

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: P191294

Luminaire Tested: **GAN-AF-06-LED-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191294
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-06-LED-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 32004.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

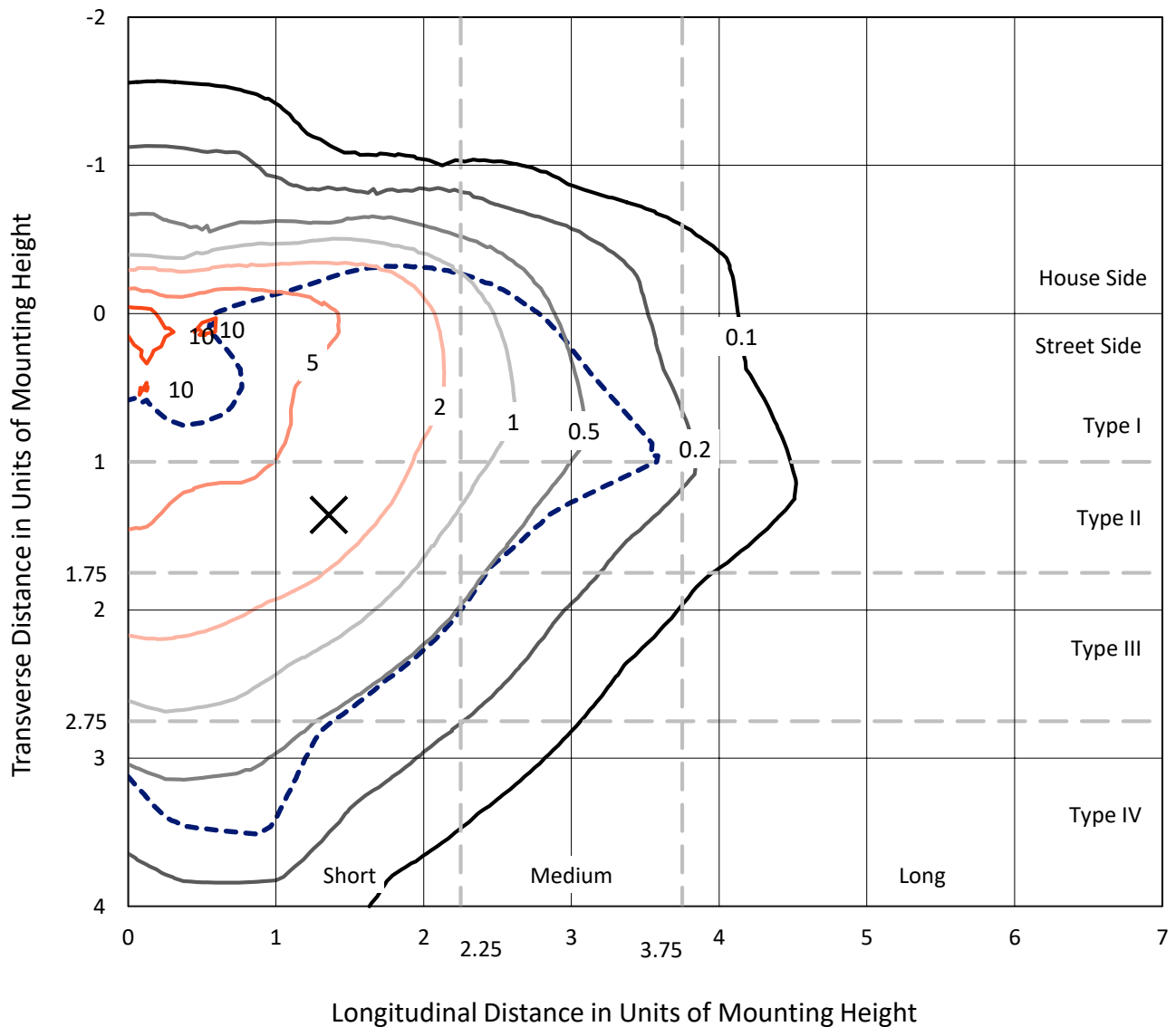


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

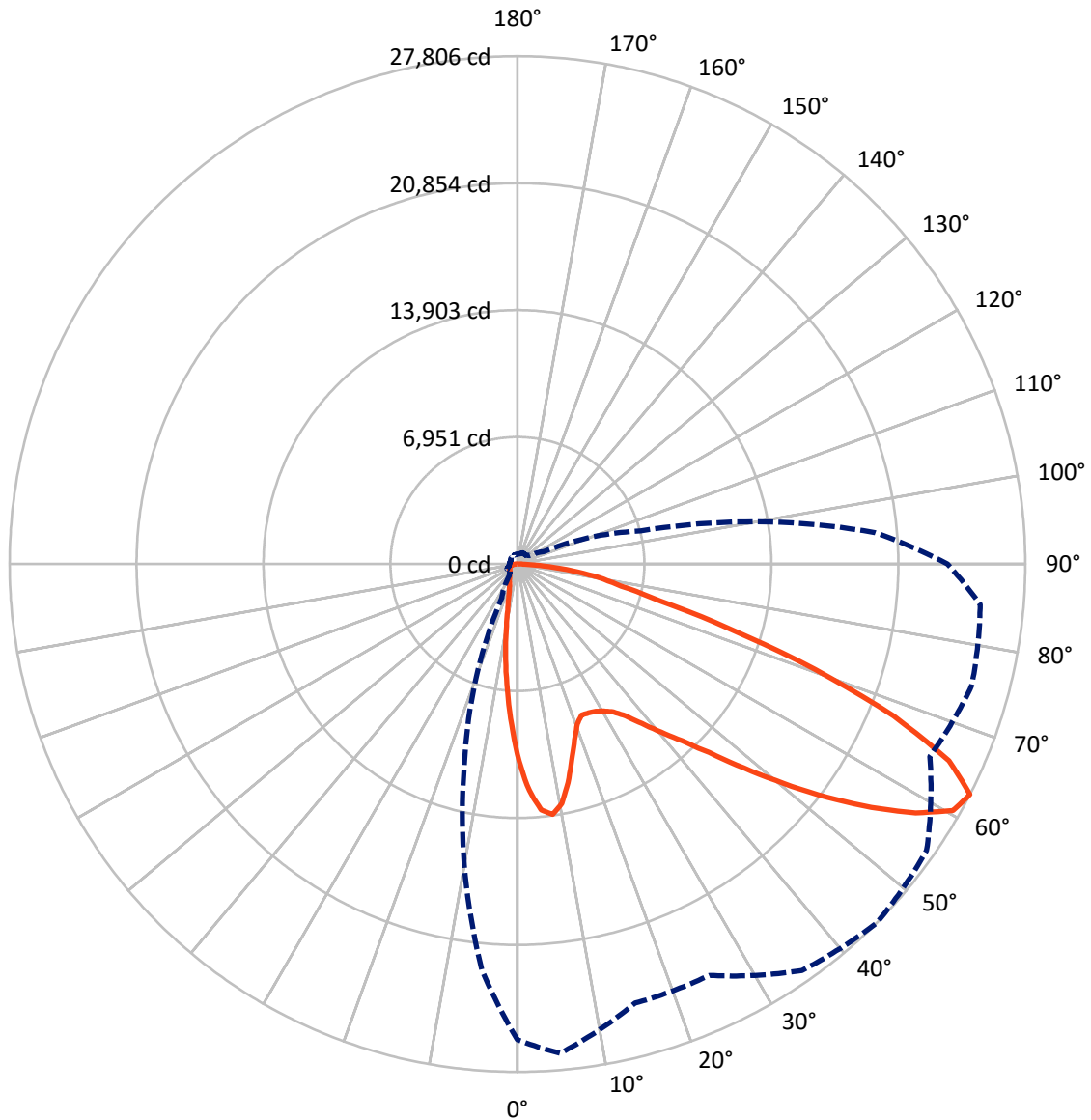


Based on 30 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191294

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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 | 5296.2 | 0.0 | 5296.2 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 26707.8 | 0.0 | 26707.8 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 32004.1 | 0.0 | 32004.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 787.1 | 2.5 |
| 10°-20° | 1443.4 | 4.5 |
| 20°-30° | 2104.4 | 6.6 |
| 30°-40° | 3241.1 | 10.1 |
| 40°-50° | 4770.0 | 14.9 |
| 50°-60° | 6996.6 | 21.9 |
| 60°-70° | 7821.2 | 24.4 |
| 70°-80° | 3829.2 | 12.0 |
| 80°-90° | 1011.0 | 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° | 32004.1 | 100.0 |
| 0°-180° | 32004.1 | 100.0 |



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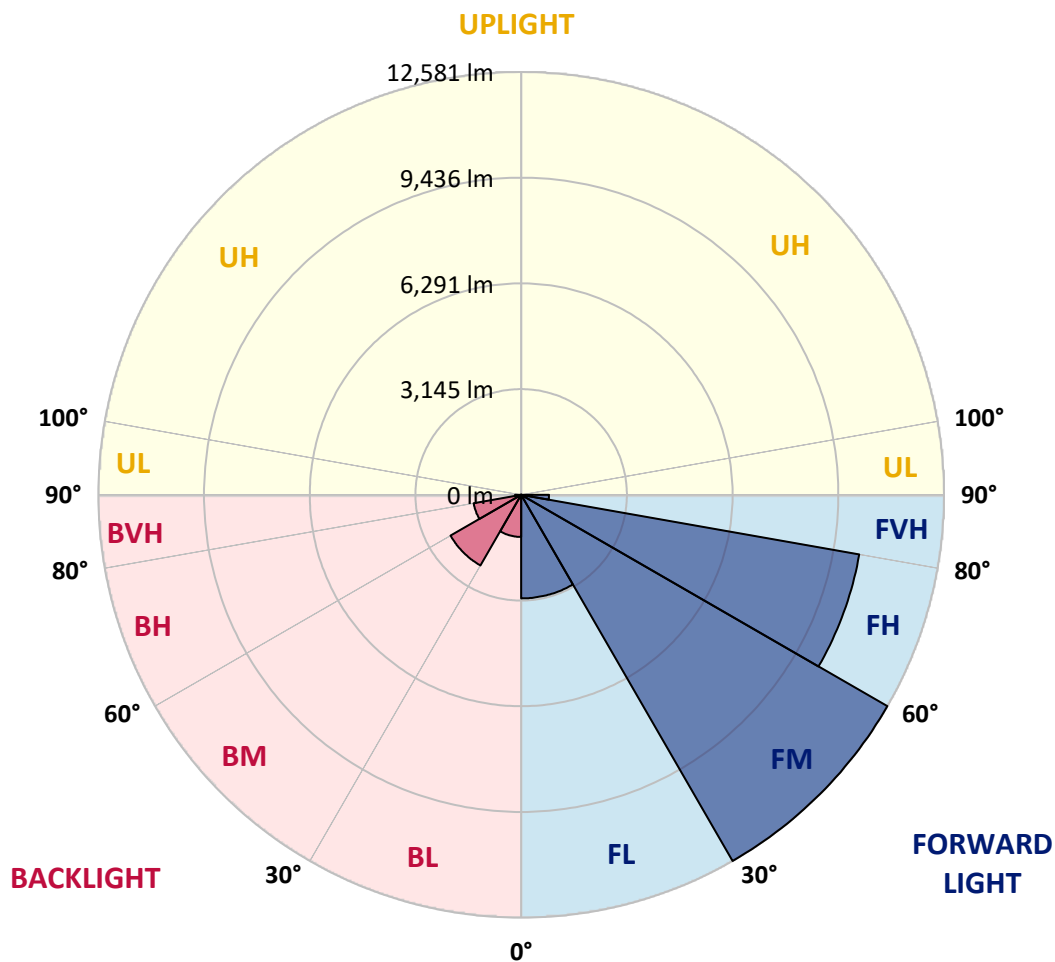
CATALOG NUMBER: GAN-AF-06-LED-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3081.9 | 9.6 | | | |
| FM | (30°-60°) | 12581.1 | 39.3 | | | |
| FH | (60°-80°) | 10214.6 | 31.9 | | | G4/12000 |
| FVH | (80°-90°) | 830.3 | 2.6 | | | G5 |
| BL | (0°-30°) | 1253.0 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 2426.7 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1435.8 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 180.7 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CATALOG NUMBER: GAN-AF-06-LED-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 |
