

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: P193042

Luminaire Tested: **GAN-AF-04-LED-U-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193042
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 22388.3 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

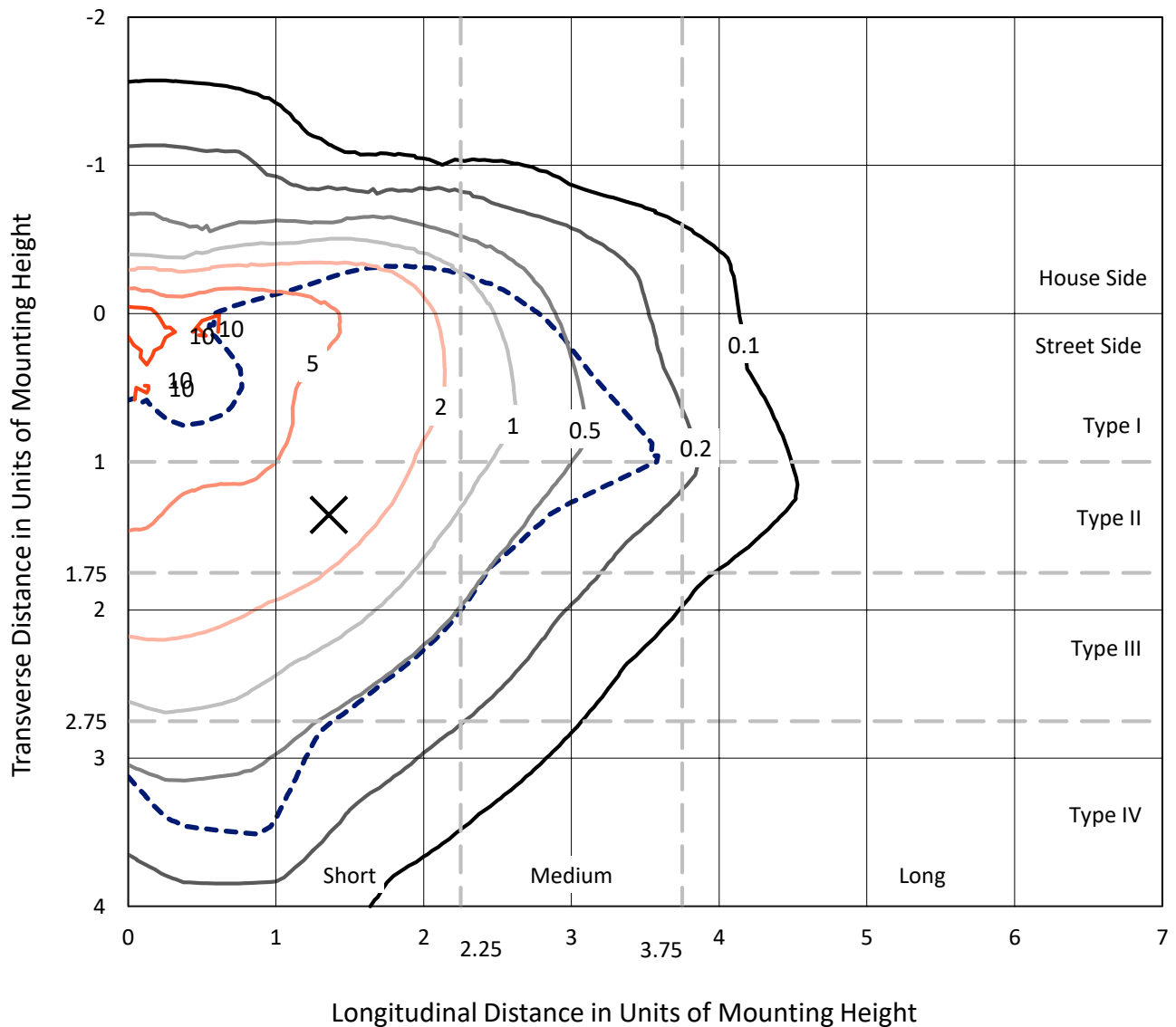


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

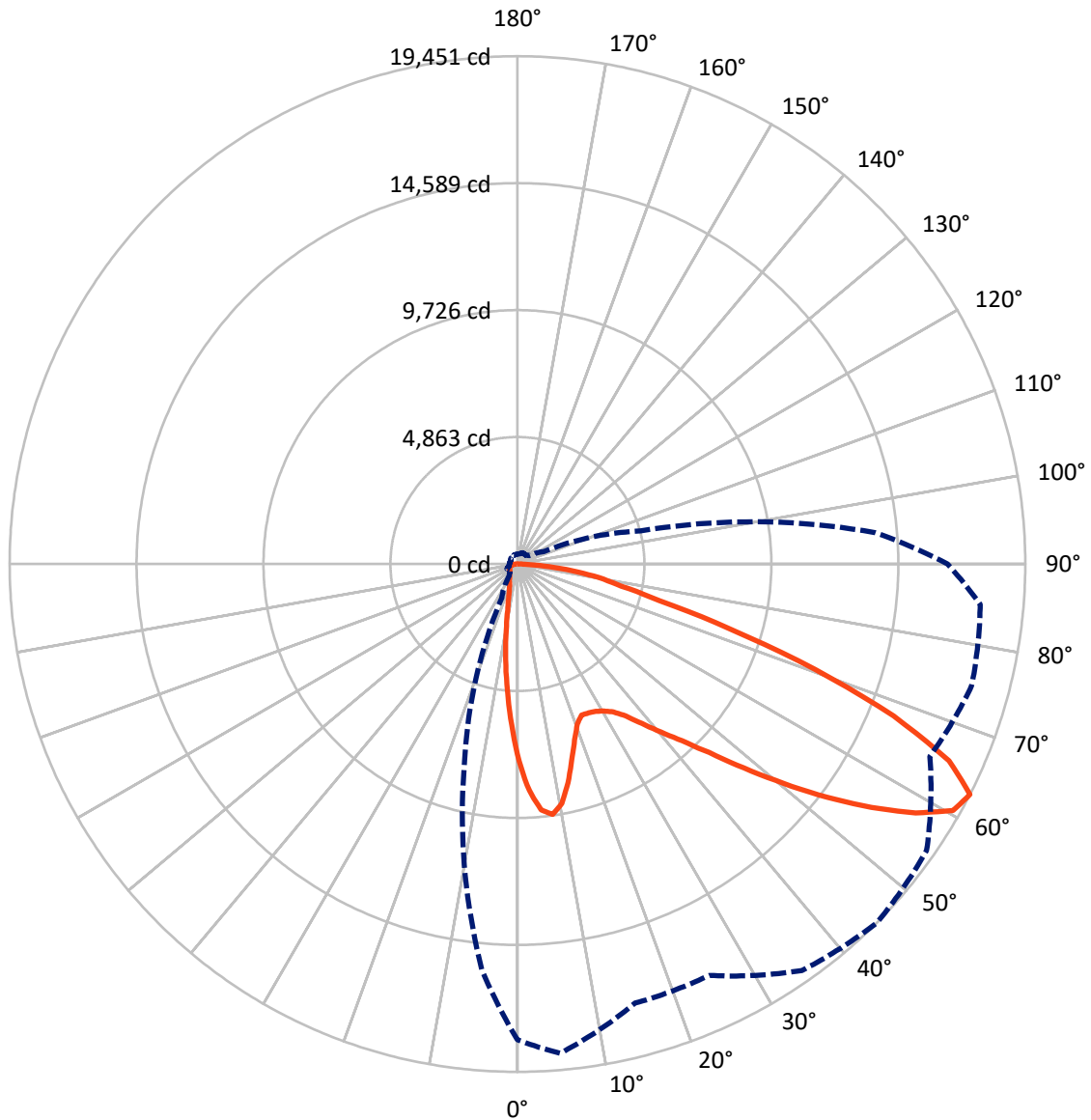


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - Non-Cutoff

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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 | 3704.9 | 0.0 | 3704.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 18683.4 | 0.0 | 18683.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 22388.3 | 0.0 | 22388.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 550.6 | 2.5 |
| 10°-20° | 1009.7 | 4.5 |
| 20°-30° | 1472.1 | 6.6 |
| 30°-40° | 2267.3 | 10.1 |
| 40°-50° | 3336.9 | 14.9 |
| 50°-60° | 4894.5 | 21.9 |
| 60°-70° | 5471.3 | 24.4 |
| 70°-80° | 2678.7 | 12.0 |
| 80°-90° | 707.2 | 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° | 22388.3 | 100.0 |
| 0°-180° | 22388.3 | 100.0 |



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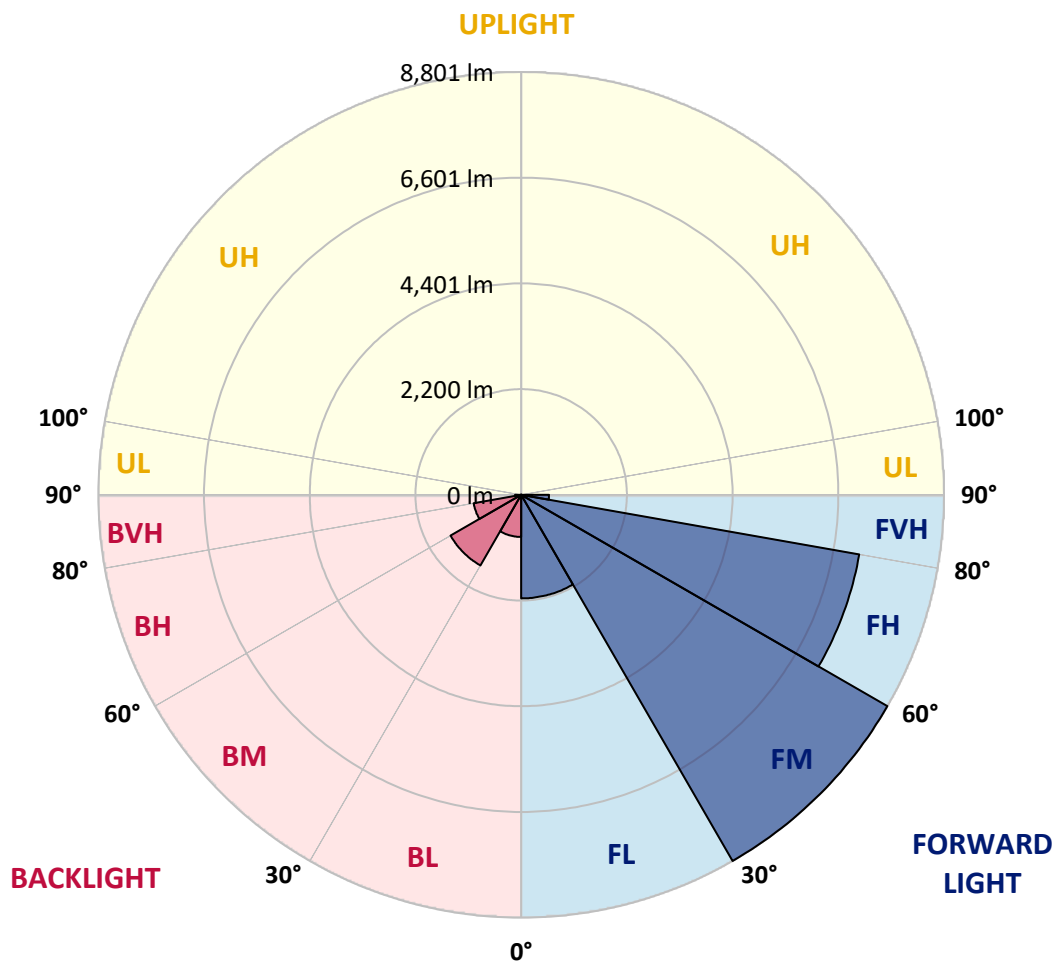
CATALOG NUMBER: GAN-AF-04-LED-U-SLL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2155.9 | 9.6 | | | |
| FM (30°-60°) | 8801.0 | 39.3 | | | |
| FH (60°-80°) | 7145.6 | 31.9 | | | G3/7500 |
| FVH (80°-90°) | 580.8 | 2.6 | | | G4/750 |
| BL (0°-30°) | 876.5 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1697.6 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1004.4 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 126.4 | 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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 |
| 2.5° | 7859.3 | 7984.8 | 8229.9 | 8413.2 | 8636.0 | 8687.6 | 8759.0 | 8688.9 | 8564.5 | 8399.7 | 8345.4 |
