

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: P192836

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192836
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-08-LED-U-SL2-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 45199.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

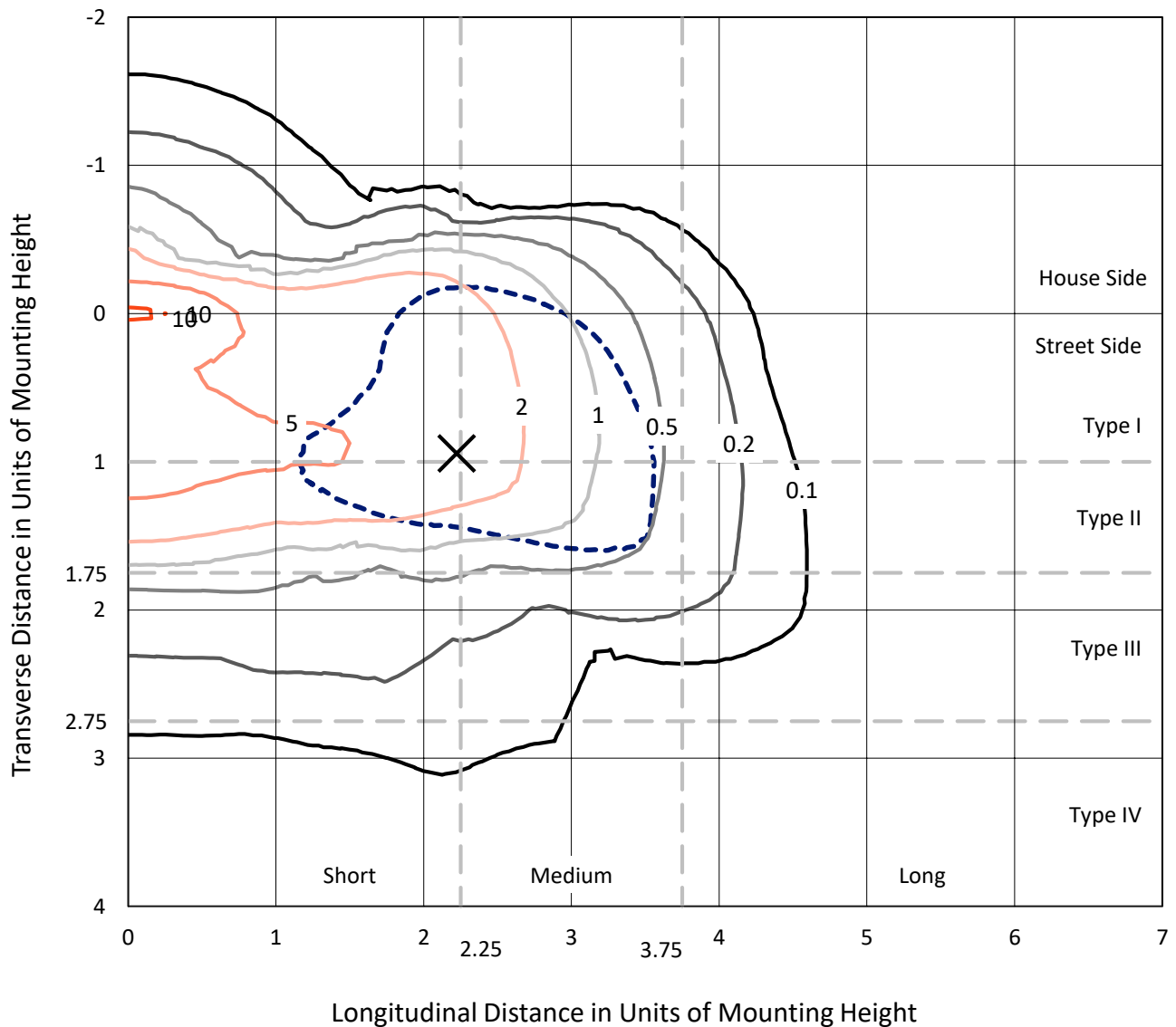
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

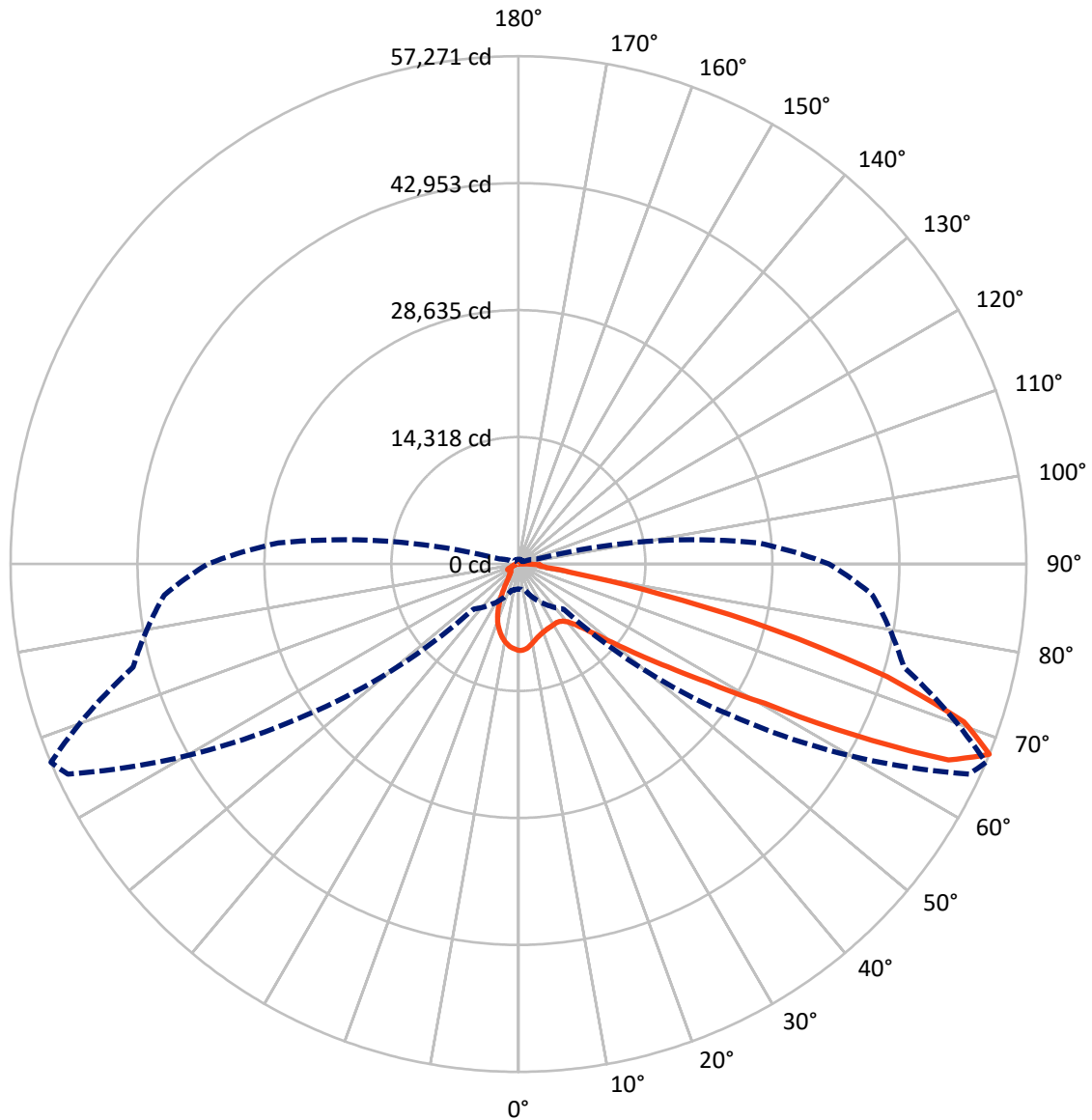
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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 | 7489.0 | 0.0 | 7489.0 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 37710.4 | 0.0 | 37710.4 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 45199.4 | 0.0 | 45199.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 831.8 | 1.8 |
| 10°-20° | 1924.6 | 4.3 |
| 20°-30° | 2608.8 | 5.8 |
| 30°-40° | 3708.7 | 8.2 |
| 40°-50° | 6204.8 | 13.7 |
| 50°-60° | 9815.9 | 21.7 |
| 60°-70° | 12504.5 | 27.7 |
| 70°-80° | 6549.8 | 14.5 |
| 80°-90° | 1050.5 | 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° | 45199.4 | 100.0 |
| 0°-180° | 45199.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192836

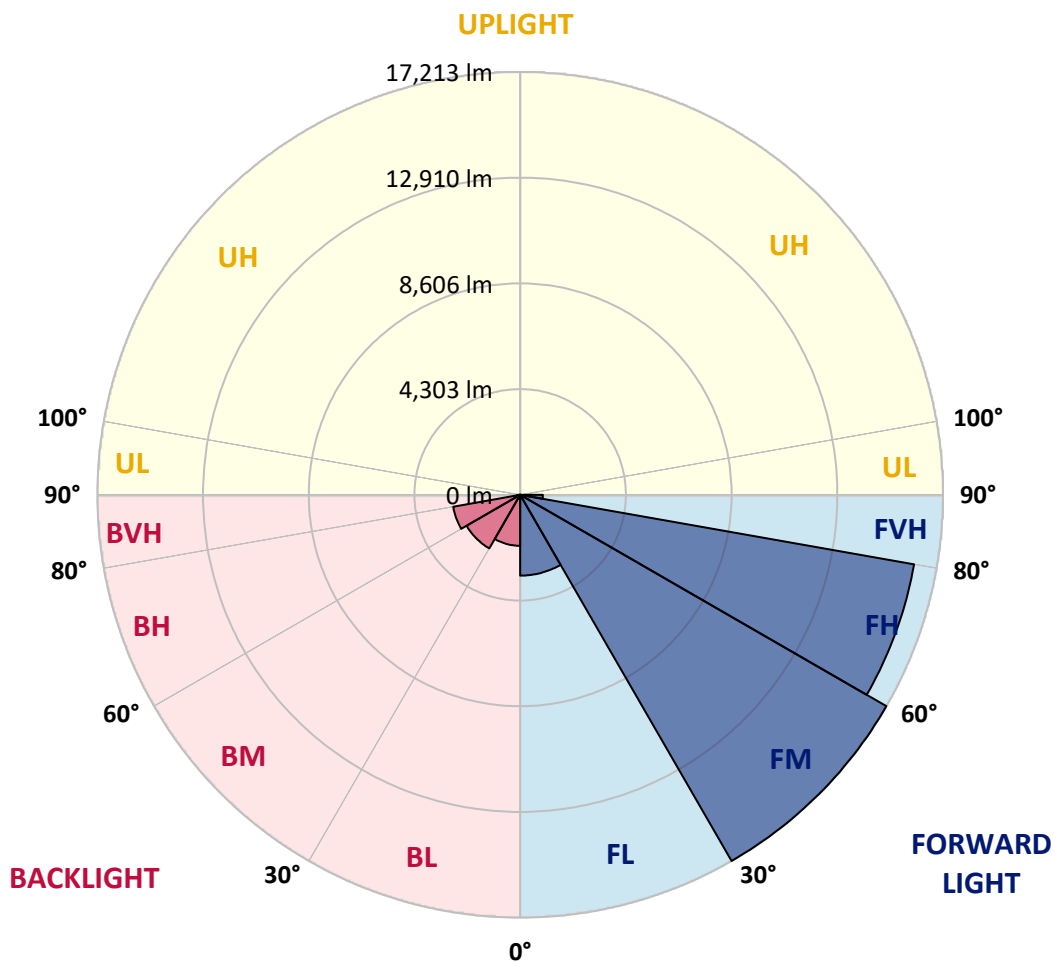
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3289.4 | 7.3 | | | |
| FM (30°-60°) | 17212.9 | 38.1 | | | |
| FH (60°-80°) | 16284.4 | 36.0 | | | G5 |
| FVH (80°-90°) | 923.7 | 2.0 | | | G5 |
| BL (0°-30°) | 2075.8 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2516.5 | 5.6 | B3/5000 | | |
