

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: P191085

Luminaire Tested: **GAN-AF-07-LED-U-SL2-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34088.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

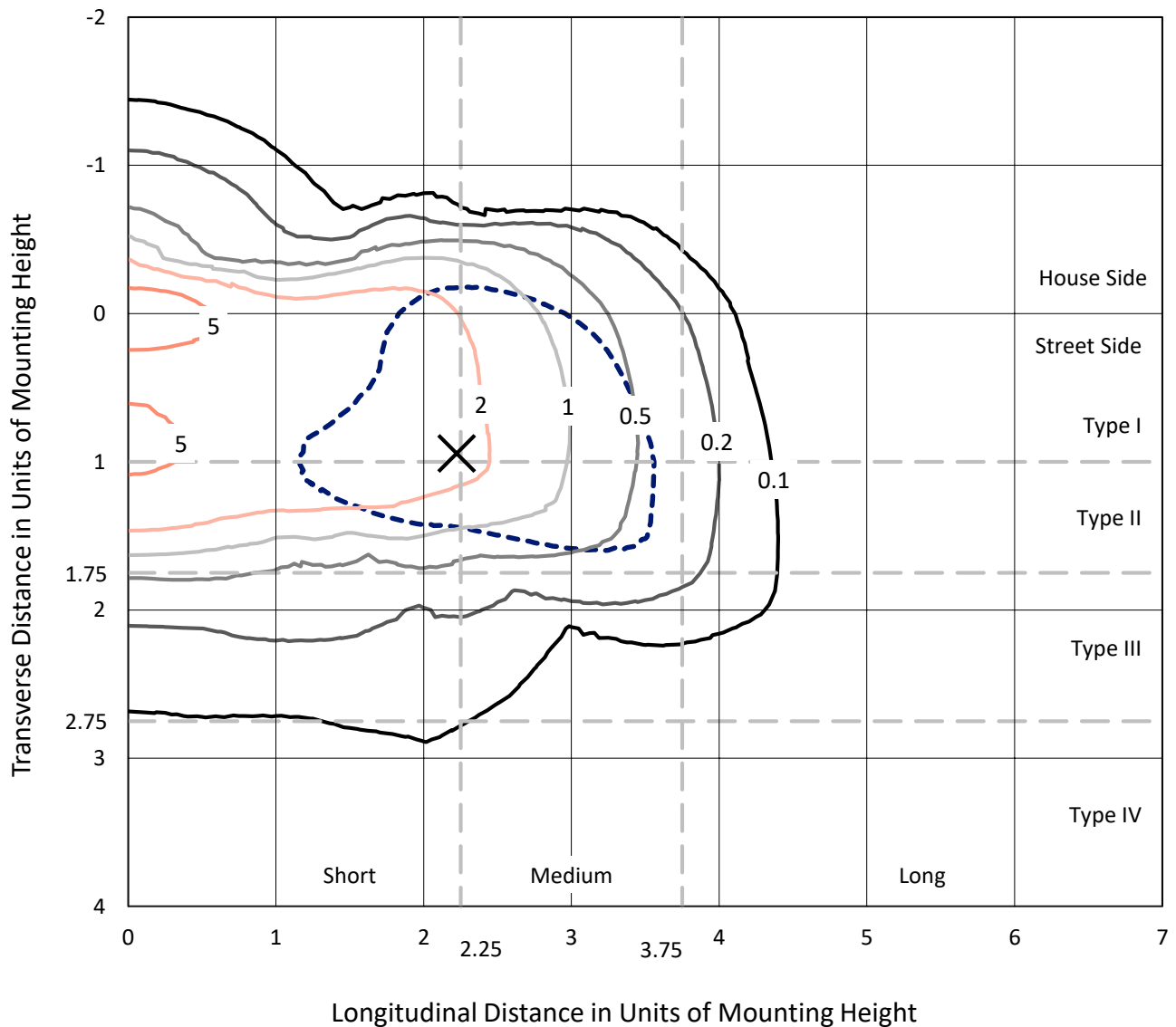
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

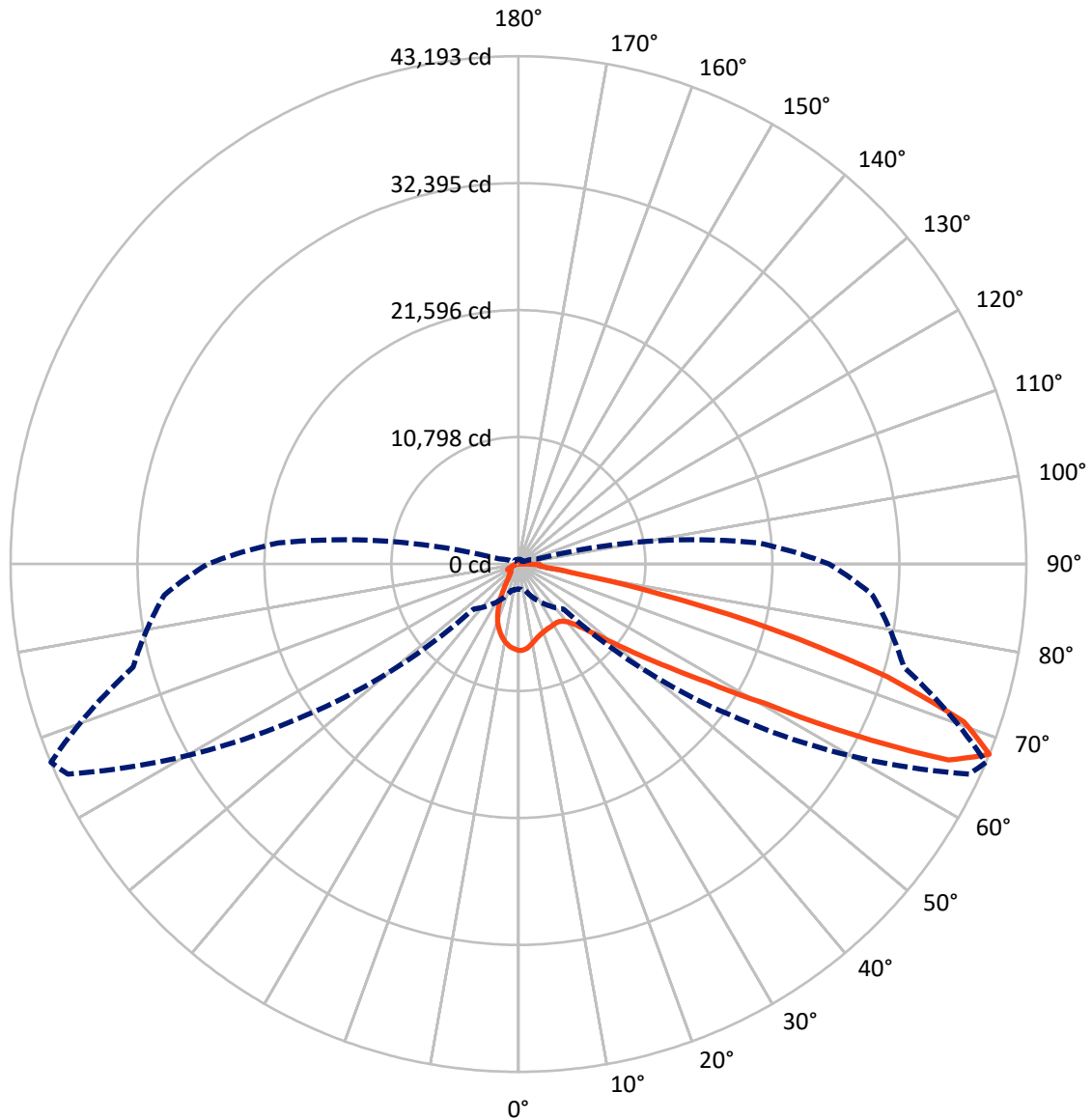
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5648.1 | 0.0 | 5648.1 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 28440.7 | 0.0 | 28440.7 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 34088.8 | 0.0 | 34088.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 627.3 | 1.8 |
| 10°-20° | 1451.5 | 4.3 |
| 20°-30° | 1967.5 | 5.8 |
| 30°-40° | 2797.0 | 8.2 |
| 40°-50° | 4679.6 | 13.7 |
| 50°-60° | 7403.1 | 21.7 |
| 60°-70° | 9430.7 | 27.7 |
| 70°-80° | 4939.8 | 14.5 |
| 80°-90° | 792.3 | 2.3 |
| 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° | 34088.8 | 100.0 |
| 0°-180° | 34088.8 | 100.0 |

Coefficient of Utilization



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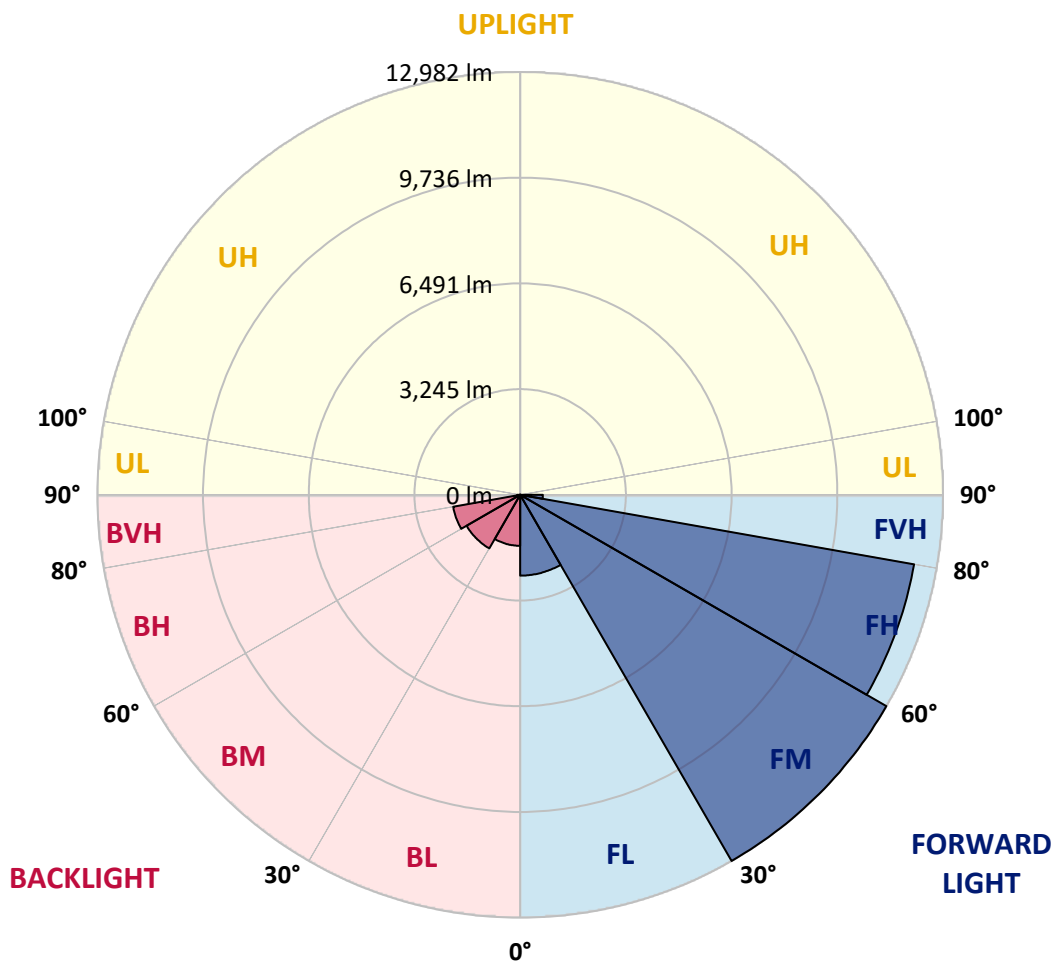
CATALOG NUMBER: GAN-AF-07-LED-U-SL2-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2480.8 | 7.3 | | | |
| FM | (30°-60°) | 12981.7 | 38.1 | | | |
| FH | (60°-80°) | 12281.5 | 36.0 | | | G5 |
| FVH | (80°-90°) | 696.6 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 1565.5 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 1898.0 | 5.6 | B2/2500 | | |