| 5° | 7390.4 | 7658.7 | 8253.2 | 8776.2 | 9241.4 | 9458.0 | 9518.3 | 9339.9 | 8979.3 | 8505.5 | 8216.3 |
| 7.5° | 6638.5 | 7020.0 | 7824.9 | 8595.3 | 9280.8 | 9685.8 | 9675.9 | 9261.2 | 8597.8 | 7826.1 | 7362.1 |
| 10° | 5989.9 | 6425.5 | 7348.6 | 8210.1 | 8937.4 | 9330.0 | 9178.7 | 8648.2 | 7857.0 | 6968.3 | 6465.0 |
| 12.5° | 5626.9 | 6053.8 | 6990.5 | 7855.6 | 8463.7 | 8599.0 | 8483.3 | 7963.9 | 7218.1 | 6319.8 | 5879.1 |
| 15° | 5564.0 | 6033.0 | 6847.8 | 7551.7 | 7892.6 | 7774.5 | 7636.5 | 7404.0 | 6877.3 | 6110.6 | 5651.4 |
| 17.5° | 5836.1 | 6353.0 | 7011.3 | 7340.0 | 7282.1 | 7076.6 | 7037.3 | 7063.1 | 6936.4 | 6343.1 | 5813.9 |
| 20° | 6357.9 | 6978.2 | 7401.6 | 7240.3 | 6818.3 | 6535.2 | 6544.9 | 6940.0 | 7315.4 | 6932.6 | 6328.3 |
| 22.5° | 7090.2 | 7797.9 | 7963.9 | 7293.3 | 6622.5 | 6286.4 | 6367.7 | 7007.7 | 7919.6 | 7794.1 | 7022.4 |
| 25° | 8037.7 | 8682.8 | 8563.3 | 7485.3 | 6642.2 | 6317.3 | 6382.5 | 7241.4 | 8633.4 | 8655.6 | 7881.5 |
| 27.5° | 8955.9 | 9554.0 | 9066.7 | 7739.9 | 6723.4 | 6389.9 | 6476.1 | 7609.5 | 9315.3 | 9591.0 | 8863.6 |
| 30° | 9672.1 | 10088.1 | 9266.1 | 7972.5 | 6883.5 | 6531.4 | 6638.5 | 7959.0 | 9625.4 | 10222.3 | 9619.3 |
| 32.5° | 10265.5 | 10564.5 | 9583.5 | 8260.5 | 7177.6 | 6754.2 | 6942.5 | 8383.7 | 10072.2 | 10822.9 | 10359.0 |
| 35° | 11023.5 | 11108.4 | 9978.6 | 8581.8 | 7631.6 | 7141.8 | 7375.6 | 8799.6 | 10497.9 | 11429.6 | 11087.5 |
| 37.5° | 11912.1 | 11802.5 | 10351.6 | 9021.1 | 8218.7 | 7748.5 | 7941.8 | 9256.2 | 10848.8 | 12117.6 | 11832.1 |
| 40° | 12790.9 | 12527.4 | 10819.2 | 9703.0 | 9075.3 | 8463.7 | 8692.5 | 9743.5 | 11176.1 | 12806.9 | 12559.5 |
| 42.5° | 13537.9 | 13147.7 | 11280.7 | 10452.5 | 9872.7 | 9252.5 | 9525.8 | 10234.7 | 11488.7 | 13395.0 | 13190.8 |
| 45° | 14090.5 | 13605.5 | 11720.1 | 11172.5 | 10971.9 | 10301.1 | 10430.3 | 10797.1 | 11827.2 | 13886.2 | 13710.2 |