| BH (60°-80°) | 2770.0 | 6.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 126.8 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 |
| 2.5° | 9348.2 | 9363.8 | 9412.8 | 9444.1 | 9584.4 | 9644.7 | 9687.0 | 9729.3 | 9736.1 | 9756.1 | 9736.1 |
| 5° | 8367.5 | 8401.0 | 8492.2 | 8594.8 | 8866.7 | 9080.7 | 9305.8 | 9539.9 | 9582.2 | 9733.8 | 9776.2 |
| 7.5° | 7607.4 | 7598.4 | 7674.3 | 7796.8 | 8075.5 | 8371.9 | 8766.4 | 9232.3 | 9323.6 | 9664.7 | 9829.6 |
| 10° | 7052.3 | 7045.7 | 7125.9 | 7252.9 | 7518.2 | 7799.0 | 8244.9 | 8882.3 | 9011.6 | 9555.5 | 9881.0 |
| 12.5° | 6642.3 | 6644.5 | 6724.7 | 6865.2 | 7134.8 | 7417.9 | 7870.4 | 8543.5 | 8708.5 | 9428.4 | 9934.4 |
| 15° | 6370.4 | 6388.2 | 6452.9 | 6602.1 | 6865.2 | 7148.3 | 7591.8 | 8289.5 | 8474.4 | 9328.1 | 9994.6 |
| 17.5° | 6278.9 | 6308.0 | 6330.3 | 6439.4 | 6664.6 | 6947.6 | 7382.3 | 8102.2 | 8298.3 | 9259.0 | 10048.1 |
| 20° | 6363.7 | 6397.1 | 6354.7 | 6392.6 | 6535.3 | 6784.9 | 7217.3 | 7955.0 | 8155.7 | 9181.0 | 10054.8 |
| 22.5° | 6727.0 | 6758.1 | 6633.3 | 6524.1 | 6515.2 | 6666.8 | 7081.3 | 7839.3 | 8046.5 | 9123.0 | 10057.0 |
| 25° | 7366.7 | 7386.7 | 7177.2 | 6923.1 | 6675.7 | 6624.4 | 6985.5 | 7758.9 | 7979.6 | 9071.8 | 10014.7 |
| 27.5° | 8151.3 | 8166.9 | 7926.1 | 7551.7 | 7054.7 | 6724.7 | 6952.0 | 7712.2 | 7941.7 | 9027.2 | 9943.3 |
| 30° | 9105.2 | 9178.8 | 8855.6 | 8383.0 | 7658.6 | 7021.2 | 7019.0 | 7687.6 | 7899.3 | 8951.5 | 9803.0 |
| 32.5° | 10081.6 | 10112.7 | 9889.8 | 9410.6 | 8472.2 | 7542.7 | 7206.2 | 7705.5 | 7888.2 | 8860.1 | 9624.5 |
| 35° | 11071.1 | 11111.3 | 10966.5 | 10580.7 | 9584.4 | 8307.3 | 7571.7 | 7810.2 | 7957.4 | 8828.9 | 9499.8 |
