

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: P268451

Luminaire Tested: **GAN-AF-04-LED-U-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268451
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 14812.5 lumens
Efficiency: N/A
Efficacy: 86.6 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

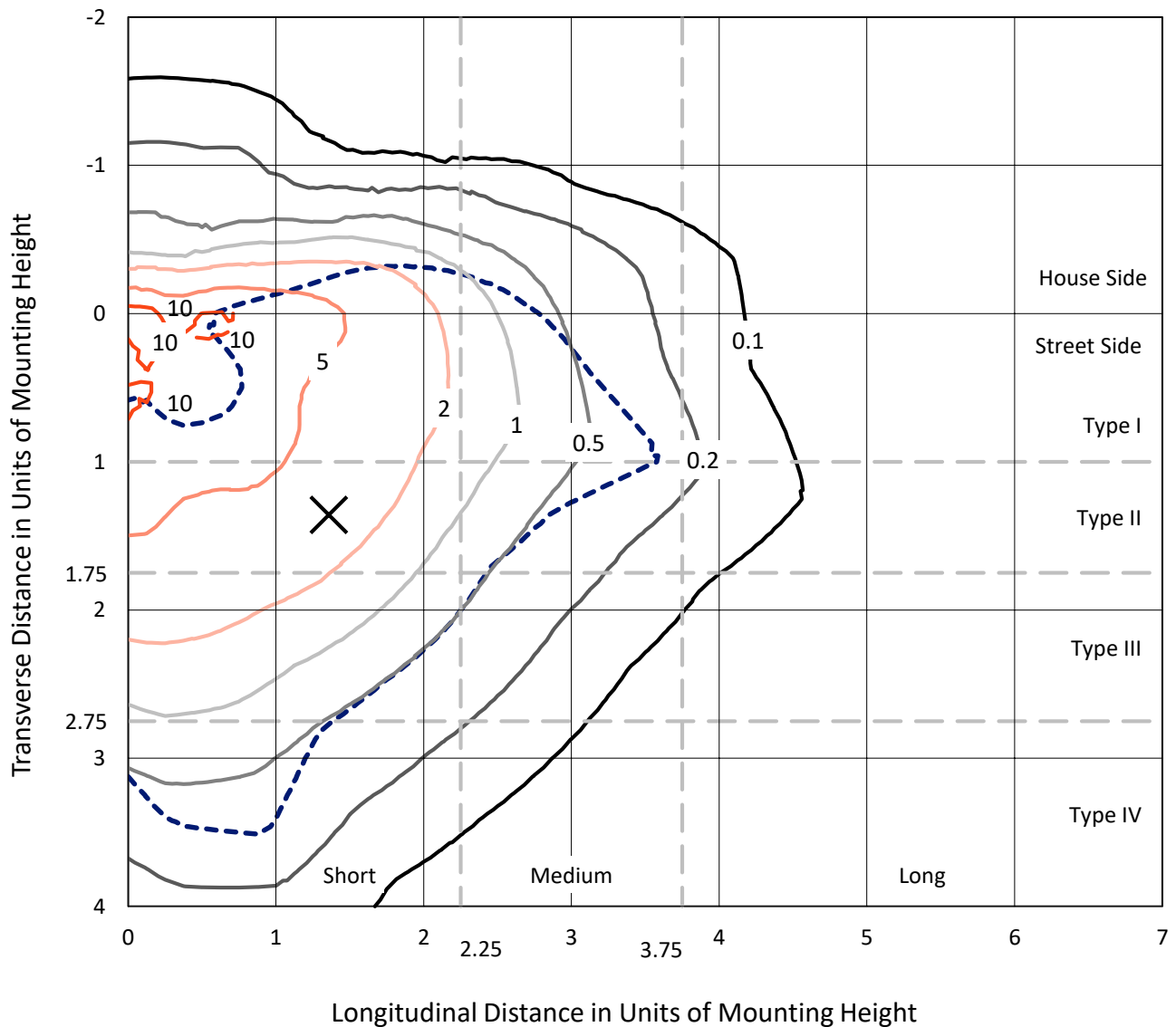
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

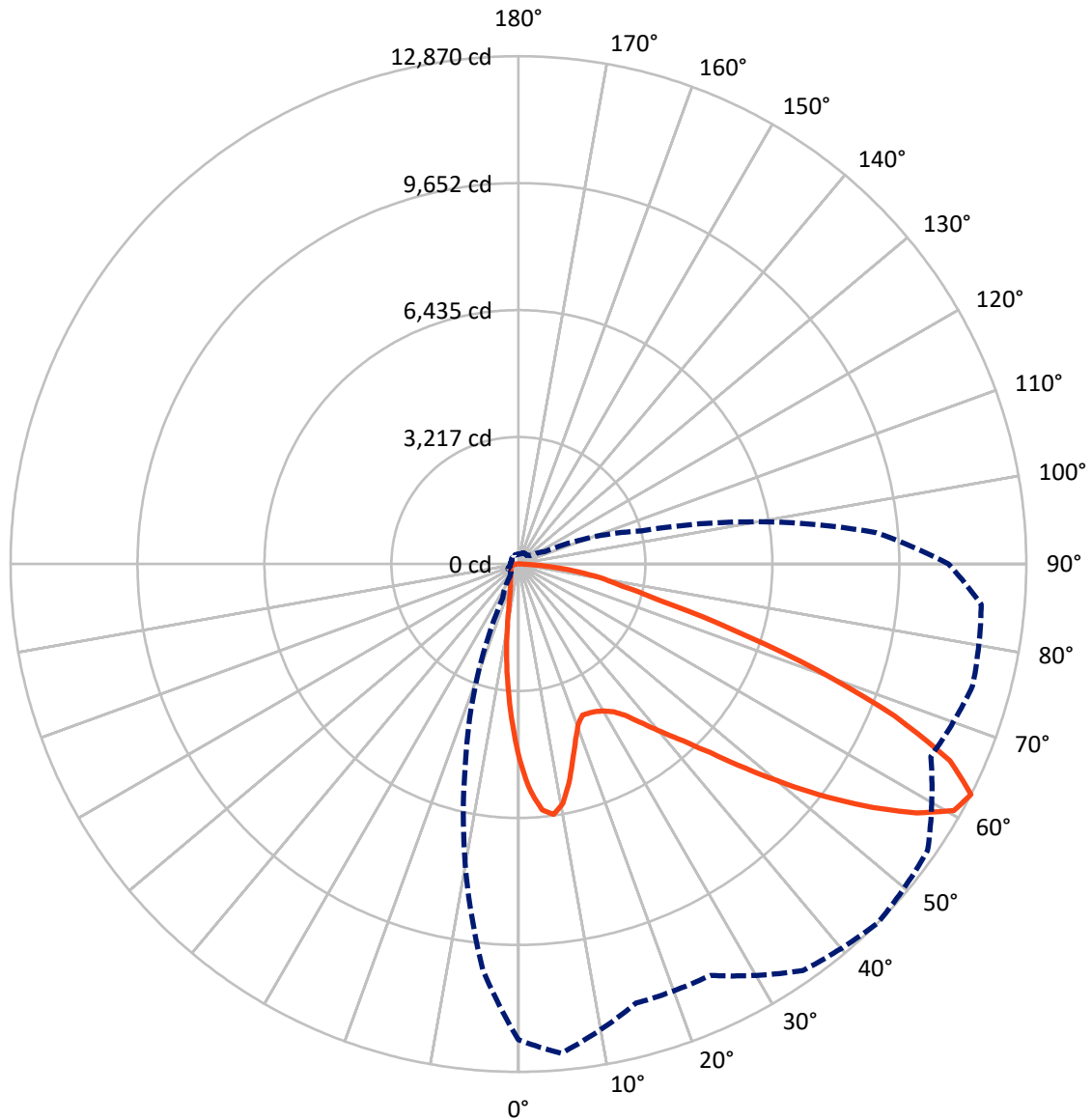


Based on 20 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - Non-Cutoff

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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 | 2451.3 | 0.0 | 2451.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 12361.3 | 0.0 | 12361.3 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 14812.5 | 0.0 | 14812.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 364.3 | 2.5 |
| 10°-20° | 668.0 | 4.5 |
| 20°-30° | 974.0 | 6.6 |
| 30°-40° | 1500.1 | 10.1 |
| 40°-50° | 2207.7 | 14.9 |
| 50°-60° | 3238.3 | 21.9 |
| 60°-70° | 3619.9 | 24.4 |
| 70°-80° | 1772.3 | 12.0 |
| 80°-90° | 467.9 | 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° | 14812.5 | 100.0 |
| 0°-180° | 14812.5 | 100.0 |

Coefficient of Utilization



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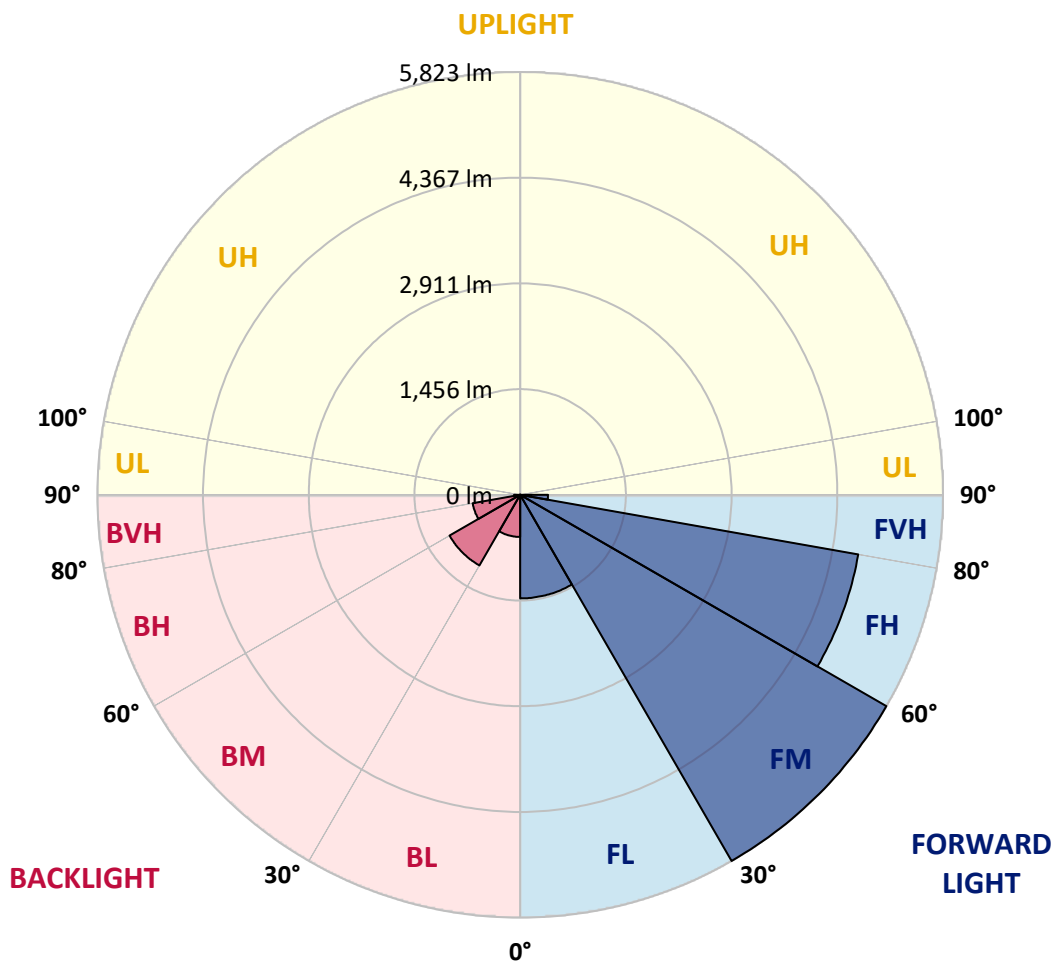
CATALOG NUMBER: GAN-AF-04-LED-U-SLL-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1426.4 | 9.6 | | | |
| FM | (30°-60°) | 5822.9 | 39.3 | | | |
| FH | (60°-80°) | 4727.6 | 31.9 | | | G2/5000 |
| FVH | (80°-90°) | 384.3 | 2.6 | | | G3/500 |
| BL | (0°-30°) | 579.9 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1123.2 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 664.5 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 83.6 | 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-04-LED-U-SLL-7027-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 |