| BH | (60°-80°) | 2089.1 | 6.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 95.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 |
| 2.5° | 7050.3 | 7062.0 | 7099.1 | 7122.6 | 7228.5 | 7273.9 | 7305.8 | 7337.7 | 7342.7 | 7357.9 | 7342.7 |
| 5° | 6310.6 | 6335.9 | 6404.8 | 6482.1 | 6687.1 | 6848.6 | 7018.4 | 7194.8 | 7226.8 | 7341.1 | 7373.0 |
| 7.5° | 5737.4 | 5730.7 | 5787.9 | 5880.3 | 6090.4 | 6314.0 | 6611.5 | 6962.9 | 7031.8 | 7289.0 | 7413.4 |
| 10° | 5318.8 | 5313.8 | 5374.3 | 5470.1 | 5670.1 | 5882.0 | 6218.2 | 6699.0 | 6796.5 | 7206.6 | 7452.1 |
| 12.5° | 5009.5 | 5011.2 | 5071.7 | 5177.6 | 5381.0 | 5594.5 | 5935.8 | 6443.5 | 6567.9 | 7110.8 | 7492.4 |
| 15° | 4804.4 | 4817.9 | 4866.6 | 4979.2 | 5177.6 | 5391.1 | 5725.7 | 6251.8 | 6391.3 | 7035.1 | 7537.8 |
| 17.5° | 4735.4 | 4757.3 | 4774.1 | 4856.6 | 5026.3 | 5239.8 | 5567.6 | 6110.6 | 6258.5 | 6983.1 | 7578.1 |
| 20° | 4799.4 | 4824.5 | 4792.6 | 4821.3 | 4928.8 | 5117.1 | 5443.2 | 5999.6 | 6150.9 | 6924.3 | 7583.1 |
| 22.5° | 5073.4 | 5097.0 | 5002.7 | 4920.4 | 4913.6 | 5028.0 | 5340.6 | 5912.2 | 6068.6 | 6880.5 | 7584.9 |
| 25° | 5555.9 | 5571.0 | 5412.9 | 5221.3 | 5034.8 | 4996.1 | 5268.4 | 5851.7 | 6018.1 | 6841.8 | 7553.0 |
| 27.5° | 6147.5 | 6159.3 | 5977.8 | 5695.4 | 5320.5 | 5071.7 | 5243.1 | 5816.4 | 5989.6 | 6808.2 | 7499.2 |
| 30° | 6867.1 | 6922.5 | 6678.7 | 6322.3 | 5776.1 | 5295.3 | 5293.6 | 5797.9 | 5957.6 | 6751.1 | 7393.2 |
| 32.5° | 7603.4 | 7626.9 | 7458.7 | 7097.3 | 6389.7 | 5688.6 | 5434.8 | 5811.4 | 5949.2 | 6682.1 | 7258.8 |
| 35° | 8349.7 | 8380.0 | 8270.8 | 7979.9 | 7228.5 | 6265.3 | 5710.5 | 5890.4 | 6001.3 | 6658.6 | 7164.6 |