| 37.5° | 12352.9 | 12406.3 | 12205.7 | 11759.9 | 10937.4 | 9343.8 | 8180.2 | 8073.2 | 8169.1 | 8918.1 | 9461.9 |
| 40° | 14378.9 | 14354.4 | 13768.2 | 13104.0 | 12417.5 | 10669.9 | 9049.5 | 8519.1 | 8574.7 | 9205.5 | 9577.7 |
| 42.5° | 16737.2 | 16677.0 | 15667.2 | 14624.2 | 14044.6 | 12274.8 | 10199.7 | 9292.5 | 9281.3 | 9771.7 | 9985.6 |
| 45° | 18618.5 | 18569.3 | 17659.9 | 16373.8 | 15910.3 | 14102.5 | 11686.4 | 10444.8 | 10362.3 | 10669.9 | 10739.1 |
| 47.5° | 19637.0 | 19639.3 | 19115.5 | 18065.6 | 18054.4 | 16425.2 | 13596.6 | 12112.1 | 11969.5 | 12114.3 | 12040.8 |
| 50° | 19280.4 | 19327.2 | 19271.4 | 18937.2 | 20011.5 | 19469.9 | 16090.7 | 14436.9 | 14149.4 | 14291.9 | 14008.9 |
| 52.5° | 17555.2 | 17615.4 | 17945.3 | 18457.9 | 20834.0 | 23149.9 | 19755.1 | 17325.6 | 16991.2 | 16940.0 | 16625.8 |
| 55° | 14497.1 | 14570.6 | 15243.8 | 16636.9 | 20149.7 | 25621.8 | 25537.0 | 21007.9 | 20475.0 | 19991.3 | 19857.7 |
| 57.5° | 9992.5 | 10115.0 | 11198.2 | 13266.7 | 17936.3 | 26368.4 | 32422.2 | 26256.9 | 25173.8 | 23484.1 | 23515.5 |
| 60° | 5632.6 | 5775.2 | 7052.3 | 8931.4 | 13469.5 | 25557.1 | 37660.2 | 34207.7 | 31920.7 | 27574.3 | 27806.2 |
| 62.5° | 3581.9 | 3735.7 | 4705.4 | 6205.4 | 8082.1 | 21188.3 | 39806.8 | 45260.9 | 42356.6 | 32616.2 | 32843.6 |
| 65° | 2899.8 | 2966.7 | 3423.6 | 5122.1 | 5868.9 | 12765.2 | 38177.4 | 54366.2 | 53283.0 | 39015.5 | 37954.5 |
| 67.5° | 2830.8 | 2853.1 | 3089.3 | 4299.7 | 5628.1 | 7174.9 | 30451.8 | 56069.1 | 57270.5 | 44991.4 | 40083.2 |
