

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: P192214

Luminaire Tested: **GAN-AF-06-LED-U-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-T2R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37090 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

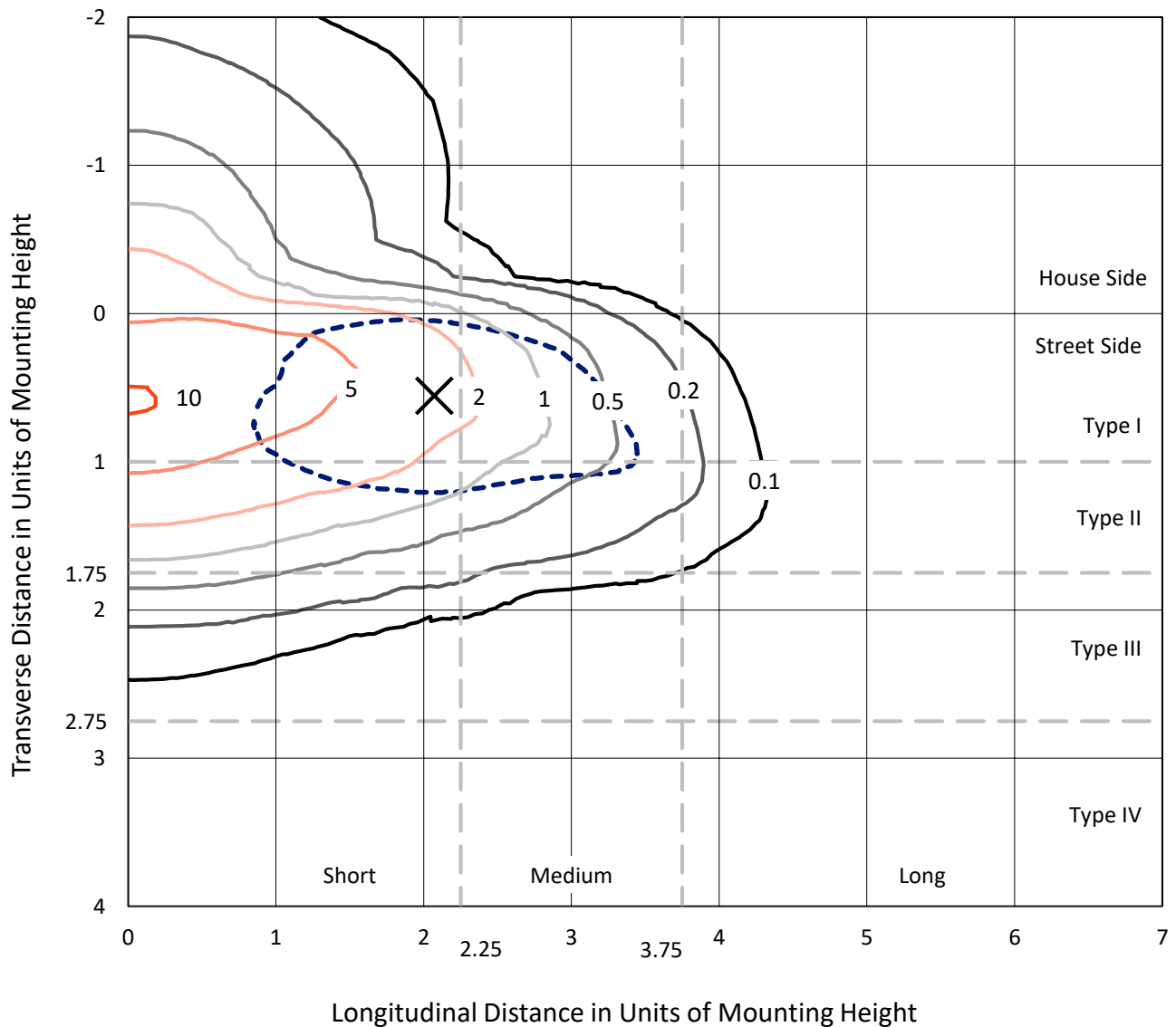
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P192214
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Iso-Footcandle Lines of Horizontal Illumination

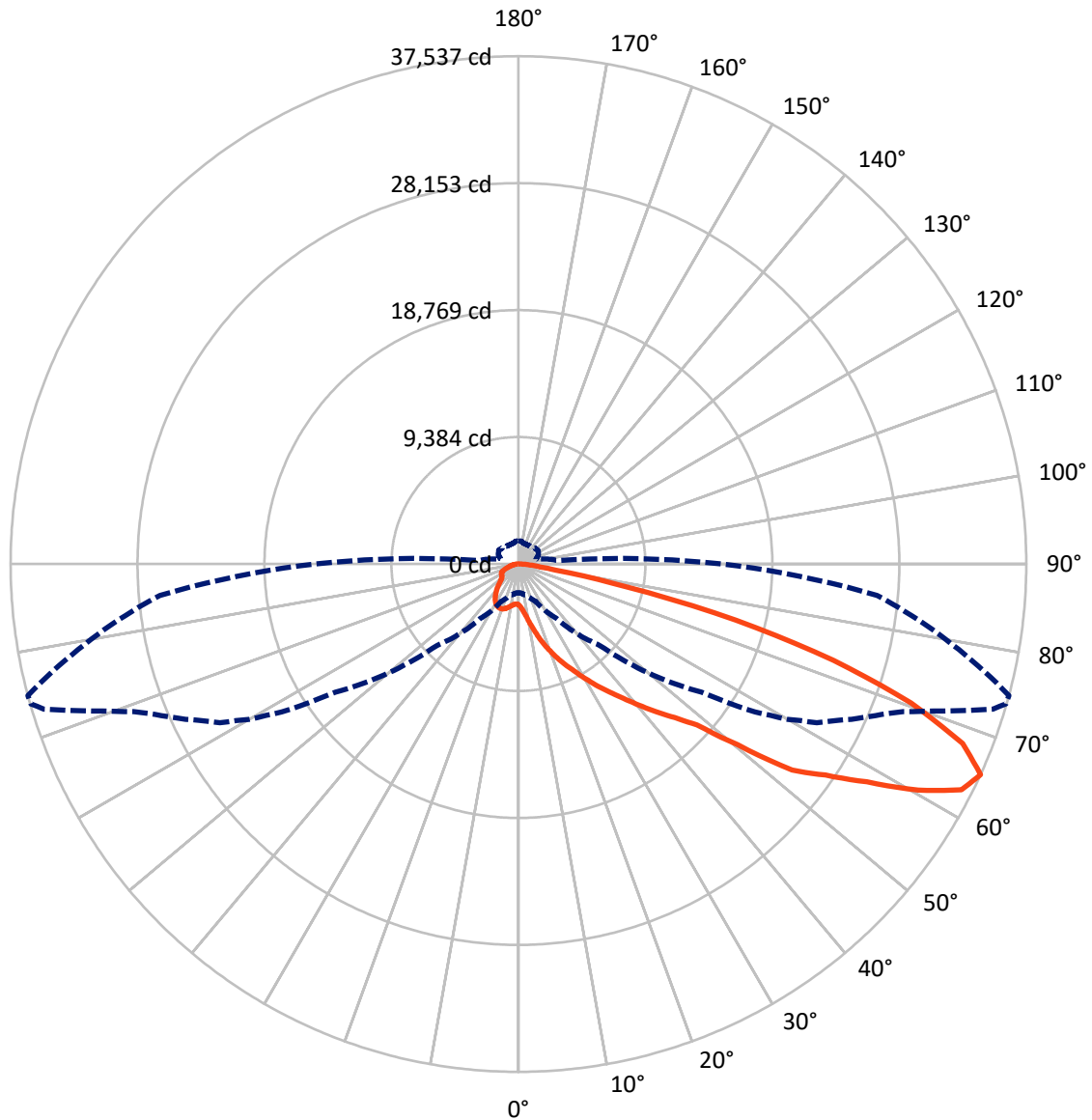
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5718.4 | 0.0 | 5718.4 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 31371.6 | 0.0 | 31371.6 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 37090.0 | 0.0 | 37090.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 372.6 | 1.0 |
| 10°-20° | 1455.7 | 3.9 |
| 20°-30° | 2986.7 | 8.1 |
| 30°-40° | 5024.9 | 13.5 |
| 40°-50° | 6943.1 | 18.7 |
| 50°-60° | 8667.0 | 23.4 |
| 60°-70° | 7799.4 | 21.0 |
| 70°-80° | 3269.4 | 8.8 |
| 80°-90° | 571.2 | 1.5 |
| 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° | 37090.0 | 100.0 |
| 0°-180° | 37090.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192214

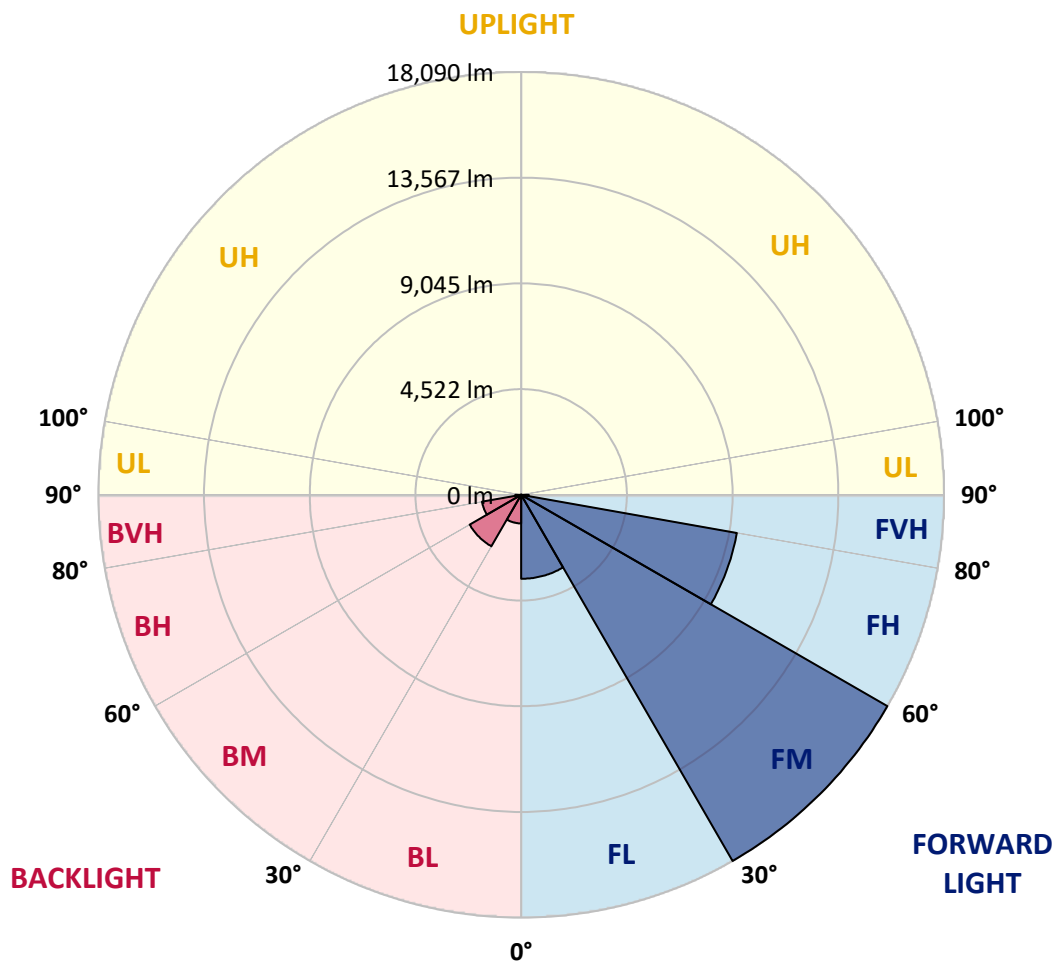
CATALOG NUMBER: GAN-AF-06-LED-U-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3592.1 | 9.7 | | | |
| FM (30°-60°) | 18089.7 | 48.8 | | | |
| FH (60°-80°) | 9368.8 | 25.3 | | | G4/12000 |
| FVH (80°-90°) | 321.0 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1222.9 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 2545.3 | 6.9 | B3/5000 | | |
| BH (60°-80°) | 1700.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 250.1 | 0.7 | | | G3/500 |
| 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: P192214