| 2.5° | 5199.8 | 5282.9 | 5444.9 | 5566.3 | 5713.7 | 5747.9 | 5795.1 | 5748.8 | 5666.5 | 5557.4 | 5521.5 |
| 5° | 4889.7 | 5067.2 | 5460.4 | 5806.6 | 6114.4 | 6257.7 | 6297.5 | 6179.4 | 5940.9 | 5627.4 | 5436.1 |
| 7.5° | 4392.2 | 4644.5 | 5177.1 | 5686.8 | 6140.4 | 6408.2 | 6401.7 | 6127.2 | 5688.4 | 5177.9 | 4870.9 |
| 10° | 3963.1 | 4251.3 | 4861.9 | 5432.0 | 5913.3 | 6173.0 | 6072.8 | 5721.8 | 5198.2 | 4610.5 | 4277.3 |
| 12.5° | 3722.8 | 4005.4 | 4625.1 | 5197.5 | 5599.7 | 5689.2 | 5612.7 | 5269.1 | 4775.7 | 4181.3 | 3889.8 |
| 15° | 3681.3 | 3991.4 | 4530.5 | 4996.4 | 5221.8 | 5143.8 | 5052.4 | 4898.5 | 4550.2 | 4042.8 | 3739.0 |
| 17.5° | 3861.3 | 4203.2 | 4638.8 | 4856.2 | 4818.0 | 4682.1 | 4655.9 | 4673.1 | 4589.3 | 4196.7 | 3846.6 |
| 20° | 4206.6 | 4616.8 | 4897.0 | 4790.3 | 4511.0 | 4323.7 | 4330.3 | 4591.6 | 4840.0 | 4586.7 | 4186.9 |
| 22.5° | 4690.9 | 5159.1 | 5269.1 | 4825.3 | 4381.6 | 4159.2 | 4213.1 | 4636.4 | 5239.9 | 5156.7 | 4646.3 |
| 25° | 5318.0 | 5744.7 | 5665.6 | 4952.4 | 4394.6 | 4179.6 | 4222.8 | 4791.1 | 5712.1 | 5726.8 | 5214.5 |
| 27.5° | 5925.4 | 6321.2 | 5998.7 | 5120.9 | 4448.3 | 4227.7 | 4284.6 | 5034.6 | 6163.2 | 6345.5 | 5864.3 |
| 30° | 6399.3 | 6674.5 | 6130.7 | 5274.8 | 4554.1 | 4321.2 | 4392.2 | 5265.9 | 6368.4 | 6763.2 | 6364.3 |
| 32.5° | 6791.7 | 6989.6 | 6340.6 | 5465.4 | 4748.8 | 4468.7 | 4593.3 | 5546.8 | 6663.9 | 7160.6 | 6853.7 |
| 35° | 7293.3 | 7349.6 | 6602.1 | 5677.8 | 5049.3 | 4725.2 | 4880.0 | 5821.9 | 6945.6 | 7562.1 | 7335.6 |
| 37.5° | 7881.3 | 7808.7 | 6848.8 | 5968.6 | 5437.7 | 5126.5 | 5254.5 | 6124.0 | 7177.7 | 8017.3 | 7828.3 |
