

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: P191172

Luminaire Tested: **GAN-AF-04-LED-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24564.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

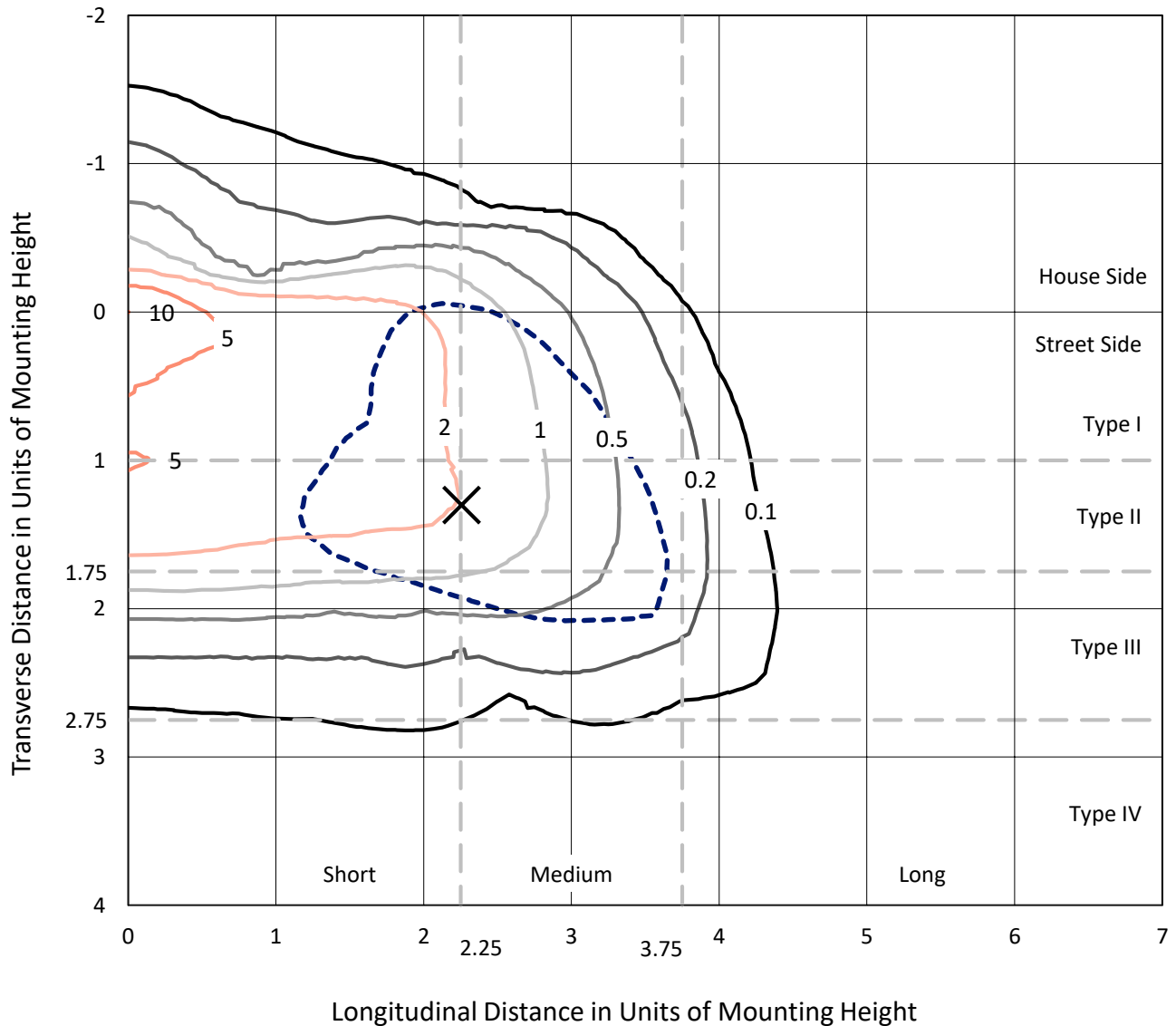
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191172
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

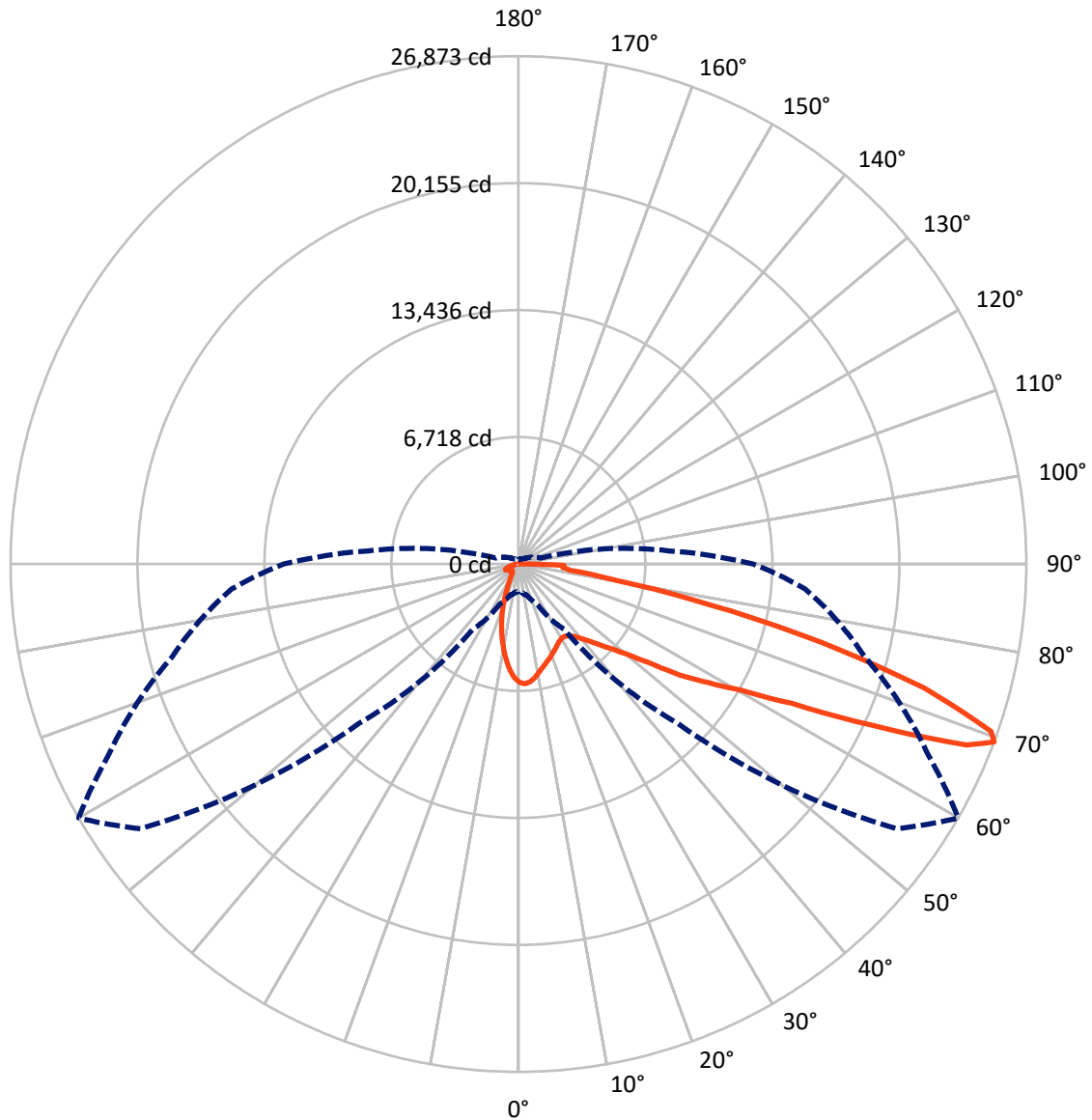


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3494.7 | 0.0 | 3494.7 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 21069.4 | 0.0 | 21069.4 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 24564.1 | 0.0 | 24564.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 529.2 | 2.2 |
| 10°-20° | 1127.6 | 4.6 |
| 20°-30° | 1436.8 | 5.8 |
| 30°-40° | 1975.2 | 8.0 |
| 40°-50° | 3204.9 | 13.0 |
| 50°-60° | 5139.9 | 20.9 |
| 60°-70° | 6840.8 | 27.8 |
| 70°-80° | 3693.5 | 15.0 |
| 80°-90° | 616.3 | 2.5 |
| 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° | 24564.1 | 100.0 |
| 0°-180° | 24564.1 | 100.0 |



REPORT NUMBER: P191172

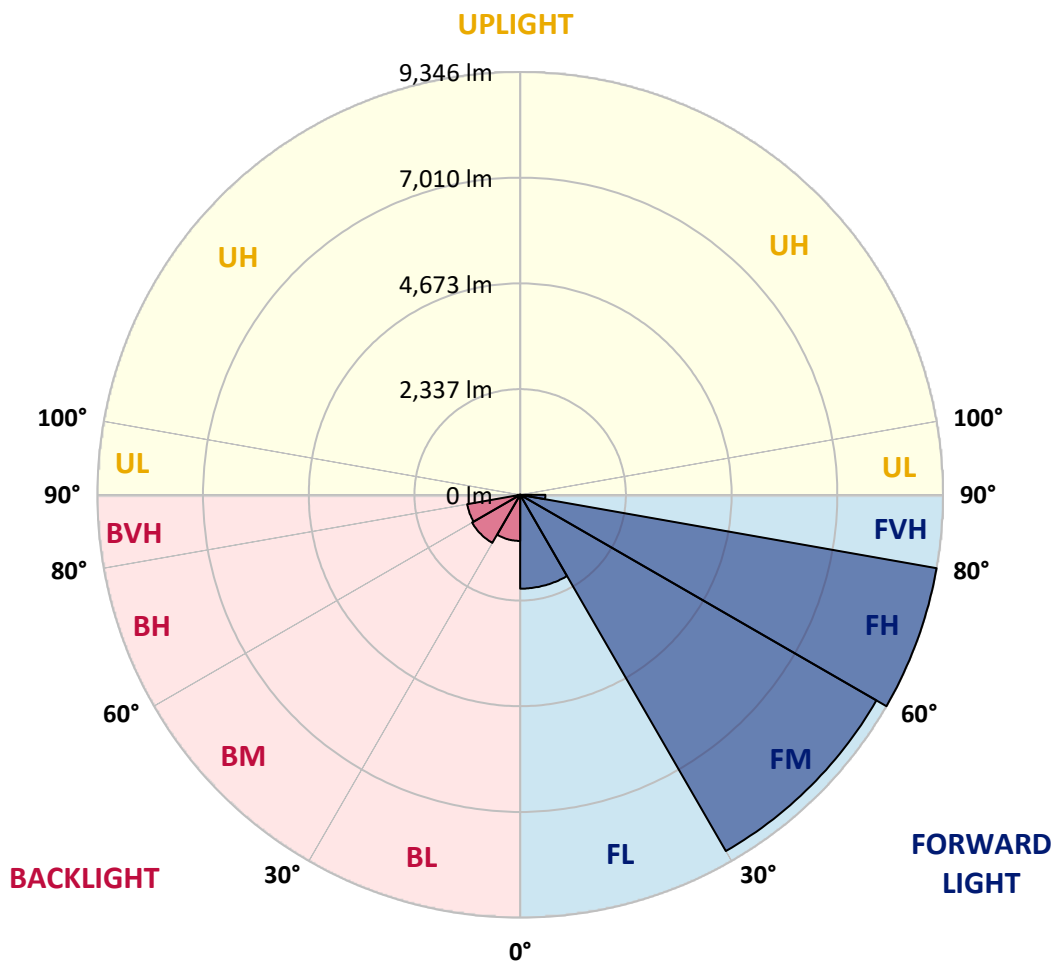
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2074.1 | 8.4 | | | |
| FM | (30°-60°) | 9092.2 | 37.0 | | | |
| FH | (60°-80°) | 9346.2 | 38.0 | | | G4/12000 |
| FVH | (80°-90°) | 556.9 | 2.3 | | | G4/750 |
