

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: P191148

Luminaire Tested: **GAN-AF-10-LED-U-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56482.2 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

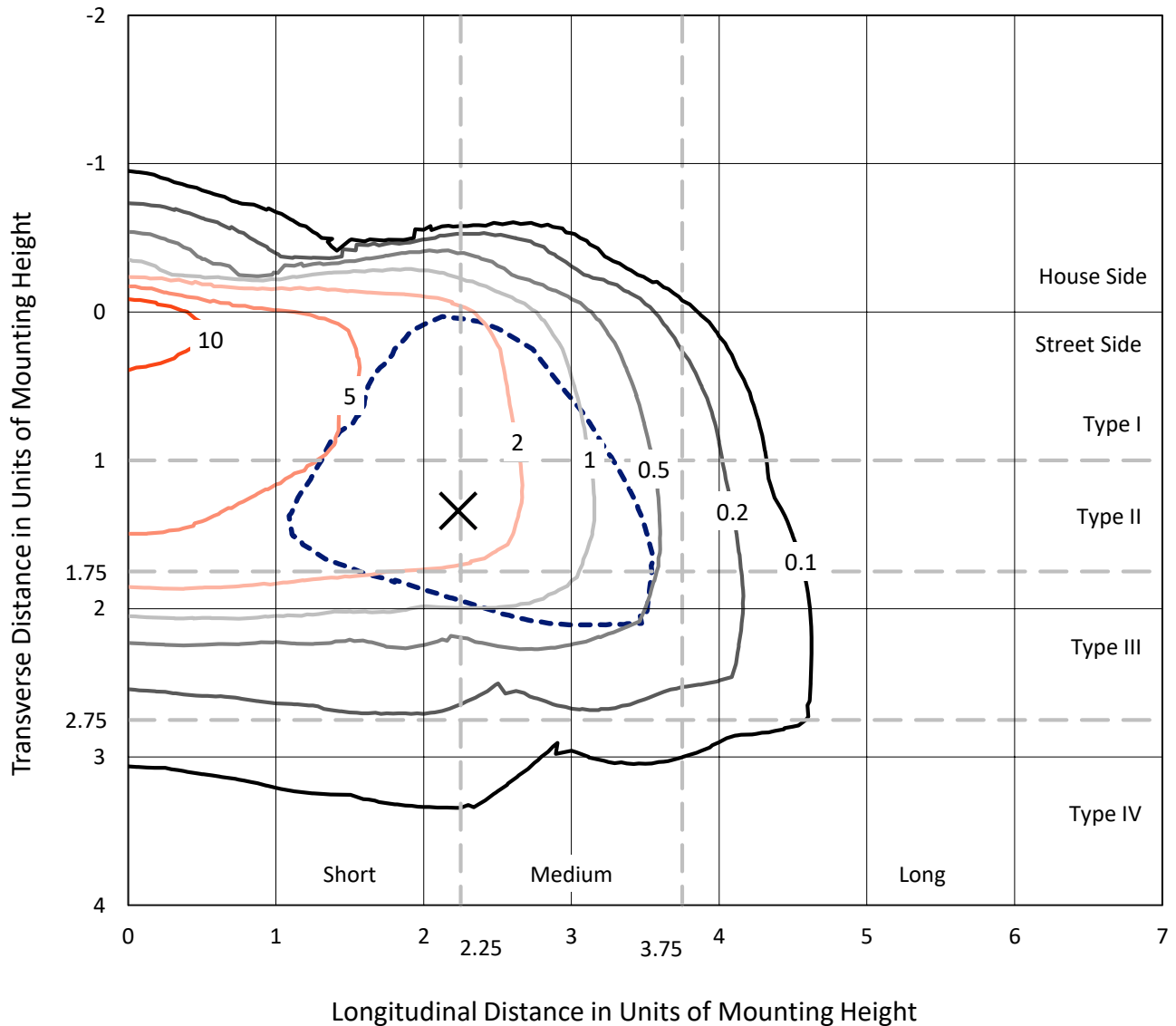
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191148
 CATALOG NUMBER: GAN-AF-10-LED-U-SL3-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

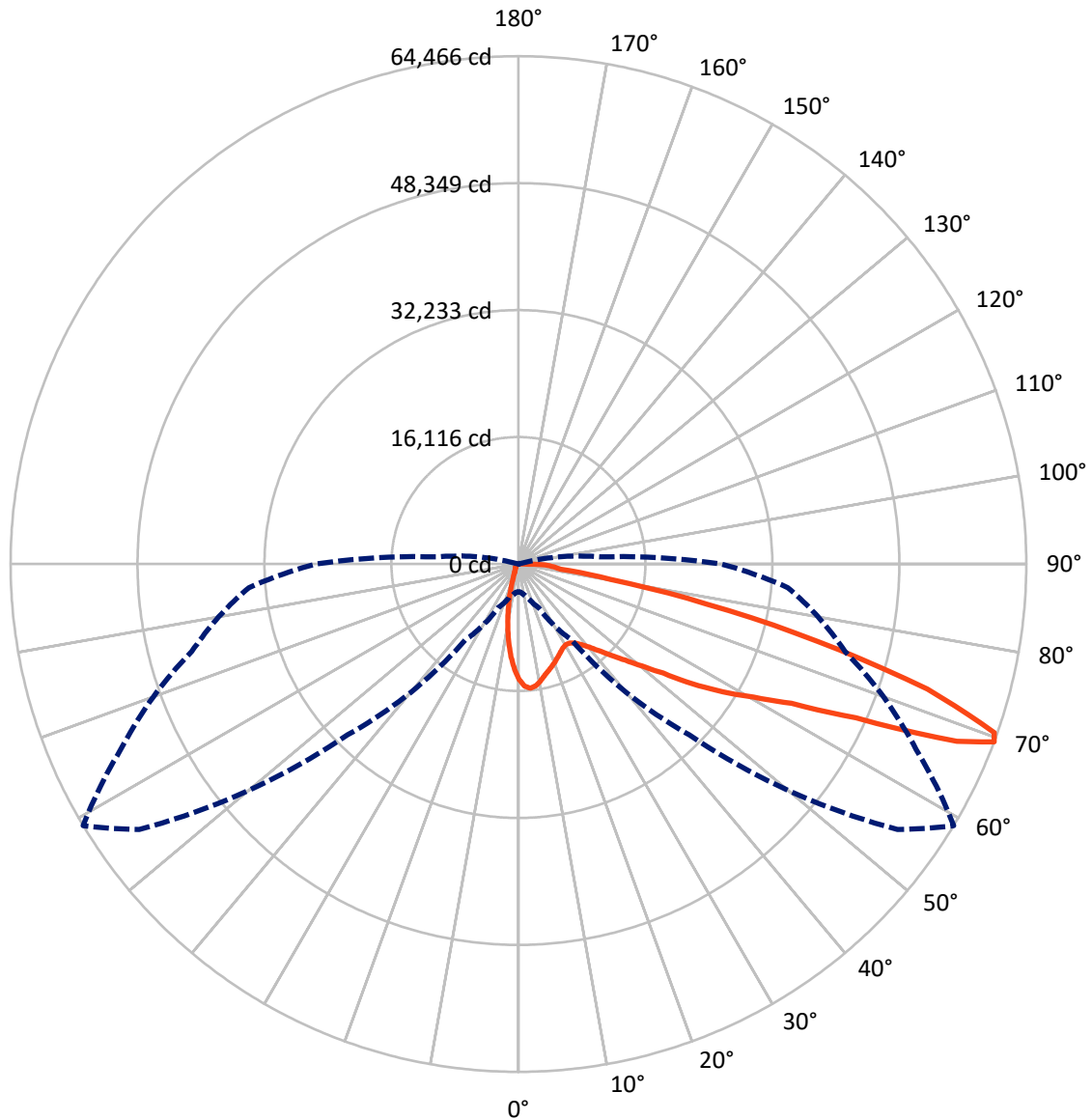
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191148
CATALOG NUMBER: GAN-AF-10-LED-U-SL3-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P191148

CATALOG NUMBER: GAN-AF-10-LED-U-SL3-1200-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4599.7 | 0.0 | 4599.7 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 51882.5 | 0.0 | 51882.5 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 56482.2 | 0.0 | 56482.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1193.3 | 2.1 |
| 10°-20° | 2465.7 | 4.4 |
| 20°-30° | 3318.0 | 5.9 |
| 30°-40° | 4817.5 | 8.5 |
| 40°-50° | 8021.5 | 14.2 |
| 50°-60° | 12513.4 | 22.2 |
| 60°-70° | 15484.4 | 27.4 |
| 70°-80° | 7847.3 | 13.9 |
| 80°-90° | 821.1 | 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° | 56482.2 | 100.0 |
| 0°-180° | 56482.2 | 100.0 |



REPORT NUMBER: P191148

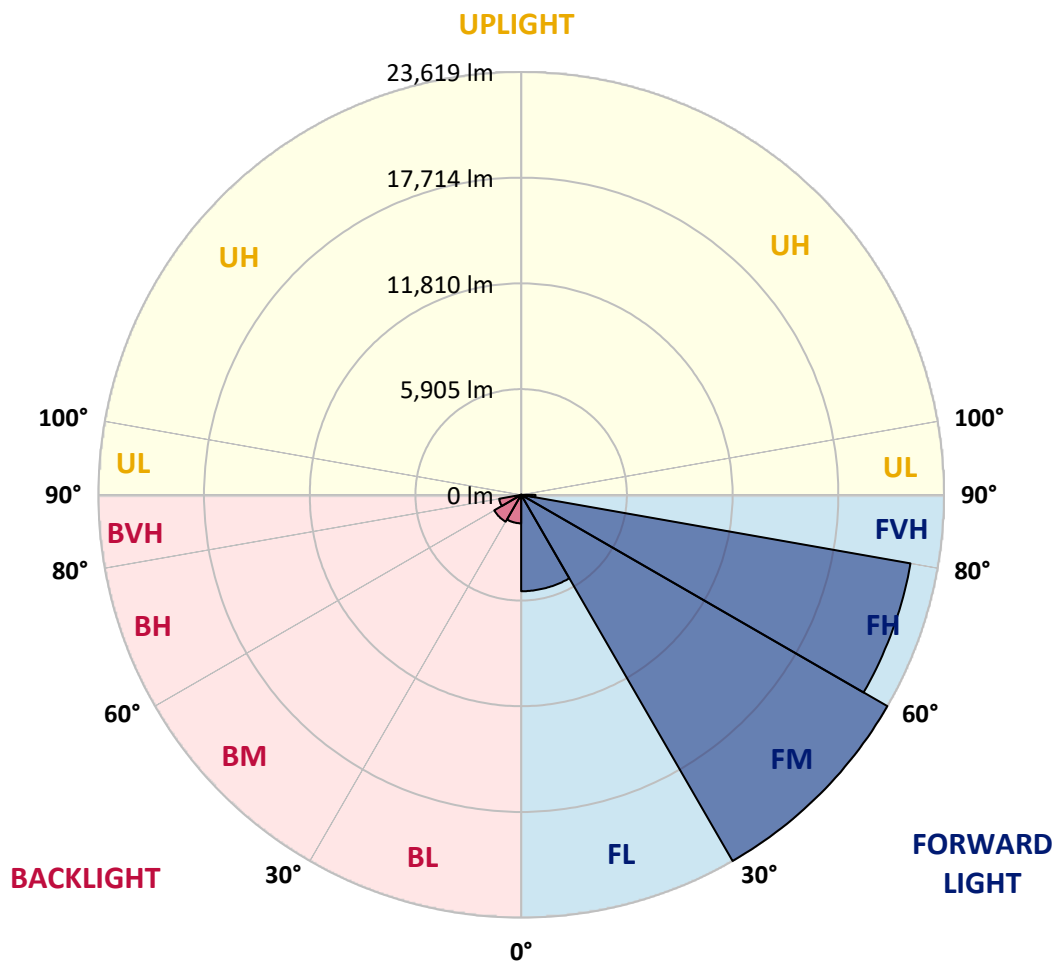
CATALOG NUMBER: GAN-AF-10-LED-U-SL3-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5385.0 | 9.5 | | | |