| 70° | 2797.4 | 2875.3 | 3481.6 | 4103.4 | 5389.5 | 6051.6 | 18299.7 | 51401.8 | 53298.6 | 46553.7 | 37250.2 |
| 72.5° | 1357.4 | 1352.9 | 1752.0 | 3711.2 | 6071.6 | 6276.7 | 9401.6 | 41589.9 | 43493.5 | 40332.8 | 30610.1 |
| 75° | 1094.4 | 1000.9 | 956.2 | 1359.6 | 5837.6 | 6481.8 | 5991.4 | 28617.4 | 29995.0 | 27041.5 | 18816.7 |
| 77.5° | 1038.7 | 927.3 | 849.3 | 851.4 | 2467.4 | 6874.0 | 5075.3 | 15838.9 | 16240.1 | 12214.6 | 5155.5 |
| 80° | 860.4 | 757.8 | 702.1 | 791.2 | 1194.8 | 6546.4 | 5487.6 | 7168.3 | 6577.6 | 3000.2 | 1716.3 |
| 82.5° | 597.3 | 543.9 | 528.3 | 664.2 | 956.2 | 4665.2 | 6381.5 | 3851.6 | 3229.7 | 1502.4 | 1058.7 |
| 85° | 381.1 | 325.4 | 361.1 | 483.7 | 744.5 | 2153.2 | 6573.1 | 3002.5 | 2387.2 | 954.0 | 597.3 |
| 87.5° | 176.1 | 142.7 | 178.3 | 267.4 | 485.8 | 742.2 | 6254.4 | 3372.4 | 2458.6 | 503.8 | 376.7 |
| 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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 CATALOG NUMBER: GAN-AF-08-LED-U-SL2-7030-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 | 9749.4 |
| 2.5° | 9753.9 | 9711.5 | 9678.0 | 9615.7 | 9546.5 | 9479.7 | 9419.6 | 9343.8 | 9321.5 | 9301.4 | 9332.6 |
| 5° | 9785.0 | 9742.7 | 9620.2 | 9428.4 | 9216.7 | 9018.4 | 8820.0 | 8650.5 | 8545.8 | 8487.8 | 8521.2 |
| 7.5° | 9831.9 | 9771.7 | 9517.6 | 9165.4 | 8784.2 | 8436.6 | 8077.7 | 7790.1 | 7578.4 | 7478.1 | 7507.1 |
| 10° | 9874.2 | 9758.4 | 9343.8 | 8815.5 | 8258.3 | 7741.1 | 7174.9 | 6706.9 | 6359.2 | 6176.4 | 6221.0 |
| 12.5° | 9892.2 | 9707.0 | 9100.8 | 8378.6 | 7614.1 | 6856.2 | 6022.6 | 5322.7 | 4823.5 | 4640.7 | 4602.8 |