| BL | (0°-30°) | 1019.5 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 1227.8 | 5.0 | B2/2500 | | |
| BH | (60°-80°) | 1188.1 | 4.8 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 59.3 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P191172

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 |
| 2.5° | 6387.5 | 6401.7 | 6395.8 | 6392.2 | 6402.9 | 6386.3 | 6351.9 | 6341.2 | 6324.6 | 6285.4 | 6218.9 |
| 5° | 6147.7 | 6190.5 | 6188.1 | 6220.2 | 6273.6 | 6287.8 | 6272.3 | 6274.8 | 6243.9 | 6195.2 | 6084.9 |
| 7.5° | 5733.6 | 5751.4 | 5761.0 | 5830.9 | 5928.2 | 6006.6 | 6073.1 | 6094.3 | 6080.1 | 6038.6 | 5896.2 |
| 10° | 5306.5 | 5320.7 | 5343.3 | 5425.1 | 5548.6 | 5656.5 | 5782.3 | 5854.7 | 5885.5 | 5878.4 | 5719.4 |
| 12.5° | 4939.8 | 4954.0 | 4983.7 | 5076.3 | 5223.4 | 5356.3 | 5539.1 | 5629.2 | 5702.7 | 5746.7 | 5575.8 |
| 15° | 4611.2 | 4641.9 | 4670.5 | 4777.3 | 4942.2 | 5116.6 | 5323.1 | 5437.0 | 5550.9 | 5649.3 | 5448.8 |
| 17.5° | 4354.8 | 4385.7 | 4402.3 | 4499.6 | 4675.2 | 4888.8 | 5130.8 | 5264.9 | 5407.3 | 5568.7 | 5323.1 |
| 20° | 4206.5 | 4220.7 | 4213.6 | 4268.2 | 4426.0 | 4652.7 | 4939.8 | 5095.2 | 5267.3 | 5492.7 | 5197.3 |
| 22.5° | 4164.9 | 4166.2 | 4140.1 | 4134.2 | 4236.1 | 4427.2 | 4735.8 | 4924.4 | 5135.6 | 5442.9 | 5089.3 |
| 25° | 4265.8 | 4262.2 | 4191.0 | 4132.9 | 4143.6 | 4255.2 | 4538.7 | 4758.3 | 5025.2 | 5432.3 | 5006.2 |
