

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: P191114

Luminaire Tested: **GAN-AF-06-LED-U-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191114
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-06-LED-U-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 20498.9 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

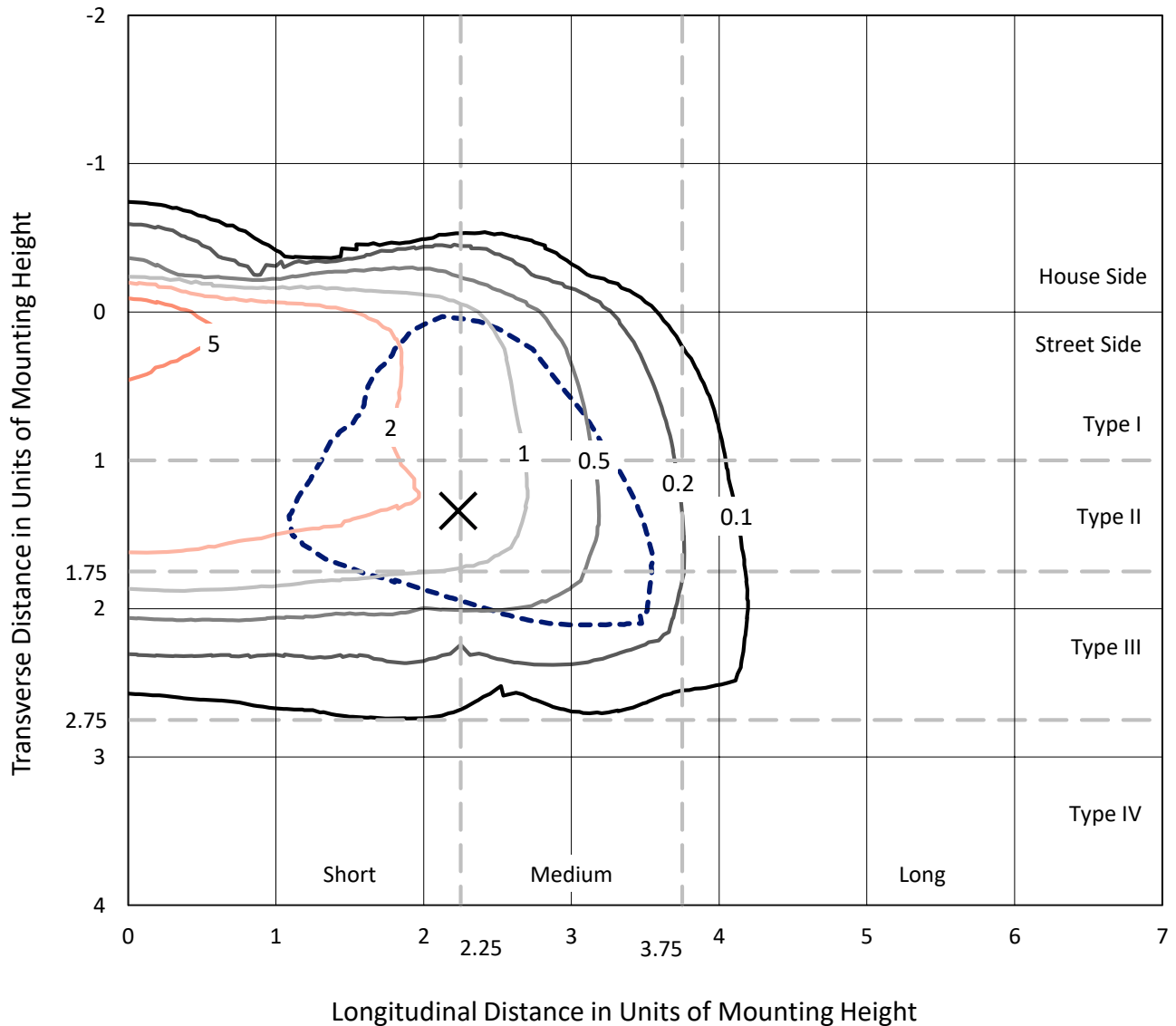
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191114
 CATALOG NUMBER: GAN-AF-06-LED-U-SL3-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

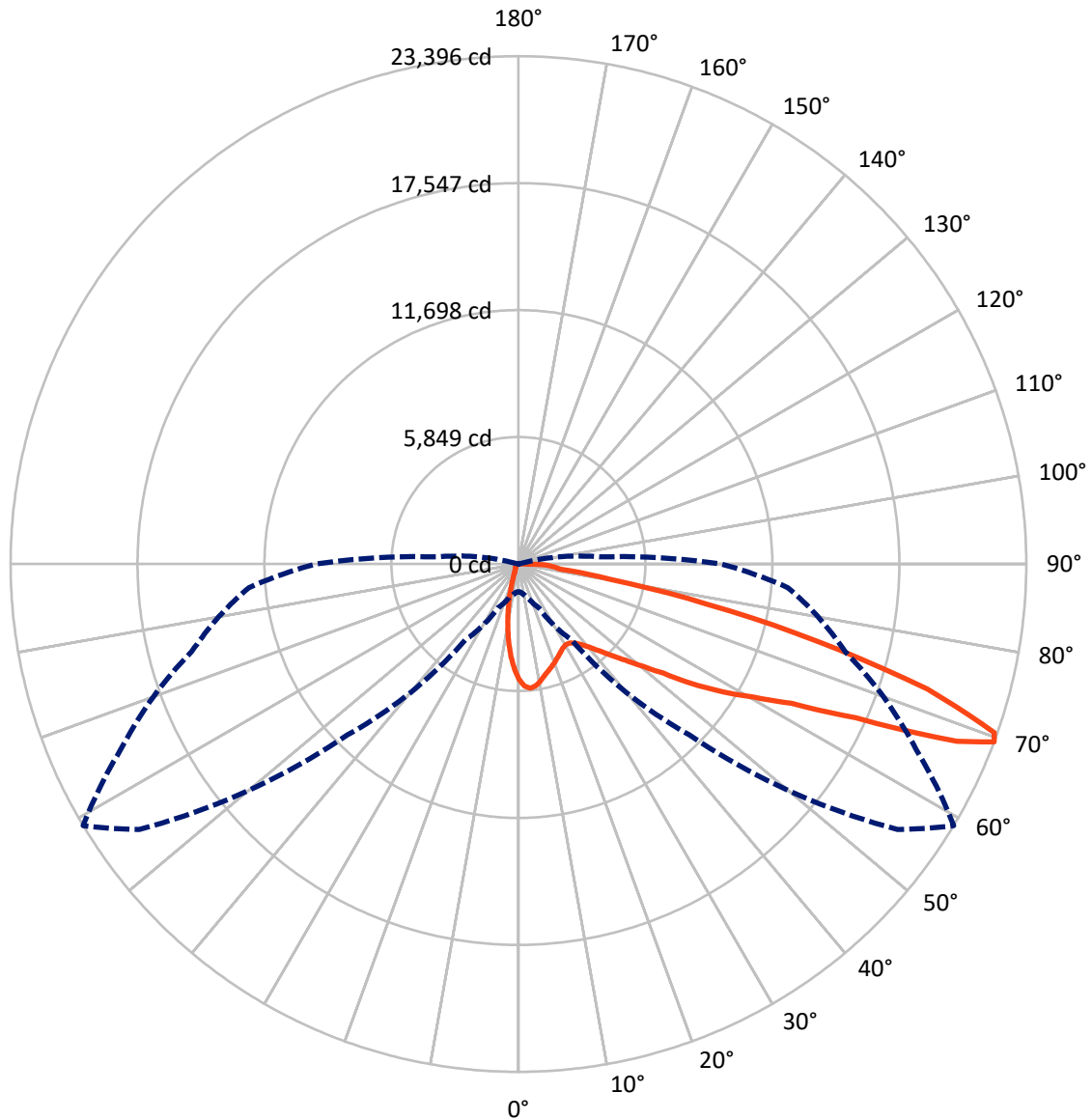
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191114
CATALOG NUMBER: GAN-AF-06-LED-U-SL3-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191114

CATALOG NUMBER: GAN-AF-06-LED-U-SL3-600-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1669.4 | 0.0 | 1669.4 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 18829.5 | 0.0 | 18829.5 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 20498.9 | 0.0 | 20498.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 433.1 | 2.1 |
| 10°-20° | 894.9 | 4.4 |
| 20°-30° | 1204.2 | 5.9 |
| 30°-40° | 1748.4 | 8.5 |
| 40°-50° | 2911.2 | 14.2 |
| 50°-60° | 4541.4 | 22.2 |
| 60°-70° | 5619.7 | 27.4 |
| 70°-80° | 2848.0 | 13.9 |
| 80°-90° | 298.0 | 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° | 20498.9 | 100.0 |