| 37.5° | 9316.3 | 9356.6 | 9205.3 | 8869.2 | 8248.9 | 7046.9 | 6169.4 | 6088.7 | 6161.0 | 6725.8 | 7136.0 |
| 40° | 10844.4 | 10825.9 | 10383.8 | 9882.8 | 9365.1 | 8047.1 | 6825.0 | 6424.9 | 6467.0 | 6942.7 | 7223.5 |
| 42.5° | 12622.9 | 12577.6 | 11816.0 | 11029.4 | 10592.2 | 9257.5 | 7692.5 | 7008.2 | 6999.8 | 7369.6 | 7531.1 |
| 45° | 14041.7 | 14004.7 | 13318.9 | 12349.0 | 11999.3 | 10635.9 | 8813.7 | 7877.3 | 7815.1 | 8047.1 | 8099.2 |
| 47.5° | 14810.0 | 14811.6 | 14416.7 | 13624.9 | 13616.4 | 12387.6 | 10254.4 | 9134.7 | 9027.2 | 9136.5 | 9080.9 |
| 50° | 14541.0 | 14576.3 | 14534.3 | 14282.1 | 15092.4 | 14683.8 | 12135.5 | 10888.1 | 10671.2 | 10778.8 | 10565.3 |
| 52.5° | 13239.8 | 13285.3 | 13534.0 | 13920.7 | 15712.7 | 17459.3 | 14899.1 | 13066.8 | 12814.6 | 12775.9 | 12538.9 |
| 55° | 10933.5 | 10988.9 | 11496.6 | 12547.3 | 15196.7 | 19323.5 | 19259.7 | 15843.8 | 15442.1 | 15077.3 | 14976.4 |
| 57.5° | 7536.1 | 7628.6 | 8445.6 | 10005.6 | 13527.3 | 19886.7 | 24452.4 | 19802.7 | 18985.7 | 17711.5 | 17735.0 |
| 60° | 4248.0 | 4355.6 | 5318.8 | 6735.9 | 10158.5 | 19274.8 | 28402.8 | 25798.9 | 24074.2 | 20796.2 | 20971.0 |
| 62.5° | 2701.4 | 2817.4 | 3548.7 | 4680.0 | 6095.5 | 15980.0 | 30021.7 | 34135.3 | 31944.8 | 24598.7 | 24770.1 |
| 65° | 2187.1 | 2237.5 | 2582.0 | 3863.1 | 4426.2 | 9627.3 | 28792.9 | 41002.2 | 40185.3 | 29425.0 | 28624.7 |
| 67.5° | 2134.9 | 2151.8 | 2329.9 | 3242.8 | 4244.6 | 5411.3 | 22966.4 | 42286.5 | 43192.7 | 33931.8 | 30230.1 |
