

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: P193031

Luminaire Tested: **GAN-AF-03-LED-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193031
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-03-LED-U-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 15446 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

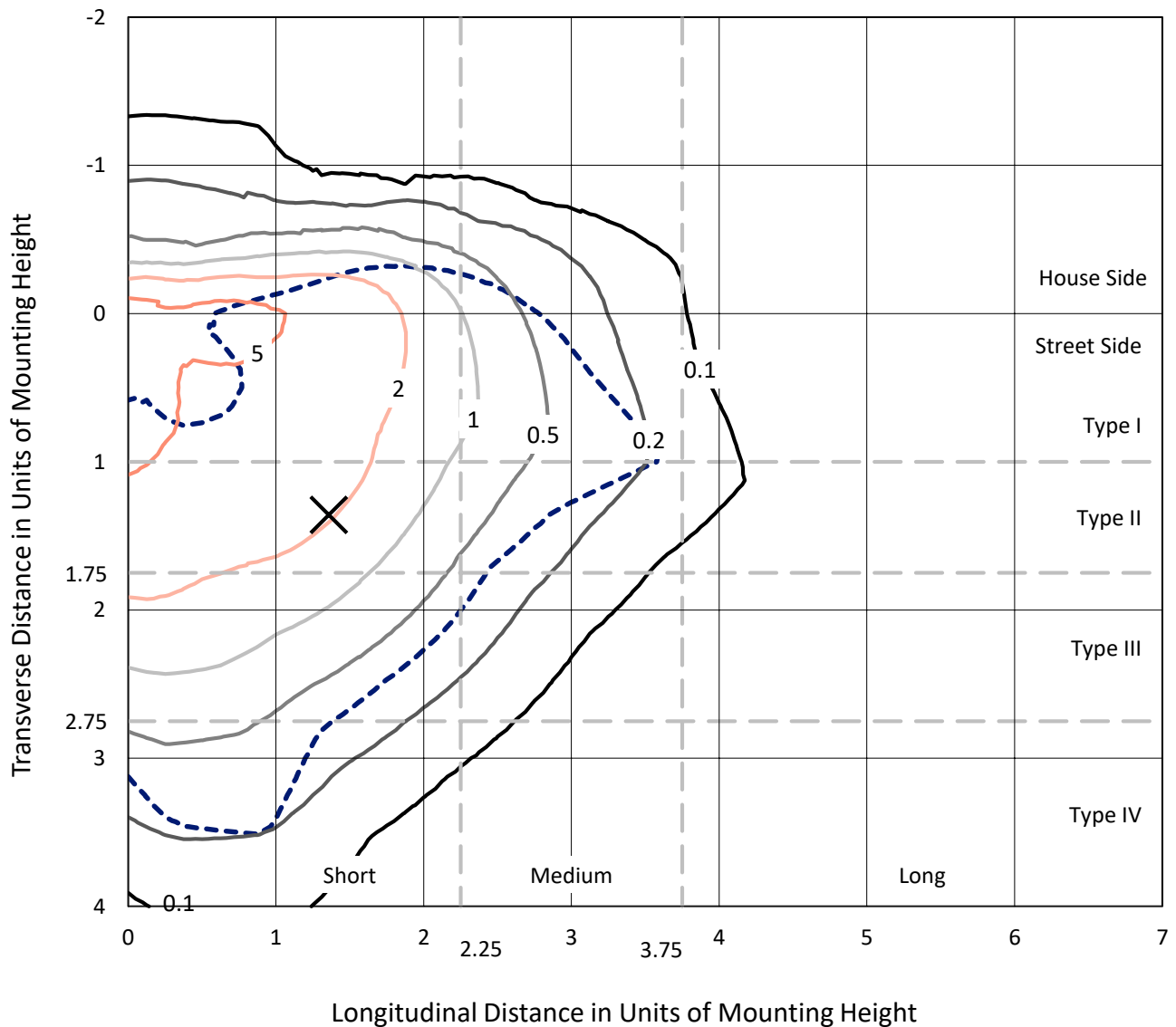
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193031
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Iso-Footcandle Lines of Horizontal Illumination

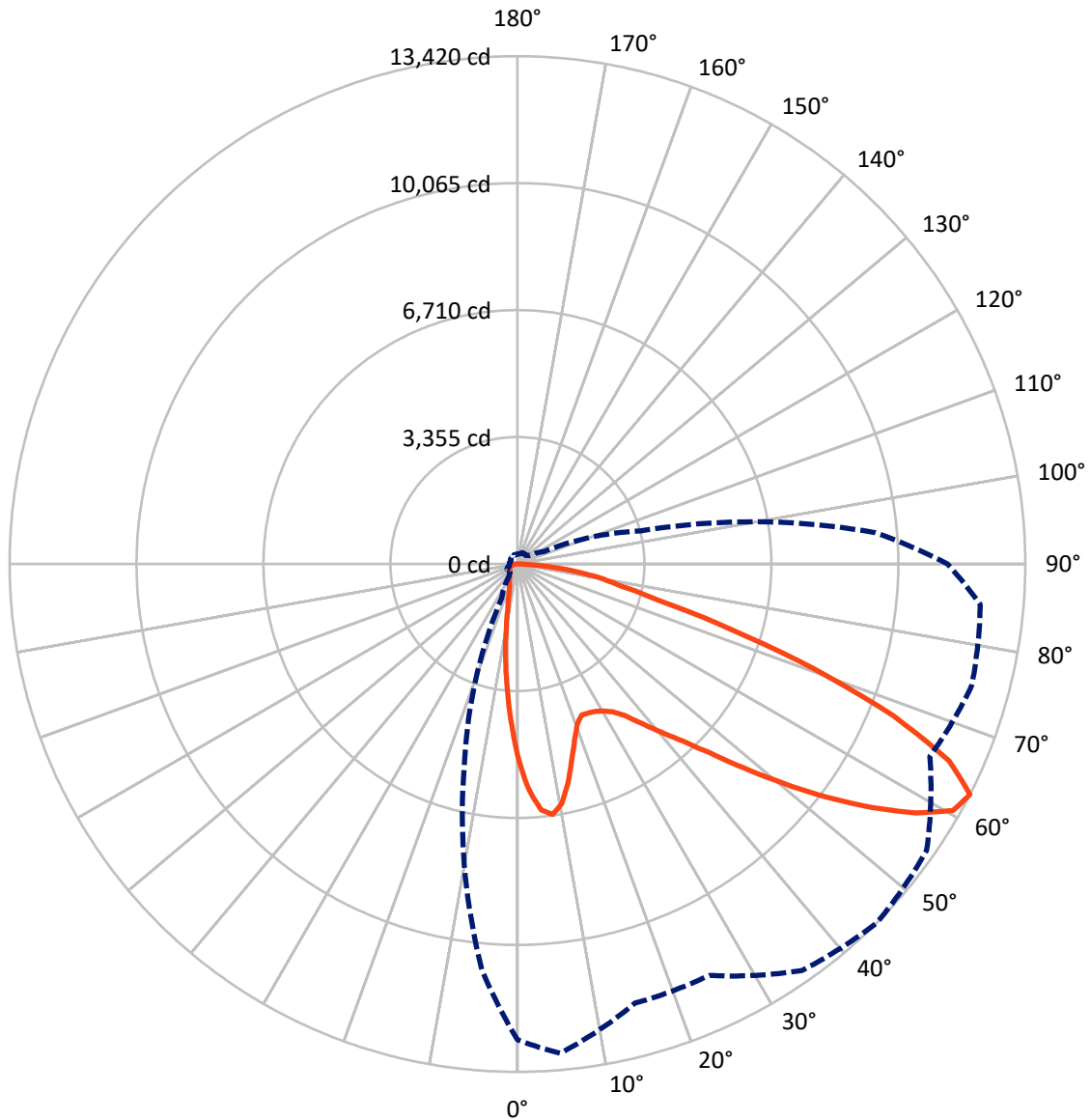
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Non-Cutoff

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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 | 2556.1 | 0.0 | 2556.1 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 12889.9 | 0.0 | 12889.9 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 15446.0 | 0.0 | 15446.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 379.9 | 2.5 |
| 10°-20° | 696.6 | 4.5 |
| 20°-30° | 1015.6 | 6.6 |
| 30°-40° | 1564.2 | 10.1 |
| 40°-50° | 2302.1 | 14.9 |
| 50°-60° | 3376.8 | 21.9 |
| 60°-70° | 3774.7 | 24.4 |
| 70°-80° | 1848.1 | 12.0 |
| 80°-90° | 487.9 | 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° | 15446.0 | 100.0 |
| 0°-180° | 15446.0 | 100.0 |



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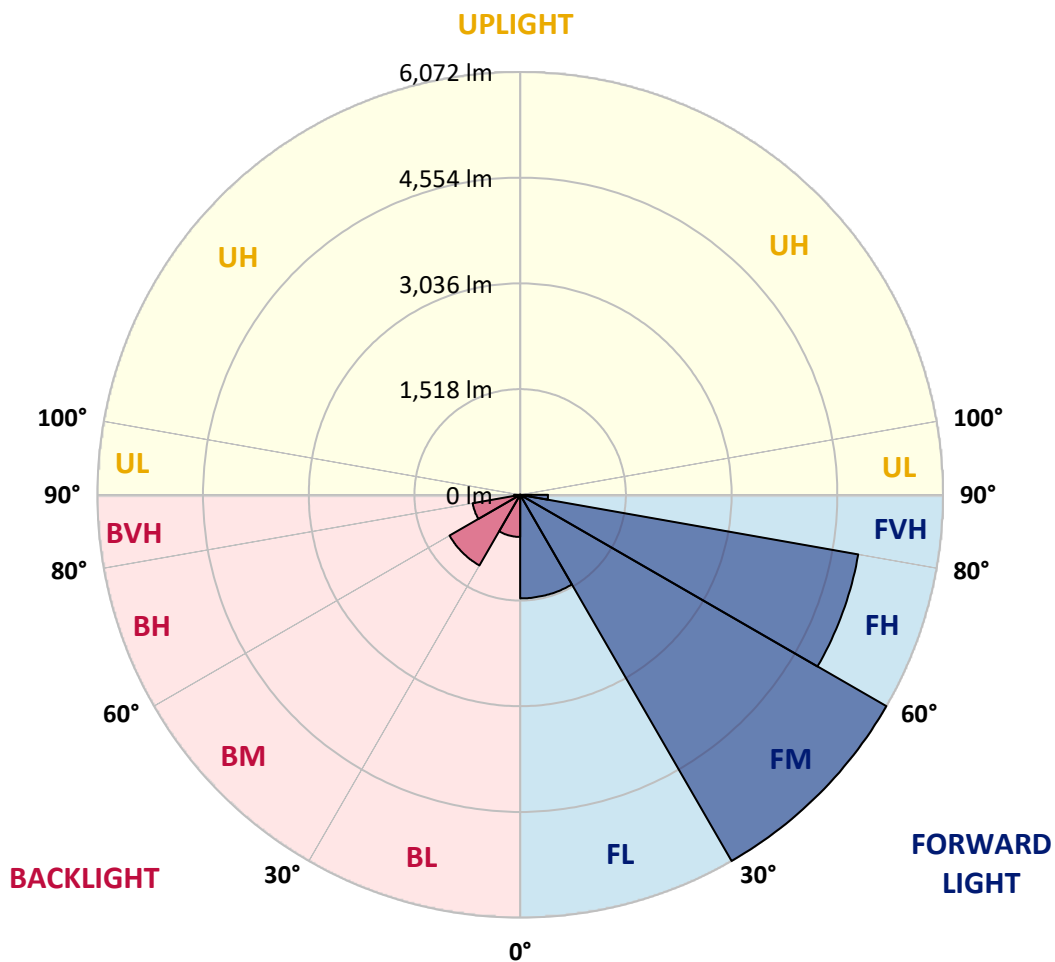
CATALOG NUMBER: GAN-AF-03-LED-U-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1487.4 | 9.6 | | | |
| FM (30°-60°) | 6072.0 | 39.3 | | | |
| FH (60°-80°) | 4929.8 | 31.9 | | | G2/5000 |
| FVH (80°-90°) | 400.7 | 2.6 | | | G3/500 |