| FM (30°-60°) | 23619.2 | 41.8 | | | |
| FH (60°-80°) | 22082.5 | 39.1 | | | G5 |
| FVH (80°-90°) | 795.8 | 1.4 | | | G5 |
| BL (0°-30°) | 1592.1 | 2.8 | B3/2500 | | |
| BM (30°-60°) | 1733.2 | 3.1 | B2/2500 | | |
| BH (60°-80°) | 1249.2 | 2.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 25.3 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P191148
 CATALOG NUMBER: GAN-AF-10-LED-U-SL3-1200-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 |
| 2.5° | 16113.2 | 16106.9 | 16036.6 | 16004.7 | 15947.2 | 15825.8 | 15637.3 | 15538.3 | 15378.6 | 15100.8 | 14727.1 |
| 5° | 15966.3 | 16042.9 | 16084.5 | 16087.7 | 16129.2 | 16084.5 | 15915.3 | 15832.2 | 15611.8 | 15164.6 | 14494.0 |
| 7.5° | 14969.9 | 14998.6 | 15116.8 | 15219.0 | 15417.0 | 15605.4 | 15666.1 | 15631.0 | 15500.1 | 15020.9 | 14129.8 |
| 10° | 13903.0 | 13931.8 | 14072.3 | 14206.5 | 14474.8 | 14765.4 | 15072.1 | 15135.9 | 15190.2 | 14816.5 | 13778.5 |
| 12.5° | 12983.2 | 13011.9 | 13155.7 | 13331.4 | 13644.3 | 14002.0 | 14477.9 | 14583.4 | 14822.9 | 14621.6 | 13497.4 |
| 15° | 12191.1 | 12203.9 | 12344.5 | 12561.6 | 12935.3 | 13395.2 | 13935.0 | 14104.2 | 14471.6 | 14484.4 | 13251.5 |
| 17.5° | 11517.2 | 11549.1 | 11635.3 | 11843.0 | 12251.8 | 12820.3 | 13449.6 | 13692.3 | 14123.5 | 14369.4 | 13011.9 |
| 20° | 11105.3 | 11137.2 | 11134.0 | 11249.0 | 11616.2 | 12223.0 | 12964.1 | 13254.7 | 13778.5 | 14251.2 | 12797.9 |