| 47.5° | 14584.0 | 14065.8 | 12217.3 | 11898.6 | 11933.0 | 11664.7 | 11456.7 | 11451.8 | 12225.9 | 14287.4 | 14201.2 |
| 50° | 15244.8 | 14704.5 | 12751.4 | 12646.9 | 13375.4 | 13197.0 | 12737.9 | 12216.1 | 12730.6 | 14742.8 | 14732.8 |
| 52.5° | 16155.6 | 15716.3 | 13403.7 | 13453.0 | 14721.8 | 14838.7 | 14270.2 | 13134.2 | 13520.7 | 15578.4 | 15519.3 |
| 55° | 17232.5 | 16976.4 | 14292.3 | 14379.7 | 16373.5 | 16457.1 | 15892.2 | 14282.5 | 14682.5 | 16788.2 | 16624.6 |
| 57.5° | 18073.0 | 18018.9 | 15267.1 | 15492.2 | 17606.6 | 17983.2 | 17463.9 | 15611.6 | 15992.0 | 17807.2 | 17396.1 |
| 60° | 18407.8 | 18670.0 | 16304.5 | 16614.6 | 18747.5 | 19164.7 | 18709.3 | 16779.6 | 17152.5 | 18229.4 | 17343.3 |
| 62.5° | 18226.8 | 18812.7 | 17409.7 | 17383.9 | 19002.3 | 19451.4 | 19131.6 | 17429.4 | 18012.8 | 17793.6 | 16465.7 |
| 65° | 17391.3 | 18299.5 | 18050.9 | 17185.7 | 18130.9 | 18167.8 | 18064.5 | 17139.0 | 18215.8 | 16416.5 | 14769.7 |
| 67.5° | 15571.0 | 16878.1 | 17206.5 | 15487.3 | 15780.2 | 15540.3 | 15366.8 | 15548.9 | 17157.4 | 14352.7 | 12413.0 |
| 70° | 12682.5 | 14649.3 | 14806.7 | 12387.2 | 12254.2 | 12093.1 | 11747.2 | 12747.8 | 15068.9 | 11763.2 | 9849.4 |
| 72.5° | 9325.2 | 11392.7 | 11876.4 | 9085.1 | 8469.8 | 8503.0 | 8229.9 | 9606.9 | 12251.8 | 8738.1 | 7353.4 |
| 75° | 6379.9 | 8249.5 | 9292.0 | 6339.4 | 5600.9 | 5614.5 | 5580.1 | 6807.1 | 9758.4 | 6078.5 | 5502.6 |
| 77.5° | 4660.7 | 5893.9 | 7007.7 | 4261.9 | 4137.6 | 4061.3 | 4042.9 | 4762.8 | 7481.5 | 4413.3 | 4273.0 |
| 80° | 3740.2 | 4354.3 | 4707.4 | 2953.8 | 3176.5 | 3170.3 | 3068.2 | 3274.9 | 4886.0 | 3228.2 | 3196.2 |
| 82.5° | 2594.4 | 3346.3 | 3814.0 | 2314.9 | 2143.8 | 2108.2 | 2132.8 | 2439.3 | 3453.3 | 2206.7 | 2098.4 |
| 85° | 1368.6 | 2222.7 | 3777.1 | 2051.6 | 1272.6 | 1015.3 | 1262.7 | 1997.5 | 2991.8 | 1169.2 | 1024.0 |
