

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: P191290

Luminaire Tested: **GAN-AF-02-LED-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10948.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

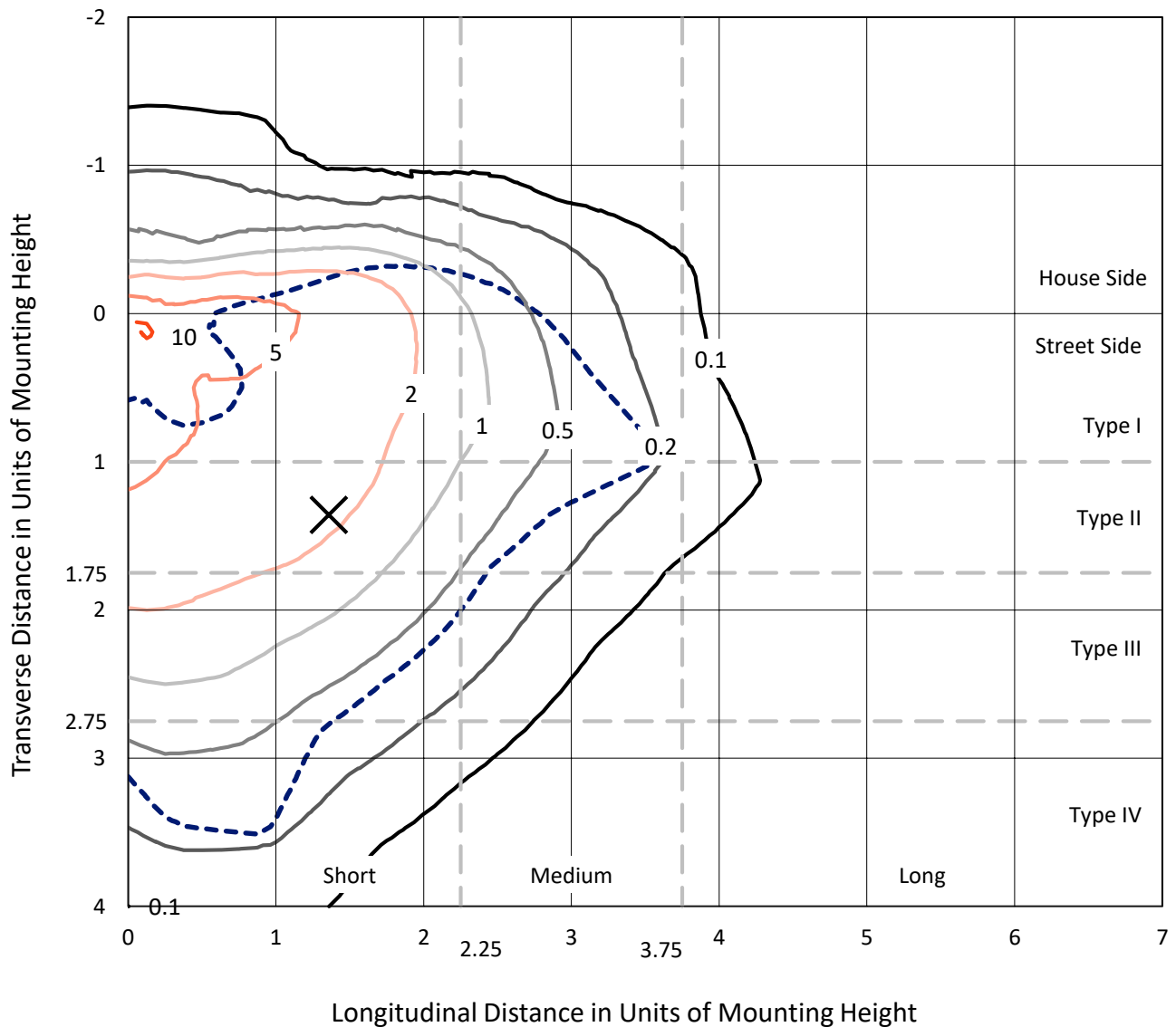
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191290
 CATALOG NUMBER: GAN-AF-02-LED-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

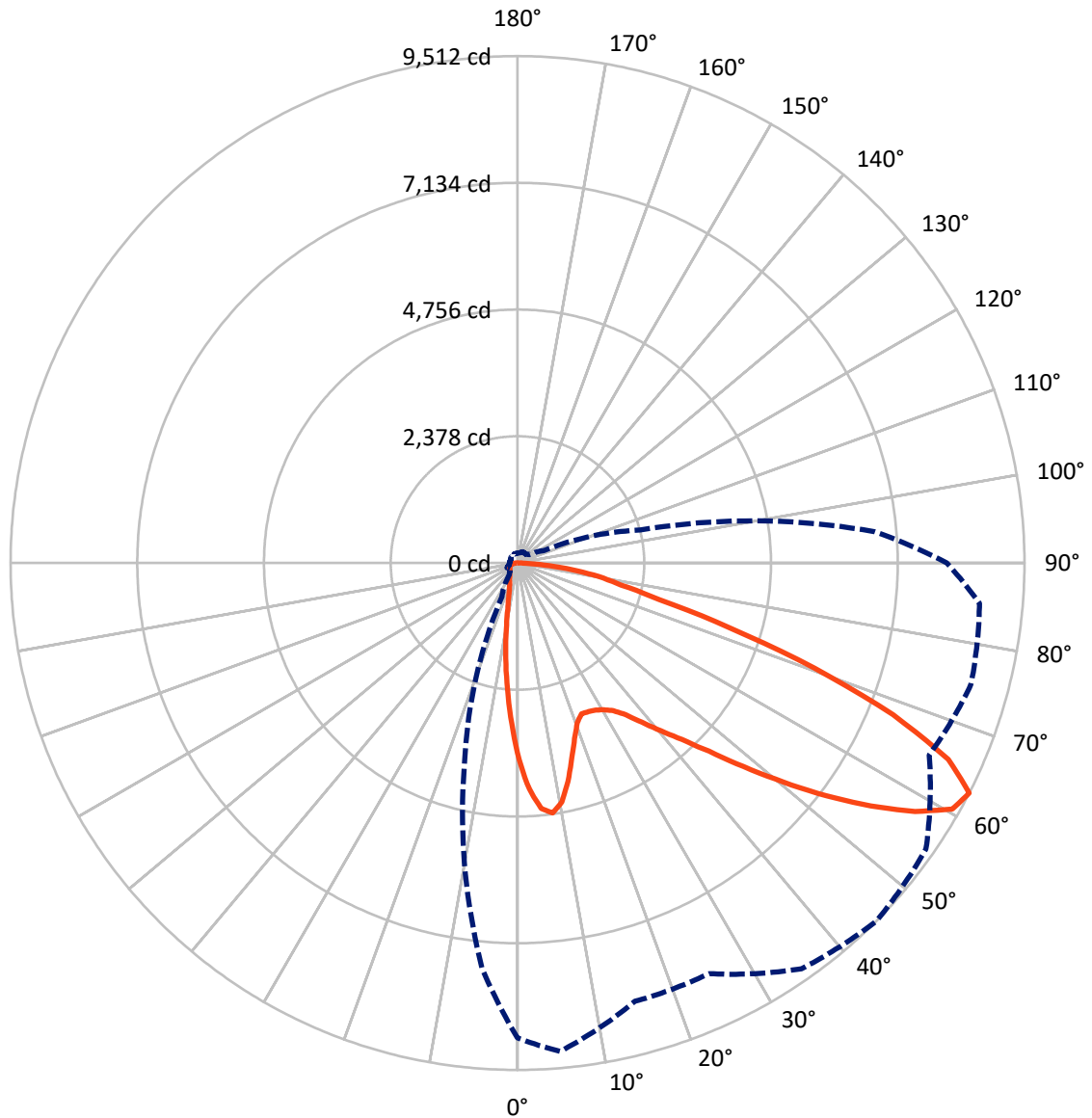


Based on 20 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - Non-Cutoff

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CATALOG NUMBER: GAN-AF-02-LED-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1811.8 | 0.0 | 1811.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 9136.8 | 0.0 | 9136.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 10948.6 | 0.0 | 10948.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.3 | 2.5 |
| 10°-20° | 493.8 | 4.5 |
| 20°-30° | 719.9 | 6.6 |
| 30°-40° | 1108.8 | 10.1 |
| 40°-50° | 1631.8 | 14.9 |
| 50°-60° | 2393.6 | 21.9 |
| 60°-70° | 2675.7 | 24.4 |
| 70°-80° | 1310.0 | 12.0 |
| 80°-90° | 345.9 | 3.2 |
| 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° | 10948.6 | 100.0 |
| 0°-180° | 10948.6 | 100.0 |

Coefficient of Utilization



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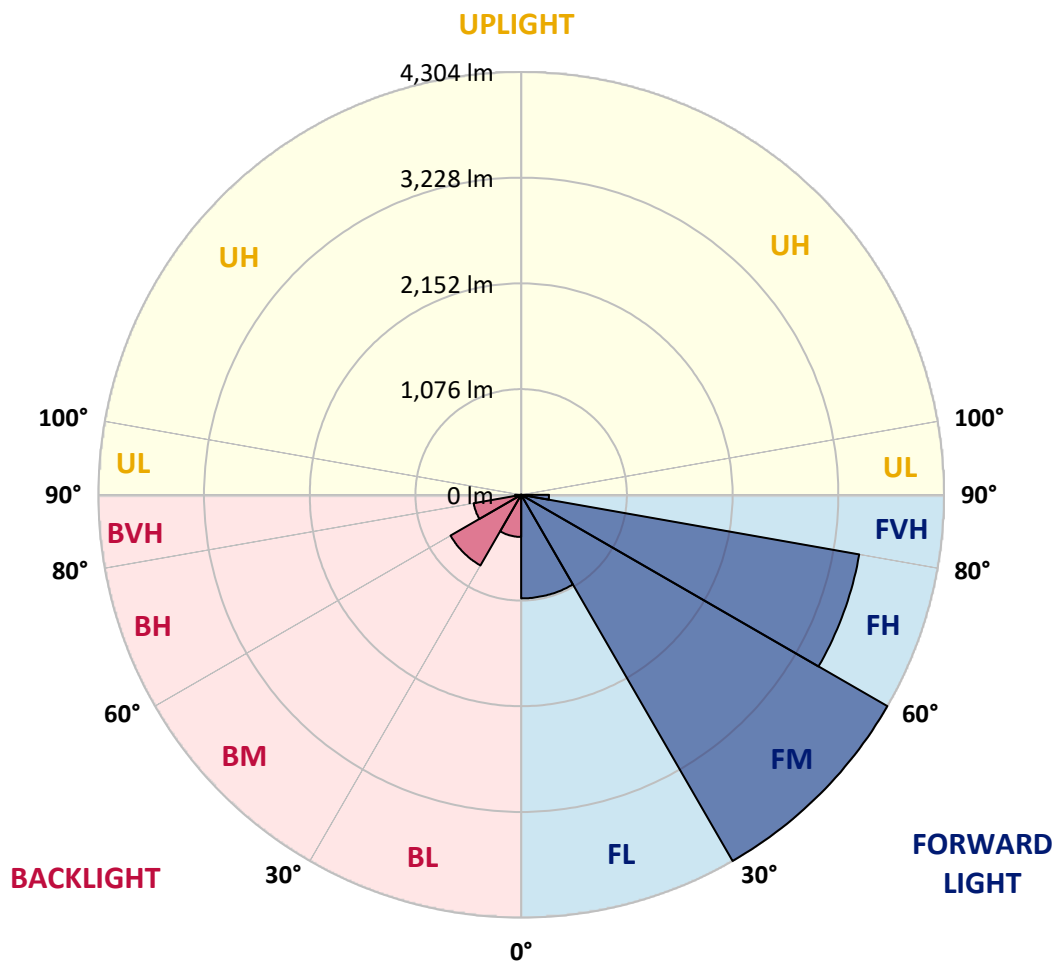
CATALOG NUMBER: GAN-AF-02-LED-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1054.3 | 9.6 | | | |
| FM | (30°-60°) | 4304.0 | 39.3 | | | |
| FH | (60°-80°) | 3494.4 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 284.0 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 428.7 | 3.9 | B1/500 | | |
| BM | (30°-60°) | 830.2 | 7.6 | B1/1000 | | |
| BH | (60°-80°) | 491.2 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 61.8 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P191290

