

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: P193012

Luminaire Tested: **GAN-AF-04-LED-U-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193012
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-04-LED-U-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 13446.5 lumens
Efficiency: N/A
Efficacy: 104.2 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

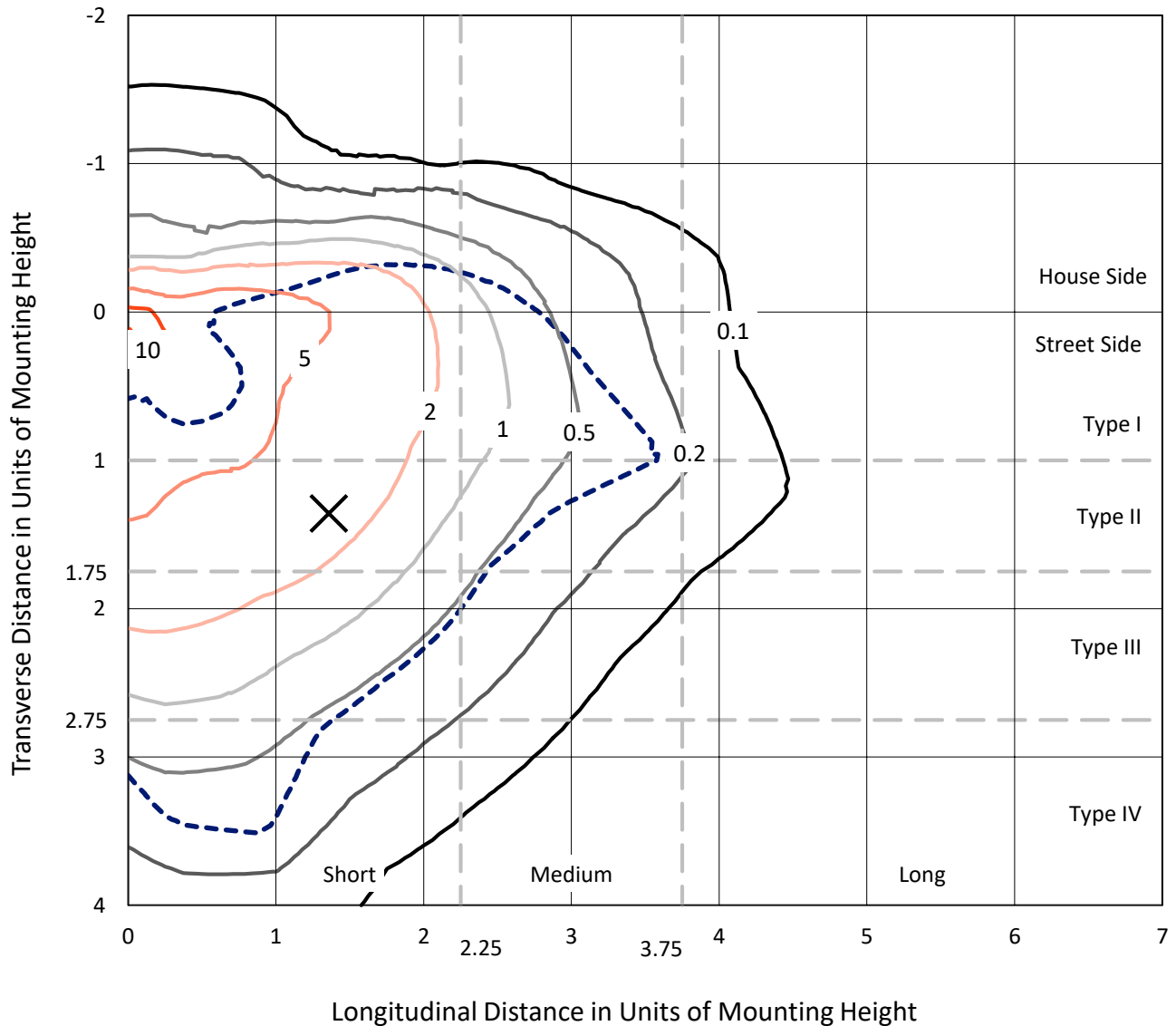
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193012
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Iso-Footcandle Lines of Horizontal Illumination

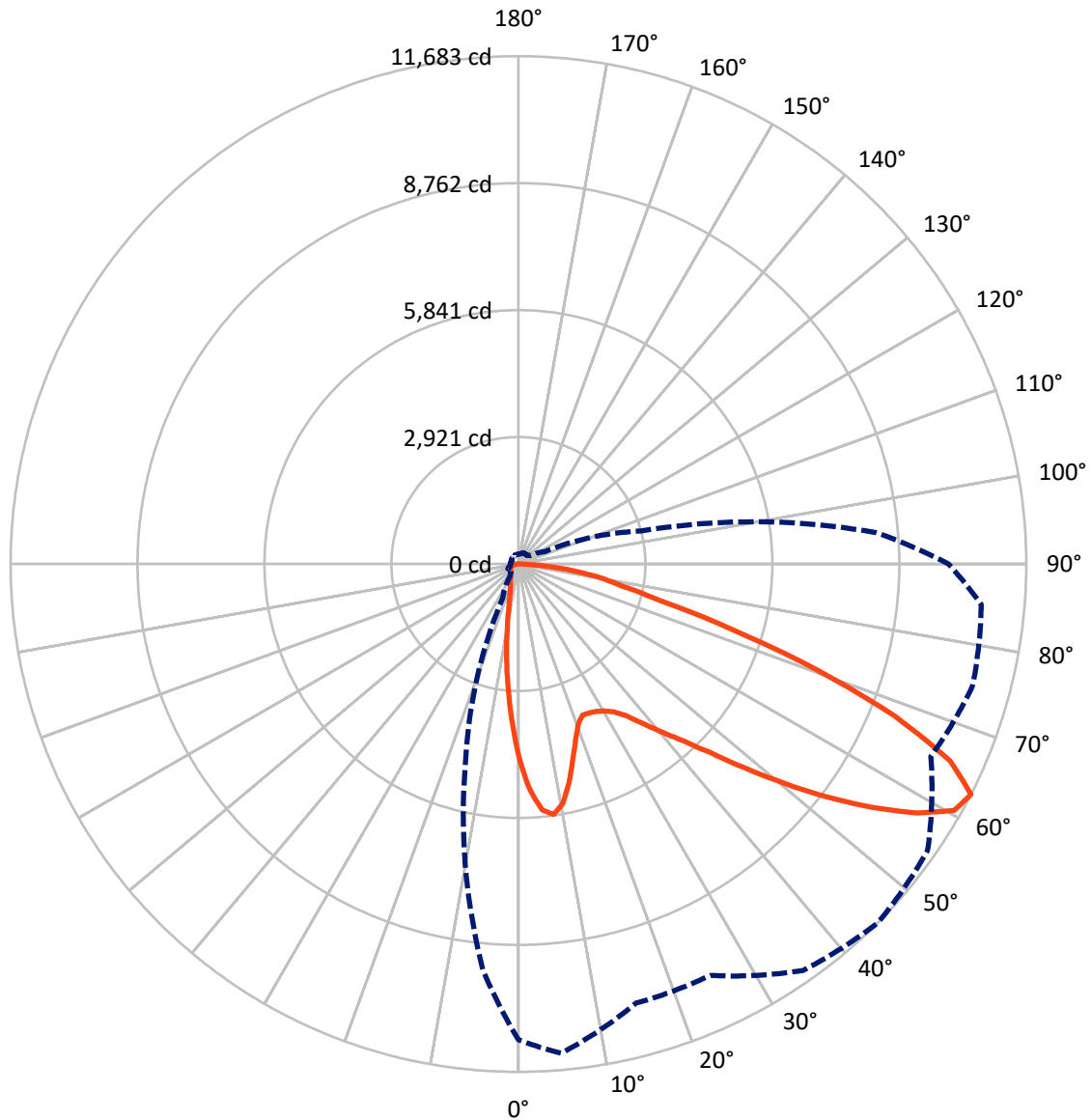
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 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 | 2225.2 | 0.0 | 2225.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 11221.3 | 0.0 | 11221.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 13446.5 | 0.0 | 13446.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 330.7 | 2.5 |
| 10°-20° | 606.4 | 4.5 |
| 20°-30° | 884.2 | 6.6 |
| 30°-40° | 1361.8 | 10.1 |
| 40°-50° | 2004.1 | 14.9 |
| 50°-60° | 2939.6 | 21.9 |
| 60°-70° | 3286.1 | 24.4 |
| 70°-80° | 1608.8 | 12.0 |
| 80°-90° | 424.8 | 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° | 13446.5 | 100.0 |
| 0°-180° | 13446.5 | 100.0 |

Coefficient of Utilization



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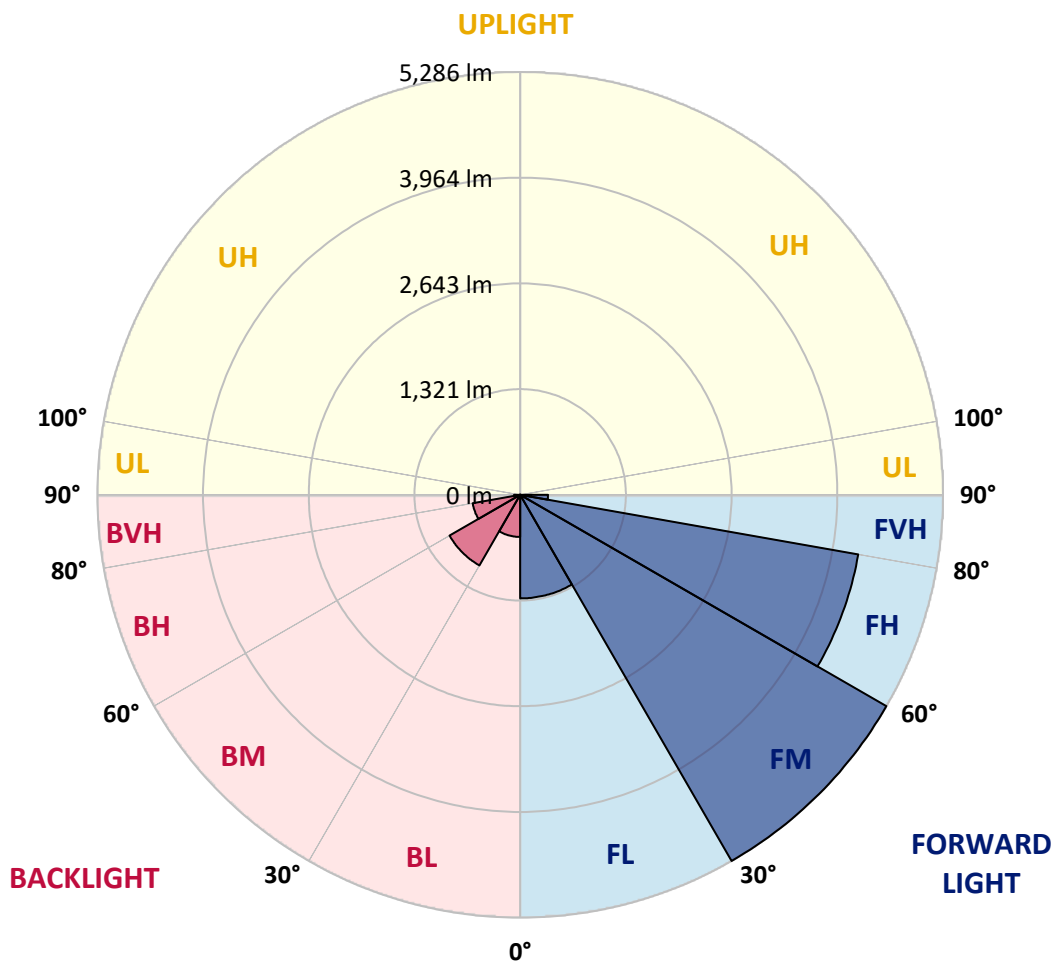
CATALOG NUMBER: GAN-AF-04-LED-U-SLL-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1294.9 | 9.6 | | | |
| FM | (30°-60°) | 5286.0 | 39.3 | | | |
