

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: P194193

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5NQ-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30688 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

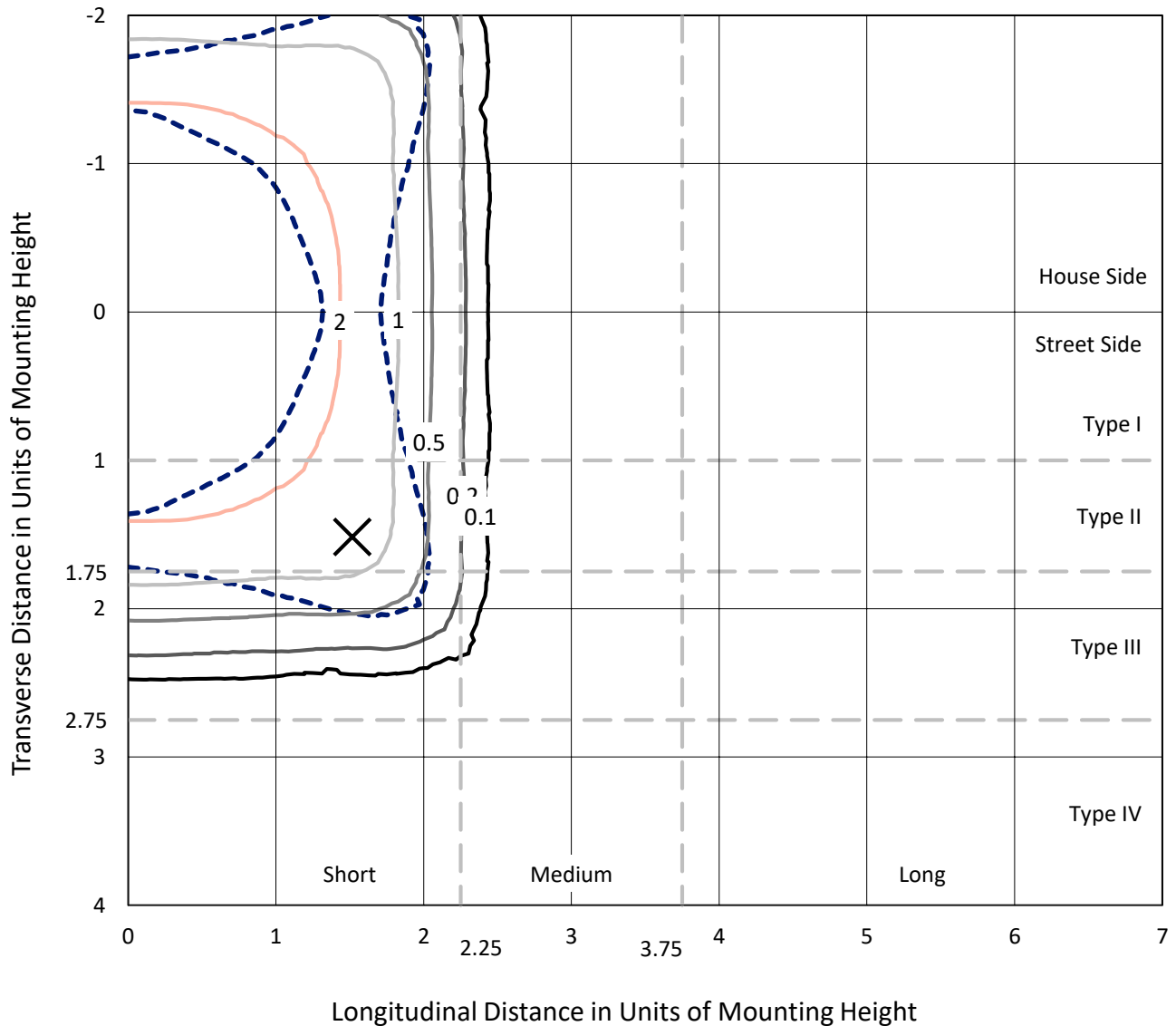
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

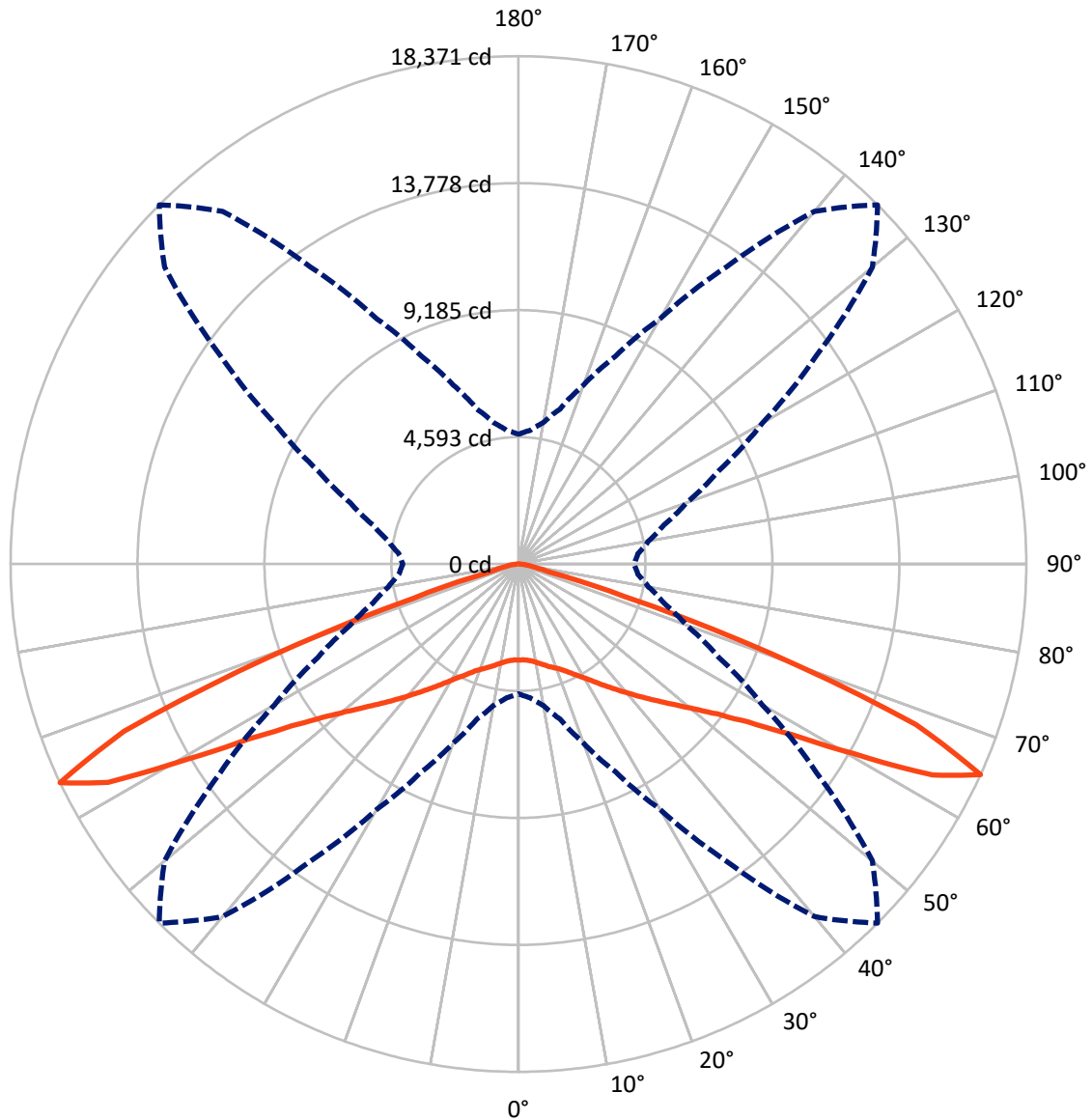
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15344.0 | 0.0 | 15344.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15344.0 | 0.0 | 15344.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30688.0 | 0.0 | 30688.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 338.4 | 1.1 |
| 10°-20° | 1085.5 | 3.5 |
| 20°-30° | 2029.6 | 6.6 |
| 30°-40° | 3432.6 | 11.2 |
| 40°-50° | 5612.7 | 18.3 |
| 50°-60° | 8925.0 | 29.1 |
| 60°-70° | 8067.6 | 26.3 |
| 70°-80° | 1021.0 | 3.3 |
| 80°-90° | 175.6 | 0.6 |
| 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° | 30688.0 | 100.0 |
| 0°-180° | 30688.0 | 100.0 |



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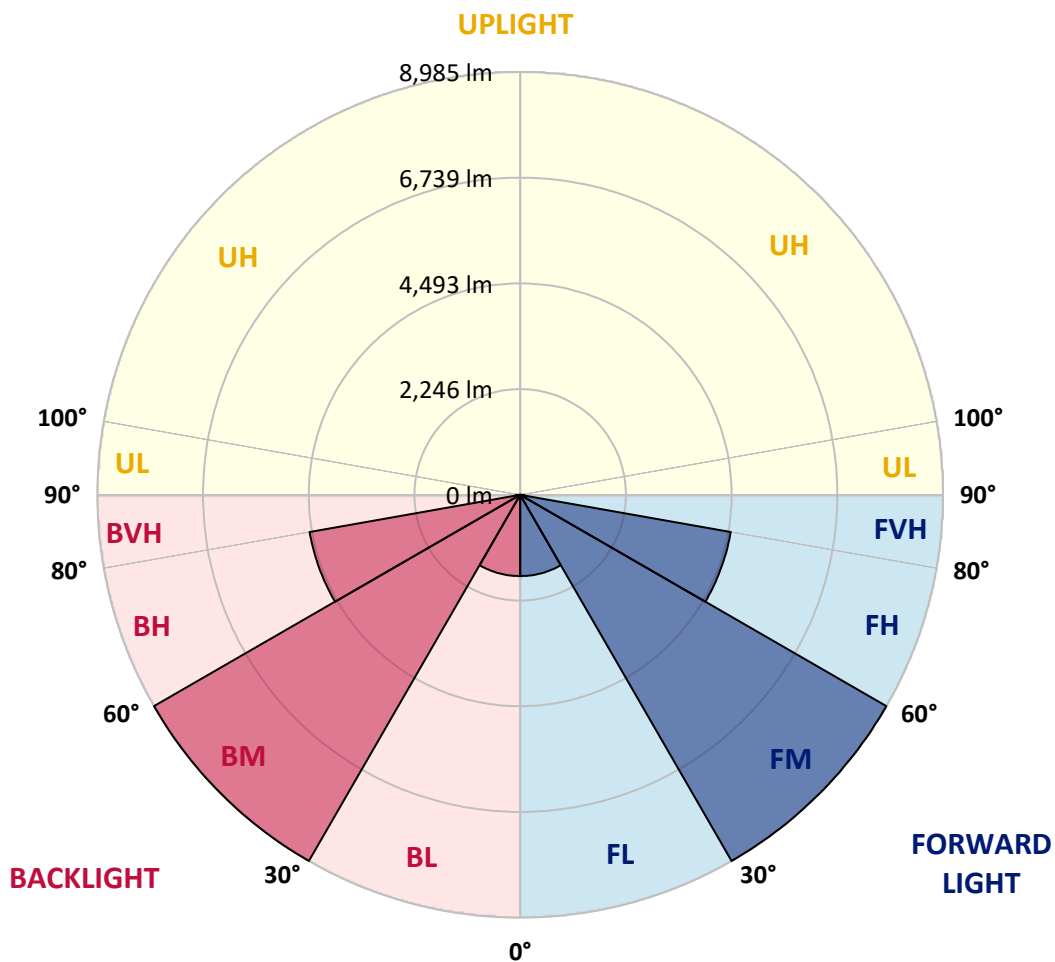
CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1726.7 | 5.6 | | | |
| FM | (30°-60°) | 8985.1 | 29.3 | | | |
| FH | (60°-80°) | 4544.3 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 87.8 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1726.7 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 8985.1 | 29.3 | B5 | | |