| 2.5° | 11235.0 | 11414.4 | 11764.4 | 12026.6 | 12345.1 | 12418.9 | 12521.0 | 12420.7 | 12243.0 | 12007.3 | 11929.9 |
| 5° | 10564.6 | 10948.1 | 11797.9 | 12545.6 | 13210.6 | 13520.2 | 13606.5 | 13351.3 | 12835.9 | 12158.6 | 11745.1 |
| 7.5° | 9489.7 | 10035.0 | 11185.7 | 12287.0 | 13267.0 | 13845.7 | 13831.6 | 13238.7 | 12290.5 | 11187.4 | 10524.1 |
| 10° | 8562.5 | 9185.4 | 10504.8 | 11736.3 | 12776.0 | 13337.3 | 13120.9 | 12362.7 | 11231.4 | 9961.2 | 9241.6 |
| 12.5° | 8043.6 | 8654.1 | 9992.9 | 11229.6 | 12098.7 | 12292.3 | 12126.9 | 11384.4 | 10318.3 | 9034.0 | 8404.2 |
| 15° | 7953.9 | 8624.1 | 9788.8 | 10795.1 | 11282.4 | 11113.5 | 10916.5 | 10584.0 | 9831.0 | 8735.0 | 8078.8 |
| 17.5° | 8342.6 | 9081.6 | 10022.8 | 10492.5 | 10409.9 | 10116.0 | 10059.7 | 10096.6 | 9915.5 | 9067.4 | 8311.0 |
| 20° | 9088.6 | 9975.3 | 10580.5 | 10350.0 | 9746.6 | 9341.9 | 9356.0 | 9920.7 | 10457.3 | 9910.1 | 9046.4 |
| 22.5° | 10135.4 | 11147.0 | 11384.4 | 10425.6 | 9466.8 | 8986.5 | 9102.6 | 10017.5 | 11321.1 | 11141.7 | 10038.6 |
| 25° | 11490.0 | 12411.9 | 12241.2 | 10700.1 | 9494.9 | 9030.5 | 9123.8 | 10351.8 | 12341.5 | 12373.2 | 11266.6 |
| 27.5° | 12802.4 | 13657.5 | 12960.8 | 11064.2 | 9611.0 | 9134.3 | 9257.5 | 10877.8 | 13316.2 | 13710.3 | 12670.5 |
| 30° | 13826.4 | 14421.0 | 13245.8 | 11396.8 | 9839.8 | 9336.7 | 9489.7 | 11377.5 | 13759.5 | 14612.8 | 13750.7 |
| 32.5° | 14674.3 | 15101.8 | 13699.7 | 11808.4 | 10260.3 | 9655.0 | 9924.3 | 11984.4 | 14398.1 | 15471.3 | 14808.0 |
| 35° | 15758.0 | 15879.5 | 14264.4 | 12267.6 | 10909.5 | 10209.3 | 10543.6 | 12579.0 | 15006.9 | 16338.7 | 15849.6 |