| 22.5° | 11025.4 | 11025.4 | 10942.3 | 10926.3 | 11143.5 | 11651.4 | 12459.4 | 12814.0 | 13468.7 | 14200.1 | 12647.9 |
| 25° | 11309.6 | 11296.9 | 11089.2 | 10920.0 | 10929.5 | 11232.9 | 11970.8 | 12392.3 | 13206.8 | 14235.3 | 12568.0 |
| 27.5° | 11910.1 | 11894.1 | 11632.2 | 11309.6 | 11050.9 | 11047.8 | 11600.3 | 12053.8 | 12999.1 | 14401.3 | 12600.0 |
| 30° | 12740.4 | 12734.1 | 12449.8 | 12044.2 | 11574.7 | 11143.5 | 11472.5 | 11884.5 | 12865.0 | 14701.5 | 12673.4 |
| 32.5° | 13647.6 | 13638.0 | 13424.0 | 12996.0 | 12401.9 | 11574.7 | 11606.6 | 11951.5 | 12903.4 | 15100.8 | 12852.3 |
| 35° | 14609.0 | 14592.9 | 14500.3 | 14126.6 | 13471.9 | 12370.0 | 12047.4 | 12315.7 | 13146.1 | 15698.0 | 13203.6 |
| 37.5° | 15650.1 | 15666.1 | 15733.2 | 15375.5 | 14688.8 | 13484.6 | 12785.2 | 12967.2 | 13634.8 | 16509.3 | 13775.3 |
| 40° | 17186.4 | 17183.2 | 17205.5 | 16736.1 | 16075.0 | 14848.4 | 13816.8 | 13874.3 | 14452.5 | 17585.6 | 14644.1 |
| 42.5° | 19974.6 | 19779.9 | 19189.0 | 18230.8 | 17566.5 | 16407.1 | 15116.8 | 15056.1 | 15452.1 | 18917.5 | 15861.0 |
| 45° | 23721.1 | 23305.9 | 21772.9 | 19936.4 | 19086.7 | 18163.7 | 16716.9 | 16522.1 | 16774.3 | 20517.6 | 17362.0 |
| 47.5° | 26943.8 | 26512.6 | 24344.0 | 21712.1 | 20699.7 | 19830.9 | 18591.7 | 18240.4 | 18323.4 | 22309.4 | 19265.6 |
| 50° | 28039.3 | 27828.5 | 25934.5 | 23258.0 | 22261.6 | 21929.3 | 20766.7 | 20338.8 | 20220.6 | 24382.2 | 21472.7 |