| 27.5° | 4490.1 | 4500.8 | 4395.2 | 4286.0 | 4178.0 | 4174.5 | 4389.3 | 4620.6 | 4935.0 | 5480.9 | 4970.6 |
| 30° | 4804.5 | 4822.3 | 4709.6 | 4570.7 | 4367.9 | 4200.5 | 4331.1 | 4538.7 | 4879.3 | 5581.7 | 4964.7 |
| 32.5° | 5148.6 | 5167.6 | 5082.2 | 4936.2 | 4670.5 | 4362.0 | 4371.5 | 4545.9 | 4876.9 | 5723.0 | 5005.1 |
| 35° | 5515.3 | 5536.7 | 5492.7 | 5369.4 | 5073.9 | 4659.7 | 4525.7 | 4661.0 | 4954.0 | 5938.9 | 5113.0 |
| 37.5° | 5924.7 | 5957.9 | 5969.7 | 5852.3 | 5536.7 | 5052.6 | 4778.4 | 4879.3 | 5128.5 | 6239.2 | 5311.3 |
| 40° | 6514.5 | 6560.7 | 6557.1 | 6388.6 | 6067.1 | 5583.0 | 5168.9 | 5195.0 | 5400.3 | 6640.2 | 5628.1 |
| 42.5° | 7644.1 | 7653.5 | 7358.1 | 6991.5 | 6650.9 | 6140.7 | 5629.2 | 5607.8 | 5775.2 | 7148.1 | 6094.3 |
| 45° | 9081.0 | 9041.9 | 8384.5 | 7676.1 | 7260.8 | 6781.4 | 6228.4 | 6124.0 | 6251.0 | 7767.5 | 6678.1 |
| 47.5° | 10273.6 | 10183.4 | 9352.7 | 8375.0 | 7906.3 | 7478.0 | 6932.1 | 6749.3 | 6819.4 | 8469.9 | 7432.9 |
| 50° | 10687.7 | 10620.1 | 9931.8 | 8956.4 | 8517.4 | 8327.5 | 7798.4 | 7539.7 | 7558.7 | 9307.7 | 8316.9 |
| 52.5° | 10598.7 | 10589.2 | 10130.0 | 9339.7 | 9089.3 | 9219.9 | 9025.3 | 8675.2 | 8490.1 | 10238.0 | 9270.9 |
| 55° | 10388.7 | 10408.8 | 10242.7 | 9785.9 | 9743.2 | 10081.4 | 10628.4 | 10369.7 | 9794.1 | 11176.6 | 10256.9 |