| FH | (60°-80°) | 4291.7 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 348.8 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 526.5 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1019.6 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 603.2 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 75.9 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 |
| 2.5° | 4720.3 | 4795.7 | 4942.9 | 5053.0 | 5186.7 | 5217.7 | 5260.8 | 5218.6 | 5143.9 | 5044.8 | 5012.4 |
| 5° | 4438.7 | 4600.0 | 4956.9 | 5271.1 | 5550.5 | 5680.6 | 5716.8 | 5609.6 | 5393.0 | 5108.4 | 4934.7 |
| 7.5° | 3987.1 | 4216.2 | 4699.7 | 5162.4 | 5574.1 | 5817.3 | 5811.4 | 5562.3 | 5163.9 | 4700.5 | 4421.7 |
| 10° | 3597.6 | 3859.2 | 4413.6 | 4931.0 | 5367.9 | 5603.7 | 5512.7 | 5194.1 | 4718.9 | 4185.1 | 3882.8 |
| 12.5° | 3379.5 | 3636.0 | 4198.5 | 4718.2 | 5083.3 | 5164.5 | 5095.1 | 4783.2 | 4335.3 | 3795.6 | 3531.0 |
| 15° | 3341.8 | 3623.5 | 4112.7 | 4535.6 | 4740.3 | 4669.4 | 4586.6 | 4446.9 | 4130.5 | 3670.0 | 3394.2 |
| 17.5° | 3505.1 | 3815.7 | 4211.1 | 4408.4 | 4373.6 | 4250.3 | 4226.5 | 4242.1 | 4165.9 | 3809.7 | 3491.8 |
| 20° | 3818.6 | 4191.0 | 4445.4 | 4348.5 | 4095.0 | 3925.0 | 3930.9 | 4168.2 | 4393.7 | 4163.8 | 3800.8 |
| 22.5° | 4258.4 | 4683.4 | 4783.2 | 4380.3 | 3977.5 | 3775.7 | 3824.5 | 4208.8 | 4756.6 | 4681.2 | 4217.7 |
| 25° | 4827.5 | 5214.8 | 5143.2 | 4495.7 | 3989.3 | 3794.1 | 3833.4 | 4349.3 | 5185.3 | 5198.7 | 4733.6 |
| 27.5° | 5379.0 | 5738.2 | 5445.5 | 4648.7 | 4038.1 | 3837.8 | 3889.5 | 4570.4 | 5594.8 | 5760.3 | 5323.5 |
| 30° | 5809.2 | 6059.0 | 5565.2 | 4788.4 | 4134.2 | 3922.9 | 3987.1 | 4780.2 | 5781.1 | 6139.6 | 5777.4 |
| 32.5° | 6165.5 | 6345.1 | 5756.0 | 4961.4 | 4310.9 | 4056.6 | 4169.7 | 5035.2 | 6049.3 | 6500.3 | 6221.7 |
| 35° | 6620.8 | 6671.8 | 5993.2 | 5154.3 | 4583.7 | 4289.4 | 4429.9 | 5285.1 | 6305.2 | 6864.8 | 6659.3 |