| 40° | 8462.7 | 8288.4 | 7158.2 | 6419.6 | 6004.5 | 5599.7 | 5751.2 | 6446.5 | 7394.3 | 8473.3 | 8309.5 |
| 42.5° | 8956.9 | 8698.7 | 7463.6 | 6915.5 | 6532.0 | 6121.6 | 6302.4 | 6771.5 | 7601.2 | 8862.5 | 8727.3 |
| 45° | 9322.5 | 9001.6 | 7754.2 | 7392.0 | 7259.2 | 6815.4 | 6900.9 | 7143.5 | 7825.0 | 9187.3 | 9070.9 |
| 47.5° | 9649.1 | 9306.3 | 8083.2 | 7872.2 | 7895.2 | 7717.6 | 7580.0 | 7576.8 | 8088.9 | 9452.8 | 9395.8 |
| 50° | 10086.3 | 9728.9 | 8436.6 | 8367.4 | 8849.5 | 8731.3 | 8427.5 | 8082.4 | 8422.8 | 9754.1 | 9747.6 |
| 52.5° | 10688.8 | 10398.2 | 8868.2 | 8900.8 | 9740.2 | 9817.5 | 9441.4 | 8689.8 | 8945.5 | 10307.0 | 10267.8 |
| 55° | 11401.3 | 11232.0 | 9456.1 | 9513.9 | 10833.0 | 10888.4 | 10514.7 | 9449.5 | 9714.2 | 11107.4 | 10999.0 |
| 57.5° | 11957.5 | 11921.6 | 10100.9 | 10250.0 | 11649.0 | 11898.1 | 11554.4 | 10328.9 | 10580.5 | 11781.6 | 11509.7 |
| 60° | 12179.0 | 12352.4 | 10787.3 | 10992.6 | 12403.6 | 12679.8 | 12378.5 | 11101.7 | 11348.4 | 12060.9 | 11474.6 |
| 62.5° | 12059.2 | 12446.8 | 11518.5 | 11501.4 | 12572.1 | 12869.5 | 12657.7 | 11531.6 | 11917.5 | 11772.6 | 10894.0 |
| 65° | 11506.4 | 12107.3 | 11942.7 | 11370.3 | 11995.7 | 12020.2 | 11951.8 | 11339.5 | 12051.9 | 10861.4 | 9772.0 |
| 67.5° | 10302.0 | 11166.8 | 11384.2 | 10246.6 | 10440.6 | 10281.7 | 10166.8 | 10287.4 | 11351.6 | 9496.0 | 8212.7 |
| 70° | 8391.0 | 9692.3 | 9796.3 | 8195.5 | 8107.7 | 8000.9 | 7772.1 | 8434.1 | 9969.8 | 7782.7 | 6516.6 |
| 72.5° | 6169.6 | 7537.7 | 7857.7 | 6010.9 | 5603.7 | 5625.7 | 5444.9 | 6356.1 | 8105.9 | 5781.3 | 4865.2 |
| 75° | 4221.1 | 5458.0 | 6147.7 | 4194.2 | 3705.7 | 3714.8 | 3691.9 | 4503.7 | 6456.3 | 4021.6 | 3640.7 |
| 77.5° | 3083.6 | 3899.5 | 4636.4 | 2819.8 | 2737.6 | 2687.1 | 2674.9 | 3151.3 | 4949.9 | 2919.9 | 2827.1 |