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 |
| 2.5° | 3827.1 | 3785.0 | 3795.5 | 3725.3 | 3639.2 | 3526.9 | 3402.2 | 3400.5 | 3402.2 | 3390.0 | 3344.3 |
| 5° | 5307.0 | 5256.1 | 5236.8 | 5078.8 | 4847.1 | 4517.0 | 4158.9 | 4120.3 | 4104.5 | 4064.1 | 3971.0 |
| 7.5° | 6386.7 | 6358.6 | 6328.7 | 6209.4 | 5998.7 | 5630.0 | 5149.0 | 5066.5 | 4987.5 | 4968.2 | 4862.9 |
| 10° | 7083.6 | 7076.6 | 7013.4 | 6981.8 | 6850.1 | 6530.6 | 6061.9 | 5982.9 | 5896.9 | 5867.0 | 5756.4 |
| 12.5° | 7634.9 | 7633.1 | 7603.3 | 7612.0 | 7497.9 | 7266.2 | 6862.4 | 6790.5 | 6727.3 | 6636.0 | 6557.0 |
| 15° | 8015.8 | 8017.6 | 8061.5 | 8110.6 | 8093.1 | 7936.8 | 7557.6 | 7526.0 | 7471.6 | 7408.4 | 7315.4 |
| 17.5° | 8328.3 | 8337.1 | 8382.7 | 8472.3 | 8568.8 | 8556.5 | 8256.3 | 8230.0 | 8182.6 | 8096.6 | 8047.4 |
| 20° | 9034.0 | 9067.4 | 8979.6 | 8979.6 | 8990.1 | 9037.5 | 8893.6 | 8872.5 | 8805.8 | 8760.2 | 8721.6 |
| 22.5° | 10226.1 | 10264.7 | 10066.3 | 9864.4 | 9666.0 | 9522.1 | 9378.1 | 9404.5 | 9358.8 | 9327.2 | 9304.4 |
| 25° | 11774.4 | 11804.3 | 11483.0 | 11142.4 | 10738.7 | 10212.0 | 9855.6 | 9839.8 | 9815.3 | 9795.9 | 9785.4 |
| 27.5° | 13231.5 | 13243.8 | 12940.1 | 12441.6 | 11972.8 | 11216.2 | 10340.2 | 10320.9 | 10291.0 | 10254.1 | 10222.5 |
| 30° | 14478.0 | 14474.5 | 14162.0 | 13686.2 | 13184.1 | 12346.8 | 11075.7 | 11016.0 | 10928.3 | 10828.2 | 10751.0 |
| 32.5° | 15557.6 | 15552.4 | 15210.0 | 14716.7 | 14190.1 | 13466.8 | 12083.4 | 11960.5 | 11823.6 | 11628.7 | 11511.1 |
| 35° | 16407.3 | 16403.8 | 16080.8 | 15566.4 | 14962.5 | 14521.9 | 13238.6 | 13087.6 | 12913.8 | 12652.2 | 12471.4 |
| 37.5° | 16728.6 | 16728.6 | 16547.8 | 16196.7 | 15663.0 | 15361.0 | 14521.9 | 14339.3 | 14153.2 | 13856.5 | 13652.9 |
