

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: P191255

Luminaire Tested: **GAN-AF-07-LED-U-SL4-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40924.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

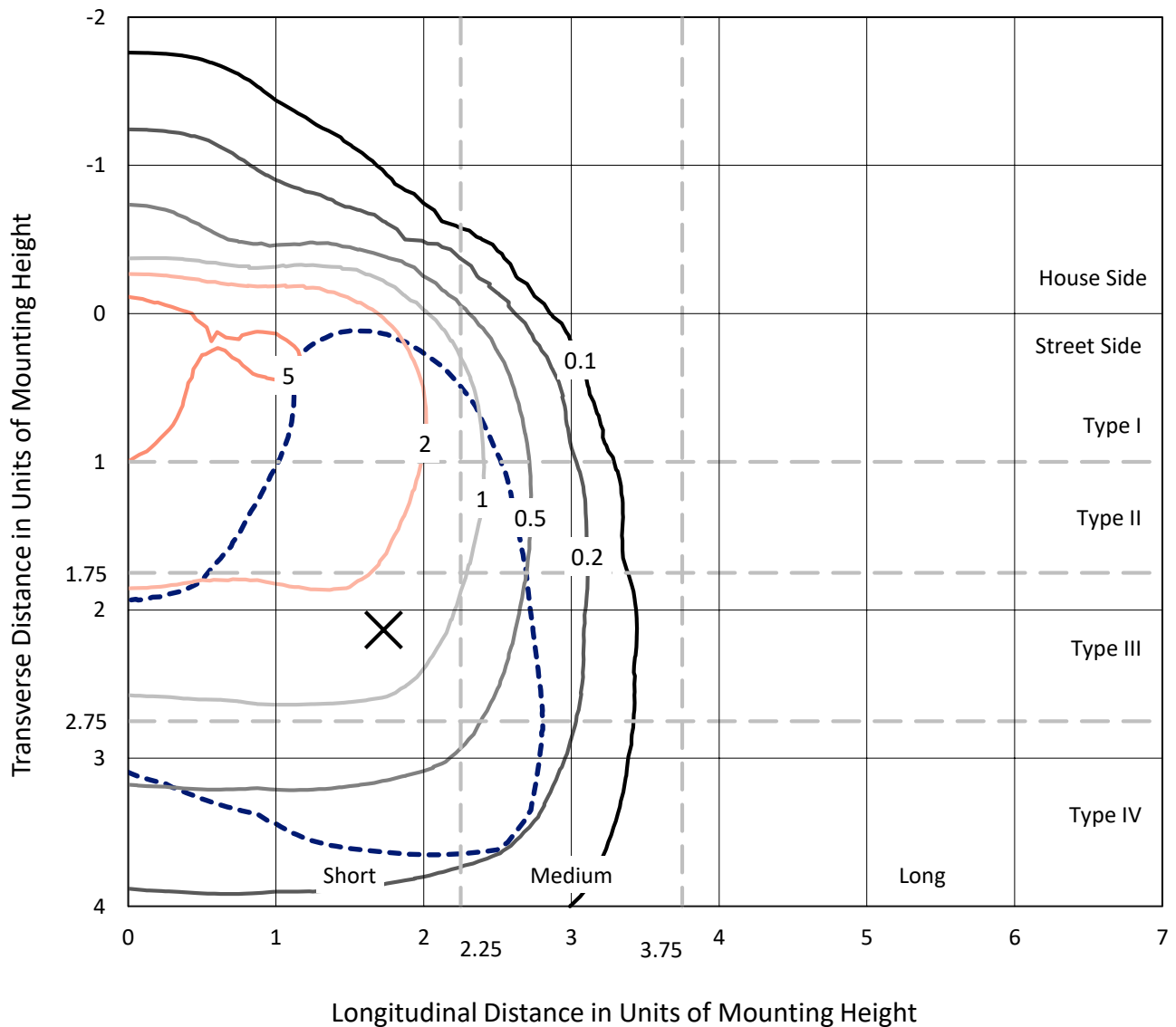
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

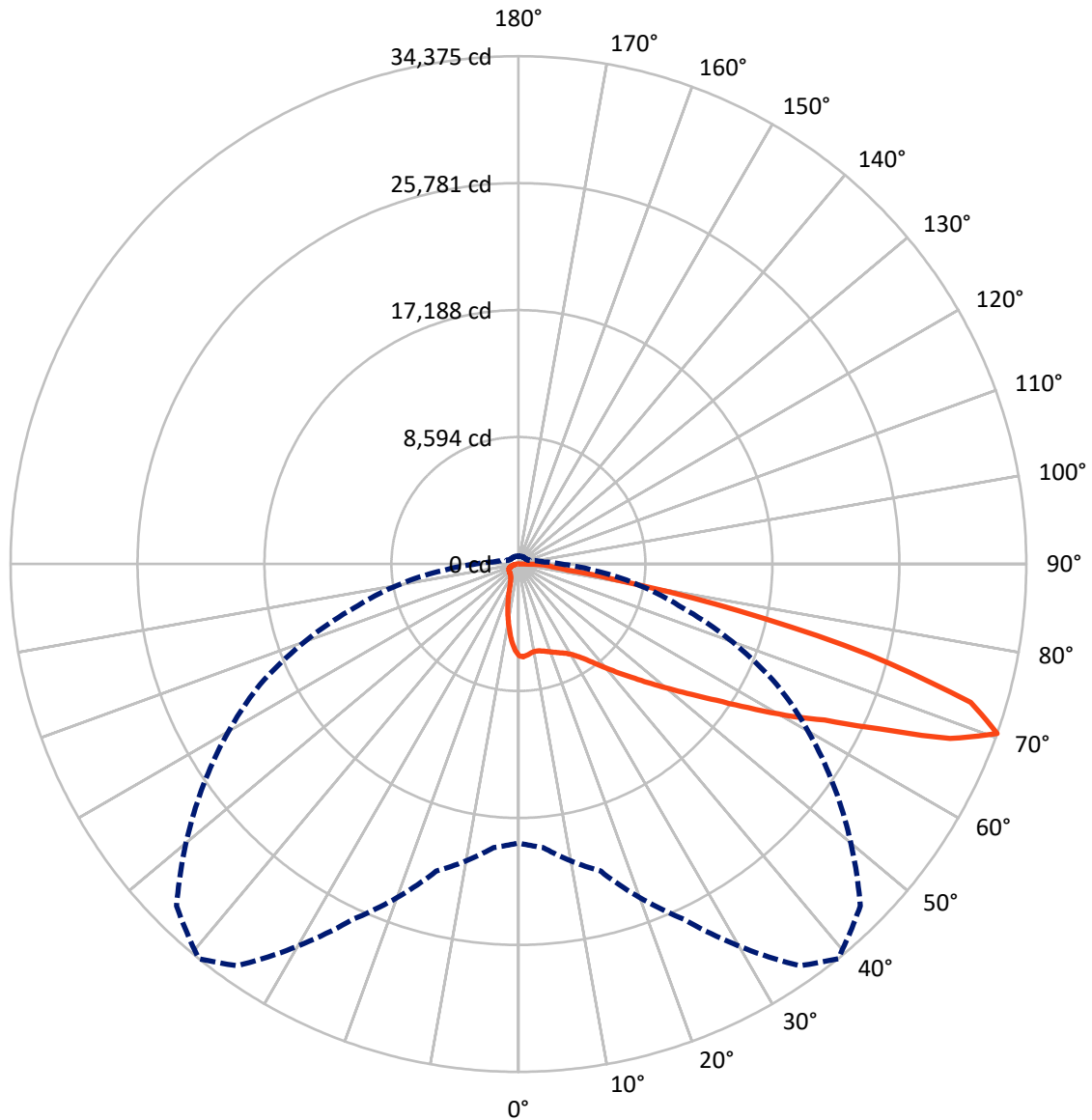
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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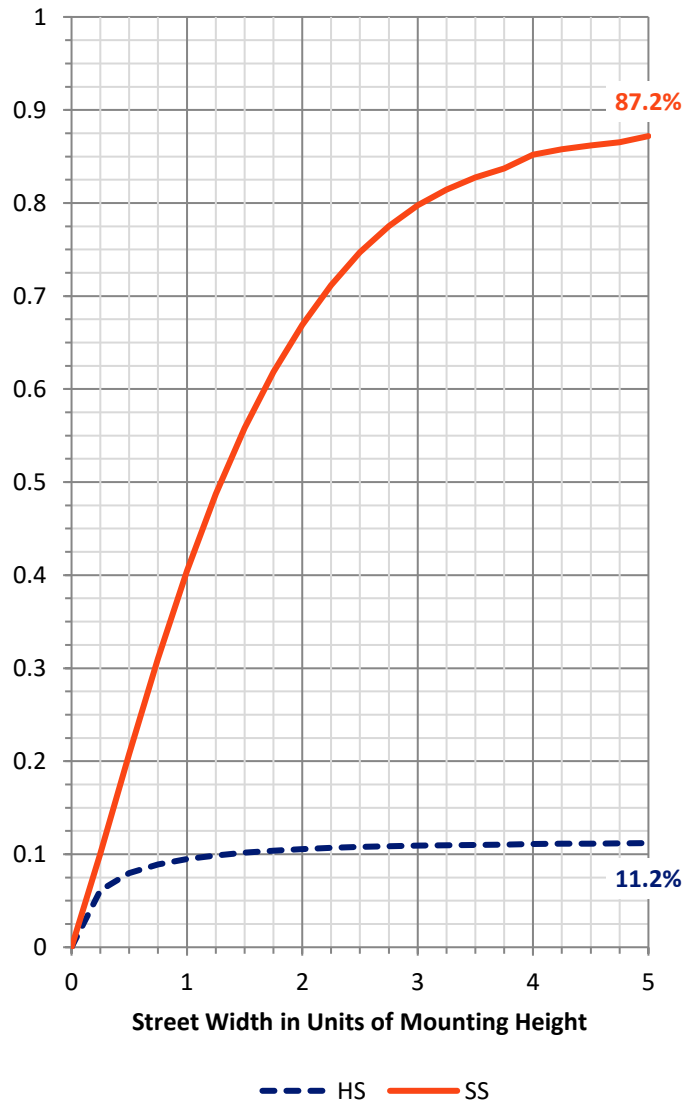
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4654.4 | 0.0 | 4654.4 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 36269.7 | 0.0 | 36269.7 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 40924.1 | 0.0 | 40924.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 533.2 | 1.3 |
| 10°-20° | 1332.8 | 3.3 |
| 20°-30° | 2075.2 | 5.1 |
| 30°-40° | 3232.7 | 7.9 |
| 40°-50° | 5427.2 | 13.3 |
| 50°-60° | 8621.5 | 21.1 |
| 60°-70° | 11500.1 | 28.1 |
| 70°-80° | 6944.6 | 17.0 |
| 80°-90° | 1256.9 | 3.1 |
| 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° | 40924.1 | 100.0 |
| 0°-180° | 40924.1 | 100.0 |

Coefficient of Utilization



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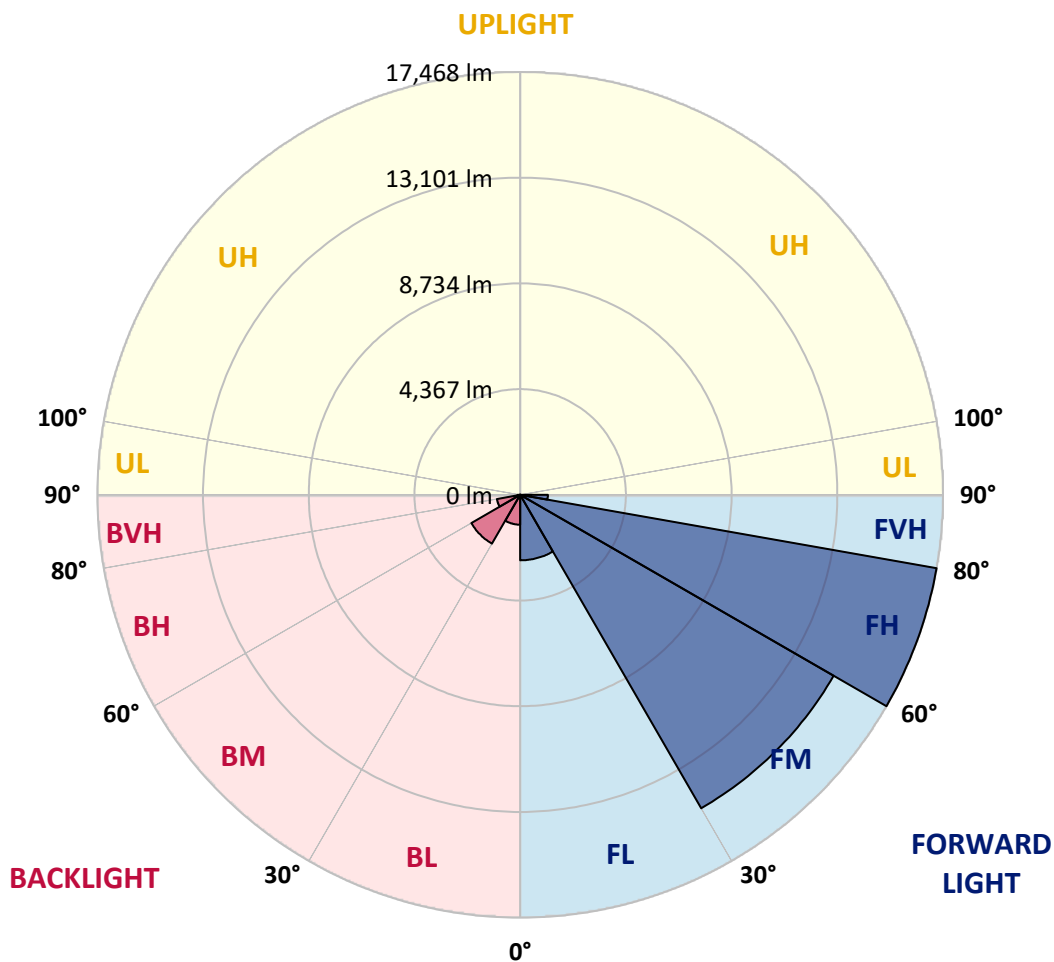
CATALOG NUMBER: GAN-AF-07-LED-U-SL4-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2706.4 | 6.6 | | | |