| 37.5° | 7154.6 | 7088.6 | 6217.2 | 5418.1 | 4936.3 | 4653.8 | 4769.9 | 5559.3 | 6515.7 | 7277.9 | 7106.4 |
| 40° | 7682.2 | 7524.0 | 6498.0 | 5827.7 | 5450.6 | 5083.3 | 5220.7 | 5852.0 | 6712.5 | 7691.9 | 7543.3 |
| 42.5° | 8131.0 | 7896.6 | 6775.2 | 6277.8 | 5929.6 | 5557.2 | 5721.3 | 6146.9 | 6900.2 | 8045.2 | 7922.5 |
| 45° | 8462.7 | 8171.6 | 7039.1 | 6710.2 | 6589.8 | 6187.0 | 6264.5 | 6484.7 | 7103.5 | 8340.1 | 8234.5 |
| 47.5° | 8759.2 | 8448.0 | 7337.8 | 7146.3 | 7167.1 | 7005.9 | 6880.9 | 6878.0 | 7343.0 | 8581.1 | 8529.4 |
| 50° | 9156.2 | 8831.7 | 7658.6 | 7595.7 | 8033.4 | 7926.2 | 7650.5 | 7337.1 | 7646.1 | 8854.6 | 8848.7 |
| 52.5° | 9703.1 | 9439.2 | 8050.3 | 8079.9 | 8842.1 | 8912.2 | 8570.8 | 7888.5 | 8120.5 | 9356.4 | 9321.0 |
| 55° | 10349.9 | 10196.2 | 8584.1 | 8636.5 | 9834.0 | 9884.2 | 9545.0 | 8578.2 | 8818.4 | 10083.1 | 9984.7 |
| 57.5° | 10854.8 | 10822.2 | 9169.5 | 9304.7 | 10574.6 | 10800.9 | 10488.9 | 9376.4 | 9604.9 | 10695.1 | 10448.3 |
| 60° | 11055.8 | 11213.3 | 9792.6 | 9978.8 | 11259.8 | 11510.5 | 11236.9 | 10077.8 | 10301.8 | 10948.7 | 10416.4 |
| 62.5° | 10947.1 | 11299.0 | 10456.3 | 10440.9 | 11412.9 | 11682.6 | 11490.5 | 10468.2 | 10818.6 | 10686.9 | 9889.4 |
| 65° | 10445.3 | 10990.8 | 10841.5 | 10321.8 | 10889.6 | 10911.7 | 10849.6 | 10293.8 | 10940.5 | 9859.9 | 8870.9 |
| 67.5° | 9352.0 | 10137.1 | 10334.4 | 9301.8 | 9477.7 | 9333.6 | 9229.3 | 9338.7 | 10304.8 | 8620.2 | 7455.3 |
| 70° | 7617.2 | 8798.4 | 8893.0 | 7439.8 | 7359.9 | 7263.1 | 7055.4 | 7656.4 | 9050.5 | 7065.0 | 5915.7 |
| 72.5° | 5600.7 | 6842.6 | 7133.0 | 5456.6 | 5087.0 | 5107.0 | 4942.9 | 5770.0 | 7358.5 | 5248.2 | 4416.6 |
| 75° | 3831.8 | 4954.7 | 5580.8 | 3807.4 | 3364.0 | 3372.1 | 3351.4 | 4088.4 | 5860.8 | 3650.8 | 3304.9 |