| 40° | 16540.8 | 16544.3 | 16582.9 | 16517.9 | 16258.1 | 16026.4 | 15719.2 | 15610.3 | 15450.6 | 15183.7 | 14971.3 |
| 42.5° | 15910.5 | 15929.8 | 16186.1 | 16500.4 | 16630.3 | 16593.4 | 16781.3 | 16732.1 | 16619.8 | 16414.4 | 16245.8 |
| 45° | 15111.7 | 15171.4 | 15452.3 | 16045.7 | 16733.9 | 17083.2 | 17671.3 | 17676.6 | 17655.5 | 17544.9 | 17415.0 |
| 47.5° | 14014.5 | 14098.8 | 14469.2 | 15271.5 | 16491.6 | 17559.0 | 18575.4 | 18622.8 | 18666.7 | 18594.7 | 18535.1 |
| 50° | 12557.4 | 12657.5 | 13212.2 | 14276.1 | 15998.3 | 18052.3 | 20283.6 | 20497.8 | 20697.9 | 20673.3 | 20713.7 |
| 52.5° | 10996.7 | 11114.4 | 11793.8 | 12978.7 | 15150.4 | 18166.4 | 21375.5 | 21724.9 | 22074.2 | 22360.4 | 22664.1 |
| 55° | 9588.8 | 9525.6 | 10205.0 | 11453.2 | 13756.5 | 17652.0 | 22356.9 | 22778.2 | 23167.9 | 23519.0 | 23880.7 |
| 57.5° | 7680.5 | 7784.1 | 8465.2 | 9699.4 | 11911.4 | 16200.2 | 23032.8 | 23649.0 | 24209.0 | 24790.1 | 25302.7 |
| 60° | 5614.2 | 5717.8 | 6456.9 | 7710.4 | 9908.3 | 13998.7 | 22516.6 | 23450.6 | 24347.7 | 25237.7 | 25932.9 |
| 62.5° | 3390.0 | 3467.2 | 4118.5 | 5312.3 | 7640.1 | 11388.2 | 20216.9 | 21442.2 | 22762.4 | 23826.3 | 24891.9 |
| 65° | 2110.2 | 2154.1 | 2394.6 | 3051.1 | 4906.8 | 8502.1 | 16517.9 | 17853.9 | 19275.9 | 20625.9 | 21733.7 |
| 67.5° | 1727.5 | 1743.3 | 1787.1 | 1927.6 | 2694.8 | 5544.0 | 12294.1 | 13477.3 | 14760.6 | 16066.8 | 17299.1 |
| 70° | 1553.7 | 1543.1 | 1543.1 | 1551.9 | 1727.5 | 2980.9 | 8049.2 | 8819.9 | 9889.0 | 11024.8 | 12151.9 |
| 72.5° | 1402.7 | 1392.1 | 1372.8 | 1346.5 | 1409.7 | 1818.7 | 4160.6 | 4741.7 | 5512.4 | 6521.9 | 7601.5 |
| 75° | 1260.5 | 1246.4 | 1223.6 | 1190.3 | 1234.1 | 1372.8 | 1997.8 | 2241.8 | 2617.5 | 3154.7 | 3756.9 |
