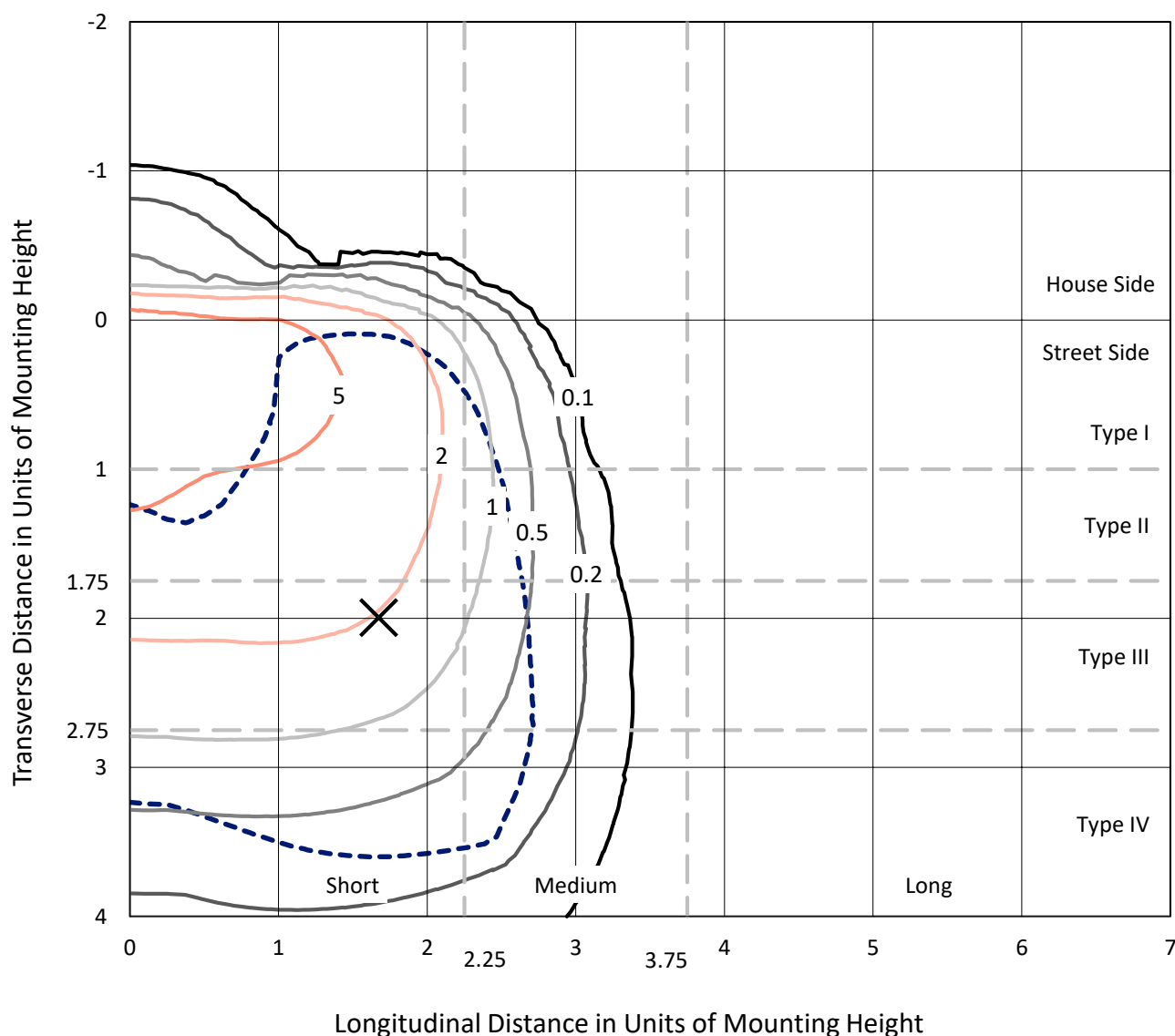
REPORT NUMBER: P192958

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-7030-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

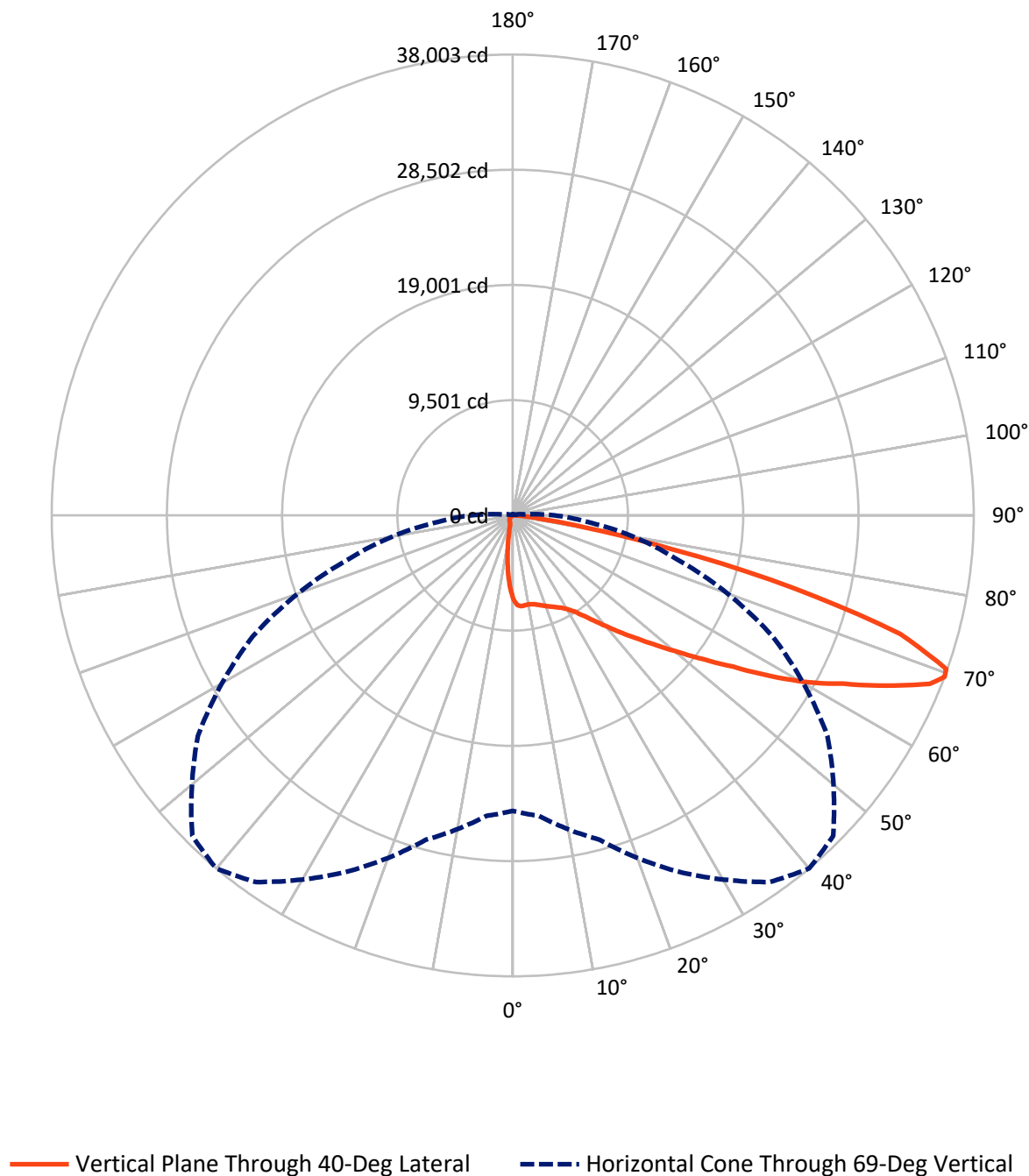


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192958

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-7030-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P192958

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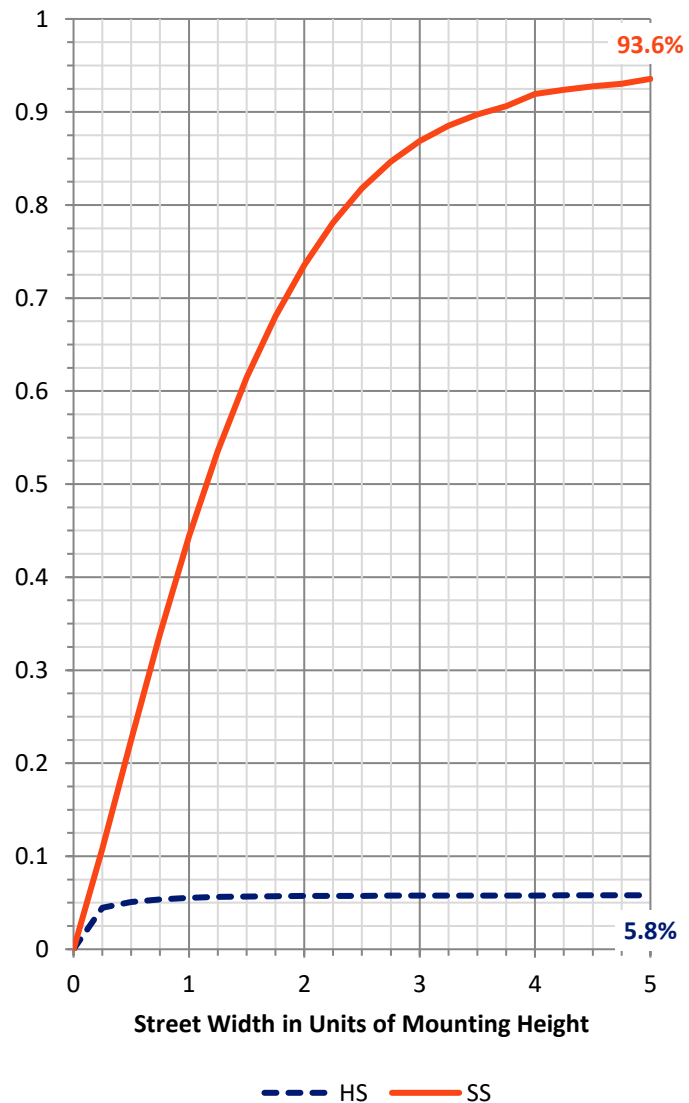
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2705.7   | 0.0    | 2705.7  |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 43541.5  | 0.0    | 43541.5 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 46247.3  | 0.0    | 46247.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 560.2   | 1.2       |
| 10°-20°   | 1377.7  | 3.0       |
| 20°-30°   | 2320.5  | 5.0       |
| 30°-40°   | 3798.8  | 8.2       |
| 40°-50°   | 6577.5  | 14.2      |
| 50°-60°   | 10360.2 | 22.4      |
| 60°-70°   | 13530.0 | 29.3      |
| 70°-80°   | 6968.5  | 15.1      |
| 80°-90°   | 753.8   | 1.6       |
| 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°    | 46247.3 | 100.0     |
| 0°-180°   | 46247.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P192958

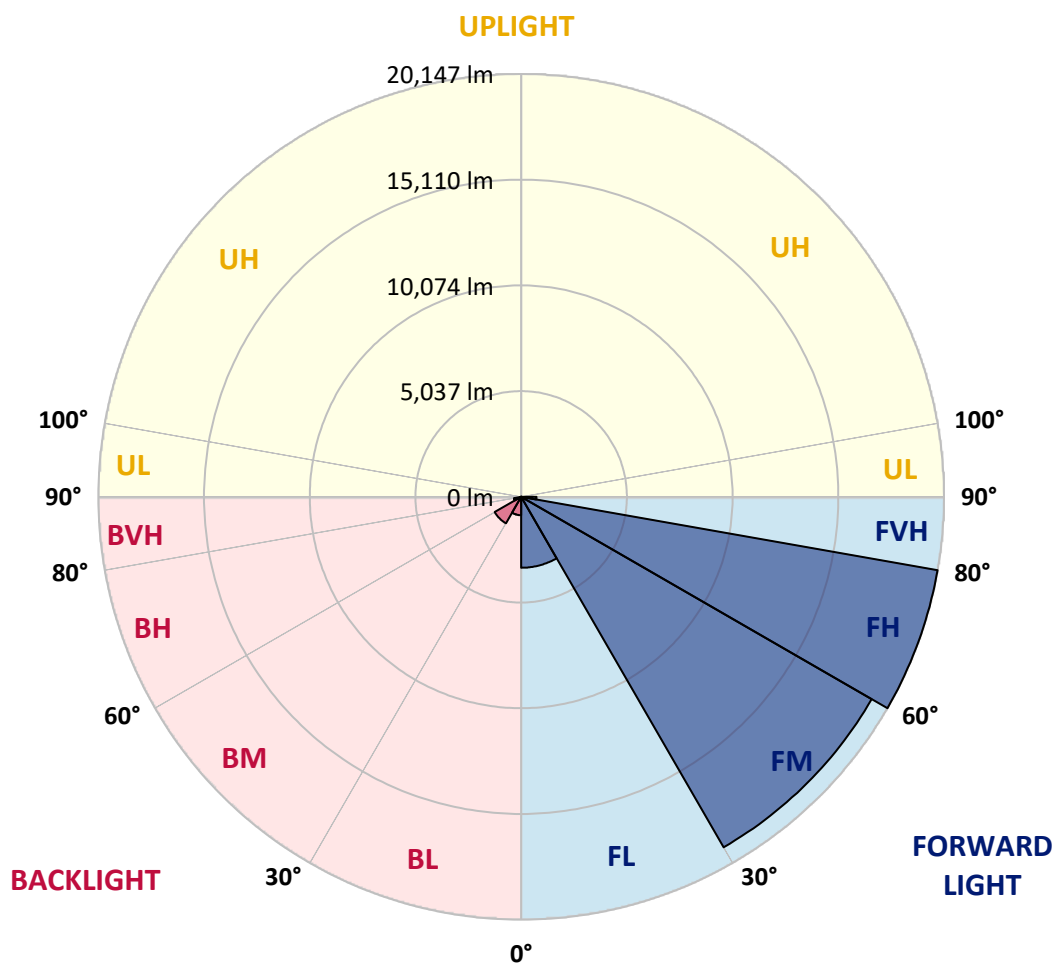
CATALOG NUMBER: GAN-AF-10-LED-U-SL4-7030-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3382.0  | 7.3       |                         |      |        |
| FM   | (30°-60°)   | 19282.2 | 41.7      |                         |      |        |