| 77.5° | 2799.2 | 3539.9 | 4208.8 | 2559.7 | 2485.1 | 2439.3 | 2428.2 | 2860.6 | 4493.4 | 2650.6 | 2566.4 |
| 80° | 2246.4 | 2615.2 | 2827.3 | 1774.1 | 1907.7 | 1904.1 | 1842.7 | 1967.0 | 2934.4 | 1938.8 | 1919.6 |
| 82.5° | 1558.1 | 2009.9 | 2290.7 | 1390.5 | 1287.6 | 1266.2 | 1280.9 | 1465.0 | 2074.1 | 1325.4 | 1260.3 |
| 85° | 821.9 | 1334.9 | 2268.5 | 1232.2 | 764.3 | 609.7 | 758.4 | 1199.6 | 1797.0 | 702.2 | 615.0 |
| 87.5° | 105.0 | 385.8 | 1502.0 | 491.5 | 301.5 | 162.6 | 360.0 | 675.7 | 1153.9 | 143.3 | 124.9 |
| 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-04-LED-U-SLL-7030-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 |
| 2.5° | 4928.8 | 4830.5 | 4701.9 | 4582.9 | 4459.4 | 4336.7 | 4176.3 | 4075.8 | 4006.3 | 3993.0 | 3963.5 |
| 5° | 4809.0 | 4482.4 | 4235.4 | 4021.9 | 3828.2 | 3554.6 | 3403.2 | 3277.4 | 3210.2 | 3203.6 | 3187.3 |
| 7.5° | 4256.8 | 3806.0 | 3472.6 | 3170.2 | 2896.1 | 2675.1 | 2431.1 | 2317.3 | 2270.7 | 2281.9 | 2293.0 |
| 10° | 3682.6 | 3178.5 | 2795.5 | 2486.6 | 2244.8 | 2058.6 | 1862.8 | 1730.4 | 1638.8 | 1620.4 | 1616.6 |
| 12.5° | 3262.7 | 2709.8 | 2338.0 | 2119.9 | 1932.9 | 1757.8 | 1550.1 | 1394.0 | 1275.0 | 1234.4 | 1207.1 |
| 15° | 3085.3 | 2480.6 | 2091.1 | 1856.1 | 1649.9 | 1427.4 | 1234.4 | 1071.1 | 961.7 | 926.2 | 906.2 |
| 17.5° | 3122.9 | 2417.2 | 1921.1 | 1620.4 | 1356.4 | 1124.3 | 881.0 | 741.5 | 675.7 | 658.7 | 658.7 |
| 20° | 3321.2 | 2405.3 | 1780.7 | 1403.0 | 1074.0 | 804.9 | 605.4 | 525.5 | 504.1 | 501.9 | 507.8 |
| 22.5° | 3599.0 | 2446.7 | 1675.7 | 1214.4 | 834.5 | 587.6 | 471.6 | 442.1 | 432.4 | 434.7 | 441.3 |
| 25° | 4013.0 | 2586.3 | 1599.5 | 1046.7 | 654.9 | 481.2 | 420.5 | 402.8 | 398.5 | 404.4 | 412.5 |