| FM | (30°-60°) | 14952.1 | 36.5 | | | |
| FH | (60°-80°) | 17467.6 | 42.7 | | | G5 |
| FVH | (80°-90°) | 1143.6 | 2.8 | | | G5 |
| BL | (0°-30°) | 1234.7 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2329.3 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 977.2 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 113.3 | 0.3 | | | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 |
| 2.5° | 6333.6 | 6331.6 | 6314.9 | 6302.4 | 6292.0 | 6287.9 | 6296.2 | 6265.0 | 6237.9 | 6204.6 | 6169.2 |
| 5° | 6285.7 | 6283.7 | 6256.6 | 6231.6 | 6206.7 | 6198.4 | 6196.3 | 6140.1 | 6106.8 | 6056.9 | 5990.3 |
| 7.5° | 6233.8 | 6223.3 | 6187.9 | 6146.3 | 6102.6 | 6081.9 | 6061.0 | 5988.3 | 5950.7 | 5900.8 | 5823.9 |
| 10° | 6179.6 | 6167.2 | 6133.8 | 6092.3 | 6050.7 | 6019.5 | 5984.1 | 5913.3 | 5873.8 | 5836.3 | 5746.8 |
| 12.5° | 6123.5 | 6113.1 | 6104.8 | 6086.0 | 6056.9 | 6029.8 | 6002.8 | 5942.4 | 5900.8 | 5857.1 | 5753.1 |
| 15° | 6115.1 | 6111.0 | 6129.7 | 6142.2 | 6125.5 | 6108.9 | 6079.8 | 6027.7 | 5984.1 | 5940.4 | 5805.1 |
| 17.5° | 6181.7 | 6179.6 | 6227.5 | 6260.8 | 6252.5 | 6223.3 | 6183.8 | 6125.5 | 6090.1 | 6052.7 | 5884.2 |
| 20° | 6327.4 | 6337.8 | 6396.0 | 6439.7 | 6398.1 | 6356.5 | 6292.0 | 6210.8 | 6192.1 | 6175.5 | 5965.3 |
| 22.5° | 6602.0 | 6612.5 | 6654.0 | 6670.7 | 6562.4 | 6502.2 | 6412.7 | 6308.6 | 6296.2 | 6308.6 | 6063.1 |