| BH | (60°-80°) | 4544.3 | 14.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 87.8 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 |
| 2.5° | 3475.2 | 3478.1 | 3481.0 | 3478.1 | 3481.0 | 3476.7 | 3473.8 | 3478.1 | 3473.8 | 3469.5 | 3472.4 |
| 5° | 3505.4 | 3506.9 | 3506.9 | 3502.5 | 3506.9 | 3504.0 | 3499.7 | 3505.4 | 3501.1 | 3496.8 | 3499.7 |
| 7.5° | 3555.7 | 3561.5 | 3557.2 | 3552.8 | 3555.7 | 3552.8 | 3550.0 | 3551.4 | 3550.0 | 3545.7 | 3547.1 |
| 10° | 3623.3 | 3627.6 | 3624.7 | 3623.3 | 3626.1 | 3624.7 | 3621.8 | 3620.4 | 3621.8 | 3617.5 | 3617.5 |
| 12.5° | 3705.2 | 3703.8 | 3702.3 | 3703.8 | 3708.1 | 3708.1 | 3706.6 | 3708.1 | 3710.9 | 3712.4 | 3709.5 |
| 15° | 3785.7 | 3788.6 | 3788.6 | 3788.6 | 3797.2 | 3804.4 | 3808.7 | 3811.6 | 3817.3 | 3818.7 | 3813.0 |
| 17.5° | 3886.3 | 3886.3 | 3884.9 | 3886.3 | 3894.9 | 3906.4 | 3910.7 | 3916.5 | 3922.2 | 3926.5 | 3919.3 |
| 20° | 3998.4 | 4001.3 | 4001.3 | 4004.1 | 4015.6 | 4028.6 | 4028.6 | 4031.4 | 4028.6 | 4031.4 | 4027.1 |
| 22.5° | 4134.9 | 4143.6 | 4143.6 | 4145.0 | 4156.5 | 4172.3 | 4168.0 | 4172.3 | 4165.1 | 4170.9 | 4165.1 |
| 25° | 4313.1 | 4326.1 | 4323.2 | 4323.2 | 4331.8 | 4341.9 | 4343.3 | 4352.0 | 4350.5 | 4357.7 | 4353.4 |
| 27.5° | 4514.4 | 4534.5 | 4540.2 | 4538.8 | 4544.5 | 4554.6 | 4557.5 | 4567.5 | 4561.8 | 4567.5 | 4564.7 |