| 27.5° | 4503.7 | 2726.1 | 1552.2 | 920.3 | 552.9 | 439.8 | 399.9 | 381.5 | 384.4 | 391.8 | 399.2 |
| 30° | 4934.7 | 2840.6 | 1477.6 | 830.1 | 521.1 | 442.1 | 399.9 | 374.8 | 371.8 | 373.2 | 375.6 |
| 32.5° | 5321.4 | 2918.2 | 1390.5 | 744.4 | 449.4 | 392.5 | 373.2 | 369.7 | 353.4 | 347.5 | 348.1 |
| 35° | 5654.7 | 2918.2 | 1337.9 | 694.2 | 402.8 | 348.1 | 317.1 | 298.6 | 290.5 | 291.2 | 299.4 |
| 37.5° | 5976.3 | 2859.9 | 1311.9 | 666.1 | 377.7 | 331.2 | 303.8 | 287.6 | 276.4 | 274.2 | 275.7 |
| 40° | 6260.1 | 2774.8 | 1282.4 | 654.1 | 358.5 | 320.7 | 294.9 | 281.7 | 269.8 | 266.1 | 266.8 |
| 42.5° | 6487.7 | 2706.2 | 1249.9 | 638.6 | 346.7 | 313.3 | 289.0 | 277.2 | 263.9 | 260.1 | 259.5 |
| 45° | 6733.8 | 2683.2 | 1207.1 | 607.6 | 352.6 | 314.1 | 287.6 | 275.0 | 261.6 | 257.2 | 255.7 |
| 47.5° | 7058.3 | 2754.9 | 1162.7 | 570.7 | 365.2 | 317.8 | 289.7 | 275.0 | 260.9 | 257.2 | 255.7 |
| 50° | 7467.1 | 2923.4 | 1106.6 | 516.7 | 352.6 | 328.3 | 289.0 | 272.7 | 260.9 | 257.2 | 254.2 |
| 52.5° | 7992.0 | 3151.1 | 1032.6 | 454.6 | 345.2 | 353.4 | 287.6 | 268.3 | 257.2 | 252.1 | 246.9 |
| 55° | 8629.9 | 3337.4 | 944.6 | 403.6 | 328.3 | 346.7 | 285.2 | 263.1 | 251.3 | 243.9 | 239.5 |
| 57.5° | 9097.0 | 3404.6 | 831.6 | 370.3 | 304.5 | 335.5 | 282.3 | 256.5 | 243.9 | 237.9 | 232.0 |
| 60° | 9004.6 | 3274.5 | 736.2 | 349.6 | 290.5 | 303.0 | 280.1 | 250.5 | 237.3 | 232.8 | 227.7 |
| 62.5° | 8264.7 | 2934.4 | 674.9 | 340.1 | 281.7 | 276.4 | 282.3 | 244.6 | 231.4 | 226.9 | 225.4 |
| 65° | 7155.2 | 2432.6 | 650.4 | 337.8 | 274.2 | 260.9 | 262.4 | 237.9 | 224.7 | 221.0 | 219.5 |
| 67.5° | 5902.3 | 1963.3 | 629.0 | 345.2 | 264.6 | 249.8 | 242.4 | 229.1 | 218.1 | 214.3 | 211.4 |
| 70° | 4654.6 | 1632.9 | 619.4 | 340.8 | 252.8 | 238.7 | 230.6 | 219.5 | 209.9 | 206.3 | 204.0 |