| 80° | 2474.6 | 2880.9 | 3114.6 | 1954.3 | 2101.7 | 2097.5 | 2030.0 | 2166.7 | 3232.6 | 2135.8 | 2114.6 |
| 82.5° | 1716.5 | 2214.1 | 2523.3 | 1531.6 | 1418.5 | 1394.9 | 1411.1 | 1613.8 | 2284.7 | 1459.9 | 1388.3 |
| 85° | 905.4 | 1470.5 | 2498.9 | 1357.3 | 841.9 | 671.8 | 835.5 | 1321.5 | 1979.4 | 773.5 | 677.5 |
| 87.5° | 115.6 | 425.1 | 1654.6 | 541.5 | 332.3 | 179.1 | 396.5 | 744.2 | 1271.0 | 157.9 | 137.6 |
| 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-7027-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 |
| 2.5° | 5429.5 | 5321.2 | 5179.5 | 5048.5 | 4912.4 | 4777.2 | 4600.6 | 4489.9 | 4413.4 | 4398.6 | 4366.1 |
| 5° | 5297.7 | 4937.8 | 4665.7 | 4430.4 | 4217.1 | 3915.8 | 3748.8 | 3610.5 | 3536.4 | 3529.0 | 3511.1 |
| 7.5° | 4689.3 | 4192.7 | 3825.4 | 3492.4 | 3190.3 | 2946.8 | 2678.0 | 2552.8 | 2501.4 | 2513.6 | 2525.9 |
| 10° | 4056.7 | 3501.4 | 3079.6 | 2739.2 | 2472.9 | 2267.7 | 2052.0 | 1906.3 | 1805.2 | 1784.8 | 1780.8 |
| 12.5° | 3594.2 | 2985.1 | 2575.5 | 2335.4 | 2129.3 | 1936.3 | 1707.5 | 1535.7 | 1404.6 | 1359.9 | 1329.8 |
| 15° | 3398.7 | 2732.6 | 2303.6 | 2044.6 | 1817.5 | 1572.4 | 1359.9 | 1179.8 | 1059.3 | 1020.3 | 998.2 |
| 17.5° | 3440.2 | 2662.7 | 2116.2 | 1784.8 | 1494.2 | 1238.6 | 970.6 | 816.6 | 744.2 | 725.6 | 725.6 |
| 20° | 3658.4 | 2649.6 | 1961.5 | 1545.4 | 1183.1 | 886.7 | 666.9 | 579.0 | 555.3 | 552.8 | 559.5 |
| 22.5° | 3964.7 | 2695.3 | 1845.9 | 1337.8 | 919.2 | 647.4 | 519.5 | 486.9 | 476.3 | 478.7 | 486.2 |
| 25° | 4420.6 | 2849.2 | 1762.0 | 1153.1 | 721.3 | 530.1 | 463.3 | 443.8 | 438.9 | 445.4 | 454.4 |
| 27.5° | 4961.2 | 3003.0 | 1710.0 | 1013.7 | 609.1 | 484.5 | 440.4 | 420.1 | 423.5 | 431.5 | 439.7 |