| FH   | (60°-80°)   | 20147.2 | 43.6      |                         |      | G5     |
| FVH  | (80°-90°)   | 730.1   | 1.6       |                         |      | G4/750 |
| BL   | (0°-30°)    | 876.5   | 1.9       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1454.3  | 3.1       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 351.3   | 0.8       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 23.7    | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G5**

Type IV Short





REPORT NUMBER: P192958

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-7030-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  | 6909.5  |
| 2.5°  | 7586.8  | 7545.5  | 7520.8  | 7487.6  | 7446.3  | 7410.6  | 7396.9  | 7295.0  | 7198.6  | 7066.5  | 6915.1  |
| 5°    | 7727.2  | 7713.3  | 7669.4  | 7625.3  | 7575.7  | 7520.8  | 7490.4  | 7369.3  | 7231.7  | 7038.9  | 6774.7  |
| 7.5°  | 7740.9  | 7724.4  | 7669.4  | 7608.9  | 7540.0  | 7473.9  | 7421.7  | 7300.4  | 7173.9  | 6978.4  | 6656.3  |
| 10°   | 7718.9  | 7699.6  | 7658.3  | 7592.3  | 7506.9  | 7443.7  | 7391.3  | 7275.7  | 7168.4  | 6992.1  | 6634.3  |
| 12.5° | 7694.1  | 7674.9  | 7655.6  | 7622.6  | 7548.2  | 7504.2  | 7460.1  | 7350.0  | 7253.7  | 7105.0  | 6714.1  |
| 15°   | 7718.9  | 7707.9  | 7729.9  | 7716.1  | 7674.9  | 7636.3  | 7592.3  | 7493.2  | 7405.0  | 7281.2  | 6860.1  |
| 17.5° | 7823.5  | 7823.5  | 7892.4  | 7900.6  | 7862.1  | 7807.0  | 7743.6  | 7644.6  | 7570.2  | 7465.6  | 7033.4  |