| 87.5° | 174.9 | 642.5 | 2500.8 | 818.5 | 502.1 | 270.8 | 599.4 | 1124.9 | 1921.1 | 238.7 | 208.0 |
| 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-7030-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 |
| 2.5° | 8206.5 | 8042.7 | 7828.5 | 7630.4 | 7424.9 | 7220.6 | 6953.6 | 6786.2 | 6670.5 | 6648.3 | 6599.2 |
| 5° | 8007.1 | 7463.1 | 7052.0 | 6696.3 | 6373.8 | 5918.5 | 5666.1 | 5457.0 | 5345.0 | 5333.9 | 5306.8 |
| 7.5° | 7087.6 | 6336.9 | 5781.9 | 5278.6 | 4821.9 | 4454.0 | 4047.8 | 3858.3 | 3780.8 | 3799.3 | 3817.6 |
| 10° | 6131.4 | 5292.1 | 4654.6 | 4140.2 | 3737.6 | 3427.6 | 3101.5 | 2881.0 | 2728.5 | 2697.7 | 2691.6 |
| 12.5° | 5432.4 | 4511.8 | 3892.8 | 3529.7 | 3218.3 | 2926.6 | 2580.8 | 2321.1 | 2123.0 | 2055.2 | 2009.8 |
| 15° | 5137.1 | 4130.3 | 3481.6 | 3090.3 | 2747.0 | 2376.5 | 2055.2 | 1783.3 | 1601.2 | 1542.0 | 1508.9 |
| 17.5° | 5199.7 | 4024.4 | 3198.7 | 2697.7 | 2258.4 | 1871.9 | 1467.1 | 1234.4 | 1124.9 | 1096.5 | 1096.5 |
| 20° | 5529.6 | 4004.8 | 2964.8 | 2335.9 | 1788.2 | 1340.3 | 1007.9 | 875.0 | 839.3 | 835.7 | 845.4 |
| 22.5° | 5992.4 | 4073.6 | 2790.1 | 2022.1 | 1389.4 | 978.4 | 785.2 | 736.0 | 720.0 | 723.7 | 734.8 |
| 25° | 6681.5 | 4306.2 | 2663.3 | 1742.6 | 1090.4 | 801.2 | 700.3 | 670.8 | 663.3 | 673.2 | 686.7 |
| 27.5° | 7498.8 | 4538.8 | 2584.5 | 1532.3 | 920.6 | 732.2 | 665.8 | 635.1 | 639.9 | 652.3 | 664.7 |
| 30° | 8216.3 | 4729.7 | 2460.2 | 1382.1 | 867.6 | 736.0 | 665.8 | 624.0 | 619.1 | 621.4 | 625.2 |
| 32.5° | 8860.0 | 4858.9 | 2314.9 | 1239.3 | 748.3 | 653.5 | 621.4 | 615.3 | 588.3 | 578.4 | 579.6 |
| 35° | 9415.0 | 4858.9 | 2227.6 | 1155.6 | 670.8 | 579.6 | 527.9 | 497.2 | 483.7 | 484.9 | 498.4 |
| 37.5° | 9950.4 | 4761.6 | 2184.5 | 1108.9 | 628.9 | 551.3 | 505.9 | 478.8 | 460.3 | 456.6 | 459.1 |
| 40° | 10422.9 | 4620.1 | 2135.3 | 1089.2 | 596.9 | 534.2 | 491.0 | 468.9 | 449.2 | 443.0 | 444.2 |