| 25° | 7030.6 | 7020.2 | 7014.0 | 6951.6 | 6753.9 | 6660.2 | 6545.9 | 6437.6 | 6443.9 | 6500.0 | 6200.4 |
| 27.5° | 7598.7 | 7542.5 | 7455.1 | 7267.9 | 6953.6 | 6849.6 | 6710.3 | 6610.3 | 6649.9 | 6758.0 | 6406.4 |
| 30° | 8187.5 | 8125.1 | 7923.3 | 7617.4 | 7215.8 | 7101.3 | 6945.3 | 6833.0 | 6937.0 | 7107.7 | 6681.1 |
| 32.5° | 8732.6 | 8724.3 | 8428.8 | 8035.6 | 7577.8 | 7478.0 | 7322.0 | 7195.0 | 7363.5 | 7623.6 | 7093.0 |
| 35° | 9327.7 | 9346.4 | 8992.8 | 8520.4 | 8066.8 | 7962.8 | 7850.4 | 7754.7 | 7979.4 | 8337.3 | 7690.2 |
| 37.5° | 9964.4 | 10001.8 | 9583.6 | 9051.0 | 8624.4 | 8580.7 | 8514.1 | 8472.6 | 8820.0 | 9315.2 | 8524.6 |
| 40° | 10815.4 | 10777.9 | 10197.4 | 9650.2 | 9309.0 | 9306.9 | 9286.1 | 9336.1 | 9914.4 | 10592.8 | 9596.1 |
| 42.5° | 11726.7 | 11616.4 | 10848.7 | 10293.1 | 10060.1 | 10130.9 | 10172.4 | 10376.4 | 11231.5 | 12145.0 | 10902.8 |
| 45° | 12708.8 | 12461.2 | 11524.9 | 10973.5 | 10894.4 | 11044.3 | 11185.8 | 11628.9 | 12781.7 | 13911.4 | 12334.3 |
| 47.5° | 13493.2 | 13254.0 | 12224.1 | 11687.2 | 11859.9 | 12086.7 | 12359.3 | 13060.4 | 14516.9 | 15736.3 | 13747.1 |
| 50° | 14111.2 | 13955.2 | 12929.4 | 12519.5 | 12923.1 | 13272.7 | 13718.0 | 14681.3 | 16322.9 | 17513.1 | 15055.8 |
| 52.5° | 14710.4 | 14593.9 | 13640.9 | 13372.5 | 14171.6 | 14654.3 | 15259.8 | 16420.7 | 18174.8 | 19260.9 | 16156.5 |