| 70° | 2109.7 | 2168.6 | 2625.8 | 3094.8 | 4064.8 | 4564.0 | 13801.3 | 38766.5 | 40197.1 | 35110.2 | 28093.6 |
| 72.5° | 1023.8 | 1020.4 | 1321.3 | 2798.9 | 4579.1 | 4733.8 | 7090.6 | 31366.5 | 32802.1 | 30418.5 | 23085.7 |
| 75° | 825.4 | 754.8 | 721.2 | 1025.4 | 4402.7 | 4888.5 | 4518.7 | 21582.9 | 22621.7 | 20394.4 | 14191.4 |
| 77.5° | 783.4 | 699.3 | 640.5 | 642.2 | 1861.0 | 5184.3 | 3827.8 | 11945.5 | 12248.1 | 9212.1 | 3888.2 |
| 80° | 648.9 | 571.5 | 529.5 | 596.8 | 901.0 | 4937.2 | 4138.8 | 5406.2 | 4960.8 | 2262.7 | 1294.4 |
| 82.5° | 450.5 | 410.2 | 398.4 | 500.9 | 721.2 | 3518.4 | 4812.8 | 2904.9 | 2435.9 | 1133.0 | 798.5 |
| 85° | 287.4 | 245.4 | 272.3 | 364.8 | 561.5 | 1623.9 | 4957.4 | 2264.4 | 1800.4 | 719.4 | 450.5 |
| 87.5° | 132.8 | 107.6 | 134.5 | 201.7 | 366.4 | 559.8 | 4717.0 | 2543.5 | 1854.2 | 379.9 | 284.1 |
| 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-07-LED-U-SL2-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 | 7352.9 |
| 2.5° | 7356.2 | 7324.3 | 7299.1 | 7252.0 | 7199.9 | 7149.5 | 7104.1 | 7046.9 | 7030.1 | 7015.0 | 7038.5 |
| 5° | 7379.8 | 7347.9 | 7255.4 | 7110.8 | 6951.2 | 6801.5 | 6651.8 | 6524.1 | 6445.1 | 6401.4 | 6426.6 |
| 7.5° | 7415.1 | 7369.6 | 7178.0 | 6912.5 | 6624.9 | 6362.8 | 6092.1 | 5875.2 | 5715.5 | 5639.9 | 5661.7 |
| 10° | 7447.0 | 7359.6 | 7046.9 | 6648.6 | 6228.2 | 5838.3 | 5411.3 | 5058.3 | 4796.0 | 4658.2 | 4691.8 |
| 12.5° | 7460.5 | 7321.0 | 6863.7 | 6319.1 | 5742.4 | 5170.9 | 4542.2 | 4014.4 | 3637.8 | 3499.9 | 3471.4 |