| 42.5° | 10802.0 | 4505.7 | 2081.2 | 1063.3 | 577.2 | 521.8 | 481.2 | 461.5 | 439.3 | 433.2 | 432.0 |
| 45° | 11211.8 | 4467.5 | 2009.8 | 1011.6 | 587.0 | 523.1 | 478.8 | 457.8 | 435.7 | 428.3 | 425.8 |
| 47.5° | 11752.2 | 4586.9 | 1936.0 | 950.1 | 608.0 | 529.3 | 482.5 | 457.8 | 434.5 | 428.3 | 425.8 |
| 50° | 12432.7 | 4867.5 | 1842.3 | 860.3 | 587.0 | 546.4 | 481.2 | 454.1 | 434.5 | 428.3 | 423.4 |
| 52.5° | 13306.4 | 5246.5 | 1719.3 | 756.8 | 574.7 | 588.3 | 478.8 | 446.8 | 428.3 | 419.7 | 411.1 |
| 55° | 14368.5 | 5556.7 | 1572.9 | 672.0 | 546.4 | 577.2 | 475.1 | 438.1 | 418.5 | 406.1 | 398.8 |
| 57.5° | 15146.4 | 5668.7 | 1384.6 | 616.6 | 507.1 | 558.8 | 470.2 | 427.1 | 406.1 | 396.3 | 386.4 |
| 60° | 14992.5 | 5452.0 | 1225.8 | 582.2 | 483.7 | 504.6 | 466.4 | 417.3 | 395.1 | 387.7 | 379.0 |
| 62.5° | 13760.6 | 4886.0 | 1123.6 | 566.2 | 468.9 | 460.3 | 470.2 | 407.3 | 385.2 | 377.8 | 375.5 |
| 65° | 11913.3 | 4050.2 | 1083.0 | 562.4 | 456.6 | 434.5 | 436.9 | 396.3 | 374.1 | 367.9 | 365.5 |
| 67.5° | 9827.3 | 3268.8 | 1047.4 | 574.7 | 440.7 | 415.9 | 403.7 | 381.6 | 363.1 | 356.9 | 352.1 |
| 70° | 7749.9 | 2718.7 | 1031.3 | 567.4 | 420.8 | 397.4 | 383.9 | 365.5 | 349.5 | 343.4 | 339.7 |
| 72.5° | 6241.0 | 2296.5 | 1022.7 | 560.0 | 395.1 | 372.9 | 360.5 | 344.6 | 327.3 | 324.9 | 321.2 |
| 75° | 5281.0 | 1805.5 | 936.6 | 536.6 | 365.5 | 343.4 | 334.8 | 320.0 | 302.7 | 302.7 | 300.3 |
| 77.5° | 4073.6 | 1305.7 | 779.0 | 475.1 | 334.8 | 310.2 | 302.7 | 291.7 | 271.9 | 275.7 | 274.5 |
| 80° | 3009.1 | 851.6 | 609.2 | 393.9 | 296.6 | 273.2 | 269.6 | 258.4 | 237.5 | 242.4 | 242.4 |
| 82.5° | 2061.4 | 558.8 | 438.1 | 322.5 | 253.5 | 231.4 | 231.4 | 220.2 | 196.8 | 199.4 | 206.7 |
| 85° | 1035.0 | 383.9 | 327.3 | 249.8 | 196.8 | 185.8 | 185.8 | 177.2 | 153.8 | 155.0 | 164.9 |