| 55° | 15251.4 | 15168.2 | 14406.6 | 14435.8 | 15640.5 | 16268.9 | 17030.4 | 18401.6 | 20193.0 | 20819.3 | 17088.7 |
| 57.5° | 15861.1 | 15755.0 | 15280.5 | 15769.5 | 17527.6 | 18343.3 | 19333.7 | 20627.9 | 22086.4 | 22205.1 | 17798.2 |
| 60° | 16474.8 | 16383.3 | 16250.2 | 17309.2 | 19924.6 | 20781.9 | 21720.2 | 22785.6 | 24006.9 | 23280.8 | 17756.6 |
| 62.5° | 17007.5 | 17017.9 | 17253.0 | 18925.9 | 22271.7 | 23264.2 | 24408.5 | 25461.3 | 25744.3 | 23468.0 | 16443.6 |
| 65° | 17910.5 | 18074.9 | 18776.1 | 21214.7 | 25575.8 | 26903.2 | 28307.7 | 28139.1 | 26225.0 | 21718.2 | 13628.5 |
| 67.5° | 18984.1 | 19273.4 | 20694.5 | 24264.9 | 29751.7 | 31514.0 | 32057.1 | 28744.6 | 24300.3 | 17654.6 | 9714.8 |
| 70° | 18876.0 | 19273.4 | 21522.6 | 26539.1 | 33193.1 | 34375.0 | 32727.1 | 26014.8 | 19296.2 | 11533.3 | 5160.1 |
| 72.5° | 16762.0 | 17330.0 | 19835.1 | 25496.7 | 32109.1 | 32005.1 | 28411.7 | 19394.0 | 11464.6 | 4631.6 | 2016.1 |
| 75° | 12775.4 | 13349.7 | 15505.3 | 20143.1 | 25378.1 | 24504.2 | 20159.7 | 10713.5 | 4350.7 | 1839.4 | 1271.3 |
| 77.5° | 7349.0 | 7794.3 | 9458.8 | 12353.1 | 16100.3 | 15203.6 | 11221.2 | 4764.8 | 2118.1 | 1281.7 | 992.5 |
| 80° | 4103.2 | 4350.7 | 5361.9 | 6267.0 | 7889.9 | 7232.5 | 5020.6 | 2960.8 | 1581.3 | 930.1 | 765.7 |