| 57.5° | 9658.9 | 9711.1 | 10076.6 | 10347.1 | 10795.7 | 11298.8 | 11919.4 | 11845.8 | 11197.9 | 12191.1 | 11429.3 |
| 60° | 7781.7 | 7902.7 | 8882.9 | 10238.0 | 11879.0 | 13452.5 | 13730.1 | 13559.3 | 12645.6 | 13450.1 | 12977.9 |
| 62.5° | 5452.4 | 5578.3 | 6743.4 | 8863.9 | 11701.0 | 15885.0 | 16967.2 | 16230.3 | 14724.6 | 15304.8 | 14982.0 |
| 65° | 2919.0 | 2979.5 | 3869.5 | 6150.2 | 9878.4 | 16387.0 | 21698.1 | 20576.9 | 18016.1 | 17591.4 | 16696.6 |
| 67.5° | 1610.2 | 1643.5 | 1984.0 | 3105.4 | 6327.0 | 14430.3 | 24712.1 | 25559.3 | 22130.1 | 19113.7 | 16384.6 |
| 69° | 1456.0 | 1486.9 | 1709.9 | 2351.9 | 4233.8 | 11931.3 | 24417.8 | 26872.9 | 23933.7 | 18963.1 | 15231.2 |
| 70° | 1423.9 | 1452.4 | 1652.9 | 2167.9 | 3426.9 | 9834.5 | 23431.8 | 26537.1 | 24363.2 | 18423.1 | 14224.9 |
| 72.5° | 1281.6 | 1312.3 | 1507.0 | 1947.2 | 2928.5 | 4903.0 | 18560.8 | 22437.4 | 22119.4 | 15974.0 | 10789.8 |
| 75° | 1194.9 | 1223.3 | 1553.2 | 1906.9 | 2803.9 | 3102.9 | 12236.2 | 16536.4 | 16260.0 | 11174.2 | 5817.9 |
| 77.5° | 511.4 | 509.0 | 720.3 | 1613.8 | 2845.4 | 3004.5 | 6574.9 | 10330.6 | 9425.2 | 4776.1 | 1670.7 |
| 80° | 341.8 | 335.8 | 341.8 | 474.6 | 2609.3 | 3021.1 | 3444.7 | 5243.5 | 3960.9 | 1217.4 | 823.5 |
| 82.5° | 294.3 | 289.5 | 300.2 | 289.5 | 917.3 | 3448.3 | 2928.5 | 2788.5 | 1883.2 | 691.8 | 408.2 |