| 20°   | 8068.5  | 8060.3  | 8148.3  | 8164.8  | 8071.3  | 7986.0  | 7892.4  | 7771.2  | 7713.3  | 7647.4  | 7204.1  |
| 22.5° | 8489.7  | 8451.2  | 8503.4  | 8486.9  | 8302.5  | 8170.4  | 8054.7  | 7906.1  | 7875.9  | 7845.6  | 7394.1  |
| 25°   | 9037.5  | 9015.5  | 9051.2  | 8888.9  | 8564.1  | 8385.1  | 8247.4  | 8079.5  | 8079.5  | 8109.8  | 7608.9  |
| 27.5° | 9833.2  | 9750.6  | 9629.3  | 9343.1  | 8855.8  | 8627.3  | 8478.7  | 8299.8  | 8346.6  | 8459.4  | 7892.4  |
| 30°   | 10647.9 | 10557.0 | 10279.0 | 9838.6  | 9210.9  | 8971.4  | 8798.0  | 8610.8  | 8721.0  | 8927.3  | 8272.2  |
| 32.5° | 11451.7 | 11349.9 | 10956.2 | 10400.2 | 9720.2  | 9480.8  | 9312.8  | 9106.3  | 9290.8  | 9637.6  | 8828.2  |
| 35°   | 12230.8 | 12139.9 | 11685.8 | 11030.6 | 10397.4 | 10199.3 | 10045.1 | 9866.1  | 10102.8 | 10587.3 | 9612.8  |
| 37.5° | 13106.2 | 13007.1 | 12453.8 | 11743.5 | 11220.5 | 11077.4 | 10964.5 | 10785.5 | 11198.4 | 11908.7 | 10705.8 |
| 40°   | 14182.5 | 14014.5 | 13268.6 | 12561.1 | 12173.0 | 12104.2 | 12027.0 | 12002.3 | 12643.7 | 13626.5 | 12161.9 |
| 42.5° | 15415.8 | 15140.5 | 14122.0 | 13422.7 | 13219.1 | 13268.6 | 13249.4 | 13359.4 | 14452.3 | 15762.7 | 13934.8 |
| 45°   | 16649.0 | 16294.0 | 15071.7 | 14342.3 | 14369.7 | 14543.2 | 14650.5 | 15091.0 | 16717.9 | 18212.7 | 15842.5 |
| 47.5° | 17695.1 | 17345.6 | 15982.9 | 15335.9 | 15666.2 | 16007.7 | 16299.4 | 17133.6 | 19046.7 | 20624.1 | 17326.3 |
| 50°   | 18589.8 | 18259.4 | 16949.1 | 16428.9 | 17172.1 | 17722.6 | 18196.1 | 19432.2 | 21551.8 | 22460.2 | 18366.8 |