| 82.5° | 3243.8 | 3464.3 | 4336.2 | 3953.3 | 3603.8 | 3324.9 | 2883.8 | 2636.2 | 1262.9 | 586.8 | 457.8 |
| 85° | 2833.9 | 3044.0 | 3670.3 | 3112.7 | 2461.4 | 2257.6 | 2342.9 | 2594.6 | 982.0 | 353.7 | 391.2 |
| 87.5° | 2625.8 | 2906.7 | 3270.9 | 2399.0 | 1916.3 | 1697.8 | 2161.8 | 2844.3 | 316.3 | 220.5 | 158.1 |
| 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-SL4-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 | 6212.9 |
| 2.5° | 6138.0 | 6104.8 | 6050.7 | 6002.8 | 5927.9 | 5888.3 | 5844.6 | 5813.4 | 5788.5 | 5767.7 | 5800.9 |
| 5° | 5948.7 | 5886.3 | 5771.8 | 5649.0 | 5503.4 | 5389.0 | 5293.3 | 5203.8 | 5141.4 | 5099.7 | 5128.9 |
| 7.5° | 5769.7 | 5667.8 | 5488.8 | 5266.3 | 5016.6 | 4804.3 | 4629.6 | 4475.5 | 4369.4 | 4300.8 | 4327.8 |
| 10° | 5667.8 | 5540.8 | 5264.1 | 4914.6 | 4546.3 | 4215.5 | 3940.8 | 3703.6 | 3539.2 | 3445.6 | 3460.1 |
| 12.5° | 5642.8 | 5478.4 | 5095.6 | 4614.9 | 4111.4 | 3651.6 | 3264.5 | 2935.9 | 2704.9 | 2584.2 | 2588.4 |
| 15° | 5661.5 | 5451.4 | 4937.5 | 4327.8 | 3691.1 | 3110.6 | 2627.9 | 2228.4 | 1960.0 | 1822.7 | 1820.6 |
| 17.5° | 5692.7 | 5430.5 | 4771.0 | 4017.8 | 3264.5 | 2590.4 | 2051.5 | 1660.4 | 1423.2 | 1313.0 | 1304.6 |
| 20° | 5726.1 | 5397.3 | 4583.7 | 3682.8 | 2821.4 | 2107.7 | 1606.2 | 1300.5 | 1150.6 | 1090.3 | 1086.1 |
| 22.5° | 5773.9 | 5368.1 | 4390.2 | 3329.1 | 2386.5 | 1716.6 | 1321.2 | 1115.2 | 1036.1 | 1004.9 | 1000.9 |