| 30° | 4755.8 | 4764.4 | 4775.9 | 4780.2 | 4787.4 | 4797.5 | 4797.5 | 4798.9 | 4791.7 | 4800.4 | 4804.7 |
| 32.5° | 5005.9 | 5021.7 | 5033.2 | 5059.1 | 5072.0 | 5079.2 | 5077.8 | 5080.6 | 5073.4 | 5084.9 | 5093.6 |
| 35° | 5336.5 | 5348.0 | 5366.6 | 5386.8 | 5404.0 | 5402.6 | 5398.3 | 5399.7 | 5399.7 | 5409.8 | 5418.4 |
| 37.5° | 5734.6 | 5737.4 | 5761.9 | 5790.6 | 5799.2 | 5790.6 | 5764.8 | 5759.0 | 5746.1 | 5759.0 | 5773.4 |
| 40° | 6155.7 | 6165.7 | 6214.6 | 6233.3 | 6237.6 | 6221.8 | 6184.4 | 6162.9 | 6134.1 | 6149.9 | 6170.1 |
| 42.5° | 6596.9 | 6617.0 | 6661.6 | 6694.6 | 6709.0 | 6699.0 | 6647.2 | 6614.2 | 6576.8 | 6585.4 | 6605.5 |
| 45° | 7085.6 | 7110.0 | 7173.2 | 7204.9 | 7232.2 | 7216.4 | 7166.1 | 7115.8 | 7056.8 | 7061.1 | 7092.8 |
| 47.5° | 7631.7 | 7656.2 | 7738.1 | 7791.3 | 7805.6 | 7802.8 | 7746.7 | 7677.7 | 7597.2 | 7594.4 | 7621.7 |
| 50° | 8244.0 | 8268.4 | 8370.5 | 8452.4 | 8494.1 | 8489.8 | 8423.6 | 8325.9 | 8228.2 | 8229.6 | 8264.1 |
| 52.5° | 8841.9 | 8872.1 | 8978.4 | 9119.3 | 9201.2 | 9260.1 | 9219.9 | 9127.9 | 9008.6 | 9011.5 | 9043.1 |
| 55° | 9402.4 | 9452.7 | 9574.9 | 9766.0 | 9918.4 | 10083.7 | 10131.1 | 10128.2 | 10056.3 | 10076.5 | 10108.1 |
| 57.5° | 9674.0 | 9748.8 | 9937.1 | 10238.9 | 10549.3 | 10885.6 | 11170.2 | 11382.9 | 11473.5 | 11610.0 | 11578.4 |
| 60° | 9159.5 | 9278.8 | 9556.2 | 10000.3 | 10614.0 | 11315.4 | 12067.0 | 12801.5 | 13428.1 | 13901.0 | 13629.3 |