| 85° | 198.1 | 189.9 | 258.7 | 259.8 | 433.1 | 3063.8 | 3298.7 | 2355.4 | 1523.6 | 410.6 | 201.7 |
| 87.5° | 94.9 | 92.6 | 150.7 | 183.9 | 253.9 | 1244.7 | 3701.0 | 2413.6 | 1536.7 | 210.0 | 96.2 |
| 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-04-LED-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 | 6259.3 |
| 2.5° | 6198.8 | 6150.2 | 6102.7 | 6045.7 | 5986.4 | 5919.9 | 5886.7 | 5853.5 | 5845.1 | 5835.7 | 5802.5 |
| 5° | 6027.9 | 5959.1 | 5840.4 | 5709.9 | 5572.3 | 5438.2 | 5336.1 | 5272.1 | 5223.4 | 5198.5 | 5154.5 |
| 7.5° | 5807.2 | 5706.3 | 5498.7 | 5273.2 | 5041.8 | 4830.7 | 4647.9 | 4532.8 | 4423.6 | 4372.6 | 4314.5 |
| 10° | 5597.2 | 5446.5 | 5123.8 | 4791.5 | 4459.2 | 4140.1 | 3839.9 | 3627.4 | 3438.8 | 3333.2 | 3258.4 |
| 12.5° | 5416.8 | 5210.4 | 4763.0 | 4313.3 | 3857.6 | 3403.2 | 2953.5 | 2599.8 | 2304.4 | 2148.9 | 2069.4 |
| 15° | 5241.2 | 4992.0 | 4420.1 | 3849.4 | 3264.3 | 2646.1 | 2055.2 | 1654.1 | 1409.7 | 1312.3 | 1279.2 |
| 17.5° | 5082.2 | 4763.0 | 4075.9 | 3381.8 | 2652.0 | 1904.5 | 1381.2 | 1160.5 | 1066.7 | 1034.7 | 1024.1 |
| 20° | 4910.2 | 4531.7 | 3718.8 | 2892.9 | 2013.7 | 1331.4 | 1078.6 | 981.3 | 943.4 | 933.9 | 929.1 |
| 22.5° | 4744.0 | 4303.8 | 3377.1 | 2369.7 | 1446.5 | 1027.6 | 926.7 | 886.4 | 880.5 | 888.7 | 888.7 |