| 37.5° | 17028.3 | 16871.7 | 14797.5 | 12895.7 | 11748.6 | 11076.6 | 11352.8 | 13231.8 | 15508.2 | 17322.1 | 16914.0 |
| 40° | 18284.4 | 17908.0 | 15466.1 | 13870.4 | 12973.2 | 12098.7 | 12426.0 | 13928.4 | 15976.2 | 18307.3 | 17953.7 |
| 42.5° | 19352.4 | 18794.7 | 16125.8 | 14941.7 | 14113.1 | 13226.4 | 13617.0 | 14630.3 | 16423.1 | 19148.3 | 18856.3 |
| 45° | 20142.3 | 19449.2 | 16753.9 | 15970.9 | 15684.2 | 14725.4 | 14910.1 | 15434.4 | 16906.9 | 19850.3 | 19598.6 |
| 47.5° | 20847.7 | 20107.1 | 17464.6 | 17008.9 | 17058.2 | 16674.7 | 16377.3 | 16370.3 | 17476.9 | 20423.7 | 20300.7 |
| 50° | 21792.5 | 21020.2 | 18228.2 | 18078.6 | 19120.1 | 18865.1 | 18208.8 | 17462.9 | 18198.3 | 21074.7 | 21060.6 |
| 52.5° | 23094.4 | 22466.4 | 19160.6 | 19231.0 | 21044.8 | 21211.9 | 20399.2 | 18775.3 | 19327.7 | 22269.3 | 22184.8 |
| 55° | 24633.8 | 24267.9 | 20430.8 | 20555.7 | 23405.8 | 23525.4 | 22717.9 | 20416.8 | 20988.5 | 23998.6 | 23764.7 |
| 57.5° | 25835.4 | 25758.0 | 21824.1 | 22146.2 | 25168.6 | 25707.0 | 24964.5 | 22316.8 | 22860.4 | 25455.4 | 24867.7 |
| 60° | 26313.9 | 26688.7 | 23307.3 | 23750.7 | 26799.5 | 27395.9 | 26744.9 | 23986.4 | 24519.4 | 26058.9 | 24792.1 |
| 62.5° | 26055.3 | 26892.8 | 24887.2 | 24850.1 | 27163.6 | 27805.8 | 27348.4 | 24915.3 | 25749.2 | 25436.1 | 23537.8 |
| 65° | 24860.8 | 26159.1 | 25803.7 | 24567.0 | 25918.1 | 25970.9 | 25823.1 | 24500.1 | 26039.5 | 23467.4 | 21113.4 |
| 67.5° | 22258.7 | 24127.1 | 24596.9 | 22139.1 | 22557.8 | 22214.7 | 21966.6 | 22227.1 | 24526.5 | 20517.0 | 17744.3 |
| 70° | 18129.7 | 20941.0 | 21166.2 | 17707.4 | 17517.4 | 17286.9 | 16792.6 | 18222.8 | 21540.9 | 16815.5 | 14079.7 |