| 62.5° | 7499.5 | 7654.7 | 7991.0 | 8560.2 | 9488.6 | 10611.1 | 12049.8 | 13786.0 | 15677.4 | 16818.5 | 16003.6 |
| 65° | 4692.6 | 4853.5 | 5195.6 | 5805.0 | 6891.5 | 8287.1 | 10238.9 | 13116.2 | 16650.4 | 18370.8 | 16712.2 |
| 67.5° | 1829.6 | 1917.3 | 2102.7 | 2492.2 | 3308.5 | 4550.3 | 6509.2 | 9774.6 | 14001.6 | 15509.2 | 13741.4 |
| 70° | 917.0 | 925.6 | 960.1 | 1031.9 | 1207.3 | 1568.0 | 2385.8 | 4531.6 | 8029.8 | 9698.5 | 7741.0 |
| 72.5° | 662.6 | 664.0 | 681.3 | 712.9 | 768.9 | 849.4 | 1004.6 | 1386.9 | 2611.5 | 3991.2 | 2447.6 |
| 75° | 507.3 | 513.1 | 523.2 | 540.4 | 570.6 | 610.8 | 666.9 | 799.1 | 990.3 | 1148.4 | 965.8 |
| 77.5° | 390.9 | 402.4 | 409.6 | 425.4 | 444.1 | 471.4 | 487.2 | 537.5 | 625.2 | 658.3 | 648.2 |
| 80° | 297.5 | 307.6 | 323.4 | 336.3 | 349.2 | 362.2 | 356.4 | 379.4 | 425.4 | 452.7 | 438.4 |
| 82.5° | 189.7 | 201.2 | 247.2 | 258.7 | 264.5 | 273.1 | 263.0 | 264.5 | 284.6 | 301.8 | 284.6 |
| 85° | 122.2 | 129.4 | 156.7 | 171.0 | 172.5 | 178.2 | 173.9 | 163.8 | 163.8 | 149.5 | 168.2 |
| 87.5° | 56.1 | 57.5 | 70.4 | 83.4 | 86.2 | 77.6 | 76.2 | 73.3 | 58.9 | 56.1 | 60.4 |
| 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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CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 | 3472.4 |
| 2.5° | 3470.9 | 3473.8 | 3475.2 | 3479.5 | 3481.0 | 3481.0 | 3482.4 | 3485.3 |