| 25° | 4602.8 | 4099.7 | 3008.0 | 1822.6 | 1062.0 | 865.0 | 829.4 | 819.9 | 842.5 | 873.3 | 879.2 |
| 27.5° | 4497.2 | 3932.4 | 2615.3 | 1345.6 | 846.1 | 752.3 | 751.2 | 766.5 | 822.4 | 881.7 | 893.5 |
| 30° | 4424.9 | 3773.4 | 2195.3 | 970.7 | 709.6 | 662.2 | 681.1 | 714.3 | 796.2 | 880.5 | 903.0 |
| 32.5° | 4388.0 | 3655.9 | 1757.3 | 751.2 | 607.5 | 581.4 | 613.5 | 653.8 | 734.5 | 812.8 | 842.5 |
| 35° | 4416.5 | 3569.3 | 1344.5 | 626.6 | 536.3 | 516.2 | 549.4 | 588.5 | 636.0 | 669.2 | 691.8 |
| 37.5° | 4523.3 | 3534.9 | 1014.6 | 561.3 | 487.7 | 468.7 | 494.8 | 517.3 | 536.3 | 545.8 | 556.5 |
| 40° | 4753.6 | 3571.6 | 812.8 | 528.0 | 460.4 | 436.7 | 447.3 | 455.6 | 467.5 | 477.0 | 481.8 |
| 42.5° | 5092.9 | 3682.0 | 728.5 | 515.0 | 446.2 | 411.7 | 409.4 | 413.0 | 428.4 | 446.2 | 449.7 |
| 45° | 5567.5 | 3876.6 | 722.6 | 523.2 | 439.1 | 391.6 | 380.9 | 385.7 | 409.4 | 436.7 | 441.4 |
| 47.5° | 6173.9 | 4173.2 | 770.1 | 548.2 | 445.0 | 380.9 | 363.1 | 369.1 | 398.7 | 435.5 | 441.4 |
| 50° | 6908.4 | 4587.4 | 849.6 | 585.0 | 471.1 | 383.3 | 357.2 | 360.7 | 391.6 | 431.9 | 437.8 |
| 52.5° | 7775.8 | 5174.8 | 936.2 | 620.6 | 498.4 | 398.7 | 361.9 | 353.6 | 382.1 | 417.7 | 424.8 |
| 55° | 8740.5 | 5928.2 | 1025.2 | 652.6 | 512.6 | 417.7 | 371.4 | 344.1 | 364.3 | 393.9 | 399.9 |
| 57.5° | 9924.7 | 6981.9 | 1179.5 | 683.4 | 522.1 | 430.8 | 380.9 | 334.6 | 341.8 | 363.1 | 367.9 |