| 72.5° | 3748.3 | 1379.3 | 614.2 | 336.3 | 237.3 | 224.0 | 216.6 | 206.9 | 196.6 | 195.1 | 193.0 |
| 75° | 3171.8 | 1084.4 | 562.4 | 322.4 | 219.5 | 206.3 | 201.0 | 192.2 | 181.8 | 181.8 | 180.4 |
| 77.5° | 2446.7 | 784.3 | 467.8 | 285.2 | 201.0 | 186.3 | 181.8 | 175.2 | 163.4 | 165.5 | 164.9 |
| 80° | 1807.2 | 511.6 | 365.9 | 236.5 | 178.1 | 164.1 | 161.9 | 155.2 | 142.7 | 145.7 | 145.7 |
| 82.5° | 1238.1 | 335.5 | 263.1 | 193.7 | 152.3 | 139.0 | 139.0 | 132.3 | 118.2 | 119.7 | 124.2 |
| 85° | 621.6 | 230.6 | 196.6 | 150.0 | 118.2 | 111.7 | 111.7 | 106.4 | 92.5 | 93.1 | 99.1 |
| 87.5° | 189.2 | 139.0 | 130.1 | 107.2 | 85.0 | 83.5 | 79.9 | 76.2 | 67.3 | 66.5 | 70.3 |
| 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-04-LED-U-SLL-7030-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 | 4543.0 |
| 2.5° | 3918.4 | 3876.2 | 3825.2 | 3712.8 | 3675.2 | 3673.0 | 3706.9 | 3671.4 | 3739.5 | 3710.7 | 3742.4 |
| 5° | 3160.0 | 3118.6 | 3061.7 | 2918.2 | 2831.0 | 2771.9 | 2743.8 | 2661.0 | 2720.9 | 2677.3 | 2713.6 |
| 7.5° | 2324.0 | 2333.6 | 2295.9 | 2211.6 | 2021.7 | 1926.2 | 1870.1 | 1819.8 | 1863.4 | 1859.0 | 1928.5 |
| 10° | 1633.5 | 1659.4 | 1632.9 | 1547.8 | 1394.0 | 1341.6 | 1352.0 | 1371.9 | 1428.8 | 1458.4 | 1565.5 |
| 12.5° | 1176.0 | 1174.5 | 1157.5 | 1081.4 | 980.2 | 986.1 | 1028.2 | 1063.0 | 1115.4 | 1146.4 | 1255.8 |
| 15° | 878.1 | 864.8 | 857.4 | 795.3 | 737.7 | 750.3 | 771.0 | 774.6 | 807.9 | 826.4 | 915.0 |
| 17.5° | 663.8 | 670.5 | 678.6 | 634.2 | 590.5 | 582.5 | 566.2 | 546.3 | 555.9 | 559.5 | 603.8 |
| 20° | 527.0 | 553.6 | 573.6 | 542.6 | 498.2 | 474.5 | 453.9 | 440.6 | 440.6 | 439.8 | 452.4 |
| 22.5° | 460.5 | 479.7 | 501.2 | 479.7 | 439.8 | 419.1 | 407.3 | 396.9 | 395.4 | 395.4 | 407.3 |