| 72.5° | 13330.3 | 16285.9 | 16977.3 | 12987.2 | 12107.5 | 12155.0 | 11764.4 | 13733.1 | 17513.8 | 12491.0 | 10511.8 |
| 75° | 9120.2 | 11792.6 | 13282.7 | 9062.2 | 8006.6 | 8026.0 | 7976.7 | 9730.7 | 13949.6 | 8689.3 | 7865.9 |
| 77.5° | 6662.5 | 8425.3 | 10017.5 | 6092.5 | 5914.8 | 5805.8 | 5779.4 | 6808.6 | 10694.8 | 6308.8 | 6108.3 |
| 80° | 5346.6 | 6224.5 | 6729.4 | 4222.3 | 4540.8 | 4532.0 | 4385.9 | 4681.5 | 6984.4 | 4614.6 | 4568.9 |
| 82.5° | 3708.6 | 4783.5 | 5452.1 | 3309.2 | 3064.7 | 3013.7 | 3048.9 | 3486.9 | 4936.7 | 3154.5 | 2999.6 |
| 85° | 1956.4 | 3177.3 | 5399.3 | 2932.8 | 1819.1 | 1451.5 | 1805.0 | 2855.4 | 4276.9 | 1671.3 | 1463.7 |
| 87.5° | 249.8 | 918.4 | 3574.9 | 1169.9 | 717.8 | 387.1 | 856.8 | 1608.0 | 2746.3 | 341.3 | 297.4 |
| 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-06-LED-U-SLL

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 |
| 2.5° | 11731.0 | 11497.0 | 11191.0 | 10907.7 | 10613.9 | 10321.9 | 9940.1 | 9700.8 | 9535.4 | 9503.7 | 9433.3 |
| 5° | 11446.0 | 10668.5 | 10080.8 | 9572.4 | 9111.4 | 8460.5 | 8099.8 | 7800.7 | 7640.6 | 7624.9 | 7586.1 |
| 7.5° | 10131.8 | 9058.6 | 8265.2 | 7545.7 | 6892.9 | 6366.9 | 5786.3 | 5515.4 | 5404.6 | 5430.9 | 5457.3 |
| 10° | 8764.8 | 7565.0 | 6653.7 | 5918.3 | 5343.0 | 4899.6 | 4433.5 | 4118.5 | 3900.4 | 3856.4 | 3847.6 |
| 12.5° | 7765.5 | 6449.6 | 5564.6 | 5045.7 | 4600.6 | 4183.7 | 3689.3 | 3318.0 | 3034.8 | 2938.0 | 2873.0 |
| 15° | 7343.4 | 5904.3 | 4977.1 | 4417.6 | 3926.8 | 3397.2 | 2938.0 | 2549.2 | 2288.9 | 2204.5 | 2156.9 |
| 17.5° | 7433.1 | 5753.0 | 4572.4 | 3856.4 | 3228.3 | 2675.9 | 2097.0 | 1764.6 | 1608.0 | 1567.6 | 1567.6 |
| 20° | 7904.5 | 5724.7 | 4238.2 | 3339.1 | 2556.3 | 1915.9 | 1440.8 | 1250.9 | 1199.8 | 1194.6 | 1208.6 |