| BL (0°-30°) | 604.7 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1171.2 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 693.0 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.2 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CATALOG NUMBER: GAN-AF-03-LED-U-SLL-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 |
| 2.5° | 5422.3 | 5508.9 | 5677.8 | 5804.4 | 5958.0 | 5993.8 | 6042.9 | 5994.5 | 5908.7 | 5795.0 | 5757.6 |
| 5° | 5098.8 | 5283.9 | 5693.9 | 6054.8 | 6375.9 | 6525.2 | 6566.8 | 6443.7 | 6194.9 | 5868.0 | 5668.5 |
| 7.5° | 4579.9 | 4843.1 | 5398.5 | 5930.0 | 6402.9 | 6682.3 | 6675.5 | 6389.4 | 5931.6 | 5399.4 | 5079.3 |
| 10° | 4132.5 | 4433.0 | 5069.8 | 5664.2 | 6166.0 | 6436.9 | 6332.4 | 5966.5 | 5420.6 | 4807.5 | 4460.3 |
| 12.5° | 3882.0 | 4176.7 | 4822.8 | 5419.7 | 5839.2 | 5932.6 | 5852.8 | 5494.4 | 4979.9 | 4360.1 | 4056.0 |
| 15° | 3838.8 | 4162.2 | 4724.4 | 5210.0 | 5445.2 | 5363.6 | 5268.6 | 5108.1 | 4744.7 | 4215.7 | 3899.0 |
| 17.5° | 4026.3 | 4382.9 | 4837.2 | 5063.9 | 5024.1 | 4882.2 | 4855.1 | 4872.9 | 4785.4 | 4376.2 | 4011.1 |
| 20° | 4386.4 | 4814.3 | 5106.4 | 4995.3 | 4703.9 | 4508.7 | 4515.4 | 4788.0 | 5047.0 | 4783.0 | 4366.0 |
| 22.5° | 4891.5 | 5379.8 | 5494.4 | 5031.7 | 4568.9 | 4337.1 | 4393.2 | 4834.7 | 5463.8 | 5377.3 | 4844.9 |
| 25° | 5545.4 | 5990.3 | 5907.9 | 5164.1 | 4582.6 | 4358.4 | 4403.3 | 4996.0 | 5956.4 | 5971.7 | 5437.5 |
| 27.5° | 6178.8 | 6591.5 | 6255.2 | 5339.9 | 4638.6 | 4408.5 | 4467.9 | 5249.9 | 6426.7 | 6617.0 | 6115.1 |
| 30° | 6673.0 | 6960.0 | 6392.8 | 5500.3 | 4749.0 | 4506.1 | 4579.9 | 5491.1 | 6640.7 | 7052.4 | 6636.4 |
| 32.5° | 7082.1 | 7288.5 | 6611.9 | 5699.1 | 4951.8 | 4659.8 | 4789.7 | 5783.9 | 6948.9 | 7466.9 | 7146.7 |
| 35° | 7605.3 | 7663.9 | 6884.4 | 5920.6 | 5265.2 | 4927.3 | 5088.5 | 6071.0 | 7242.7 | 7885.5 | 7649.5 |
| 37.5° | 8218.3 | 8142.8 | 7141.6 | 6223.9 | 5670.2 | 5345.8 | 5479.2 | 6385.9 | 7484.7 | 8360.1 | 8163.1 |