| 25° | 424.3 | 438.3 | 459.0 | 444.2 | 414.6 | 399.2 | 388.1 | 374.8 | 369.7 | 368.1 | 376.3 |
| 27.5° | 406.6 | 412.5 | 422.9 | 409.5 | 384.4 | 377.0 | 374.0 | 362.2 | 355.5 | 351.9 | 360.0 |
| 30° | 376.3 | 374.8 | 375.6 | 362.2 | 342.2 | 341.6 | 346.7 | 348.9 | 346.7 | 346.0 | 358.5 |
| 32.5° | 348.1 | 345.2 | 344.5 | 332.5 | 314.1 | 309.8 | 314.1 | 318.6 | 323.7 | 331.2 | 346.0 |
| 35° | 312.7 | 320.0 | 324.5 | 314.1 | 291.9 | 278.7 | 273.4 | 265.4 | 260.9 | 260.9 | 277.9 |
| 37.5° | 284.6 | 301.5 | 308.2 | 298.6 | 274.2 | 255.7 | 246.9 | 245.4 | 246.2 | 249.1 | 265.4 |
| 40° | 275.0 | 287.6 | 293.5 | 283.8 | 259.5 | 242.4 | 237.3 | 235.8 | 237.3 | 241.7 | 258.0 |
| 42.5° | 269.1 | 277.9 | 277.2 | 265.4 | 245.4 | 233.6 | 230.6 | 229.1 | 230.6 | 235.0 | 252.8 |
| 45° | 263.9 | 269.8 | 263.9 | 249.8 | 231.4 | 225.4 | 226.1 | 225.4 | 226.9 | 231.4 | 248.3 |
| 47.5° | 259.5 | 261.6 | 254.2 | 240.3 | 221.0 | 219.5 | 222.5 | 224.7 | 226.1 | 229.9 | 247.6 |
| 50° | 252.8 | 252.8 | 246.2 | 231.4 | 212.2 | 212.8 | 216.6 | 221.8 | 222.5 | 226.9 | 240.9 |
| 52.5° | 244.6 | 243.9 | 239.5 | 225.4 | 204.8 | 206.9 | 206.9 | 212.8 | 214.3 | 219.5 | 234.4 |
| 55° | 237.9 | 236.5 | 234.4 | 221.0 | 198.1 | 201.8 | 199.6 | 201.8 | 205.5 | 210.7 | 226.9 |
| 57.5° | 232.0 | 229.1 | 229.1 | 217.3 | 193.0 | 194.4 | 189.2 | 192.2 | 196.6 | 201.0 | 218.1 |
| 60° | 226.1 | 223.2 | 224.7 | 212.2 | 184.7 | 183.3 | 181.2 | 187.1 | 188.5 | 193.7 | 210.7 |
| 62.5° | 219.5 | 217.3 | 218.1 | 206.3 | 178.8 | 175.2 | 175.2 | 180.4 | 181.2 | 188.5 | 204.8 |
| 65° | 214.3 | 211.4 | 210.7 | 200.3 | 172.2 | 167.8 | 170.0 | 172.2 | 173.7 | 181.2 | 196.6 |
| 67.5° | 209.2 | 203.2 | 203.2 | 195.1 | 164.9 | 160.4 | 164.9 | 164.1 | 166.3 | 172.9 | 185.5 |