CATALOG NUMBER: GAN-AF-02-LED-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 |
| 2.5° | 3843.5 | 3904.9 | 4024.7 | 4114.3 | 4223.3 | 4248.5 | 4283.4 | 4249.1 | 4188.4 | 4107.7 | 4081.3 |
| 5° | 3614.2 | 3745.4 | 4036.1 | 4291.9 | 4519.4 | 4625.3 | 4654.8 | 4567.6 | 4391.2 | 4159.4 | 4018.0 |
| 7.5° | 3246.4 | 3433.0 | 3826.7 | 4203.4 | 4538.6 | 4736.7 | 4731.9 | 4529.0 | 4204.6 | 3827.3 | 3600.4 |
| 10° | 2929.2 | 3142.3 | 3593.7 | 4015.0 | 4370.8 | 4562.7 | 4488.7 | 4229.3 | 3842.3 | 3407.8 | 3161.5 |
| 12.5° | 2751.7 | 2960.5 | 3418.6 | 3841.7 | 4139.0 | 4205.2 | 4148.7 | 3894.7 | 3529.9 | 3090.5 | 2875.1 |
| 15° | 2721.0 | 2950.3 | 3348.7 | 3693.1 | 3859.7 | 3802.0 | 3734.6 | 3620.8 | 3363.2 | 2988.2 | 2763.7 |
| 17.5° | 2854.0 | 3106.8 | 3428.8 | 3589.5 | 3561.2 | 3460.7 | 3441.4 | 3454.1 | 3392.1 | 3102.0 | 2843.2 |
| 20° | 3109.3 | 3412.6 | 3619.6 | 3540.7 | 3334.3 | 3195.9 | 3200.7 | 3393.9 | 3577.5 | 3390.3 | 3094.7 |
| 22.5° | 3467.3 | 3813.4 | 3894.7 | 3566.6 | 3238.7 | 3074.3 | 3114.1 | 3427.0 | 3873.0 | 3811.6 | 3434.3 |
| 25° | 3930.8 | 4246.2 | 4187.8 | 3660.5 | 3248.3 | 3089.3 | 3121.2 | 3541.4 | 4222.0 | 4232.9 | 3854.3 |
| 27.5° | 4379.8 | 4672.2 | 4433.9 | 3785.1 | 3288.0 | 3124.9 | 3167.0 | 3721.3 | 4555.5 | 4690.3 | 4334.7 |
| 30° | 4730.0 | 4933.5 | 4531.4 | 3898.9 | 3366.2 | 3194.1 | 3246.4 | 3892.2 | 4707.2 | 4999.1 | 4704.1 |
| 32.5° | 5020.1 | 5166.4 | 4686.6 | 4039.7 | 3510.1 | 3303.0 | 3395.1 | 4099.9 | 4925.6 | 5292.7 | 5065.9 |
| 35° | 5390.8 | 5432.4 | 4879.9 | 4196.8 | 3732.1 | 3492.6 | 3606.9 | 4303.3 | 5133.9 | 5589.5 | 5422.2 |
| 37.5° | 5825.4 | 5771.9 | 5062.3 | 4411.7 | 4019.3 | 3789.3 | 3883.8 | 4526.6 | 5305.4 | 5926.0 | 5786.3 |
| 40° | 6255.1 | 6126.4 | 5291.0 | 4745.1 | 4438.2 | 4139.0 | 4251.0 | 4764.9 | 5465.5 | 6263.0 | 6142.0 |