| 25° | 5850.9 | 5353.6 | 4184.3 | 2960.8 | 1995.4 | 1435.7 | 1150.6 | 1023.7 | 977.9 | 957.1 | 955.0 |
| 27.5° | 5979.9 | 5374.4 | 3990.7 | 2602.9 | 1677.0 | 1246.4 | 1054.9 | 977.9 | 944.6 | 925.9 | 923.8 |
| 30° | 6146.3 | 5438.9 | 3786.9 | 2263.8 | 1429.5 | 1117.4 | 996.7 | 946.7 | 919.6 | 900.9 | 900.9 |
| 32.5° | 6423.1 | 5547.2 | 3572.6 | 1970.4 | 1252.6 | 1027.9 | 953.0 | 919.6 | 896.8 | 882.2 | 880.1 |
| 35° | 6830.9 | 5751.0 | 3372.8 | 1726.9 | 1125.7 | 963.3 | 915.5 | 890.6 | 873.9 | 865.5 | 865.5 |
| 37.5° | 7423.9 | 6073.6 | 3195.9 | 1552.2 | 1048.6 | 919.6 | 880.1 | 861.4 | 851.0 | 851.0 | 851.0 |
| 40° | 8220.7 | 6518.8 | 3052.4 | 1435.7 | 1004.9 | 888.4 | 853.0 | 838.5 | 832.3 | 834.3 | 834.3 |
| 42.5° | 9204.9 | 7097.2 | 2956.6 | 1354.5 | 984.2 | 869.7 | 834.3 | 821.8 | 815.6 | 813.6 | 815.6 |
| 45° | 10326.5 | 7754.7 | 2946.2 | 1294.1 | 963.3 | 857.2 | 821.8 | 809.4 | 796.9 | 788.6 | 788.6 |
| 47.5° | 11416.7 | 8422.6 | 3031.5 | 1273.4 | 940.5 | 842.7 | 811.5 | 799.0 | 780.3 | 761.5 | 761.5 |
| 50° | 12380.1 | 8990.6 | 3146.0 | 1281.7 | 932.1 | 821.8 | 794.8 | 788.6 | 759.4 | 738.7 | 736.5 |
| 52.5° | 13145.7 | 9427.6 | 3239.6 | 1306.7 | 940.5 | 807.3 | 774.0 | 776.1 | 744.9 | 722.0 | 720.0 |
| 55° | 13759.6 | 9714.8 | 3214.6 | 1331.7 | 959.2 | 799.0 | 755.2 | 759.4 | 734.5 | 711.6 | 711.6 |