| 5° | 3498.2 | 3502.5 | 3504.0 | 3509.7 | 3511.2 | 3509.7 | 3512.6 | 3514.0 |
| 7.5° | 3547.1 | 3554.3 | 3557.2 | 3562.9 | 3558.6 | 3564.3 | 3565.8 | 3565.8 |
| 10° | 3619.0 | 3626.1 | 3627.6 | 3633.3 | 3630.5 | 3633.3 | 3633.3 | 3630.5 |
| 12.5° | 3713.8 | 3715.3 | 3710.9 | 3715.3 | 3709.5 | 3712.4 | 3708.1 | 3705.2 |
| 15° | 3818.7 | 3814.4 | 3804.4 | 3804.4 | 3795.7 | 3797.2 | 3795.7 | 3794.3 |
| 17.5° | 3920.8 | 3912.2 | 3905.0 | 3902.1 | 3894.9 | 3893.5 | 3889.2 | 3889.2 |
| 20° | 4032.9 | 4028.6 | 4024.3 | 4018.5 | 4011.3 | 4004.1 | 4002.7 | 4005.6 |
| 22.5° | 4168.0 | 4166.5 | 4166.5 | 4163.7 | 4153.6 | 4146.4 | 4142.1 | 4142.1 |
| 25° | 4349.1 | 4336.1 | 4336.1 | 4334.7 | 4330.4 | 4326.1 | 4317.5 | 4321.8 |
| 27.5° | 4553.2 | 4546.0 | 4551.7 | 4550.3 | 4546.0 | 4546.0 | 4540.2 | 4540.2 |
| 30° | 4804.7 | 4801.8 | 4810.4 | 4803.2 | 4788.9 | 4787.4 | 4781.7 | 4774.5 |
| 32.5° | 5095.0 | 5092.1 | 5105.1 | 5096.4 | 5073.4 | 5060.5 | 5049.0 | 5043.3 |
| 35° | 5418.4 | 5419.8 | 5435.6 | 5429.9 | 5404.0 | 5395.4 | 5375.3 | 5372.4 |
| 37.5° | 5771.9 | 5794.9 | 5822.2 | 5828.0 | 5806.4 | 5800.7 | 5779.1 | 5767.6 |
| 40° | 6187.3 | 6217.5 | 6259.2 | 6269.2 | 6246.2 | 6241.9 | 6211.7 | 6195.9 |
| 42.5° | 6630.0 | 6681.7 | 6733.5 | 6742.1 | 6719.1 | 6696.1 | 6667.3 | 6655.8 |
| 45° | 7124.4 | 7186.2 | 7253.7 | 7271.0 | 7236.5 | 7209.2 | 7171.8 | 7171.8 |