| 15° | 7473.9 | 7277.3 | 6662.0 | 5944.2 | 5155.8 | 4347.1 | 3466.3 | 2834.2 | 2521.6 | 2452.6 | 2437.5 |
| 17.5° | 7477.3 | 7201.6 | 6433.3 | 5537.3 | 4468.2 | 3367.1 | 2370.3 | 1968.5 | 1970.2 | 2081.1 | 2094.6 |
| 20° | 7442.0 | 7088.9 | 6156.0 | 5031.4 | 3644.5 | 2328.2 | 1627.2 | 1558.4 | 1812.2 | 2089.6 | 2123.1 |
| 22.5° | 7361.3 | 6939.3 | 5841.7 | 4441.3 | 2701.4 | 1533.1 | 1259.2 | 1334.7 | 1662.5 | 2002.1 | 2040.8 |
| 25° | 7258.8 | 6757.8 | 5470.1 | 3757.1 | 1788.6 | 1096.0 | 1055.7 | 1148.2 | 1370.0 | 1597.0 | 1618.8 |
| 27.5° | 7119.2 | 6542.6 | 5053.2 | 2973.7 | 1161.6 | 902.8 | 929.7 | 991.9 | 1082.6 | 1183.5 | 1193.6 |
| 30° | 6939.3 | 6285.4 | 4607.8 | 2168.6 | 877.5 | 811.9 | 850.6 | 884.2 | 922.9 | 980.1 | 985.1 |
| 32.5° | 6732.6 | 6038.3 | 4150.5 | 1497.8 | 778.4 | 764.9 | 795.1 | 811.9 | 842.2 | 877.5 | 880.9 |
| 35° | 6559.5 | 5803.0 | 3676.5 | 1059.1 | 736.3 | 729.6 | 749.7 | 756.5 | 785.0 | 823.7 | 827.1 |
| 37.5° | 6460.2 | 5611.3 | 3187.2 | 854.0 | 707.7 | 697.7 | 709.4 | 709.4 | 749.7 | 806.9 | 815.3 |
| 40° | 6467.0 | 5505.4 | 2698.0 | 771.6 | 684.1 | 670.7 | 672.4 | 672.4 | 724.6 | 786.8 | 791.8 |
| 42.5° | 6650.2 | 5532.3 | 2264.4 | 739.7 | 665.7 | 650.6 | 642.2 | 647.2 | 690.9 | 731.2 | 734.6 |
| 45° | 7080.6 | 5722.3 | 1857.6 | 719.4 | 647.2 | 642.2 | 623.7 | 622.0 | 638.8 | 657.2 | 657.2 |
| 47.5° | 7786.6 | 6097.1 | 1581.9 | 706.0 | 632.1 | 630.3 | 608.6 | 586.7 | 585.0 | 591.8 | 591.8 |
| 50° | 8934.8 | 6742.7 | 1396.9 | 690.9 | 622.0 | 608.6 | 583.3 | 549.7 | 538.0 | 543.0 | 543.0 |