| 22.5° | 8566.1 | 5823.2 | 3988.4 | 2890.6 | 1986.3 | 1398.7 | 1122.5 | 1052.1 | 1029.2 | 1034.5 | 1050.3 |
| 25° | 9551.3 | 6155.8 | 3807.1 | 2491.2 | 1558.8 | 1145.3 | 1001.1 | 958.8 | 948.3 | 962.3 | 981.7 |
| 27.5° | 10719.4 | 6488.3 | 3694.6 | 2190.3 | 1315.9 | 1046.8 | 951.8 | 907.8 | 914.8 | 932.4 | 950.0 |
| 30° | 11745.1 | 6761.0 | 3516.8 | 1975.7 | 1240.3 | 1052.1 | 951.8 | 892.0 | 885.0 | 888.4 | 893.8 |
| 32.5° | 12665.3 | 6945.7 | 3309.2 | 1771.6 | 1069.7 | 934.2 | 888.4 | 879.6 | 841.0 | 826.9 | 828.6 |
| 35° | 13458.7 | 6945.7 | 3184.3 | 1652.0 | 958.8 | 828.6 | 754.7 | 710.7 | 691.4 | 693.2 | 712.5 |
| 37.5° | 14224.0 | 6806.7 | 3122.8 | 1585.2 | 899.0 | 788.2 | 723.1 | 684.4 | 658.0 | 652.7 | 656.2 |
| 40° | 14899.6 | 6604.5 | 3052.4 | 1557.0 | 853.2 | 763.5 | 701.9 | 670.3 | 642.1 | 633.3 | 635.2 |
| 42.5° | 15441.4 | 6440.8 | 2974.9 | 1520.0 | 825.1 | 745.9 | 687.9 | 659.7 | 628.1 | 619.3 | 617.6 |
| 45° | 16027.3 | 6386.3 | 2873.0 | 1446.1 | 839.2 | 747.7 | 684.4 | 654.5 | 622.8 | 612.2 | 608.8 |
| 47.5° | 16799.6 | 6556.9 | 2767.4 | 1358.2 | 869.1 | 756.5 | 689.7 | 654.5 | 621.0 | 612.2 | 608.8 |
| 50° | 17772.5 | 6958.0 | 2633.7 | 1229.8 | 839.2 | 781.1 | 687.9 | 649.2 | 621.0 | 612.2 | 605.2 |
| 52.5° | 19021.6 | 7499.9 | 2457.7 | 1082.0 | 821.6 | 841.0 | 684.4 | 638.6 | 612.2 | 600.0 | 587.6 |
| 55° | 20539.9 | 7943.2 | 2248.3 | 960.6 | 781.1 | 825.1 | 679.1 | 626.4 | 598.1 | 580.5 | 570.0 |
| 57.5° | 21651.8 | 8103.4 | 1979.2 | 881.4 | 724.9 | 798.7 | 672.1 | 610.5 | 580.5 | 566.5 | 552.4 |
| 60° | 21431.8 | 7793.8 | 1752.3 | 832.2 | 691.4 | 721.3 | 666.8 | 596.4 | 564.8 | 554.1 | 541.9 |
| 62.5° | 19670.8 | 6984.4 | 1606.2 | 809.3 | 670.3 | 658.0 | 672.1 | 582.4 | 550.7 | 540.1 | 536.5 |