| 77.5° | 1113.0 | 1095.5 | 1074.4 | 1049.8 | 1106.0 | 1067.4 | 1170.9 | 1258.7 | 1402.7 | 1574.7 | 1801.2 |
| 80° | 946.2 | 930.4 | 923.4 | 911.1 | 977.8 | 812.8 | 826.9 | 881.3 | 965.6 | 1058.6 | 1163.9 |
| 82.5° | 740.8 | 740.8 | 768.9 | 774.2 | 847.9 | 584.6 | 618.0 | 665.4 | 709.2 | 758.4 | 807.6 |
| 85° | 488.0 | 491.6 | 586.4 | 623.2 | 668.9 | 393.2 | 463.5 | 479.3 | 514.4 | 542.5 | 563.5 |
| 87.5° | 152.7 | 165.0 | 358.1 | 396.8 | 384.5 | 223.0 | 284.4 | 291.4 | 316.0 | 335.3 | 352.9 |
| 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: P192214

CATALOG NUMBER: GAN-AF-06-LED-U-T2R-7050

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 |
| 2.5° | 3344.3 | 3323.2 | 3303.9 | 3302.2 | 3288.1 | 3268.8 | 3275.8 | 3246.0 | 3247.8 | 3232.0 | 3214.4 |
| 5° | 3932.4 | 3918.4 | 3848.2 | 3828.8 | 3776.2 | 3742.8 | 3737.6 | 3667.3 | 3658.6 | 3618.2 | 3574.3 |
| 7.5° | 4778.6 | 4733.0 | 4634.6 | 4587.2 | 4497.7 | 4431.0 | 4399.4 | 4306.4 | 4260.7 | 4155.4 | 4108.0 |
| 10° | 5665.1 | 5607.2 | 5486.1 | 5419.4 | 5333.3 | 5226.3 | 5168.3 | 5033.1 | 4980.5 | 4883.9 | 4768.1 |
| 12.5° | 6486.7 | 6428.8 | 6304.2 | 6253.3 | 6139.1 | 6025.0 | 5961.8 | 5809.1 | 5740.6 | 5586.1 | 5494.9 |
| 15° | 7246.9 | 7189.0 | 7080.1 | 7027.4 | 6913.3 | 6820.3 | 6736.0 | 6585.1 | 6504.3 | 6360.3 | 6241.0 |
| 17.5° | 7984.2 | 7922.8 | 7828.0 | 7780.6 | 7670.0 | 7575.2 | 7483.9 | 7341.7 | 7259.2 | 7115.2 | 7008.1 |
| 20° | 8668.9 | 8623.2 | 8554.8 | 8491.6 | 8381.0 | 8295.0 | 8186.1 | 8063.2 | 7943.8 | 7838.5 | 7736.7 |
| 22.5° | 9265.8 | 9248.2 | 9174.5 | 9146.4 | 9051.6 | 8977.9 | 8883.1 | 8761.9 | 8675.9 | 8542.5 | 8447.7 |
| 25° | 9780.1 | 9774.9 | 9739.8 | 9731.0 | 9664.3 | 9594.1 | 9573.0 | 9472.9 | 9393.9 | 9276.3 | 9178.0 |