| 52.5° | 27659.3 | 27643.2 | 26381.7 | 24260.9 | 23692.4 | 24101.2 | 23503.9 | 23008.9 | 22574.5 | 26566.9 | 23717.9 |
| 55° | 27049.2 | 27129.1 | 26563.7 | 25139.2 | 25120.1 | 26084.6 | 27247.2 | 26835.2 | 25576.8 | 28940.0 | 25653.5 |
| 57.5° | 25366.0 | 25707.8 | 26461.5 | 26800.1 | 27585.7 | 28572.7 | 30364.5 | 30607.2 | 29118.8 | 30757.3 | 27260.0 |
| 60° | 20581.6 | 21332.1 | 23797.8 | 27039.6 | 30763.7 | 33223.0 | 34126.9 | 34334.5 | 32025.3 | 32268.1 | 29428.7 |
| 62.5° | 14609.0 | 15375.5 | 18502.3 | 23986.3 | 30811.6 | 39333.0 | 39732.1 | 38917.8 | 35225.6 | 34507.0 | 33168.7 |
| 65° | 7754.8 | 8345.6 | 10900.8 | 17314.2 | 26713.8 | 40751.0 | 49534.2 | 47106.9 | 40872.4 | 38911.3 | 38001.1 |
| 67.5° | 3966.8 | 4145.7 | 5161.4 | 8473.4 | 18364.9 | 36196.5 | 58320.7 | 60029.4 | 50604.3 | 43280.6 | 37768.0 |
| 69° | 3510.1 | 3615.5 | 4289.4 | 6125.9 | 11759.9 | 30658.2 | 58748.7 | 64465.7 | 55698.5 | 42916.5 | 34321.7 |
| 70° | 3398.3 | 3490.9 | 4104.2 | 5544.6 | 9192.0 | 25710.9 | 57110.2 | 64076.1 | 57001.6 | 41530.4 | 31747.4 |
| 72.5° | 2884.1 | 2963.9 | 3653.9 | 4899.4 | 7470.5 | 12762.8 | 46391.4 | 54296.4 | 51150.4 | 34596.4 | 22980.2 |
| 75° | 1929.1 | 2191.1 | 3506.9 | 4592.8 | 6949.9 | 7250.2 | 30584.8 | 39237.1 | 36448.9 | 23334.6 | 11970.8 |
| 77.5° | 463.1 | 498.3 | 990.1 | 3653.9 | 6355.9 | 6381.4 | 15730.0 | 24391.9 | 19894.9 | 8316.9 | 2829.8 |