| 87.5° | 315.1 | 231.4 | 216.6 | 178.4 | 141.5 | 139.1 | 133.0 | 126.7 | 112.0 | 110.8 | 116.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 | 7564.0 |
| 2.5° | 6524.0 | 6453.8 | 6368.9 | 6181.9 | 6119.1 | 6115.5 | 6172.0 | 6112.9 | 6226.1 | 6178.2 | 6231.2 |
| 5° | 5261.3 | 5192.4 | 5097.6 | 4858.9 | 4713.7 | 4615.2 | 4568.4 | 4430.6 | 4530.2 | 4457.7 | 4518.0 |
| 7.5° | 3869.4 | 3885.4 | 3822.7 | 3682.2 | 3366.1 | 3207.2 | 3113.7 | 3030.0 | 3102.6 | 3095.2 | 3210.9 |
| 10° | 2719.9 | 2762.9 | 2718.7 | 2577.1 | 2321.1 | 2233.7 | 2251.0 | 2284.2 | 2379.0 | 2428.2 | 2606.7 |
| 12.5° | 1958.0 | 1955.6 | 1927.4 | 1800.5 | 1631.9 | 1641.7 | 1711.9 | 1769.8 | 1857.2 | 1908.9 | 2091.0 |
| 15° | 1462.1 | 1439.9 | 1427.6 | 1324.2 | 1228.3 | 1249.2 | 1283.7 | 1289.8 | 1345.2 | 1375.9 | 1523.6 |
| 17.5° | 1105.1 | 1116.3 | 1129.8 | 1056.0 | 983.4 | 969.7 | 942.7 | 909.5 | 925.5 | 931.7 | 1005.5 |
| 20° | 877.5 | 921.8 | 955.0 | 903.3 | 829.5 | 790.2 | 755.6 | 733.4 | 733.4 | 732.2 | 753.3 |
| 22.5° | 766.8 | 798.6 | 834.4 | 798.6 | 732.2 | 697.8 | 678.2 | 660.9 | 658.4 | 658.4 | 678.2 |
| 25° | 706.5 | 729.9 | 764.3 | 739.6 | 690.4 | 664.7 | 646.2 | 624.0 | 615.3 | 613.0 | 626.4 |
| 27.5° | 676.9 | 686.7 | 703.9 | 681.8 | 639.9 | 627.7 | 622.8 | 603.0 | 591.9 | 585.8 | 599.4 |
| 30° | 626.4 | 624.0 | 625.2 | 603.0 | 569.8 | 568.5 | 577.2 | 580.9 | 577.2 | 576.1 | 596.9 |
| 32.5° | 579.6 | 574.7 | 573.5 | 553.8 | 523.1 | 515.7 | 523.1 | 530.5 | 539.0 | 551.3 | 576.1 |
| 35° | 520.6 | 532.8 | 540.3 | 523.1 | 486.1 | 464.1 | 455.4 | 441.9 | 434.5 | 434.5 | 462.7 |
| 37.5° | 473.8 | 502.1 | 513.2 | 497.2 | 456.6 | 425.8 | 411.1 | 408.6 | 409.8 | 414.7 | 441.9 |
| 40° | 457.8 | 478.8 | 488.6 | 472.5 | 432.0 | 403.7 | 395.1 | 392.6 | 395.1 | 402.4 | 429.5 |
| 42.5° | 448.0 | 462.7 | 461.5 | 441.9 | 408.6 | 388.9 | 383.9 | 381.6 | 383.9 | 391.3 | 420.8 |
| 45° | 439.3 | 449.2 | 439.3 | 415.9 | 385.2 | 375.5 | 376.6 | 375.5 | 377.8 | 385.2 | 413.5 |