| 52.5° | 19322.1 | 19101.8 | 17951.2 | 17681.3 | 18892.6 | 19699.2 | 20392.9 | 21873.9 | 23770.6 | 23952.3 | 19176.1 |
| 55°   | 20035.0 | 19878.1 | 19027.5 | 19170.6 | 20913.2 | 22011.6 | 22889.7 | 24464.4 | 25681.1 | 25196.6 | 19952.5 |
| 57.5° | 20855.4 | 20712.2 | 20255.2 | 21059.0 | 23569.6 | 24951.5 | 25909.5 | 26760.3 | 27363.0 | 26468.4 | 20684.8 |
| 60°   | 21692.3 | 21609.7 | 21620.7 | 23156.7 | 26619.8 | 27946.7 | 28475.1 | 28695.5 | 29014.7 | 27665.9 | 20725.9 |
| 62.5° | 22490.6 | 22647.5 | 23181.5 | 25491.1 | 29540.5 | 30559.0 | 30826.1 | 31043.5 | 30669.2 | 27855.7 | 19148.7 |
| 65°   | 23842.2 | 24098.2 | 25372.7 | 28615.5 | 32753.0 | 33843.2 | 34118.5 | 33372.4 | 30930.6 | 25400.3 | 15575.5 |
| 67.5° | 24502.8 | 24970.8 | 27244.7 | 31528.1 | 35869.3 | 37080.5 | 36978.6 | 33523.8 | 27756.7 | 19368.8 | 9995.5  |
| 69°   | 24365.3 | 24863.5 | 27676.9 | 32420.0 | 36904.3 | 38002.7 | 37355.7 | 31671.2 | 23646.8 | 14031.1 | 6136.0  |
| 70°   | 23820.1 | 24324.0 | 27453.9 | 32386.9 | 37036.4 | 37906.3 | 36656.6 | 29383.6 | 19993.7 | 10259.8 | 3837.4  |
| 72.5° | 19891.8 | 20326.8 | 24373.4 | 29273.5 | 34118.5 | 33410.9 | 30666.5 | 20357.0 | 9742.2  | 2794.1  | 864.4   |
| 75°   | 12244.5 | 12486.8 | 17488.7 | 22052.9 | 25769.2 | 23952.3 | 20431.5 | 10127.7 | 2904.2  | 790.1   | 479.0   |
| 77.5° | 6469.1  | 6579.3  | 9574.3  | 12998.8 | 16335.3 | 13516.4 | 10471.7 | 3950.3  | 1337.9  | 495.5   | 346.9   |
| 80°   | 3823.6  | 3906.2  | 5156.1  | 5943.3  | 7069.3  | 5904.8  | 4187.1  | 2425.2  | 957.9   | 311.1   | 308.3   |