| 80° | 249.1 | 239.6 | 277.8 | 725.0 | 5918.3 | 5988.6 | 7080.9 | 11839.8 | 7103.3 | 1379.8 | 932.6 |
| 82.5° | 175.6 | 166.1 | 178.8 | 303.4 | 1862.1 | 5455.2 | 5123.0 | 5359.3 | 2944.8 | 530.2 | 418.4 |
| 85° | 63.8 | 60.7 | 99.0 | 274.7 | 584.5 | 3136.4 | 5263.6 | 4420.4 | 2385.8 | 242.7 | 306.6 |
| 87.5° | 22.4 | 19.1 | 38.4 | 150.1 | 178.8 | 1335.1 | 3248.2 | 3340.9 | 939.0 | 146.9 | 143.7 |
| 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: P191148
 CATALOG NUMBER: GAN-AF-10-LED-U-SL3-1200-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 | 14701.5 |
| 2.5° | 14570.6 | 14372.6 | 14008.5 | 13634.8 | 13289.9 | 12874.7 | 12667.0 | 12462.6 | 12376.4 | 12344.5 | 12194.3 |
| 5° | 14149.0 | 13813.6 | 13040.7 | 12264.6 | 11549.1 | 10789.0 | 10287.6 | 9885.2 | 9648.8 | 9533.8 | 9351.7 |
| 7.5° | 13609.2 | 13059.9 | 11887.7 | 10690.0 | 9575.3 | 8476.6 | 7662.2 | 7036.2 | 6605.0 | 6397.4 | 6208.9 |
| 10° | 13085.4 | 12354.0 | 10686.8 | 9054.8 | 7540.8 | 6084.4 | 4960.1 | 4145.7 | 3625.0 | 3385.6 | 3232.2 |
| 12.5° | 12616.0 | 11667.4 | 9527.5 | 7461.0 | 5560.6 | 3855.1 | 2711.6 | 2063.3 | 1740.7 | 1628.8 | 1574.6 |
| 15° | 12197.6 | 11035.0 | 8431.9 | 5947.0 | 3765.6 | 2203.8 | 1481.9 | 1261.6 | 1210.5 | 1210.5 | 1204.1 |
| 17.5° | 11801.5 | 10415.3 | 7374.8 | 4525.7 | 2363.5 | 1347.8 | 1127.5 | 1098.8 | 1098.8 | 1111.4 | 1111.4 |