| 47.5° | 432.0 | 435.7 | 423.4 | 400.0 | 367.9 | 365.5 | 370.5 | 374.1 | 376.6 | 382.7 | 412.2 |
| 50° | 420.8 | 420.8 | 409.8 | 385.2 | 353.2 | 354.4 | 360.5 | 369.2 | 370.5 | 377.8 | 401.2 |
| 52.5° | 407.3 | 406.1 | 398.8 | 375.5 | 340.9 | 344.6 | 344.6 | 354.4 | 356.9 | 365.5 | 390.2 |
| 55° | 396.3 | 393.9 | 390.2 | 367.9 | 329.9 | 336.0 | 332.2 | 336.0 | 342.1 | 350.7 | 377.8 |
| 57.5° | 386.4 | 381.6 | 381.6 | 361.8 | 321.2 | 323.6 | 315.1 | 320.0 | 327.3 | 334.8 | 363.1 |
| 60° | 376.6 | 371.7 | 374.1 | 353.2 | 307.7 | 305.3 | 301.5 | 311.4 | 313.8 | 322.5 | 350.7 |
| 62.5° | 365.5 | 361.8 | 363.1 | 343.4 | 297.8 | 291.7 | 291.7 | 300.3 | 301.5 | 313.8 | 340.9 |
| 65° | 356.9 | 352.1 | 350.7 | 333.6 | 286.8 | 279.3 | 283.1 | 286.8 | 289.2 | 301.5 | 327.3 |
| 67.5° | 348.3 | 338.4 | 338.4 | 324.9 | 274.5 | 267.0 | 274.5 | 273.2 | 276.9 | 288.0 | 308.8 |
| 70° | 337.2 | 323.6 | 324.9 | 318.7 | 262.1 | 253.5 | 259.7 | 258.4 | 260.9 | 268.3 | 289.2 |
| 72.5° | 320.0 | 308.8 | 311.4 | 308.8 | 249.8 | 237.5 | 240.1 | 240.1 | 240.1 | 246.2 | 268.3 |
| 75° | 297.8 | 289.2 | 296.6 | 302.7 | 235.0 | 217.9 | 220.2 | 220.2 | 216.6 | 220.2 | 247.4 |
| 77.5° | 270.8 | 265.8 | 290.4 | 281.8 | 217.9 | 196.8 | 196.8 | 194.5 | 187.1 | 192.0 | 221.6 |
| 80° | 241.3 | 237.5 | 268.3 | 236.3 | 198.2 | 171.1 | 168.6 | 162.5 | 155.0 | 158.8 | 188.3 |
| 82.5° | 210.5 | 206.7 | 225.2 | 181.0 | 171.1 | 141.5 | 135.4 | 124.3 | 116.9 | 120.6 | 147.7 |
| 85° | 172.3 | 172.3 | 173.5 | 136.6 | 130.4 | 108.2 | 100.9 | 86.1 | 77.6 | 80.0 | 105.9 |
| 87.5° | 123.0 | 126.7 | 116.9 | 93.5 | 77.6 | 60.3 | 55.4 | 46.8 | 39.4 | 45.6 | 55.4 |
| 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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| 22.5° | 720.0 | 827.1 | 1137.2 | 1774.7 | 2584.5 | 4051.6 | 6141.3 | 7090.2 |