| 42.5° | 6620.4 | 6429.7 | 5516.7 | 5111.6 | 4828.1 | 4524.8 | 4658.4 | 5005.1 | 5618.4 | 6550.7 | 6450.7 |
| 45° | 6890.7 | 6653.6 | 5731.5 | 5463.7 | 5365.6 | 5037.6 | 5100.7 | 5280.2 | 5783.9 | 6790.8 | 6704.7 |
| 47.5° | 7132.0 | 6878.6 | 5974.6 | 5818.7 | 5835.6 | 5704.5 | 5602.7 | 5600.3 | 5978.9 | 6987.1 | 6944.9 |
| 50° | 7455.3 | 7191.0 | 6235.9 | 6184.8 | 6541.1 | 6453.8 | 6229.3 | 5974.0 | 6225.7 | 7209.7 | 7204.8 |
| 52.5° | 7900.7 | 7685.7 | 6554.9 | 6578.9 | 7199.4 | 7256.6 | 6978.6 | 6423.1 | 6612.0 | 7618.3 | 7589.5 |
| 55° | 8427.3 | 8302.1 | 6989.4 | 7032.2 | 8007.1 | 8048.1 | 7771.9 | 6984.6 | 7180.2 | 8210.0 | 8129.9 |
| 57.5° | 8838.3 | 8811.9 | 7466.1 | 7576.3 | 8610.3 | 8794.4 | 8540.4 | 7634.6 | 7820.6 | 8708.4 | 8507.3 |
| 60° | 9002.1 | 9130.2 | 7973.5 | 8125.1 | 9168.2 | 9372.2 | 9149.5 | 8205.8 | 8388.1 | 8914.8 | 8481.4 |
| 62.5° | 8913.6 | 9200.0 | 8513.9 | 8501.3 | 9292.8 | 9512.4 | 9355.9 | 8523.5 | 8808.8 | 8701.7 | 8052.3 |
| 65° | 8504.9 | 8949.1 | 8827.6 | 8404.4 | 8866.6 | 8884.6 | 8834.1 | 8381.5 | 8908.2 | 8028.2 | 7223.0 |
| 67.5° | 7614.7 | 8253.9 | 8414.6 | 7573.8 | 7717.0 | 7599.7 | 7514.8 | 7603.9 | 8390.5 | 7018.9 | 6070.4 |
| 70° | 6202.2 | 7163.9 | 7241.0 | 6057.7 | 5992.8 | 5913.9 | 5744.8 | 6234.1 | 7369.2 | 5752.6 | 4816.7 |
| 72.5° | 4560.3 | 5571.4 | 5808.0 | 4443.0 | 4142.0 | 4158.3 | 4024.7 | 4698.1 | 5991.5 | 4273.2 | 3596.1 |
| 75° | 3120.0 | 4034.3 | 4544.0 | 3100.2 | 2739.1 | 2745.7 | 2728.8 | 3328.9 | 4772.2 | 2972.6 | 2690.9 |
| 77.5° | 2279.2 | 2882.3 | 3427.0 | 2084.3 | 2023.5 | 1986.2 | 1977.2 | 2329.2 | 3658.7 | 2158.3 | 2089.7 |
| 80° | 1829.0 | 2129.4 | 2302.2 | 1444.5 | 1553.5 | 1550.4 | 1500.5 | 1601.5 | 2389.4 | 1578.7 | 1563.1 |
| 82.5° | 1268.8 | 1636.4 | 1865.1 | 1132.1 | 1048.4 | 1031.0 | 1043.0 | 1192.9 | 1688.8 | 1079.1 | 1026.2 |
| 85° | 669.3 | 1087.0 | 1847.1 | 1003.3 | 622.4 | 496.5 | 617.6 | 976.8 | 1463.1 | 571.7 | 500.7 |