| 40° | 8824.6 | 8642.9 | 7464.3 | 6694.2 | 6261.2 | 5839.2 | 5997.1 | 6722.1 | 7710.5 | 8835.6 | 8665.0 |
| 42.5° | 9339.9 | 9070.8 | 7782.7 | 7211.3 | 6811.3 | 6383.5 | 6572.0 | 7061.0 | 7926.2 | 9241.4 | 9100.5 |
| 45° | 9721.3 | 9386.7 | 8085.8 | 7708.0 | 7569.6 | 7106.9 | 7196.1 | 7449.1 | 8159.7 | 9580.3 | 9458.8 |
| 47.5° | 10061.6 | 9704.2 | 8429.0 | 8208.9 | 8232.8 | 8047.6 | 7904.2 | 7900.7 | 8434.9 | 9857.1 | 9797.6 |
| 50° | 10517.7 | 10144.8 | 8797.3 | 8725.2 | 9227.8 | 9104.8 | 8788.0 | 8428.0 | 8783.0 | 10171.2 | 10164.4 |
| 52.5° | 11146.0 | 10842.8 | 9247.3 | 9281.3 | 10156.7 | 10237.5 | 9845.2 | 9061.4 | 9328.0 | 10747.8 | 10707.0 |
| 55° | 11888.9 | 11712.3 | 9860.4 | 9920.7 | 11296.2 | 11354.0 | 10964.2 | 9853.6 | 10129.7 | 11582.3 | 11469.5 |
| 57.5° | 12468.8 | 12431.5 | 10532.9 | 10688.3 | 12147.0 | 12406.8 | 12048.6 | 10770.7 | 11033.0 | 12285.4 | 12001.8 |
| 60° | 12699.7 | 12880.7 | 11248.7 | 11462.7 | 12934.1 | 13222.0 | 12907.8 | 11576.4 | 11833.8 | 12576.7 | 11965.3 |
| 62.5° | 12574.9 | 12979.1 | 12011.2 | 11993.4 | 13109.9 | 13419.8 | 13199.1 | 12024.7 | 12427.2 | 12276.1 | 11359.9 |
| 65° | 11998.5 | 12625.0 | 12453.6 | 11856.6 | 12508.8 | 12534.2 | 12462.8 | 11824.4 | 12567.3 | 11326.0 | 10189.8 |
| 67.5° | 10742.6 | 11644.5 | 11871.1 | 10684.9 | 10887.0 | 10721.4 | 10601.7 | 10727.4 | 11837.1 | 9902.0 | 8563.8 |
| 70° | 8749.8 | 10106.7 | 10215.3 | 8546.0 | 8454.4 | 8343.1 | 8104.6 | 8794.9 | 10396.2 | 8115.6 | 6795.3 |
| 72.5° | 6433.5 | 7860.0 | 8193.7 | 6267.9 | 5843.4 | 5866.3 | 5677.8 | 6628.0 | 8452.7 | 6028.5 | 5073.4 |
| 75° | 4401.6 | 5691.5 | 6410.6 | 4373.6 | 3864.2 | 3873.6 | 3849.7 | 4696.3 | 6732.4 | 4193.6 | 3796.2 |
| 77.5° | 3215.5 | 4066.3 | 4834.7 | 2940.3 | 2854.6 | 2802.0 | 2789.3 | 3286.0 | 5161.6 | 3044.8 | 2948.1 |