| 30° | 5436.1 | 3129.2 | 1627.6 | 914.5 | 574.0 | 486.9 | 440.4 | 412.9 | 409.5 | 411.2 | 413.7 |
| 32.5° | 5861.9 | 3214.8 | 1531.6 | 820.0 | 495.1 | 432.4 | 411.2 | 407.1 | 389.2 | 382.7 | 383.5 |
| 35° | 6229.1 | 3214.8 | 1473.8 | 764.5 | 443.8 | 383.5 | 349.4 | 329.0 | 319.9 | 320.9 | 329.8 |
| 37.5° | 6583.3 | 3150.4 | 1445.4 | 733.6 | 416.1 | 364.8 | 334.7 | 316.7 | 304.5 | 302.1 | 303.7 |
| 40° | 6896.0 | 3056.8 | 1412.8 | 720.6 | 395.0 | 353.5 | 324.8 | 310.3 | 297.2 | 293.1 | 293.9 |
| 42.5° | 7146.7 | 2981.0 | 1376.9 | 703.6 | 381.9 | 345.3 | 318.4 | 305.3 | 290.7 | 286.6 | 285.8 |
| 45° | 7417.9 | 2955.8 | 1329.8 | 669.3 | 388.3 | 346.0 | 316.7 | 302.9 | 288.3 | 283.3 | 281.8 |
| 47.5° | 7775.4 | 3034.7 | 1280.9 | 628.6 | 402.3 | 350.1 | 319.2 | 302.9 | 287.5 | 283.3 | 281.8 |
| 50° | 8225.7 | 3220.5 | 1219.0 | 569.2 | 388.3 | 361.6 | 318.4 | 300.5 | 287.5 | 283.3 | 280.1 |
| 52.5° | 8803.7 | 3471.2 | 1137.6 | 500.7 | 380.3 | 389.2 | 316.7 | 295.6 | 283.3 | 277.7 | 271.9 |
| 55° | 9506.6 | 3676.5 | 1040.6 | 444.7 | 361.6 | 381.9 | 314.2 | 289.9 | 276.9 | 268.8 | 263.8 |
| 57.5° | 10021.1 | 3750.6 | 916.0 | 407.9 | 335.4 | 369.7 | 311.1 | 282.5 | 268.8 | 262.1 | 255.7 |
| 60° | 9919.4 | 3607.1 | 811.0 | 385.2 | 319.9 | 333.8 | 308.6 | 276.0 | 261.3 | 256.5 | 250.7 |
| 62.5° | 9104.3 | 3232.6 | 743.3 | 374.6 | 310.3 | 304.5 | 311.1 | 269.5 | 254.8 | 250.0 | 248.3 |
| 65° | 7882.1 | 2679.7 | 716.6 | 372.1 | 302.1 | 287.5 | 289.1 | 262.1 | 247.6 | 243.5 | 241.9 |
| 67.5° | 6501.9 | 2162.7 | 693.0 | 380.3 | 291.5 | 275.2 | 267.1 | 252.5 | 240.1 | 236.2 | 232.9 |
| 70° | 5127.4 | 1798.6 | 682.4 | 375.4 | 278.5 | 263.1 | 254.0 | 241.9 | 231.3 | 227.2 | 224.8 |
| 72.5° | 4129.1 | 1519.5 | 676.7 | 370.6 | 261.3 | 246.8 | 238.6 | 228.0 | 216.6 | 215.0 | 212.4 |