| 27.5° | 10222.5 | 10227.8 | 10219.0 | 10243.6 | 10226.1 | 10194.5 | 10196.2 | 10162.9 | 10117.2 | 10018.9 | 9932.9 |
| 30° | 10714.1 | 10686.0 | 10701.8 | 10736.9 | 10747.5 | 10751.0 | 10808.9 | 10828.2 | 10824.7 | 10759.7 | 10717.6 |
| 32.5° | 11409.3 | 11342.6 | 11281.1 | 11275.9 | 11311.0 | 11325.0 | 11423.3 | 11474.2 | 11518.1 | 11533.9 | 11541.0 |
| 35° | 12295.8 | 12162.4 | 12034.3 | 11965.8 | 11906.1 | 11921.9 | 11992.1 | 12074.6 | 12171.2 | 12237.9 | 12316.9 |
| 37.5° | 13412.4 | 13249.1 | 13022.6 | 12861.1 | 12820.8 | 12733.0 | 12778.6 | 12843.6 | 12938.4 | 13041.9 | 13178.9 |
| 40° | 14765.9 | 14518.4 | 14263.8 | 14049.6 | 13933.8 | 13772.3 | 13770.5 | 13758.2 | 13816.1 | 13912.7 | 14105.8 |
| 42.5° | 16068.5 | 15849.1 | 15578.7 | 15354.0 | 15203.0 | 14987.1 | 14943.2 | 14829.1 | 14855.4 | 14939.7 | 15127.5 |
| 45° | 17288.6 | 17107.8 | 16942.8 | 16683.0 | 16554.8 | 16321.3 | 16247.6 | 16112.4 | 16036.9 | 16075.5 | 16263.4 |
| 47.5° | 18470.1 | 18354.2 | 18182.2 | 18013.7 | 17915.3 | 17706.4 | 17611.6 | 17515.1 | 17418.5 | 17415.0 | 17611.6 |
| 50° | 20773.4 | 20711.9 | 20508.3 | 20332.7 | 20380.1 | 20123.8 | 20139.6 | 19879.8 | 19997.4 | 20011.5 | 20424.0 |
| 52.5° | 22938.0 | 23152.1 | 23303.1 | 23487.4 | 23606.8 | 23629.6 | 23708.6 | 23826.3 | 23968.5 | 24249.4 | 24632.1 |
| 55° | 24177.4 | 24446.0 | 24602.2 | 24742.7 | 24974.4 | 25023.5 | 25155.2 | 25311.5 | 25436.1 | 25752.1 | 26076.9 |
| 57.5° | 25650.3 | 26148.9 | 26391.1 | 26614.1 | 26926.6 | 27045.9 | 27265.4 | 27435.7 | 27597.2 | 27971.1 | 28364.4 |
| 60° | 26557.9 | 27165.3 | 27658.6 | 28011.5 | 28403.0 | 28683.9 | 29015.7 | 29282.5 | 29661.7 | 30109.4 | 30695.7 |
| 62.5° | 25836.4 | 26728.2 | 27383.0 | 27988.7 | 28520.6 | 29057.8 | 29533.5 | 30032.1 | 30607.9 | 31285.6 | 32195.0 |