| 52.5° | 10656.1 | 7894.2 | 1326.4 | 670.7 | 600.2 | 578.3 | 549.7 | 516.1 | 506.0 | 507.7 | 507.7 |
| 55° | 12913.7 | 9662.6 | 1316.2 | 647.2 | 576.6 | 541.3 | 517.7 | 492.6 | 480.8 | 484.2 | 484.2 |
| 57.5° | 15672.3 | 12108.6 | 1496.2 | 610.2 | 544.6 | 504.3 | 490.9 | 474.0 | 465.6 | 470.7 | 469.0 |
| 60° | 19026.1 | 15309.3 | 2219.0 | 571.5 | 512.7 | 470.7 | 470.7 | 457.3 | 450.5 | 455.5 | 453.9 |
| 62.5° | 22889.0 | 18985.7 | 3120.0 | 543.0 | 479.0 | 443.8 | 450.5 | 443.8 | 437.1 | 440.5 | 438.7 |
| 65° | 26315.0 | 21381.2 | 2921.6 | 521.1 | 445.5 | 418.6 | 430.4 | 427.0 | 422.0 | 425.3 | 423.6 |
| 67.5° | 26414.2 | 20493.6 | 1640.7 | 497.6 | 413.6 | 393.3 | 410.2 | 408.5 | 405.1 | 408.5 | 406.8 |
| 70° | 23573.3 | 17304.6 | 924.5 | 453.9 | 379.9 | 363.1 | 386.7 | 384.9 | 381.6 | 388.3 | 386.7 |
| 72.5° | 18886.5 | 12557.3 | 675.8 | 400.1 | 346.3 | 331.1 | 358.0 | 356.4 | 356.4 | 366.4 | 361.4 |
| 75° | 10867.9 | 6461.9 | 539.6 | 342.9 | 311.0 | 299.2 | 322.7 | 324.5 | 327.8 | 341.3 | 331.1 |
| 77.5° | 3098.1 | 2013.9 | 440.5 | 290.8 | 267.3 | 262.3 | 285.8 | 289.2 | 290.8 | 306.0 | 292.5 |
| 80° | 1151.5 | 927.9 | 363.1 | 243.8 | 218.5 | 220.2 | 242.0 | 247.1 | 248.8 | 263.9 | 247.1 |
| 82.5° | 734.6 | 611.9 | 294.2 | 188.3 | 171.4 | 169.8 | 196.7 | 203.4 | 203.4 | 205.1 | 195.0 |
| 85° | 428.6 | 366.4 | 221.9 | 136.2 | 121.0 | 116.0 | 146.3 | 158.0 | 152.9 | 149.7 | 142.9 |
| 87.5° | 287.4 | 252.2 | 136.2 | 75.6 | 65.6 | 62.2 | 85.7 | 94.1 | 90.7 | 85.7 | 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 |

(END OF REPORT)