| 75° | 3494.0 | 1194.6 | 619.7 | 355.0 | 241.9 | 227.2 | 221.5 | 211.7 | 200.3 | 200.3 | 198.6 |
| 77.5° | 2695.3 | 863.9 | 515.4 | 314.2 | 221.5 | 205.3 | 200.3 | 193.0 | 179.9 | 182.4 | 181.5 |
| 80° | 1990.9 | 563.4 | 403.1 | 260.6 | 196.2 | 180.7 | 178.4 | 170.9 | 157.2 | 160.3 | 160.3 |
| 82.5° | 1363.8 | 369.7 | 289.9 | 213.3 | 167.8 | 153.2 | 153.2 | 145.7 | 130.3 | 132.0 | 136.8 |
| 85° | 684.8 | 254.0 | 216.6 | 165.3 | 130.3 | 123.0 | 123.0 | 117.3 | 101.8 | 102.5 | 109.1 |
| 87.5° | 208.4 | 153.2 | 143.3 | 118.0 | 93.7 | 91.9 | 87.9 | 83.9 | 74.1 | 73.3 | 77.3 |
| 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-7027-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 | 5004.5 |
| 2.5° | 4316.4 | 4270.1 | 4213.8 | 4090.1 | 4048.5 | 4046.1 | 4083.5 | 4044.4 | 4119.4 | 4087.6 | 4122.6 |
| 5° | 3481.0 | 3435.4 | 3372.6 | 3214.8 | 3118.6 | 3053.5 | 3022.5 | 2931.3 | 2997.4 | 2949.2 | 2989.2 |
| 7.5° | 2560.0 | 2570.6 | 2529.1 | 2436.3 | 2227.0 | 2121.9 | 2060.2 | 2004.7 | 2052.7 | 2047.9 | 2124.4 |
| 10° | 1799.6 | 1828.1 | 1798.6 | 1705.1 | 1535.7 | 1477.9 | 1489.3 | 1511.3 | 1574.0 | 1606.6 | 1724.7 |
| 12.5° | 1295.4 | 1293.9 | 1275.1 | 1191.2 | 1079.8 | 1086.2 | 1132.7 | 1170.9 | 1228.7 | 1262.9 | 1383.4 |
| 15° | 967.4 | 952.7 | 944.6 | 876.1 | 812.6 | 826.5 | 849.3 | 853.3 | 890.0 | 910.3 | 1008.1 |
| 17.5° | 731.2 | 738.5 | 747.5 | 698.6 | 650.6 | 641.6 | 623.8 | 601.8 | 612.4 | 616.3 | 665.3 |
| 20° | 580.6 | 609.9 | 631.9 | 597.6 | 548.9 | 522.8 | 499.9 | 485.4 | 485.4 | 484.5 | 498.3 |
| 22.5° | 507.4 | 528.5 | 552.1 | 528.5 | 484.5 | 461.6 | 448.7 | 437.2 | 435.7 | 435.7 | 448.7 |
| 25° | 467.4 | 482.8 | 505.7 | 489.3 | 456.8 | 439.7 | 427.6 | 412.9 | 407.1 | 405.6 | 414.5 |
