

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: P192575

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192575
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-07-LED-U-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27674.3 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 226
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

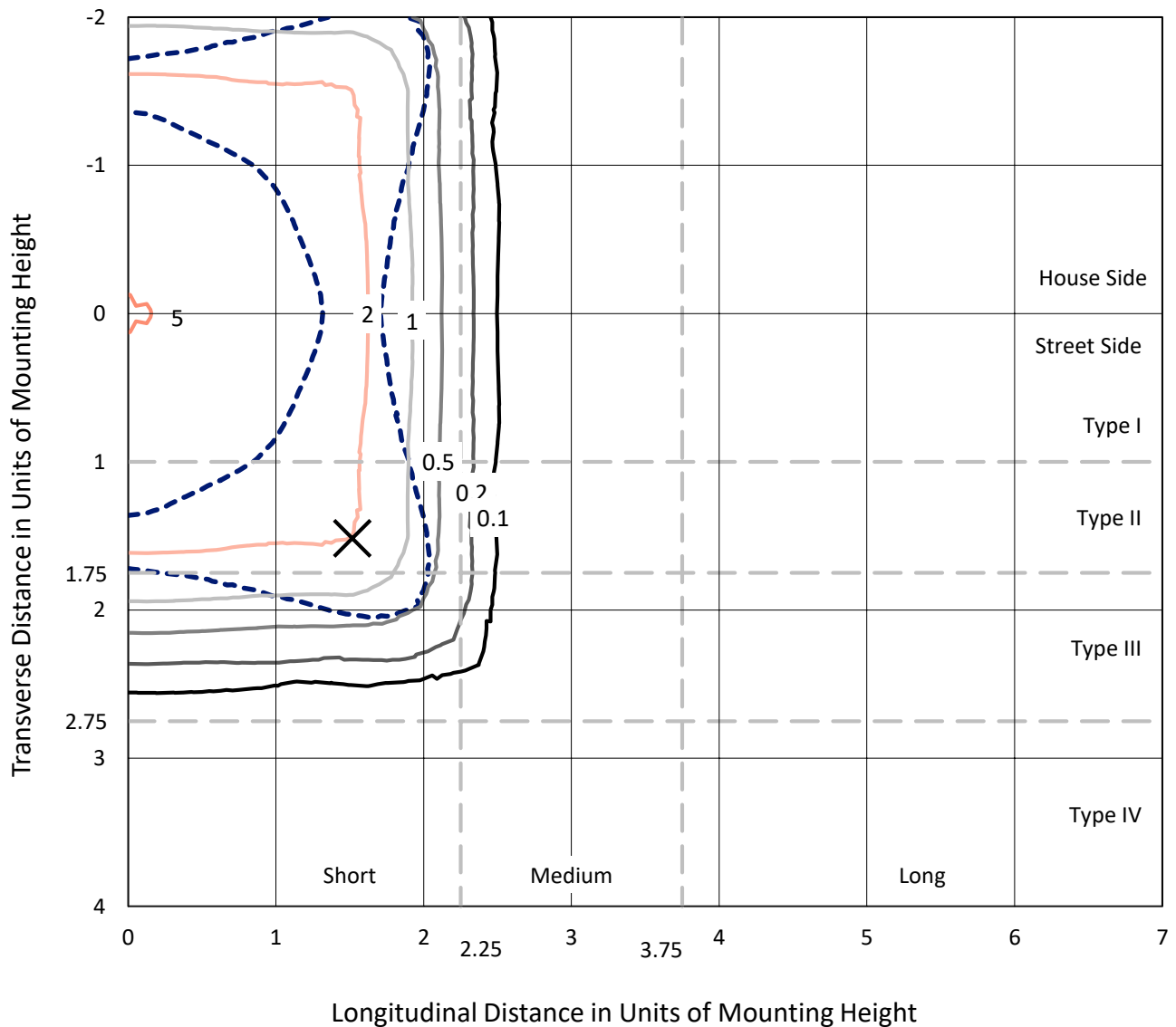


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

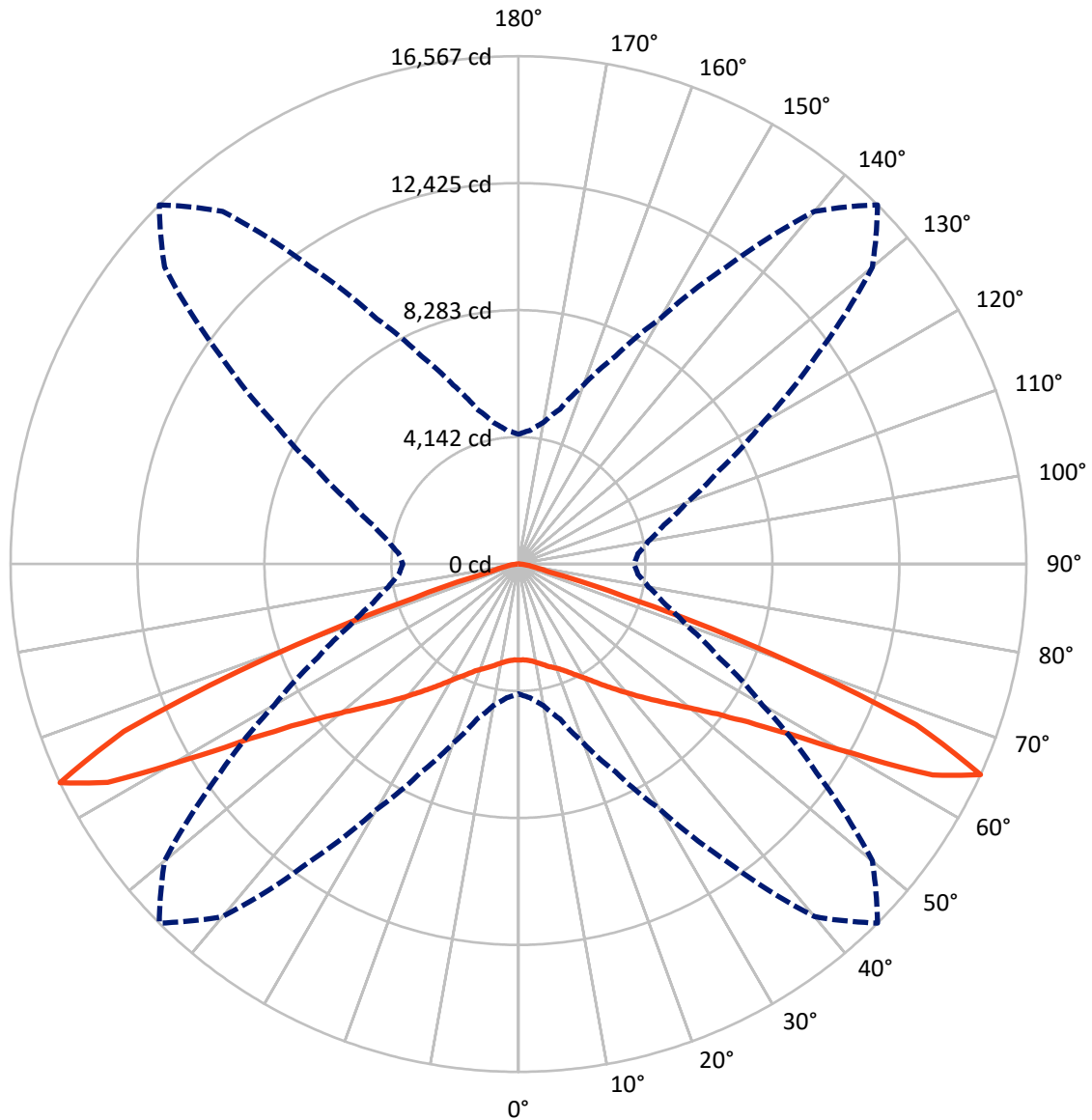


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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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 | 13837.1 | 0.0 | 13837.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13837.1 | 0.0 | 13837.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27674.3 | 0.0 | 27674.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 305.2 | 1.1 |
| 10°-20° | 978.8 | 3.5 |
| 20°-30° | 1830.3 | 6.6 |
| 30°-40° | 3095.5 | 11.2 |
| 40°-50° | 5061.5 | 18.3 |
| 50°-60° | 8048.5 | 29.1 |
| 60°-70° | 7275.3 | 26.3 |
| 70°-80° | 920.7 | 3.3 |
| 80°-90° | 158.4 | 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° | 27674.3 | 100.0 |
| 0°-180° | 27674.3 | 100.0 |