| 80° | 2580.3 | 3004.1 | 3247.7 | 2037.8 | 2191.5 | 2187.3 | 2116.8 | 2259.4 | 3370.8 | 2227.1 | 2205.1 |
| 82.5° | 1789.8 | 2308.6 | 2631.3 | 1597.2 | 1479.2 | 1454.5 | 1471.5 | 1682.9 | 2382.5 | 1522.4 | 1447.6 |
| 85° | 944.2 | 1533.5 | 2605.9 | 1415.5 | 878.0 | 700.5 | 871.2 | 1378.1 | 2064.1 | 806.7 | 706.5 |
| 87.5° | 120.6 | 443.3 | 1725.3 | 564.7 | 346.5 | 186.9 | 413.5 | 776.1 | 1325.5 | 164.8 | 143.4 |
| 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-03-LED-U-SLL-7030

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 |
| 2.5° | 5661.7 | 5548.7 | 5401.0 | 5264.3 | 5122.5 | 4981.5 | 4797.3 | 4681.9 | 4602.0 | 4586.8 | 4552.9 |
| 5° | 5524.1 | 5148.9 | 4865.4 | 4619.9 | 4397.4 | 4083.2 | 3909.2 | 3764.8 | 3687.6 | 3680.0 | 3661.3 |
| 7.5° | 4889.9 | 4371.9 | 3989.0 | 3641.7 | 3326.7 | 3072.8 | 2792.6 | 2661.9 | 2608.3 | 2621.1 | 2633.9 |
| 10° | 4230.2 | 3651.1 | 3211.2 | 2856.4 | 2578.6 | 2364.7 | 2139.8 | 1987.8 | 1882.4 | 1861.2 | 1857.0 |
| 12.5° | 3747.9 | 3112.8 | 2685.7 | 2435.2 | 2220.3 | 2019.1 | 1780.5 | 1601.4 | 1464.6 | 1417.9 | 1386.6 |
| 15° | 3544.1 | 2849.5 | 2402.1 | 2132.0 | 1895.2 | 1639.6 | 1417.9 | 1230.4 | 1104.6 | 1063.8 | 1041.0 |
| 17.5° | 3587.4 | 2776.5 | 2206.8 | 1861.2 | 1558.0 | 1291.5 | 1012.1 | 851.6 | 776.1 | 756.5 | 756.5 |
| 20° | 3814.9 | 2762.9 | 2045.5 | 1611.6 | 1233.7 | 924.7 | 695.4 | 603.6 | 579.1 | 576.6 | 583.3 |
| 22.5° | 4134.2 | 2810.4 | 1924.9 | 1395.0 | 958.6 | 675.0 | 541.7 | 507.7 | 496.7 | 499.4 | 506.9 |
| 25° | 4609.6 | 2971.0 | 1837.4 | 1202.3 | 752.2 | 552.8 | 483.2 | 462.7 | 457.7 | 464.5 | 473.7 |
| 27.5° | 5173.5 | 3131.5 | 1783.1 | 1057.1 | 635.2 | 505.3 | 459.3 | 438.1 | 441.5 | 450.0 | 458.6 |
| 30° | 5668.5 | 3263.0 | 1697.4 | 953.5 | 598.6 | 507.7 | 459.3 | 430.5 | 427.1 | 428.9 | 431.3 |