| 15° | 9910.0 | 9649.1 | 8833.3 | 7881.5 | 6836.2 | 5764.1 | 4596.1 | 3758.0 | 3343.5 | 3252.0 | 3232.0 |
| 17.5° | 9914.4 | 9548.8 | 8530.2 | 7342.1 | 5924.6 | 4464.6 | 3142.9 | 2610.1 | 2612.3 | 2759.5 | 2777.3 |
| 20° | 9867.5 | 9399.5 | 8162.4 | 6671.3 | 4832.3 | 3087.1 | 2157.7 | 2066.2 | 2402.8 | 2770.6 | 2815.2 |
| 22.5° | 9760.5 | 9201.0 | 7745.6 | 5888.8 | 3581.9 | 2032.8 | 1669.5 | 1769.8 | 2204.5 | 2654.7 | 2706.0 |
| 25° | 9624.5 | 8960.4 | 7252.9 | 4981.6 | 2371.6 | 1453.2 | 1399.8 | 1522.4 | 1816.6 | 2117.6 | 2146.5 |
| 27.5° | 9439.6 | 8675.0 | 6700.3 | 3943.0 | 1540.2 | 1196.9 | 1232.6 | 1315.1 | 1435.4 | 1569.2 | 1582.5 |
| 30° | 9201.0 | 8334.1 | 6109.6 | 2875.3 | 1163.5 | 1076.5 | 1127.9 | 1172.5 | 1223.7 | 1299.5 | 1306.2 |
| 32.5° | 8926.9 | 8006.4 | 5503.3 | 1986.0 | 1032.0 | 1014.2 | 1054.3 | 1076.5 | 1116.7 | 1163.5 | 1168.0 |
| 35° | 8697.4 | 7694.4 | 4874.7 | 1404.2 | 976.2 | 967.4 | 994.1 | 1003.0 | 1040.9 | 1092.1 | 1096.6 |
| 37.5° | 8565.8 | 7440.2 | 4226.0 | 1132.3 | 938.4 | 925.0 | 940.6 | 940.6 | 994.1 | 1069.8 | 1081.0 |
| 40° | 8574.7 | 7299.8 | 3577.4 | 1023.1 | 907.2 | 889.4 | 891.5 | 891.5 | 960.7 | 1043.1 | 1049.9 |
| 42.5° | 8817.7 | 7335.4 | 3002.5 | 980.7 | 882.7 | 862.6 | 851.4 | 858.1 | 916.1 | 969.5 | 974.0 |
| 45° | 9388.3 | 7587.3 | 2463.0 | 954.0 | 858.1 | 851.4 | 827.0 | 824.7 | 847.0 | 871.6 | 871.6 |
| 47.5° | 10324.5 | 8084.4 | 2097.4 | 936.2 | 838.1 | 835.9 | 806.9 | 777.9 | 775.6 | 784.6 | 784.6 |
| 50° | 11846.9 | 8940.3 | 1852.3 | 916.1 | 824.7 | 806.9 | 773.4 | 728.9 | 713.3 | 719.9 | 719.9 |