| 57.5° | 14027.9 | 9608.6 | 2937.9 | 1310.8 | 973.7 | 801.1 | 740.7 | 757.4 | 736.5 | 715.8 | 715.8 |
| 60° | 13451.6 | 8666.0 | 2419.8 | 1219.3 | 955.0 | 794.8 | 734.5 | 765.7 | 763.6 | 742.8 | 740.7 |
| 62.5° | 11708.0 | 6978.6 | 1876.8 | 1084.0 | 890.6 | 763.6 | 717.8 | 763.6 | 786.5 | 780.3 | 778.2 |
| 65° | 9024.0 | 4970.7 | 1433.6 | 938.4 | 803.1 | 711.6 | 674.1 | 715.8 | 747.0 | 755.2 | 753.2 |
| 67.5° | 5857.1 | 3046.1 | 1104.9 | 801.1 | 705.3 | 651.2 | 618.0 | 636.7 | 642.9 | 642.9 | 638.7 |
| 70° | 2879.7 | 1639.6 | 880.1 | 674.1 | 605.5 | 586.8 | 568.0 | 557.6 | 547.2 | 538.9 | 538.9 |
| 72.5° | 1421.1 | 1071.5 | 724.0 | 570.1 | 522.2 | 513.9 | 509.7 | 497.3 | 489.0 | 478.5 | 474.4 |
| 75° | 1050.8 | 871.8 | 615.9 | 480.7 | 449.4 | 441.1 | 449.4 | 439.1 | 436.9 | 428.6 | 424.4 |
| 77.5° | 863.5 | 742.8 | 530.6 | 411.9 | 384.9 | 370.4 | 382.9 | 384.9 | 387.0 | 374.5 | 370.4 |
| 80° | 701.2 | 628.4 | 443.1 | 341.3 | 316.3 | 305.9 | 314.1 | 330.8 | 335.0 | 316.3 | 307.9 |
| 82.5° | 505.6 | 513.9 | 357.8 | 266.4 | 245.5 | 237.2 | 253.8 | 274.7 | 278.9 | 251.7 | 245.5 |
| 85° | 424.4 | 428.6 | 274.7 | 189.3 | 168.6 | 156.1 | 183.1 | 203.9 | 218.5 | 191.4 | 185.2 |
| 87.5° | 176.9 | 251.7 | 158.1 | 106.1 | 93.6 | 81.1 | 97.8 | 108.2 | 131.0 | 120.7 | 118.6 |
| 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)