| 82.5° | 2188.5  | 2240.8  | 3738.3  | 3303.4  | 2785.9  | 2378.5  | 2083.9  | 2298.6  | 575.4   | 209.2   | 319.4   |
| 85°   | 803.8   | 814.8   | 2103.1  | 2513.3  | 1657.3  | 985.5   | 1035.0  | 1904.9  | 154.2   | 132.1   | 250.5   |
| 87.5° | 374.4   | 366.1   | 1081.8  | 1538.8  | 969.0   | 624.9   | 806.6   | 418.5   | 60.5    | 85.3    | 68.9    |
| 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: P192958

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-7030-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6909.5  | 6909.5 | 6909.5 | 6909.5 | 6909.5 | 6909.5 | 6909.5 | 6909.5 | 6909.5 | 6909.5 | 6909.5 |
| 2.5°  | 6826.9  | 6725.1 | 6540.7 | 6350.8 | 6158.1 | 6009.4 | 5863.5 | 5747.9 | 5709.4 | 5637.8 | 5643.2 |
| 5°    | 6617.9  | 6430.6 | 6045.2 | 5654.2 | 5246.8 | 4910.9 | 4594.5 | 4338.4 | 4214.5 | 4087.9 | 4087.9 |
| 7.5°  | 6436.1  | 6163.6 | 5560.8 | 4924.8 | 4266.9 | 3713.5 | 3215.3 | 2841.0 | 2634.5 | 2469.3 | 2466.5 |
| 10°   | 6367.3  | 5998.5 | 5156.1 | 4244.8 | 3328.1 | 2573.9 | 1982.1 | 1602.2 | 1406.7 | 1280.1 | 1274.5 |
| 12.5° | 6397.5  | 5940.5 | 4845.0 | 3617.2 | 2466.5 | 1654.4 | 1147.9 | 902.9  | 820.3  | 781.7  | 781.7  |
| 15°   | 6485.6  | 5924.0 | 4533.9 | 3003.3 | 1742.5 | 1035.0 | 762.5  | 696.4  | 690.9  | 690.9  | 690.9  |
| 17.5° | 6593.0  | 5929.6 | 4214.5 | 2406.0 | 1186.4 | 740.6  | 658.0  | 649.6  | 655.1  | 655.1  | 655.1  |
| 20°   | 6703.2  | 5932.3 | 3870.5 | 1852.6 | 836.8  | 644.2  | 619.4  | 616.7  | 622.1  | 622.1  | 624.9  |