| 87.5° | 85.4 | 314.1 | 1222.9 | 400.3 | 245.6 | 132.4 | 293.1 | 550.1 | 939.5 | 116.7 | 101.7 |
| 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: P191290

CATALOG NUMBER: GAN-AF-02-LED-U-SLL

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 |
| 2.5° | 4013.2 | 3933.1 | 3828.4 | 3731.5 | 3631.1 | 3531.1 | 3400.5 | 3318.7 | 3262.1 | 3251.2 | 3227.2 |
| 5° | 3915.8 | 3649.7 | 3448.7 | 3274.8 | 3117.0 | 2894.3 | 2771.0 | 2668.7 | 2613.8 | 2608.4 | 2595.2 |
| 7.5° | 3466.2 | 3099.0 | 2827.5 | 2581.4 | 2358.1 | 2178.2 | 1979.5 | 1886.8 | 1848.9 | 1858.0 | 1867.0 |
| 10° | 2998.5 | 2588.0 | 2276.3 | 2024.6 | 1827.8 | 1676.2 | 1516.7 | 1408.9 | 1334.3 | 1319.3 | 1316.2 |
| 12.5° | 2656.6 | 2206.4 | 1903.7 | 1726.1 | 1573.9 | 1431.2 | 1262.1 | 1135.1 | 1038.2 | 1005.2 | 982.9 |
| 15° | 2512.2 | 2019.8 | 1702.7 | 1511.3 | 1343.3 | 1162.2 | 1005.2 | 872.1 | 783.1 | 754.1 | 737.9 |
| 17.5° | 2542.9 | 1968.1 | 1564.2 | 1319.3 | 1104.4 | 915.4 | 717.4 | 603.6 | 550.1 | 536.2 | 536.2 |
| 20° | 2704.2 | 1958.4 | 1449.9 | 1142.3 | 874.5 | 655.4 | 493.0 | 427.9 | 410.5 | 408.7 | 413.5 |
| 22.5° | 2930.4 | 1992.2 | 1364.4 | 988.9 | 679.5 | 478.4 | 384.0 | 359.9 | 352.1 | 353.9 | 359.3 |
| 25° | 3267.5 | 2105.9 | 1302.4 | 852.2 | 533.3 | 391.8 | 342.5 | 328.1 | 324.4 | 329.2 | 335.8 |
| 27.5° | 3667.2 | 2219.7 | 1264.0 | 749.3 | 450.2 | 358.1 | 325.6 | 310.6 | 312.9 | 319.0 | 325.0 |
| 30° | 4018.0 | 2313.0 | 1203.1 | 675.9 | 424.3 | 359.9 | 325.6 | 305.1 | 302.7 | 303.9 | 305.8 |
| 32.5° | 4332.8 | 2376.1 | 1132.1 | 606.1 | 365.9 | 319.6 | 303.9 | 301.0 | 287.7 | 282.8 | 283.5 |
| 35° | 4604.2 | 2376.1 | 1089.3 | 565.2 | 328.1 | 283.5 | 258.2 | 243.2 | 236.5 | 237.1 | 243.8 |
| 37.5° | 4866.1 | 2328.6 | 1068.3 | 542.3 | 307.6 | 269.6 | 247.3 | 234.2 | 225.0 | 223.3 | 224.5 |