| 47.5° | 7679.2 | 7756.8 | 7832.9 | 7880.4 | 7848.7 | 7820.0 | 7775.5 | 7746.7 |
| 50° | 8334.5 | 8440.9 | 8540.1 | 8588.9 | 8538.6 | 8484.0 | 8406.4 | 8380.5 |
| 52.5° | 9156.6 | 9271.6 | 9357.8 | 9332.0 | 9254.4 | 9178.2 | 9093.4 | 9058.9 |
| 55° | 10205.8 | 10244.6 | 10244.6 | 10146.9 | 9991.7 | 9863.8 | 9730.1 | 9685.5 |
| 57.5° | 11518.0 | 11368.5 | 11138.6 | 10846.8 | 10480.3 | 10161.3 | 9945.7 | 9843.6 |
| 60° | 13060.2 | 12341.6 | 11529.5 | 10731.8 | 10076.5 | 9536.1 | 9215.6 | 9069.0 |
| 62.5° | 14087.8 | 12207.9 | 10580.9 | 9300.4 | 8357.5 | 7706.5 | 7263.8 | 7091.3 |
| 65° | 13166.5 | 10181.4 | 8002.5 | 6470.4 | 5442.8 | 4780.2 | 4341.9 | 4180.9 |
| 67.5° | 9643.9 | 6379.9 | 4261.4 | 3054.1 | 2237.8 | 1785.0 | 1605.4 | 1530.7 |
| 70° | 4329.0 | 2246.4 | 1376.9 | 1075.1 | 927.0 | 850.8 | 817.8 | 806.3 |
| 72.5° | 1305.0 | 944.3 | 796.2 | 718.6 | 659.7 | 622.3 | 595.0 | 592.1 |
| 75° | 787.6 | 655.4 | 582.1 | 536.1 | 498.7 | 468.5 | 454.2 | 449.9 |
| 77.5° | 550.5 | 481.5 | 447.0 | 413.9 | 385.2 | 362.2 | 349.2 | 339.2 |
| 80° | 386.6 | 353.6 | 337.8 | 319.1 | 300.4 | 278.8 | 260.1 | 251.5 |
| 82.5° | 258.7 | 251.5 | 251.5 | 240.0 | 224.2 | 204.1 | 166.7 | 158.1 |
| 85° | 166.7 | 165.3 | 168.2 | 163.8 | 152.3 | 130.8 | 107.8 | 102.0 |
| 87.5° | 77.6 | 79.0 | 87.7 | 86.2 | 83.4 | 69.0 | 54.6 | 51.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)