| 22.5° | 6838.0  | 5946.1 | 3526.4 | 1384.7 | 690.9  | 608.3  | 589.1  | 589.1  | 591.8  | 591.8  | 589.1  |
| 25°   | 6992.1  | 5973.6 | 3168.5 | 1026.8 | 630.4  | 583.6  | 567.0  | 564.4  | 567.0  | 564.4  | 561.6  |
| 27.5° | 7184.9  | 6012.2 | 2769.2 | 803.8  | 602.9  | 558.9  | 545.1  | 545.1  | 542.3  | 539.5  | 536.8  |
| 30°   | 7427.1  | 6056.2 | 2320.6 | 682.7  | 575.4  | 536.8  | 523.1  | 520.3  | 517.6  | 512.0  | 512.0  |
| 32.5° | 7795.9  | 6152.6 | 1877.4 | 619.4  | 545.1  | 506.5  | 495.5  | 495.5  | 490.0  | 484.4  | 481.8  |
| 35°   | 8363.0  | 6342.5 | 1481.0 | 580.8  | 512.0  | 473.5  | 459.8  | 459.8  | 454.2  | 451.5  | 448.7  |
| 37.5° | 9147.6  | 6631.5 | 1150.7 | 545.1  | 479.0  | 437.7  | 423.9  | 421.2  | 415.6  | 410.2  | 407.4  |
| 40°   | 10190.9 | 6989.5 | 905.6  | 512.0  | 446.0  | 402.0  | 390.9  | 385.3  | 374.4  | 366.1  | 366.1  |
| 42.5° | 11501.2 | 7396.9 | 735.0  | 476.3  | 407.4  | 368.9  | 360.7  | 352.4  | 333.1  | 324.8  | 322.1  |
| 45°   | 12872.2 | 7763.0 | 622.1  | 435.0  | 368.9  | 335.9  | 330.3  | 316.6  | 291.8  | 283.5  | 283.5  |
| 47.5° | 13860.4 | 7848.3 | 547.8  | 396.4  | 333.1  | 300.0  | 297.3  | 272.5  | 250.5  | 245.0  | 242.2  |
| 50°   | 14477.1 | 7680.4 | 487.3  | 357.9  | 300.0  | 267.0  | 258.7  | 228.5  | 214.7  | 209.2  | 206.5  |
| 52.5° | 14892.8 | 7380.4 | 437.7  | 324.8  | 269.8  | 236.8  | 217.4  | 195.5  | 184.4  | 178.9  | 178.9  |
| 55°   | 15225.9 | 6956.4 | 388.2  | 294.6  | 245.0  | 212.0  | 184.4  | 167.9  | 156.9  | 151.5  | 151.5  |