| 40° | 5097.2 | 2259.4 | 1044.2 | 532.7 | 292.0 | 261.2 | 240.2 | 229.3 | 219.7 | 216.7 | 217.3 |
| 42.5° | 5282.5 | 2203.4 | 1017.7 | 520.0 | 282.2 | 255.2 | 235.3 | 225.7 | 214.8 | 211.9 | 211.2 |
| 45° | 5482.9 | 2184.7 | 982.9 | 494.7 | 287.0 | 255.8 | 234.2 | 223.9 | 213.1 | 209.4 | 208.3 |
| 47.5° | 5747.1 | 2243.1 | 946.7 | 464.6 | 297.3 | 258.8 | 235.9 | 223.9 | 212.5 | 209.4 | 208.3 |
| 50° | 6080.0 | 2380.4 | 901.0 | 420.7 | 287.0 | 267.2 | 235.3 | 222.1 | 212.5 | 209.4 | 207.0 |
| 52.5° | 6507.3 | 2565.8 | 840.8 | 370.1 | 281.1 | 287.7 | 234.2 | 218.5 | 209.4 | 205.2 | 201.0 |
| 55° | 7026.8 | 2717.4 | 769.2 | 328.6 | 267.2 | 282.2 | 232.3 | 214.3 | 204.6 | 198.7 | 195.0 |
| 57.5° | 7407.1 | 2772.2 | 677.1 | 301.6 | 248.0 | 273.2 | 230.0 | 208.9 | 198.7 | 193.8 | 188.9 |
| 60° | 7331.9 | 2666.2 | 599.4 | 284.7 | 236.5 | 246.7 | 228.1 | 204.1 | 193.2 | 189.6 | 185.4 |
| 62.5° | 6729.4 | 2389.4 | 549.5 | 276.8 | 229.3 | 225.0 | 230.0 | 199.2 | 188.4 | 184.7 | 183.5 |
| 65° | 5826.0 | 1980.7 | 529.7 | 275.1 | 223.3 | 212.5 | 213.7 | 193.8 | 183.0 | 179.9 | 178.7 |
| 67.5° | 4805.8 | 1598.6 | 512.2 | 281.1 | 215.4 | 203.5 | 197.4 | 186.6 | 177.6 | 174.5 | 172.2 |
| 70° | 3789.9 | 1329.5 | 504.3 | 277.4 | 205.8 | 194.4 | 187.8 | 178.7 | 170.9 | 168.0 | 166.1 |
| 72.5° | 3052.1 | 1123.1 | 500.1 | 273.8 | 193.2 | 182.4 | 176.4 | 168.5 | 160.1 | 158.9 | 157.1 |
| 75° | 2582.5 | 882.9 | 458.0 | 262.4 | 178.7 | 168.0 | 163.7 | 156.5 | 148.0 | 148.0 | 146.9 |
| 77.5° | 1992.2 | 638.5 | 380.9 | 232.3 | 163.7 | 151.7 | 148.0 | 142.6 | 133.0 | 134.8 | 134.2 |
| 80° | 1471.5 | 416.4 | 297.9 | 192.6 | 145.1 | 133.6 | 131.9 | 126.4 | 116.2 | 118.6 | 118.6 |
| 82.5° | 1008.1 | 273.2 | 214.3 | 157.6 | 124.0 | 113.1 | 113.1 | 107.7 | 96.3 | 97.5 | 101.1 |
| 85° | 506.2 | 187.8 | 160.1 | 122.1 | 96.3 | 90.8 | 90.8 | 86.6 | 75.2 | 75.8 | 80.6 |