| 32.5° | 6112.6 | 3352.2 | 1597.2 | 855.1 | 516.2 | 450.9 | 428.9 | 424.6 | 405.9 | 399.2 | 399.9 |
| 35° | 6495.5 | 3352.2 | 1536.8 | 797.3 | 462.7 | 399.9 | 364.3 | 343.1 | 333.7 | 334.6 | 343.8 |
| 37.5° | 6864.9 | 3285.1 | 1507.1 | 765.1 | 433.9 | 380.4 | 349.0 | 330.3 | 317.5 | 315.0 | 316.8 |
| 40° | 7190.9 | 3187.4 | 1473.2 | 751.4 | 411.8 | 368.5 | 338.8 | 323.5 | 310.0 | 305.7 | 306.5 |
| 42.5° | 7452.5 | 3108.5 | 1435.7 | 733.5 | 398.2 | 360.0 | 332.0 | 318.4 | 303.0 | 298.9 | 298.1 |
| 45° | 7735.2 | 3082.2 | 1386.6 | 697.9 | 405.1 | 360.9 | 330.3 | 315.9 | 300.6 | 295.4 | 293.8 |
| 47.5° | 8107.9 | 3164.5 | 1335.5 | 655.4 | 419.4 | 365.2 | 332.8 | 315.9 | 299.7 | 295.4 | 293.8 |
| 50° | 8577.5 | 3358.1 | 1271.1 | 593.5 | 405.1 | 377.0 | 332.0 | 313.3 | 299.7 | 295.4 | 292.0 |
| 52.5° | 9180.3 | 3619.6 | 1186.2 | 522.1 | 396.5 | 405.9 | 330.3 | 308.2 | 295.4 | 289.5 | 283.6 |
| 55° | 9913.1 | 3833.6 | 1085.2 | 463.6 | 377.0 | 398.2 | 327.8 | 302.3 | 288.7 | 280.2 | 275.2 |
| 57.5° | 10449.7 | 3910.9 | 955.3 | 425.3 | 349.8 | 385.4 | 324.4 | 294.7 | 280.2 | 273.3 | 266.6 |
| 60° | 10343.6 | 3761.5 | 845.6 | 401.6 | 333.7 | 348.1 | 321.8 | 287.8 | 272.6 | 267.4 | 261.5 |
| 62.5° | 9493.6 | 3370.8 | 775.2 | 390.6 | 323.5 | 317.5 | 324.4 | 281.1 | 265.7 | 260.7 | 259.0 |
| 65° | 8219.1 | 2794.3 | 747.3 | 388.0 | 315.0 | 299.7 | 301.4 | 273.3 | 258.1 | 253.9 | 252.2 |
| 67.5° | 6780.0 | 2255.2 | 722.5 | 396.5 | 304.0 | 287.1 | 278.5 | 263.2 | 250.5 | 246.3 | 242.9 |
| 70° | 5346.7 | 1875.7 | 711.5 | 391.4 | 290.4 | 274.2 | 265.0 | 252.2 | 241.1 | 236.9 | 234.4 |
| 72.5° | 4305.7 | 1584.4 | 705.6 | 386.3 | 272.6 | 257.3 | 248.8 | 237.7 | 225.8 | 224.2 | 221.6 |
| 75° | 3643.5 | 1245.5 | 646.2 | 370.2 | 252.2 | 236.9 | 231.0 | 220.8 | 208.9 | 208.9 | 207.1 |