| 0°-180° | 20498.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P191114

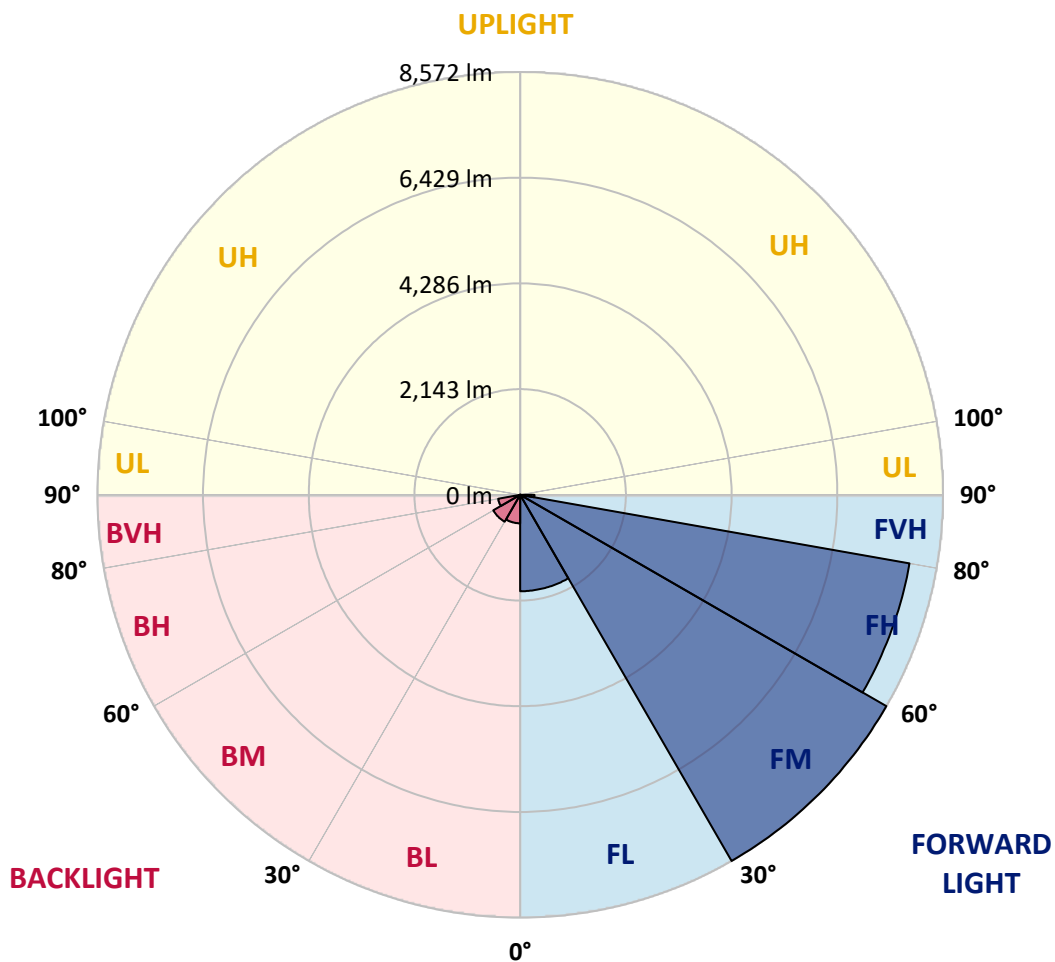
CATALOG NUMBER: GAN-AF-06-LED-U-SL3-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1954.3 | 9.5 | | | |
| FM | (30°-60°) | 8572.0 | 41.8 | | | |
| FH | (60°-80°) | 8014.3 | 39.1 | | | G4/12000 |
| FVH | (80°-90°) | 288.8 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 577.8 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 629.0 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 453.4 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 9.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P191114

CATALOG NUMBER: GAN-AF-06-LED-U-SL3-600-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 |
| 2.5° | 5847.9 | 5845.7 | 5820.1 | 5808.5 | 5787.7 | 5743.6 | 5675.2 | 5639.3 | 5581.3 | 5480.5 | 5344.8 |
| 5° | 5794.6 | 5822.4 | 5837.5 | 5838.7 | 5853.7 | 5837.5 | 5776.1 | 5745.9 | 5665.9 | 5503.7 | 5260.2 |
| 7.5° | 5433.0 | 5443.4 | 5486.3 | 5523.3 | 5595.2 | 5663.7 | 5685.7 | 5672.9 | 5625.4 | 5451.5 | 5128.1 |
| 10° | 5045.8 | 5056.2 | 5107.2 | 5155.9 | 5253.3 | 5358.7 | 5470.0 | 5493.2 | 5512.9 | 5377.3 | 5000.6 |
| 12.5° | 4711.9 | 4722.4 | 4774.5 | 4838.4 | 4951.9 | 5081.7 | 5254.5 | 5292.6 | 5379.6 | 5306.6 | 4898.6 |
| 15° | 4424.5 | 4429.2 | 4480.1 | 4559.0 | 4694.5 | 4861.5 | 5057.4 | 5118.8 | 5252.1 | 5256.7 | 4809.3 |