| 87.5° | 154.1 | 113.1 | 106.0 | 87.3 | 69.3 | 68.0 | 65.0 | 62.0 | 54.7 | 54.2 | 57.2 |
| 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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CATALOG NUMBER: GAN-AF-02-LED-U-SLL

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 | 3699.0 |
| 2.5° | 3190.5 | 3156.2 | 3114.7 | 3023.1 | 2992.4 | 2990.7 | 3018.3 | 2989.5 | 3044.8 | 3021.4 | 3047.3 |
| 5° | 2572.9 | 2539.3 | 2492.9 | 2376.1 | 2305.1 | 2256.9 | 2234.1 | 2166.7 | 2215.4 | 2179.9 | 2209.5 |
| 7.5° | 1892.3 | 1900.0 | 1869.3 | 1800.8 | 1646.1 | 1568.5 | 1522.7 | 1481.7 | 1517.3 | 1513.7 | 1570.2 |
| 10° | 1330.1 | 1351.2 | 1329.5 | 1260.3 | 1135.1 | 1092.4 | 1100.8 | 1117.1 | 1163.4 | 1187.4 | 1274.7 |
| 12.5° | 957.6 | 956.4 | 942.5 | 880.6 | 798.1 | 802.9 | 837.2 | 865.5 | 908.2 | 933.4 | 1022.5 |
| 15° | 715.0 | 704.2 | 698.2 | 647.6 | 600.7 | 610.9 | 627.8 | 630.8 | 657.9 | 672.9 | 745.1 |
| 17.5° | 540.4 | 545.8 | 552.5 | 516.4 | 480.9 | 474.2 | 461.0 | 444.8 | 452.6 | 455.6 | 491.7 |
| 20° | 429.1 | 450.8 | 467.1 | 441.8 | 405.7 | 386.4 | 369.6 | 358.7 | 358.7 | 358.1 | 368.4 |
| 22.5° | 374.9 | 390.6 | 408.1 | 390.6 | 358.1 | 341.3 | 331.6 | 323.2 | 322.0 | 322.0 | 331.6 |
| 25° | 345.5 | 356.9 | 373.8 | 361.7 | 337.7 | 325.0 | 316.0 | 305.1 | 301.0 | 299.7 | 306.4 |
| 27.5° | 331.0 | 335.8 | 344.2 | 333.5 | 312.9 | 307.0 | 304.5 | 294.9 | 289.5 | 286.5 | 293.1 |
| 30° | 306.4 | 305.1 | 305.8 | 294.9 | 278.7 | 278.0 | 282.2 | 284.1 | 282.2 | 281.7 | 292.0 |
| 32.5° | 283.5 | 281.1 | 280.5 | 270.9 | 255.8 | 252.2 | 255.8 | 259.4 | 263.6 | 269.6 | 281.7 |
| 35° | 254.6 | 260.6 | 264.2 | 255.8 | 237.7 | 226.9 | 222.7 | 216.0 | 212.5 | 212.5 | 226.3 |
| 37.5° | 231.7 | 245.6 | 250.9 | 243.2 | 223.3 | 208.3 | 201.0 | 199.8 | 200.4 | 202.9 | 216.0 |
| 40° | 223.9 | 234.2 | 239.0 | 231.1 | 211.2 | 197.4 | 193.2 | 192.0 | 193.2 | 196.8 | 210.0 |