| 20° | 11421.5 | 9824.4 | 6352.6 | 3248.2 | 1488.4 | 1070.0 | 1018.9 | 1012.5 | 1018.9 | 1034.8 | 1034.8 |
| 22.5° | 11095.6 | 9287.9 | 5397.7 | 2229.3 | 1105.1 | 964.5 | 939.0 | 929.5 | 932.6 | 942.2 | 948.6 |
| 25° | 10852.9 | 8834.3 | 4497.0 | 1510.7 | 951.8 | 878.3 | 849.6 | 833.6 | 820.8 | 820.8 | 827.3 |
| 27.5° | 10699.6 | 8451.1 | 3625.0 | 1098.8 | 856.0 | 798.5 | 753.8 | 728.2 | 699.5 | 683.5 | 689.9 |
| 30° | 10587.7 | 8086.9 | 2807.5 | 897.5 | 766.5 | 709.0 | 651.5 | 610.0 | 568.6 | 549.3 | 555.8 |
| 32.5° | 10546.3 | 7793.1 | 2098.4 | 792.1 | 686.7 | 622.8 | 552.5 | 498.3 | 453.6 | 437.5 | 440.8 |
| 35° | 10658.0 | 7560.0 | 1536.3 | 715.5 | 622.8 | 543.0 | 463.1 | 402.4 | 367.3 | 357.7 | 360.9 |
| 37.5° | 10951.9 | 7435.4 | 1149.8 | 651.5 | 565.3 | 475.9 | 386.5 | 329.0 | 306.6 | 306.6 | 309.9 |
| 40° | 11507.7 | 7432.2 | 923.0 | 606.8 | 514.2 | 412.0 | 319.4 | 277.8 | 265.0 | 271.5 | 274.7 |
| 42.5° | 12318.9 | 7601.4 | 804.9 | 565.3 | 469.5 | 351.3 | 265.0 | 236.3 | 233.1 | 239.6 | 242.7 |
| 45° | 13427.2 | 7911.3 | 741.0 | 530.2 | 421.6 | 293.8 | 223.6 | 204.4 | 204.4 | 214.0 | 217.2 |
| 47.5° | 14784.6 | 8364.9 | 686.7 | 495.0 | 373.7 | 245.9 | 191.6 | 178.8 | 182.1 | 191.6 | 194.9 |
| 50° | 16419.9 | 8936.5 | 632.4 | 456.7 | 338.6 | 204.4 | 166.1 | 156.5 | 159.7 | 172.5 | 175.6 |
| 52.5° | 18281.9 | 9706.3 | 587.7 | 421.6 | 293.8 | 169.3 | 140.6 | 134.1 | 140.6 | 153.3 | 156.5 |