| 77.5° | 2810.4 | 900.9 | 537.4 | 327.8 | 231.0 | 213.9 | 208.9 | 201.2 | 187.6 | 190.2 | 189.3 |
| 80° | 2076.0 | 587.6 | 420.3 | 271.7 | 204.7 | 188.5 | 186.0 | 178.3 | 163.9 | 167.2 | 167.2 |
| 82.5° | 1422.2 | 385.4 | 302.3 | 222.5 | 175.0 | 159.6 | 159.6 | 152.0 | 135.8 | 137.5 | 142.7 |
| 85° | 714.1 | 265.0 | 225.8 | 172.4 | 135.8 | 128.2 | 128.2 | 122.3 | 106.1 | 107.0 | 113.7 |
| 87.5° | 217.3 | 159.6 | 149.4 | 123.1 | 97.7 | 95.9 | 91.7 | 87.4 | 77.2 | 76.4 | 80.7 |
| 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-03-LED-U-SLL-7030

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 | 5218.4 |
| 2.5° | 4501.1 | 4452.7 | 4394.0 | 4264.9 | 4221.7 | 4219.1 | 4258.2 | 4217.4 | 4295.5 | 4262.4 | 4299.0 |
| 5° | 3629.8 | 3582.3 | 3516.9 | 3352.2 | 3252.0 | 3184.1 | 3151.8 | 3056.7 | 3125.5 | 3075.4 | 3116.9 |
| 7.5° | 2669.5 | 2680.5 | 2637.3 | 2540.5 | 2322.3 | 2212.7 | 2148.1 | 2090.4 | 2140.5 | 2135.5 | 2215.2 |
| 10° | 1876.5 | 1906.2 | 1875.7 | 1777.9 | 1601.4 | 1541.1 | 1553.0 | 1575.9 | 1641.3 | 1675.3 | 1798.4 |
| 12.5° | 1350.9 | 1349.3 | 1329.6 | 1242.2 | 1125.9 | 1132.7 | 1181.1 | 1221.0 | 1281.3 | 1316.9 | 1442.5 |
| 15° | 1008.7 | 993.3 | 985.0 | 913.6 | 847.5 | 861.8 | 885.5 | 889.8 | 928.0 | 949.3 | 1051.2 |
| 17.5° | 762.5 | 770.2 | 779.4 | 728.5 | 678.4 | 669.1 | 650.4 | 627.4 | 638.5 | 642.8 | 693.7 |
| 20° | 605.4 | 636.0 | 659.0 | 623.3 | 572.3 | 545.1 | 521.3 | 506.1 | 506.1 | 505.3 | 519.6 |
| 22.5° | 529.1 | 551.1 | 575.7 | 551.1 | 505.3 | 481.4 | 467.8 | 455.9 | 454.3 | 454.3 | 467.8 |
| 25° | 487.4 | 503.4 | 527.2 | 510.4 | 476.4 | 458.6 | 445.8 | 430.5 | 424.6 | 422.9 | 432.2 |
| 27.5° | 467.0 | 473.7 | 485.6 | 470.4 | 441.5 | 433.0 | 429.6 | 416.1 | 408.4 | 404.2 | 413.5 |
| 30° | 432.2 | 430.5 | 431.3 | 416.1 | 393.2 | 392.2 | 398.2 | 400.8 | 398.2 | 397.3 | 411.8 |