| 27.5° | 447.9 | 454.4 | 465.7 | 451.0 | 423.5 | 415.2 | 412.1 | 398.9 | 391.8 | 387.6 | 396.5 |
| 30° | 414.5 | 412.9 | 413.7 | 398.9 | 377.0 | 376.2 | 381.9 | 384.4 | 381.9 | 381.2 | 395.0 |
| 32.5° | 383.5 | 380.3 | 379.4 | 366.4 | 346.0 | 341.1 | 346.0 | 351.0 | 356.6 | 364.8 | 381.2 |
| 35° | 344.4 | 352.6 | 357.4 | 346.0 | 321.7 | 307.0 | 301.3 | 292.3 | 287.5 | 287.5 | 306.1 |
| 37.5° | 313.5 | 332.3 | 339.6 | 329.0 | 302.1 | 281.8 | 271.9 | 270.3 | 271.2 | 274.4 | 292.3 |
| 40° | 302.9 | 316.7 | 323.3 | 312.7 | 285.8 | 267.1 | 261.3 | 259.8 | 261.3 | 266.3 | 284.1 |
| 42.5° | 296.4 | 306.1 | 305.3 | 292.3 | 270.3 | 257.4 | 254.0 | 252.5 | 254.0 | 258.9 | 278.5 |
| 45° | 290.7 | 297.2 | 290.7 | 275.2 | 254.8 | 248.3 | 249.2 | 248.3 | 250.0 | 254.8 | 273.7 |
| 47.5° | 285.8 | 288.3 | 280.1 | 264.6 | 243.5 | 241.9 | 245.1 | 247.6 | 249.2 | 253.2 | 272.7 |
| 50° | 278.5 | 278.5 | 271.2 | 254.8 | 233.6 | 234.5 | 238.6 | 244.2 | 245.1 | 250.0 | 265.4 |
| 52.5° | 269.5 | 268.8 | 263.8 | 248.3 | 225.6 | 228.0 | 228.0 | 234.5 | 236.2 | 241.9 | 258.2 |
| 55° | 262.1 | 260.6 | 258.2 | 243.5 | 218.2 | 222.3 | 219.8 | 222.3 | 226.4 | 232.0 | 250.0 |
| 57.5° | 255.7 | 252.5 | 252.5 | 239.4 | 212.4 | 214.2 | 208.4 | 211.7 | 216.6 | 221.5 | 240.1 |
| 60° | 249.2 | 245.9 | 247.6 | 233.6 | 203.6 | 201.8 | 199.6 | 206.0 | 207.7 | 213.3 | 232.0 |
| 62.5° | 241.9 | 239.4 | 240.1 | 227.2 | 197.1 | 193.0 | 193.0 | 198.6 | 199.6 | 207.7 | 225.6 |
| 65° | 236.2 | 232.9 | 232.0 | 220.7 | 189.7 | 184.8 | 187.2 | 189.7 | 191.3 | 199.6 | 216.6 |
| 67.5° | 230.4 | 223.9 | 223.9 | 215.0 | 181.5 | 176.6 | 181.5 | 180.7 | 183.3 | 190.5 | 204.4 |
| 70° | 223.0 | 214.2 | 215.0 | 210.9 | 173.5 | 167.8 | 171.8 | 170.9 | 172.7 | 177.5 | 191.3 |
| 72.5° | 211.7 | 204.4 | 206.0 | 204.4 | 165.3 | 157.2 | 158.8 | 158.8 | 158.8 | 162.9 | 177.5 |