| 65° | 22962.5 | 23870.2 | 24991.9 | 25620.4 | 26324.4 | 27153.0 | 27876.3 | 28683.9 | 29468.6 | 30455.2 | 31800.0 |
| 67.5° | 18485.9 | 19541.0 | 20801.5 | 21435.2 | 22244.5 | 23169.7 | 23980.8 | 24967.4 | 25883.8 | 27079.3 | 28741.8 |
| 70° | 13324.6 | 14688.7 | 15749.0 | 16410.8 | 17355.3 | 18308.6 | 19091.6 | 20239.7 | 20998.1 | 22223.5 | 23942.1 |
| 72.5° | 8437.2 | 9513.3 | 10812.4 | 11646.3 | 12485.4 | 13451.0 | 14251.5 | 15241.6 | 15949.1 | 17065.7 | 18622.8 |
| 75° | 4536.3 | 5329.8 | 6470.9 | 7262.7 | 8161.5 | 8986.6 | 9924.1 | 10587.7 | 11110.8 | 11993.9 | 13257.9 |
| 77.5° | 2126.0 | 2608.7 | 3186.3 | 3795.5 | 4404.7 | 5040.2 | 5658.1 | 6195.3 | 6420.0 | 6925.6 | 7671.7 |
| 80° | 1290.3 | 1446.6 | 1615.1 | 1802.9 | 2057.5 | 2262.9 | 2535.0 | 2731.6 | 2745.7 | 2905.4 | 3133.6 |
| 82.5° | 862.0 | 919.9 | 970.8 | 1018.2 | 1083.2 | 1134.1 | 1192.0 | 1260.5 | 1288.6 | 1325.4 | 1399.2 |
| 85° | 588.1 | 616.2 | 626.7 | 656.6 | 649.6 | 667.1 | 689.9 | 712.8 | 725.0 | 723.3 | 756.6 |
| 87.5° | 361.6 | 375.7 | 382.7 | 389.7 | 384.5 | 377.4 | 388.0 | 400.3 | 403.8 | 393.2 | 396.8 |
| 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: P192214

CATALOG NUMBER: GAN-AF-06-LED-U-T2R-7050

CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 | 3014.3 |
| 2.5° | 3217.9 | 3202.1 | 3186.3 | 3175.8 | 3172.3 | 3079.2 | 3038.8 | 3012.5 | 2956.3 | 2910.7 | 2873.8 |
| 5° | 3549.7 | 3516.4 | 3490.0 | 3458.4 | 3440.9 | 3205.6 | 3119.6 | 3059.9 | 2961.6 | 2903.7 | 2851.0 |
| 7.5° | 4083.4 | 3990.4 | 3935.9 | 3874.5 | 3821.8 | 3397.0 | 3254.8 | 3161.7 | 3024.8 | 2947.6 | 2887.9 |
| 10° | 4689.1 | 4592.5 | 4506.5 | 4411.7 | 4329.2 | 3651.5 | 3444.4 | 3300.4 | 3119.6 | 3019.5 | 2940.5 |