| 70° | 202.5 | 194.4 | 195.1 | 191.4 | 157.5 | 152.3 | 155.9 | 155.2 | 156.7 | 161.1 | 173.7 |
| 72.5° | 192.2 | 185.5 | 187.1 | 185.5 | 150.0 | 142.7 | 144.1 | 144.1 | 144.1 | 147.8 | 161.1 |
| 75° | 178.8 | 173.7 | 178.1 | 181.8 | 141.2 | 130.8 | 132.3 | 132.3 | 130.1 | 132.3 | 148.6 |
| 77.5° | 162.6 | 159.6 | 174.5 | 169.3 | 130.8 | 118.2 | 118.2 | 116.8 | 112.3 | 115.3 | 133.1 |
| 80° | 144.9 | 142.7 | 161.1 | 141.9 | 119.0 | 102.7 | 101.3 | 97.6 | 93.1 | 95.4 | 113.1 |
| 82.5° | 126.4 | 124.2 | 135.3 | 108.7 | 102.7 | 85.0 | 81.3 | 74.7 | 70.3 | 72.4 | 88.7 |
| 85° | 103.5 | 103.5 | 104.3 | 82.1 | 78.3 | 65.0 | 60.6 | 51.8 | 46.6 | 48.1 | 63.6 |
| 87.5° | 74.0 | 76.2 | 70.3 | 56.2 | 46.6 | 36.3 | 33.3 | 28.1 | 23.6 | 27.4 | 33.3 |
| 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° | 297.8 | 325.3 | 368.1 | 641.6 | 1250.7 | 3090.5 | 5752.3 | 6620.8 |
| 37.5° | 283.8 | 311.2 | 342.2 | 632.7 | 1267.7 | 3175.5 | 6194.2 | 7154.6 |
| 40° | 275.0 | 300.1 | 326.6 | 627.5 | 1283.9 | 3253.0 | 6627.4 | 7682.2 |
| 42.5° | 269.1 | 291.9 | 325.3 | 609.7 | 1292.1 | 3322.6 | 6983.8 | 8131.0 |
| 45° | 268.3 | 291.9 | 331.2 | 592.0 | 1304.7 | 3397.2 | 7282.3 | 8462.7 |
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| 75° | 153.0 | 161.9 | 182.6 | 336.3 | 660.0 | 1233.6 | 3432.7 | 3831.8 |
| 77.5° | 136.0 | 142.7 | 160.4 | 259.5 | 490.0 | 789.4 | 2576.8 | 2799.2 |
| 80° | 116.1 | 119.7 | 134.5 | 190.0 | 335.5 | 493.8 | 2038.7 | 2246.4 |
| 82.5° | 93.1 | 94.6 | 104.3 | 142.7 | 218.1 | 317.1 | 1365.3 | 1558.1 |
| 85° | 65.8 | 65.8 | 71.7 | 103.5 | 148.6 | 201.0 | 741.5 | 821.9 |
| 87.5° | 31.0 | 31.8 | 31.8 | 57.0 | 77.6 | 102.0 | 170.8 | 105.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)