| 65° | 17030.1 | 5789.9 | 1548.2 | 804.0 | 652.7 | 621.0 | 624.5 | 566.5 | 534.8 | 526.0 | 522.5 |
| 67.5° | 14048.1 | 4672.7 | 1497.2 | 821.6 | 629.8 | 594.6 | 577.0 | 545.3 | 519.0 | 510.2 | 503.2 |
| 70° | 11078.4 | 3886.3 | 1474.3 | 811.0 | 601.7 | 568.2 | 548.9 | 522.5 | 499.6 | 490.8 | 485.6 |
| 72.5° | 8921.5 | 3282.9 | 1462.0 | 800.5 | 564.8 | 533.1 | 515.5 | 492.7 | 468.0 | 464.4 | 459.2 |
| 75° | 7549.2 | 2580.9 | 1338.8 | 767.0 | 522.5 | 490.8 | 478.5 | 457.5 | 432.8 | 432.8 | 429.2 |
| 77.5° | 5823.2 | 1866.6 | 1113.7 | 679.1 | 478.5 | 443.3 | 432.8 | 417.0 | 388.8 | 394.0 | 392.3 |
| 80° | 4301.5 | 1217.4 | 870.8 | 562.9 | 424.0 | 390.6 | 385.2 | 369.5 | 339.5 | 346.6 | 346.6 |
| 82.5° | 2946.8 | 798.7 | 626.4 | 460.9 | 362.4 | 330.7 | 330.7 | 315.0 | 281.5 | 285.0 | 295.5 |
| 85° | 1479.6 | 548.9 | 468.0 | 357.1 | 281.5 | 265.7 | 265.7 | 253.4 | 219.9 | 221.7 | 235.8 |
| 87.5° | 450.4 | 330.7 | 309.6 | 255.1 | 202.3 | 198.8 | 190.0 | 181.2 | 160.1 | 158.4 | 167.2 |
| 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-06-LED-U-SLL

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 | 10812.7 |
| 2.5° | 9326.0 | 9225.8 | 9104.4 | 8837.0 | 8747.3 | 8742.0 | 8823.0 | 8738.5 | 8900.3 | 8831.7 | 8907.3 |
| 5° | 7521.0 | 7422.5 | 7287.0 | 6945.7 | 6738.2 | 6597.4 | 6530.5 | 6333.5 | 6476.0 | 6372.2 | 6458.4 |
| 7.5° | 5531.3 | 5554.1 | 5464.4 | 5263.8 | 4811.7 | 4584.8 | 4451.1 | 4331.4 | 4435.2 | 4424.7 | 4590.0 |
| 10° | 3888.0 | 3949.6 | 3886.3 | 3684.0 | 3318.0 | 3193.1 | 3217.8 | 3265.3 | 3400.7 | 3471.1 | 3726.2 |
| 12.5° | 2799.1 | 2795.5 | 2755.1 | 2573.8 | 2332.8 | 2347.0 | 2447.2 | 2529.9 | 2654.8 | 2728.7 | 2989.1 |
| 15° | 2090.1 | 2058.4 | 2040.8 | 1893.0 | 1755.8 | 1785.7 | 1835.0 | 1843.8 | 1922.9 | 1966.9 | 2178.1 |