| 32.5° | 399.9 | 396.5 | 395.6 | 382.1 | 360.9 | 355.7 | 360.9 | 365.9 | 371.9 | 380.4 | 397.3 |
| 35° | 359.1 | 367.6 | 372.8 | 360.9 | 335.4 | 320.1 | 314.1 | 304.9 | 299.7 | 299.7 | 319.2 |
| 37.5° | 326.9 | 346.5 | 354.1 | 343.1 | 315.0 | 293.8 | 283.6 | 281.9 | 282.8 | 286.2 | 304.9 |
| 40° | 315.9 | 330.3 | 337.1 | 326.0 | 298.1 | 278.5 | 272.6 | 270.9 | 272.6 | 277.6 | 296.3 |
| 42.5° | 309.1 | 319.2 | 318.4 | 304.9 | 281.9 | 268.3 | 265.0 | 263.2 | 265.0 | 270.0 | 290.4 |
| 45° | 303.0 | 310.0 | 303.0 | 287.1 | 265.7 | 259.0 | 259.8 | 259.0 | 260.7 | 265.7 | 285.2 |
| 47.5° | 298.1 | 300.6 | 292.0 | 276.0 | 253.9 | 252.2 | 255.5 | 258.1 | 259.8 | 264.1 | 284.4 |
| 50° | 290.4 | 290.4 | 282.8 | 265.7 | 243.6 | 244.5 | 248.8 | 254.7 | 255.5 | 260.7 | 276.8 |
| 52.5° | 281.1 | 280.2 | 275.2 | 259.0 | 235.2 | 237.7 | 237.7 | 244.5 | 246.3 | 252.2 | 269.3 |
| 55° | 273.3 | 271.7 | 269.3 | 253.9 | 227.6 | 231.8 | 229.2 | 231.8 | 236.0 | 242.0 | 260.7 |
| 57.5° | 266.6 | 263.2 | 263.2 | 249.6 | 221.6 | 223.3 | 217.3 | 220.8 | 225.8 | 231.0 | 250.5 |
| 60° | 259.8 | 256.4 | 258.1 | 243.6 | 212.3 | 210.6 | 208.0 | 214.8 | 216.6 | 222.5 | 242.0 |
| 62.5° | 252.2 | 249.6 | 250.5 | 236.9 | 205.5 | 201.2 | 201.2 | 207.1 | 208.0 | 216.6 | 235.2 |
| 65° | 246.3 | 242.9 | 242.0 | 230.1 | 197.9 | 192.8 | 195.2 | 197.9 | 199.5 | 208.0 | 225.8 |
| 67.5° | 240.3 | 233.5 | 233.5 | 224.2 | 189.3 | 184.2 | 189.3 | 188.5 | 191.1 | 198.7 | 213.2 |
| 70° | 232.6 | 223.3 | 224.2 | 219.9 | 180.9 | 175.0 | 179.1 | 178.3 | 180.1 | 185.0 | 199.5 |
| 72.5° | 220.8 | 213.2 | 214.8 | 213.2 | 172.4 | 163.9 | 165.5 | 165.5 | 165.5 | 169.8 | 185.0 |
| 75° | 205.5 | 199.5 | 204.7 | 208.9 | 162.1 | 150.3 | 152.0 | 152.0 | 149.4 | 152.0 | 170.7 |
| 77.5° | 186.9 | 183.4 | 200.4 | 194.5 | 150.3 | 135.8 | 135.8 | 134.2 | 129.0 | 132.4 | 152.9 |