| 17.5° | 4179.9 | 4191.5 | 4222.8 | 4298.1 | 4446.6 | 4652.9 | 4881.2 | 4969.3 | 5125.8 | 5215.0 | 4722.4 |
| 20° | 4030.4 | 4042.0 | 4040.8 | 4082.5 | 4215.9 | 4436.1 | 4705.0 | 4810.5 | 5000.6 | 5172.1 | 4644.7 |
| 22.5° | 4001.4 | 4001.4 | 3971.3 | 3965.5 | 4044.2 | 4228.6 | 4521.9 | 4650.5 | 4888.2 | 5153.6 | 4590.3 |
| 25° | 4104.6 | 4099.9 | 4024.6 | 3963.1 | 3966.6 | 4076.8 | 4344.5 | 4497.5 | 4793.1 | 5166.3 | 4561.2 |
| 27.5° | 4322.5 | 4316.6 | 4221.6 | 4104.6 | 4010.7 | 4009.6 | 4210.1 | 4374.6 | 4717.7 | 5226.7 | 4572.9 |
| 30° | 4623.8 | 4621.6 | 4518.4 | 4371.2 | 4200.7 | 4044.2 | 4163.7 | 4313.2 | 4669.1 | 5335.6 | 4599.5 |
| 32.5° | 4953.0 | 4949.5 | 4871.9 | 4716.6 | 4501.0 | 4200.7 | 4212.4 | 4337.5 | 4683.0 | 5480.5 | 4664.5 |
| 35° | 5302.0 | 5296.1 | 5262.6 | 5126.9 | 4889.3 | 4489.4 | 4372.3 | 4469.7 | 4771.0 | 5697.2 | 4791.9 |
| 37.5° | 5679.8 | 5685.7 | 5710.0 | 5580.2 | 5330.9 | 4893.9 | 4640.1 | 4706.2 | 4948.4 | 5991.6 | 4999.5 |
| 40° | 6237.4 | 6236.2 | 6244.4 | 6074.0 | 5834.0 | 5388.9 | 5014.5 | 5035.4 | 5245.2 | 6382.3 | 5314.7 |
| 42.5° | 7249.3 | 7178.7 | 6964.1 | 6616.4 | 6375.3 | 5954.6 | 5486.3 | 5464.3 | 5608.0 | 6865.6 | 5756.3 |
| 45° | 8609.1 | 8458.4 | 7902.0 | 7235.4 | 6927.1 | 6592.1 | 6067.0 | 5996.3 | 6087.9 | 7446.4 | 6301.2 |
| 47.5° | 9778.6 | 9622.2 | 8835.0 | 7879.9 | 7512.4 | 7197.2 | 6747.4 | 6619.9 | 6650.1 | 8096.7 | 6992.0 |