| 42.5° | 219.1 | 226.3 | 225.7 | 216.0 | 199.8 | 190.2 | 187.8 | 186.6 | 187.8 | 191.4 | 205.8 |
| 45° | 214.8 | 219.7 | 214.8 | 203.5 | 188.4 | 183.5 | 184.1 | 183.5 | 184.7 | 188.4 | 202.2 |
| 47.5° | 211.2 | 213.1 | 207.0 | 195.6 | 179.9 | 178.7 | 181.2 | 183.0 | 184.1 | 187.2 | 201.6 |
| 50° | 205.8 | 205.8 | 200.4 | 188.4 | 172.8 | 173.3 | 176.4 | 180.6 | 181.2 | 184.7 | 196.2 |
| 52.5° | 199.2 | 198.7 | 195.0 | 183.5 | 166.7 | 168.5 | 168.5 | 173.3 | 174.5 | 178.7 | 190.8 |
| 55° | 193.8 | 192.6 | 190.8 | 179.9 | 161.3 | 164.3 | 162.5 | 164.3 | 167.4 | 171.5 | 184.7 |
| 57.5° | 188.9 | 186.6 | 186.6 | 177.0 | 157.1 | 158.3 | 154.1 | 156.5 | 160.1 | 163.7 | 177.6 |
| 60° | 184.1 | 181.8 | 183.0 | 172.8 | 150.5 | 149.2 | 147.4 | 152.3 | 153.4 | 157.6 | 171.5 |
| 62.5° | 178.7 | 177.0 | 177.6 | 168.0 | 145.7 | 142.6 | 142.6 | 146.9 | 147.4 | 153.4 | 166.7 |
| 65° | 174.5 | 172.2 | 171.5 | 163.1 | 140.2 | 136.7 | 138.4 | 140.2 | 141.5 | 147.4 | 160.1 |
| 67.5° | 170.3 | 165.5 | 165.5 | 158.9 | 134.2 | 130.6 | 134.2 | 133.6 | 135.4 | 140.9 | 151.1 |
| 70° | 164.9 | 158.3 | 158.9 | 155.9 | 128.2 | 124.0 | 126.9 | 126.4 | 127.6 | 131.2 | 141.5 |
| 72.5° | 156.5 | 151.1 | 152.3 | 151.1 | 122.1 | 116.2 | 117.3 | 117.3 | 117.3 | 120.4 | 131.2 |
| 75° | 145.7 | 141.5 | 145.1 | 148.0 | 115.0 | 106.5 | 107.7 | 107.7 | 106.0 | 107.7 | 121.0 |
| 77.5° | 132.4 | 130.0 | 142.1 | 137.8 | 106.5 | 96.3 | 96.3 | 95.1 | 91.5 | 93.9 | 108.3 |
| 80° | 117.9 | 116.2 | 131.2 | 115.6 | 96.9 | 83.7 | 82.4 | 79.5 | 75.8 | 77.6 | 92.1 |
| 82.5° | 102.9 | 101.1 | 110.2 | 88.5 | 83.7 | 69.3 | 66.2 | 60.8 | 57.2 | 59.0 | 72.2 |
| 85° | 84.3 | 84.3 | 84.9 | 66.8 | 63.8 | 53.0 | 49.3 | 42.1 | 38.0 | 39.1 | 51.8 |
| 87.5° | 60.1 | 62.0 | 57.2 | 45.7 | 38.0 | 29.5 | 27.1 | 22.9 | 19.2 | 22.3 | 27.1 |