| 55° | 19878.9 | 10396.1 | 533.4 | 392.8 | 236.3 | 140.6 | 115.0 | 115.0 | 121.3 | 137.4 | 140.6 |
| 57.5° | 21415.2 | 11117.9 | 485.5 | 338.6 | 185.3 | 111.8 | 95.9 | 99.0 | 108.6 | 124.6 | 127.8 |
| 60° | 23670.1 | 12341.3 | 428.0 | 284.3 | 140.6 | 89.4 | 79.9 | 83.1 | 95.9 | 111.8 | 115.0 |
| 62.5° | 27499.5 | 14203.3 | 370.5 | 236.3 | 108.6 | 70.3 | 63.8 | 70.3 | 86.2 | 105.4 | 108.6 |
| 65° | 30955.3 | 14960.2 | 303.4 | 198.0 | 83.1 | 54.3 | 54.3 | 63.8 | 83.1 | 102.2 | 105.4 |
| 67.5° | 29029.4 | 12593.5 | 236.3 | 156.5 | 63.8 | 41.5 | 44.7 | 60.7 | 79.9 | 102.2 | 105.4 |
| 69° | 25672.6 | 10297.1 | 201.2 | 124.6 | 54.3 | 38.4 | 41.5 | 60.7 | 79.9 | 99.0 | 102.2 |
| 70° | 23056.8 | 8693.9 | 178.8 | 105.4 | 47.9 | 38.4 | 41.5 | 57.5 | 79.9 | 99.0 | 102.2 |
| 72.5° | 15442.6 | 4695.0 | 143.7 | 76.6 | 44.7 | 35.1 | 35.1 | 57.5 | 76.6 | 95.9 | 99.0 |
| 75° | 6636.9 | 1296.7 | 115.0 | 54.3 | 38.4 | 31.9 | 31.9 | 54.3 | 73.4 | 92.6 | 99.0 |
| 77.5° | 1213.7 | 329.0 | 92.6 | 47.9 | 38.4 | 31.9 | 28.7 | 51.1 | 70.3 | 89.4 | 92.6 |
| 80° | 482.3 | 162.9 | 73.4 | 41.5 | 35.1 | 28.7 | 25.6 | 47.9 | 67.1 | 86.2 | 89.4 |
| 82.5° | 290.6 | 92.6 | 60.7 | 38.4 | 35.1 | 25.6 | 22.4 | 41.5 | 63.8 | 83.1 | 86.2 |
| 85° | 236.3 | 63.8 | 47.9 | 38.4 | 31.9 | 25.6 | 19.1 | 38.4 | 57.5 | 79.9 | 83.1 |
| 87.5° | 115.0 | 44.7 | 44.7 | 35.1 | 31.9 | 25.6 | 19.1 | 35.1 | 54.3 | 76.6 | 79.9 |
| 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)