| 12.5° | 5364.9 | 5270.1 | 5161.3 | 5040.2 | 4934.8 | 3974.6 | 3686.6 | 3481.2 | 3233.7 | 3100.3 | 2989.7 |
| 15° | 6163.7 | 5996.9 | 5865.3 | 5724.8 | 5601.9 | 4360.8 | 3969.3 | 3684.9 | 3354.8 | 3174.0 | 3026.6 |
| 17.5° | 6906.3 | 6730.8 | 6551.7 | 6428.8 | 6286.6 | 4794.4 | 4253.7 | 3892.0 | 3454.9 | 3221.4 | 3033.6 |
| 20° | 7631.4 | 7440.0 | 7285.5 | 7120.5 | 6971.3 | 5243.8 | 4557.4 | 4074.6 | 3519.9 | 3223.2 | 2989.7 |
| 22.5° | 8270.4 | 8151.0 | 7979.0 | 7799.9 | 7648.9 | 5693.2 | 4841.8 | 4229.1 | 3544.4 | 3182.8 | 2912.5 |
| 25° | 8997.2 | 8870.8 | 8660.1 | 8509.1 | 8340.6 | 6151.4 | 5120.9 | 4348.5 | 3530.4 | 3107.3 | 2793.1 |
| 27.5° | 9773.1 | 9632.7 | 9416.7 | 9258.7 | 9055.1 | 6627.2 | 5377.2 | 4434.5 | 3477.7 | 2984.4 | 2633.3 |
| 30° | 10582.4 | 10454.3 | 10241.9 | 10082.1 | 9876.7 | 7131.0 | 5663.4 | 4492.4 | 3372.4 | 2814.1 | 2447.2 |
| 32.5° | 11451.4 | 11344.3 | 11133.7 | 10966.9 | 10747.5 | 7677.0 | 5930.2 | 4510.0 | 3212.6 | 2612.3 | 2250.6 |
| 35° | 12276.5 | 12202.8 | 12025.5 | 11869.2 | 11641.0 | 8193.1 | 6212.9 | 4501.2 | 3023.0 | 2391.1 | 2071.5 |
| 37.5° | 13205.2 | 13161.3 | 13073.5 | 12875.2 | 12596.0 | 8893.6 | 6551.7 | 4464.4 | 2791.3 | 2171.6 | 1934.6 |
| 40° | 14195.3 | 14198.9 | 14104.1 | 13968.9 | 13709.1 | 9743.3 | 6955.5 | 4392.4 | 2538.5 | 1978.5 | 1810.0 |
| 42.5° | 15243.4 | 15297.8 | 15252.2 | 15155.6 | 14906.3 | 10600.0 | 7438.2 | 4304.6 | 2292.7 | 1790.7 | 1687.1 |
| 45° | 16444.2 | 16510.9 | 16581.1 | 16438.9 | 16196.7 | 11730.6 | 8073.8 | 4190.5 | 2027.7 | 1634.4 | 1602.8 |
| 47.5° | 17829.3 | 17934.7 | 17997.9 | 17999.6 | 17757.3 | 13131.5 | 9106.0 | 4122.0 | 1792.4 | 1529.1 | 1562.4 |
| 50° | 20752.3 | 20785.7 | 20934.9 | 21194.7 | 21008.6 | 16374.0 | 10909.0 | 4079.9 | 1632.7 | 1464.1 | 1532.6 |