| 50° | 10176.2 | 10099.7 | 9412.4 | 8441.0 | 8079.3 | 7958.8 | 7536.8 | 7381.5 | 7338.6 | 8848.9 | 7792.9 |
| 52.5° | 10038.3 | 10032.5 | 9574.6 | 8804.9 | 8598.6 | 8746.9 | 8530.2 | 8350.6 | 8192.9 | 9641.8 | 8607.8 |
| 55° | 9816.8 | 9845.8 | 9640.7 | 9123.7 | 9116.7 | 9466.8 | 9888.8 | 9739.2 | 9282.5 | 10503.0 | 9310.3 |
| 57.5° | 9206.0 | 9330.0 | 9603.6 | 9726.4 | 10011.6 | 10369.8 | 11020.0 | 11108.1 | 10568.0 | 11162.6 | 9893.4 |
| 60° | 7469.6 | 7742.0 | 8636.9 | 9813.4 | 11165.0 | 12057.5 | 12385.6 | 12460.9 | 11622.9 | 11710.9 | 10680.4 |
| 62.5° | 5302.0 | 5580.2 | 6715.0 | 8705.2 | 11182.4 | 14275.0 | 14419.8 | 14124.3 | 12784.3 | 12523.5 | 12037.8 |
| 65° | 2814.4 | 3028.9 | 3956.2 | 6283.8 | 9695.1 | 14789.6 | 17977.3 | 17096.4 | 14833.7 | 14121.9 | 13791.6 |
| 67.5° | 1439.7 | 1504.6 | 1873.2 | 3075.2 | 6665.1 | 13136.7 | 21166.2 | 21786.3 | 18365.6 | 15707.7 | 13707.0 |
| 69° | 1273.9 | 1312.1 | 1556.7 | 2223.3 | 4268.0 | 11126.7 | 21321.5 | 23396.3 | 20214.4 | 15575.6 | 12456.3 |
| 70° | 1233.4 | 1266.9 | 1489.5 | 2012.2 | 3336.0 | 9331.2 | 20726.8 | 23254.9 | 20687.4 | 15072.5 | 11522.0 |
| 72.5° | 1046.7 | 1075.7 | 1326.1 | 1778.1 | 2711.2 | 4632.0 | 16836.7 | 19705.6 | 18563.8 | 12555.9 | 8340.1 |
| 75° | 700.1 | 795.1 | 1272.8 | 1666.9 | 2522.3 | 2631.2 | 11100.0 | 14240.2 | 13228.3 | 8468.8 | 4344.5 |