| 17.5° | 1579.8 | 1595.7 | 1615.0 | 1509.5 | 1405.6 | 1386.3 | 1347.6 | 1300.2 | 1323.0 | 1331.8 | 1437.3 |
| 20° | 1254.3 | 1317.8 | 1365.2 | 1291.4 | 1185.8 | 1129.4 | 1080.2 | 1048.5 | 1048.5 | 1046.8 | 1076.7 |
| 22.5° | 1096.1 | 1141.8 | 1192.8 | 1141.8 | 1046.8 | 997.5 | 969.3 | 944.8 | 941.2 | 941.2 | 969.3 |
| 25° | 1009.9 | 1043.3 | 1092.5 | 1057.3 | 986.9 | 950.0 | 923.6 | 892.0 | 879.6 | 876.2 | 895.5 |
| 27.5° | 967.6 | 981.7 | 1006.3 | 974.7 | 914.8 | 897.2 | 890.2 | 862.0 | 846.2 | 837.4 | 856.8 |
| 30° | 895.5 | 892.0 | 893.8 | 862.0 | 814.6 | 812.8 | 825.1 | 830.4 | 825.1 | 823.4 | 853.2 |
| 32.5° | 828.6 | 821.6 | 819.8 | 791.7 | 747.7 | 737.1 | 747.7 | 758.2 | 770.6 | 788.2 | 823.4 |
| 35° | 744.2 | 761.8 | 772.3 | 747.7 | 694.9 | 663.3 | 650.9 | 631.6 | 621.0 | 621.0 | 661.5 |
| 37.5° | 677.3 | 717.8 | 733.7 | 710.7 | 652.7 | 608.8 | 587.6 | 584.1 | 585.8 | 592.9 | 631.6 |
| 40° | 654.5 | 684.4 | 698.5 | 675.6 | 617.6 | 577.0 | 564.8 | 561.2 | 564.8 | 575.3 | 614.0 |
| 42.5° | 640.4 | 661.5 | 659.7 | 631.6 | 584.1 | 556.0 | 548.9 | 545.3 | 548.9 | 559.5 | 601.7 |
| 45° | 628.1 | 642.1 | 628.1 | 594.6 | 550.7 | 536.5 | 538.4 | 536.5 | 540.1 | 550.7 | 591.2 |
| 47.5° | 617.6 | 622.8 | 605.2 | 571.7 | 526.0 | 522.5 | 529.6 | 534.8 | 538.4 | 547.2 | 589.3 |
| 50° | 601.7 | 601.7 | 585.8 | 550.7 | 504.9 | 506.7 | 515.5 | 527.8 | 529.6 | 540.1 | 573.6 |
| 52.5° | 582.4 | 580.5 | 570.0 | 536.5 | 487.3 | 492.7 | 492.7 | 506.7 | 510.2 | 522.5 | 557.7 |
| 55° | 566.5 | 562.9 | 557.7 | 526.0 | 471.5 | 480.3 | 475.1 | 480.3 | 489.1 | 501.5 | 540.1 |
| 57.5° | 552.4 | 545.3 | 545.3 | 517.2 | 459.2 | 462.7 | 450.4 | 457.5 | 468.0 | 478.5 | 519.0 |