| 25° | 665.8 | 729.9 | 908.3 | 1482.9 | 2445.4 | 4295.2 | 6919.1 | 8037.7 |
| 27.5° | 633.8 | 691.6 | 824.6 | 1292.2 | 2335.9 | 4578.3 | 7676.0 | 8955.9 |
| 30° | 646.2 | 705.2 | 801.2 | 1195.1 | 2187.0 | 4814.5 | 8348.0 | 9672.1 |
| 32.5° | 582.2 | 608.0 | 686.7 | 1108.9 | 2079.9 | 5012.7 | 8936.2 | 10265.5 |
| 35° | 495.9 | 541.5 | 613.0 | 1068.2 | 2082.4 | 5145.7 | 9577.4 | 11023.5 |
| 37.5° | 472.5 | 518.1 | 569.8 | 1053.5 | 2110.7 | 5287.2 | 10313.4 | 11912.1 |
| 40° | 457.8 | 499.7 | 544.0 | 1044.8 | 2137.7 | 5416.4 | 11034.6 | 12790.9 |
| 42.5° | 448.0 | 486.1 | 541.5 | 1015.3 | 2151.4 | 5532.1 | 11627.8 | 13537.9 |
| 45° | 446.8 | 486.1 | 551.3 | 985.8 | 2172.2 | 5656.4 | 12125.0 | 14090.5 |
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| 55° | 434.5 | 507.1 | 448.0 | 706.5 | 1932.2 | 7565.2 | 15631.2 | 17232.5 |
| 57.5° | 428.3 | 449.2 | 433.2 | 605.6 | 1774.7 | 8045.2 | 16387.0 | 18073.0 |
| 60° | 479.9 | 392.6 | 420.8 | 556.2 | 1564.3 | 8176.9 | 16357.4 | 18407.8 |
| 62.5° | 444.2 | 367.9 | 405.0 | 545.2 | 1416.5 | 7807.6 | 15601.7 | 18226.8 |
| 65° | 348.3 | 352.1 | 388.9 | 577.2 | 1377.2 | 6829.2 | 14262.8 | 17391.3 |
| 67.5° | 318.7 | 336.0 | 372.9 | 617.9 | 1380.8 | 5468.1 | 12261.6 | 15571.0 |
| 70° | 300.3 | 318.7 | 354.4 | 638.7 | 1390.8 | 4076.1 | 9694.3 | 12682.5 |
| 72.5° | 279.3 | 295.3 | 333.6 | 642.5 | 1326.7 | 2961.2 | 7471.7 | 9325.2 |
| 75° | 254.8 | 269.6 | 304.0 | 560.0 | 1099.0 | 2054.1 | 5715.5 | 6379.9 |
| 77.5° | 226.5 | 237.5 | 267.0 | 432.0 | 815.9 | 1314.4 | 4290.3 | 4660.7 |
| 80° | 193.2 | 199.4 | 224.0 | 316.3 | 558.8 | 822.0 | 3394.3 | 3740.2 |
| 82.5° | 155.0 | 157.6 | 173.5 | 237.5 | 363.1 | 527.9 | 2273.1 | 2594.4 |
| 85° | 109.6 | 109.6 | 119.4 | 172.3 | 247.4 | 334.8 | 1234.4 | 1368.6 |
| 87.5° | 51.7 | 52.9 | 52.9 | 94.7 | 129.3 | 169.8 | 284.3 | 174.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)