| 52.5° | 14129.3 | 10467.1 | 1758.6 | 889.4 | 795.7 | 766.8 | 728.9 | 684.3 | 671.0 | 673.1 | 673.1 |
| 55° | 17122.8 | 12812.0 | 1745.3 | 858.1 | 764.5 | 717.8 | 686.4 | 653.1 | 637.5 | 641.9 | 641.9 |
| 57.5° | 20780.4 | 16055.1 | 1983.7 | 809.1 | 722.2 | 668.6 | 650.8 | 628.6 | 617.5 | 624.1 | 621.9 |
| 60° | 25227.2 | 20299.1 | 2942.3 | 757.8 | 679.8 | 624.1 | 624.1 | 606.3 | 597.3 | 604.1 | 601.8 |
| 62.5° | 30349.4 | 25173.8 | 4136.9 | 719.9 | 635.3 | 588.5 | 597.3 | 588.5 | 579.5 | 584.0 | 581.8 |
| 65° | 34892.0 | 28349.9 | 3873.9 | 690.9 | 590.6 | 555.0 | 570.7 | 566.2 | 559.5 | 563.9 | 561.7 |
| 67.5° | 35023.5 | 27173.1 | 2175.5 | 659.8 | 548.4 | 521.6 | 543.9 | 541.6 | 537.2 | 541.6 | 539.4 |
| 70° | 31256.6 | 22944.8 | 1225.9 | 601.8 | 503.8 | 481.5 | 512.7 | 510.5 | 506.0 | 514.9 | 512.7 |
| 72.5° | 25042.2 | 16650.2 | 896.0 | 530.5 | 459.2 | 439.1 | 474.7 | 472.5 | 472.5 | 485.8 | 479.2 |
| 75° | 14410.1 | 8568.1 | 715.5 | 454.7 | 412.4 | 396.7 | 428.0 | 430.2 | 434.7 | 452.5 | 439.1 |
| 77.5° | 4107.9 | 2670.3 | 584.0 | 385.5 | 354.4 | 347.7 | 378.9 | 383.4 | 385.5 | 405.7 | 387.9 |
| 80° | 1526.8 | 1230.4 | 481.5 | 323.2 | 289.7 | 291.9 | 321.0 | 327.7 | 329.9 | 349.9 | 327.7 |
| 82.5° | 974.0 | 811.4 | 390.0 | 249.6 | 227.4 | 225.1 | 260.8 | 269.7 | 269.7 | 271.9 | 258.5 |
| 85° | 568.3 | 485.8 | 294.2 | 180.5 | 160.5 | 153.8 | 193.9 | 209.6 | 202.7 | 198.5 | 189.4 |
| 87.5° | 381.1 | 334.4 | 180.5 | 100.3 | 87.0 | 82.5 | 113.6 | 124.8 | 120.4 | 113.6 | 107.0 |
| 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)