| 60° | 538.4 | 531.3 | 534.8 | 504.9 | 439.9 | 436.3 | 431.1 | 445.1 | 448.7 | 460.9 | 501.5 |
| 62.5° | 522.5 | 517.2 | 519.0 | 490.8 | 425.8 | 417.0 | 417.0 | 429.2 | 431.1 | 448.7 | 487.3 |
| 65° | 510.2 | 503.2 | 501.5 | 476.8 | 409.9 | 399.4 | 404.7 | 409.9 | 413.5 | 431.1 | 468.0 |
| 67.5° | 497.9 | 483.9 | 483.9 | 464.4 | 392.3 | 381.8 | 392.3 | 390.6 | 395.9 | 411.6 | 441.6 |
| 70° | 482.0 | 462.7 | 464.4 | 455.6 | 374.7 | 362.4 | 371.2 | 369.5 | 373.0 | 383.5 | 413.5 |
| 72.5° | 457.5 | 441.6 | 445.1 | 441.6 | 357.1 | 339.5 | 343.1 | 343.1 | 343.1 | 351.9 | 383.5 |
| 75° | 425.8 | 413.5 | 424.0 | 432.8 | 336.0 | 311.4 | 315.0 | 315.0 | 309.6 | 315.0 | 353.6 |
| 77.5° | 387.1 | 380.0 | 415.2 | 402.8 | 311.4 | 281.5 | 281.5 | 277.9 | 267.4 | 274.5 | 316.7 |
| 80° | 344.8 | 339.5 | 383.5 | 337.8 | 283.3 | 244.6 | 241.0 | 232.2 | 221.7 | 227.0 | 269.1 |
| 82.5° | 300.8 | 295.5 | 321.9 | 258.6 | 244.6 | 202.3 | 193.5 | 177.7 | 167.2 | 172.4 | 211.1 |
| 85° | 246.3 | 246.3 | 248.1 | 195.3 | 186.5 | 154.8 | 144.2 | 123.2 | 110.8 | 114.4 | 151.3 |
| 87.5° | 175.9 | 181.2 | 167.2 | 133.7 | 110.8 | 86.2 | 79.2 | 66.9 | 56.3 | 65.1 | 79.2 |
| 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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| 75° | 364.2 | 385.2 | 434.5 | 800.5 | 1571.0 | 2936.3 | 8170.2 | 9120.2 |
| 77.5° | 323.7 | 339.5 | 381.8 | 617.6 | 1166.4 | 1879.0 | 6132.9 | 6662.5 |
| 80° | 276.2 | 285.0 | 320.2 | 452.1 | 798.7 | 1175.2 | 4852.2 | 5346.6 |
| 82.5° | 221.7 | 225.2 | 248.1 | 339.5 | 519.0 | 754.7 | 3249.4 | 3708.6 |
| 85° | 156.6 | 156.6 | 170.6 | 246.3 | 353.6 | 478.5 | 1764.6 | 1956.4 |
| 87.5° | 73.9 | 75.7 | 75.7 | 135.4 | 184.7 | 242.7 | 406.4 | 249.8 |
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