| 80° | 166.4 | 163.9 | 185.0 | 163.1 | 136.7 | 118.0 | 116.4 | 112.1 | 107.0 | 109.5 | 129.9 |
| 82.5° | 145.2 | 142.7 | 155.3 | 124.8 | 118.0 | 97.7 | 93.4 | 85.8 | 80.7 | 83.2 | 101.9 |
| 85° | 118.9 | 118.9 | 119.7 | 94.3 | 90.0 | 74.8 | 69.6 | 59.4 | 53.5 | 55.1 | 72.9 |
| 87.5° | 84.9 | 87.4 | 80.7 | 64.6 | 53.5 | 41.6 | 38.2 | 32.2 | 27.2 | 31.4 | 38.2 |
| 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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| 35° | 342.2 | 373.5 | 422.9 | 737.0 | 1436.6 | 3550.1 | 6607.6 | 7605.3 |
| 37.5° | 326.0 | 357.5 | 393.2 | 726.8 | 1456.2 | 3647.6 | 7115.3 | 8218.3 |
| 40° | 315.9 | 344.7 | 375.3 | 720.9 | 1474.9 | 3736.7 | 7612.8 | 8824.6 |
| 42.5° | 309.1 | 335.4 | 373.5 | 700.5 | 1484.2 | 3816.7 | 8022.2 | 9339.9 |
| 45° | 308.2 | 335.4 | 380.4 | 680.1 | 1498.6 | 3902.4 | 8365.2 | 9721.3 |
| 47.5° | 309.1 | 346.5 | 367.6 | 655.4 | 1498.6 | 4045.9 | 8767.6 | 10061.6 |
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| 67.5° | 219.9 | 231.8 | 257.3 | 426.2 | 952.6 | 3772.5 | 8459.4 | 10742.6 |
| 70° | 207.1 | 219.9 | 244.5 | 440.7 | 959.6 | 2812.3 | 6688.3 | 8749.8 |
| 72.5° | 192.8 | 203.8 | 230.1 | 443.3 | 915.3 | 2042.9 | 5154.9 | 6433.5 |
| 75° | 175.8 | 186.0 | 209.8 | 386.3 | 758.3 | 1417.1 | 3943.1 | 4401.6 |
| 77.5° | 156.2 | 163.9 | 184.2 | 298.1 | 562.9 | 906.9 | 2960.0 | 3215.5 |
| 80° | 133.3 | 137.5 | 154.5 | 218.2 | 385.4 | 567.2 | 2341.8 | 2580.3 |
| 82.5° | 107.0 | 108.7 | 119.7 | 163.9 | 250.5 | 364.3 | 1568.3 | 1789.8 |
| 85° | 75.6 | 75.6 | 82.4 | 118.9 | 170.7 | 231.0 | 851.6 | 944.2 |
| 87.5° | 35.6 | 36.5 | 36.5 | 65.3 | 89.1 | 117.1 | 196.1 | 120.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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