| 77.5° | 168.1 | 180.9 | 359.4 | 1326.1 | 2306.8 | 2316.0 | 5708.8 | 8852.4 | 7220.4 | 3018.4 | 1027.0 |
| 80° | 90.4 | 87.0 | 100.9 | 263.1 | 2147.9 | 2173.5 | 2569.9 | 4297.0 | 2577.9 | 500.7 | 338.5 |
| 82.5° | 63.7 | 60.3 | 65.0 | 110.1 | 675.8 | 1979.8 | 1859.3 | 1945.0 | 1068.8 | 192.4 | 151.8 |
| 85° | 23.2 | 22.0 | 35.9 | 99.7 | 212.2 | 1138.3 | 1910.3 | 1604.3 | 865.9 | 88.1 | 111.3 |
| 87.5° | 8.1 | 7.0 | 13.9 | 54.5 | 65.0 | 484.6 | 1178.8 | 1212.5 | 340.7 | 53.3 | 52.2 |
| 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: P191114

CATALOG NUMBER: GAN-AF-06-LED-U-SL3-600-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 | 5335.6 |
| 2.5° | 5288.0 | 5216.2 | 5084.1 | 4948.4 | 4823.2 | 4672.5 | 4597.2 | 4523.0 | 4491.7 | 4480.1 | 4425.7 |
| 5° | 5135.0 | 5013.4 | 4732.8 | 4451.2 | 4191.5 | 3915.7 | 3733.7 | 3587.6 | 3501.8 | 3460.0 | 3394.0 |
| 7.5° | 4939.1 | 4739.7 | 4314.4 | 3879.6 | 3475.2 | 3076.4 | 2780.8 | 2553.6 | 2397.1 | 2321.8 | 2253.4 |
| 10° | 4749.0 | 4483.6 | 3878.5 | 3286.2 | 2736.8 | 2208.1 | 1800.2 | 1504.6 | 1315.6 | 1228.7 | 1173.0 |
| 12.5° | 4578.6 | 4234.4 | 3457.8 | 2707.8 | 2018.1 | 1399.1 | 984.1 | 748.8 | 631.8 | 591.2 | 571.4 |
| 15° | 4426.8 | 4004.9 | 3060.2 | 2158.3 | 1366.7 | 799.8 | 537.9 | 457.9 | 439.4 | 439.4 | 437.0 |
| 17.5° | 4283.1 | 3780.0 | 2676.4 | 1642.6 | 857.7 | 489.2 | 409.2 | 398.7 | 398.7 | 403.3 | 403.3 |