| 57.5° | 15319.5 | 6381.1 | 338.6  | 269.8  | 220.2  | 187.2  | 156.9  | 145.9  | 132.1  | 129.4  | 129.4  |
| 60°   | 14639.5 | 5343.3 | 300.0  | 239.5  | 198.2  | 162.5  | 137.6  | 123.9  | 110.2  | 107.4  | 104.6  |
| 62.5° | 12847.4 | 4134.7 | 264.3  | 212.0  | 173.4  | 140.4  | 118.3  | 101.8  | 90.8   | 90.8   | 90.8   |
| 65°   | 9800.0  | 2772.1 | 231.2  | 184.4  | 151.5  | 118.3  | 101.8  | 82.6   | 77.0   | 77.0   | 79.9   |
| 67.5° | 5866.2  | 1508.6 | 198.2  | 156.9  | 129.4  | 99.1   | 85.3   | 71.6   | 68.9   | 71.6   | 71.6   |
| 69°   | 3438.3  | 886.4  | 178.9  | 140.4  | 112.9  | 88.1   | 74.3   | 63.3   | 68.9   | 71.6   | 71.6   |
| 70°   | 2122.5  | 597.3  | 165.2  | 126.6  | 101.8  | 79.9   | 68.9   | 60.5   | 66.1   | 68.9   | 68.9   |
| 72.5° | 591.8   | 308.3  | 132.1  | 99.1   | 82.6   | 66.1   | 55.0   | 55.0   | 63.3   | 66.1   | 66.1   |
| 75°   | 385.3   | 228.5  | 101.8  | 74.3   | 63.3   | 52.3   | 46.8   | 52.3   | 60.5   | 63.3   | 63.3   |
| 77.5° | 319.4   | 187.2  | 82.6   | 60.5   | 52.3   | 49.6   | 44.0   | 46.8   | 55.0   | 57.8   | 57.8   |
| 80°   | 291.8   | 132.1  | 66.1   | 55.0   | 46.8   | 44.0   | 41.3   | 38.6   | 49.6   | 52.3   | 52.3   |
| 82.5° | 278.1   | 104.6  | 57.8   | 49.6   | 44.0   | 38.6   | 35.8   | 38.6   | 44.0   | 46.8   | 49.6   |
| 85°   | 173.4   | 68.9   | 52.3   | 46.8   | 38.6   | 35.8   | 35.8   | 35.8   | 41.3   | 44.0   | 44.0   |
| 87.5° | 63.3    | 55.0   | 46.8   | 38.6   | 33.0   | 33.0   | 33.0   | 33.0   | 35.8   | 41.3   | 41.3   |
| 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)