| 75° | 197.1 | 191.3 | 196.2 | 200.3 | 155.5 | 144.1 | 145.7 | 145.7 | 143.3 | 145.7 | 163.8 |
| 77.5° | 179.1 | 175.9 | 192.1 | 186.5 | 144.1 | 130.3 | 130.3 | 128.6 | 123.7 | 127.0 | 146.6 |
| 80° | 159.5 | 157.2 | 177.5 | 156.3 | 131.2 | 113.1 | 111.6 | 107.4 | 102.5 | 105.0 | 124.5 |
| 82.5° | 139.2 | 136.8 | 148.9 | 119.7 | 113.1 | 93.7 | 89.7 | 82.3 | 77.3 | 79.8 | 97.7 |
| 85° | 113.9 | 113.9 | 114.9 | 90.4 | 86.2 | 71.7 | 66.7 | 57.0 | 51.4 | 52.9 | 70.0 |
| 87.5° | 81.4 | 83.9 | 77.3 | 62.0 | 51.4 | 40.0 | 36.7 | 30.9 | 26.1 | 30.2 | 36.7 |
| 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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| 35° | 328.2 | 358.2 | 405.6 | 706.7 | 1377.7 | 3404.4 | 6336.6 | 7293.3 |
| 37.5° | 312.7 | 342.9 | 377.0 | 697.1 | 1396.4 | 3498.1 | 6823.5 | 7881.3 |
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| 42.5° | 296.4 | 321.7 | 358.2 | 671.8 | 1423.4 | 3660.1 | 7693.2 | 8956.9 |
| 45° | 295.6 | 321.7 | 364.8 | 652.2 | 1437.2 | 3742.3 | 8022.1 | 9322.5 |
| 47.5° | 296.4 | 332.3 | 352.6 | 628.6 | 1437.2 | 3880.0 | 8408.0 | 9649.1 |
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| 72.5° | 184.8 | 195.4 | 220.7 | 425.1 | 877.7 | 1959.2 | 4943.5 | 6169.6 |
| 75° | 168.5 | 178.4 | 201.1 | 370.6 | 727.2 | 1359.0 | 3781.4 | 4221.1 |
| 77.5° | 149.8 | 157.2 | 176.6 | 285.8 | 539.8 | 869.6 | 2838.6 | 3083.6 |
| 80° | 127.9 | 132.0 | 148.2 | 209.2 | 369.7 | 544.0 | 2245.8 | 2474.6 |
| 82.5° | 102.5 | 104.3 | 114.9 | 157.2 | 240.1 | 349.4 | 1503.9 | 1716.5 |
| 85° | 72.5 | 72.5 | 79.1 | 113.9 | 163.8 | 221.5 | 816.6 | 905.4 |
| 87.5° | 34.1 | 35.0 | 35.0 | 62.7 | 85.5 | 112.4 | 188.0 | 115.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)