| 20° | 4145.1 | 3565.6 | 2305.5 | 1178.8 | 540.1 | 388.3 | 369.8 | 367.4 | 369.8 | 375.5 | 375.5 |
| 22.5° | 4026.9 | 3370.8 | 1959.0 | 809.1 | 401.1 | 350.1 | 340.7 | 337.3 | 338.5 | 342.0 | 344.2 |
| 25° | 3938.8 | 3206.2 | 1632.1 | 548.3 | 345.5 | 318.8 | 308.3 | 302.6 | 297.9 | 297.9 | 300.2 |
| 27.5° | 3883.1 | 3067.1 | 1315.6 | 398.7 | 310.7 | 289.8 | 273.5 | 264.3 | 253.9 | 248.1 | 250.4 |
| 30° | 3842.6 | 2934.9 | 1018.9 | 325.7 | 278.2 | 257.4 | 236.5 | 221.4 | 206.3 | 199.4 | 201.7 |
| 32.5° | 3827.6 | 2828.4 | 761.6 | 287.4 | 249.2 | 226.1 | 200.5 | 180.9 | 164.6 | 158.8 | 160.0 |
| 35° | 3868.1 | 2743.8 | 557.5 | 259.6 | 226.1 | 197.0 | 168.1 | 146.1 | 133.3 | 129.8 | 130.9 |
| 37.5° | 3974.8 | 2698.5 | 417.3 | 236.5 | 205.2 | 172.7 | 140.2 | 119.4 | 111.3 | 111.3 | 112.4 |
| 40° | 4176.4 | 2697.3 | 335.0 | 220.2 | 186.6 | 149.6 | 115.9 | 100.9 | 96.3 | 98.5 | 99.7 |
| 42.5° | 4470.8 | 2758.8 | 292.2 | 205.2 | 170.4 | 127.5 | 96.3 | 85.8 | 84.6 | 87.0 | 88.1 |
| 45° | 4873.0 | 2871.2 | 268.9 | 192.4 | 153.0 | 106.6 | 81.1 | 74.2 | 74.2 | 77.6 | 78.9 |
| 47.5° | 5365.7 | 3035.8 | 249.2 | 179.6 | 135.6 | 89.3 | 69.6 | 65.0 | 66.1 | 69.6 | 70.7 |
| 50° | 5959.2 | 3243.3 | 229.6 | 165.7 | 122.9 | 74.2 | 60.3 | 56.8 | 58.0 | 62.6 | 63.7 |
| 52.5° | 6635.0 | 3522.6 | 213.3 | 153.0 | 106.6 | 61.5 | 51.0 | 48.7 | 51.0 | 55.6 | 56.8 |