| 60° | 11527.8 | 8472.3 | 1451.3 | 734.5 | 543.5 | 435.5 | 379.7 | 326.3 | 319.2 | 331.0 | 333.5 |
| 62.5° | 13448.9 | 10090.8 | 1677.8 | 798.6 | 579.1 | 439.1 | 372.6 | 320.4 | 300.2 | 300.2 | 302.6 |
| 65° | 14589.2 | 10523.9 | 1552.0 | 852.0 | 608.8 | 435.5 | 364.3 | 314.5 | 286.0 | 272.9 | 274.2 |
| 67.5° | 13622.1 | 9255.5 | 1330.1 | 862.7 | 607.5 | 418.9 | 351.3 | 303.8 | 271.7 | 251.5 | 250.4 |
| 69° | 12410.6 | 7985.8 | 1230.5 | 834.2 | 579.1 | 397.5 | 334.6 | 292.0 | 261.1 | 239.7 | 238.6 |
| 70° | 11434.0 | 7211.0 | 1165.2 | 803.3 | 548.2 | 382.1 | 321.6 | 281.2 | 252.8 | 232.6 | 230.2 |
| 72.5° | 8313.3 | 4725.0 | 995.5 | 690.6 | 452.1 | 320.4 | 277.6 | 246.8 | 225.5 | 213.6 | 211.2 |
| 75° | 4154.3 | 2253.4 | 808.0 | 560.1 | 346.5 | 256.4 | 227.8 | 206.4 | 195.8 | 193.4 | 192.2 |
| 77.5° | 1364.6 | 1032.4 | 577.9 | 417.7 | 257.5 | 200.5 | 183.9 | 168.5 | 166.1 | 173.3 | 170.8 |
| 80° | 749.9 | 600.4 | 366.6 | 276.5 | 175.6 | 147.1 | 144.7 | 136.5 | 140.0 | 151.9 | 149.6 |
| 82.5° | 382.1 | 312.1 | 226.7 | 166.1 | 118.7 | 105.6 | 115.1 | 110.4 | 115.1 | 125.8 | 124.6 |
| 85° | 188.6 | 170.8 | 143.6 | 100.9 | 78.4 | 67.6 | 81.8 | 85.4 | 87.8 | 96.2 | 96.2 |
| 87.5° | 109.1 | 100.9 | 75.9 | 47.5 | 39.2 | 35.6 | 47.5 | 46.2 | 54.6 | 59.3 | 58.1 |
| 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)