| 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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| 35° | 242.5 | 264.8 | 299.7 | 522.4 | 1018.3 | 2516.4 | 4683.7 | 5390.8 |
| 37.5° | 231.1 | 253.4 | 278.7 | 515.2 | 1032.2 | 2585.6 | 5043.6 | 5825.4 |
| 40° | 223.9 | 244.4 | 266.1 | 511.0 | 1045.5 | 2648.8 | 5396.3 | 6255.1 |
| 42.5° | 219.1 | 237.7 | 264.8 | 496.5 | 1052.1 | 2705.4 | 5686.4 | 6620.4 |
| 45° | 218.5 | 237.7 | 269.6 | 482.1 | 1062.3 | 2766.2 | 5929.5 | 6890.7 |
| 47.5° | 219.1 | 245.6 | 260.6 | 464.6 | 1062.3 | 2867.8 | 6214.8 | 7132.0 |
| 50° | 216.7 | 258.8 | 250.9 | 440.0 | 1037.6 | 3060.5 | 6606.0 | 7455.3 |
| 52.5° | 215.4 | 257.0 | 232.3 | 402.0 | 994.9 | 3366.2 | 7107.4 | 7900.7 |
| 55° | 212.5 | 248.0 | 219.1 | 345.5 | 944.9 | 3699.6 | 7644.2 | 8427.3 |
| 57.5° | 209.4 | 219.7 | 211.9 | 296.1 | 867.9 | 3934.4 | 8013.8 | 8838.3 |
| 60° | 234.8 | 192.0 | 205.8 | 272.0 | 765.0 | 3998.8 | 7999.4 | 9002.1 |
| 62.5° | 217.3 | 179.9 | 198.0 | 266.6 | 692.7 | 3818.2 | 7629.8 | 8913.6 |
| 65° | 170.3 | 172.2 | 190.2 | 282.2 | 673.5 | 3339.7 | 6975.0 | 8504.9 |
| 67.5° | 155.9 | 164.3 | 182.4 | 302.2 | 675.2 | 2674.1 | 5996.3 | 7614.7 |
| 70° | 146.9 | 155.9 | 173.3 | 312.4 | 680.1 | 1993.3 | 4740.9 | 6202.2 |
| 72.5° | 136.7 | 144.4 | 163.1 | 314.1 | 648.9 | 1448.1 | 3653.9 | 4560.3 |
| 75° | 124.6 | 131.9 | 148.6 | 273.8 | 537.5 | 1004.5 | 2795.0 | 3120.0 |
| 77.5° | 110.8 | 116.2 | 130.6 | 211.2 | 399.1 | 642.8 | 2098.1 | 2279.2 |
| 80° | 94.5 | 97.5 | 109.6 | 154.7 | 273.2 | 402.0 | 1659.9 | 1829.0 |
| 82.5° | 75.8 | 77.0 | 84.9 | 116.2 | 177.6 | 258.2 | 1111.6 | 1268.8 |
| 85° | 53.6 | 53.6 | 58.4 | 84.3 | 121.0 | 163.7 | 603.6 | 669.3 |
| 87.5° | 25.3 | 25.9 | 25.9 | 46.3 | 63.2 | 83.1 | 139.0 | 85.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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