| 52.5° | 24963.9 | 25330.8 | 25588.8 | 25571.3 | 25318.5 | 18433.2 | 11902.6 | 3862.2 | 1537.9 | 1439.5 | 1518.5 |
| 55° | 26679.0 | 27137.2 | 27614.7 | 27741.1 | 27544.5 | 20190.5 | 12841.8 | 3644.5 | 1492.2 | 1457.1 | 1523.8 |
| 57.5° | 28964.7 | 29737.2 | 30392.0 | 30667.6 | 30383.2 | 22439.4 | 14077.7 | 3530.4 | 1478.2 | 1504.5 | 1557.2 |
| 60° | 31634.9 | 32590.0 | 33450.2 | 33945.2 | 33945.2 | 25023.5 | 15359.3 | 3483.0 | 1458.9 | 1574.7 | 1613.3 |
| 62.5° | 33350.1 | 34752.8 | 36051.9 | 36776.9 | 36755.9 | 26823.0 | 15928.1 | 3321.5 | 1415.0 | 1623.9 | 1690.6 |
| 65° | 33357.1 | 35024.9 | 36680.4 | 37494.9 | 37537.1 | 26601.8 | 14988.8 | 2933.5 | 1334.2 | 1630.9 | 1767.8 |
| 67.5° | 30576.3 | 32354.7 | 34284.1 | 35195.2 | 35405.8 | 24488.1 | 12975.2 | 2412.1 | 1202.5 | 1560.7 | 1795.9 |
| 70° | 25824.1 | 27560.3 | 29530.0 | 30425.4 | 30799.3 | 20875.2 | 10450.8 | 1859.1 | 1034.0 | 1406.2 | 1738.0 |
| 72.5° | 20345.0 | 22047.9 | 23419.0 | 24073.8 | 24365.2 | 15956.2 | 7610.3 | 1404.4 | 847.9 | 1185.0 | 1581.7 |
| 75° | 14404.3 | 15682.3 | 16410.8 | 16556.6 | 16602.2 | 9618.6 | 4624.1 | 1044.5 | 698.7 | 921.7 | 1336.0 |
| 77.5° | 8129.9 | 8677.7 | 8618.0 | 8682.9 | 8142.2 | 3713.0 | 2013.6 | 747.9 | 575.8 | 700.5 | 1035.8 |
| 80° | 3174.0 | 3272.3 | 3074.0 | 3012.5 | 2763.2 | 1381.6 | 888.3 | 521.4 | 460.0 | 530.2 | 725.0 |
| 82.5° | 1399.2 | 1444.8 | 1402.7 | 1413.2 | 1351.8 | 712.8 | 531.9 | 377.4 | 351.1 | 388.0 | 481.0 |
| 85° | 770.7 | 784.7 | 781.2 | 804.0 | 770.7 | 284.4 | 252.8 | 231.7 | 245.8 | 263.3 | 309.0 |
| 87.5° | 375.7 | 379.2 | 366.9 | 386.2 | 373.9 | 144.0 | 124.6 | 131.7 | 144.0 | 147.5 | 147.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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