| 55° | 7214.6 | 3773.1 | 193.5 | 142.6 | 85.8 | 51.0 | 41.7 | 41.7 | 44.1 | 49.8 | 51.0 |
| 57.5° | 7772.1 | 4035.0 | 176.2 | 122.9 | 67.2 | 40.6 | 34.8 | 35.9 | 39.4 | 45.2 | 46.3 |
| 60° | 8590.5 | 4479.0 | 155.3 | 103.2 | 51.0 | 32.4 | 28.9 | 30.2 | 34.8 | 40.6 | 41.7 |
| 62.5° | 9980.3 | 5154.8 | 134.4 | 85.8 | 39.4 | 25.5 | 23.2 | 25.5 | 31.3 | 38.3 | 39.4 |
| 65° | 11234.6 | 5429.5 | 110.1 | 71.9 | 30.2 | 19.7 | 19.7 | 23.2 | 30.2 | 37.1 | 38.3 |
| 67.5° | 10535.6 | 4570.5 | 85.8 | 56.8 | 23.2 | 15.0 | 16.3 | 22.0 | 28.9 | 37.1 | 38.3 |
| 69° | 9317.2 | 3737.1 | 73.0 | 45.2 | 19.7 | 13.9 | 15.0 | 22.0 | 28.9 | 35.9 | 37.1 |
| 70° | 8367.9 | 3155.2 | 65.0 | 38.3 | 17.4 | 13.9 | 15.0 | 20.9 | 28.9 | 35.9 | 37.1 |
| 72.5° | 5604.5 | 1703.9 | 52.2 | 27.8 | 16.3 | 12.8 | 12.8 | 20.9 | 27.8 | 34.8 | 35.9 |
| 75° | 2408.7 | 470.7 | 41.7 | 19.7 | 13.9 | 11.6 | 11.6 | 19.7 | 26.7 | 33.7 | 35.9 |
| 77.5° | 440.5 | 119.4 | 33.7 | 17.4 | 13.9 | 11.6 | 10.4 | 18.5 | 25.5 | 32.4 | 33.7 |
| 80° | 175.0 | 59.1 | 26.7 | 15.0 | 12.8 | 10.4 | 9.3 | 17.4 | 24.3 | 31.3 | 32.4 |
| 82.5° | 105.5 | 33.7 | 22.0 | 13.9 | 12.8 | 9.3 | 8.1 | 15.0 | 23.2 | 30.2 | 31.3 |
| 85° | 85.8 | 23.2 | 17.4 | 13.9 | 11.6 | 9.3 | 7.0 | 13.9 | 20.9 | 28.9 | 30.2 |
| 87.5° | 41.7 | 16.3 | 16.3 | 12.8 | 11.6 | 9.3 | 7.0 | 12.8 | 19.7 | 27.8 | 28.9 |
| 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)