Coefficient of Utilization



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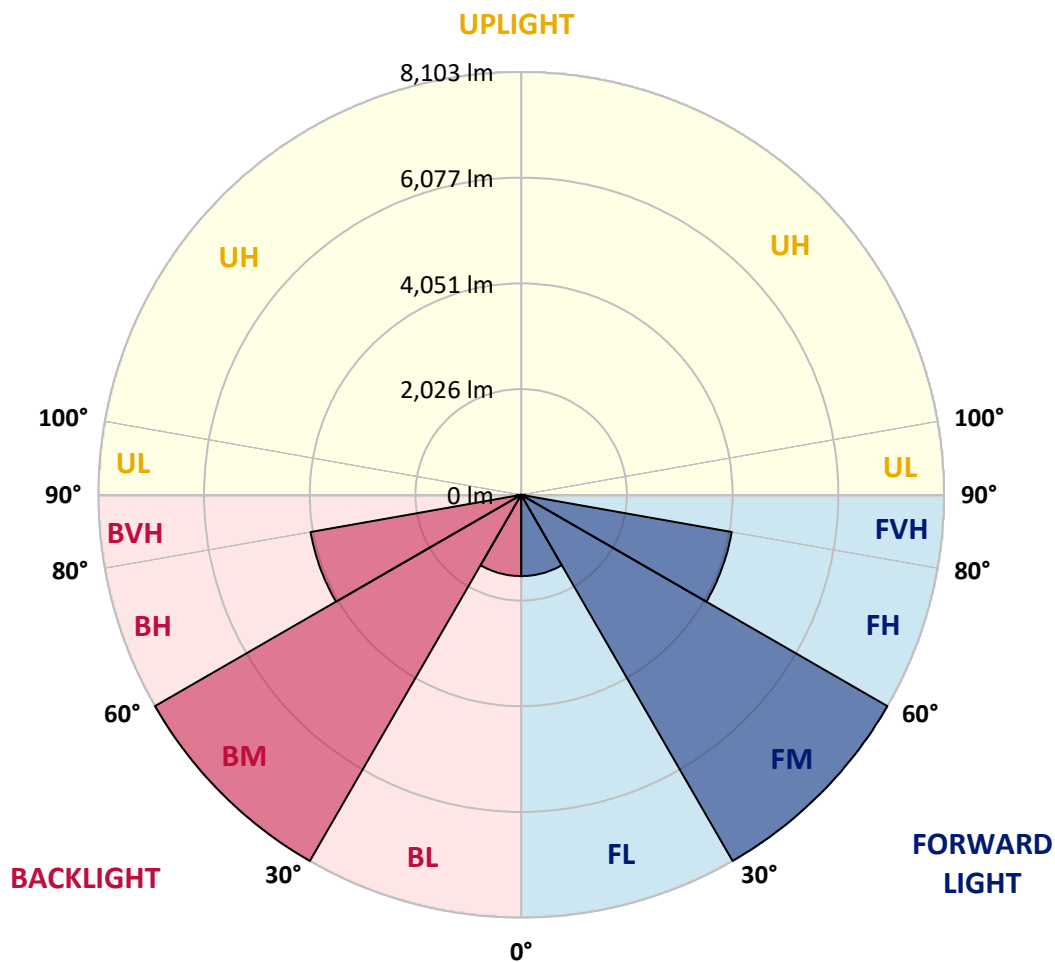
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1557.2 | 5.6 | | | |
| FM | (30°-60°) | 8102.7 | 29.3 | | | |
| FH | (60°-80°) | 4098.0 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 79.2 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1557.2 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 8102.7 | 29.3 | B4/8500 | | |
| BH | (60°-80°) | 4098.0 | 14.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 79.2 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 |
| 2.5° | 3134.0 | 3136.5 | 3139.1 | 3136.5 | 3139.1 | 3135.2 | 3132.7 | 3136.5 | 3132.7 | 3128.7 | 3131.4 |
| 5° | 3161.2 | 3162.5 | 3162.5 | 3158.5 | 3162.5 | 3159.9 | 3156.0 | 3161.2 | 3157.3 | 3153.4 | 3156.0 |
| 7.5° | 3206.5 | 3211.6 | 3207.9 | 3203.9 | 3206.5 | 3203.9 | 3201.3 | 3202.6 | 3201.3 | 3197.5 | 3198.8 |
| 10° | 3267.4 | 3271.3 | 3268.7 | 3267.4 | 3270.0 | 3268.7 | 3266.2 | 3264.8 | 3266.2 | 3262.3 | 3262.3 |
| 12.5° | 3341.3 | 3340.0 | 3338.8 | 3340.0 | 3343.9 | 3343.9 | 3342.6 | 3343.9 | 3346.5 | 3347.8 | 3345.2 |
| 15° | 3414.0 | 3416.5 | 3416.5 | 3416.5 | 3424.3 | 3430.7 | 3434.7 | 3437.2 | 3442.4 | 3443.8 | 3438.5 |
| 17.5° | 3504.6 | 3504.6 | 3503.3 | 3504.6 | 3512.3 | 3522.7 | 3526.7 | 3531.8 | 3537.0 | 3540.9 | 3534.4 |
| 20° | 3605.8 | 3608.3 | 3608.3 | 3610.9 | 3621.3 | 3633.0 | 3633.0 | 3635.5 | 3633.0 | 3635.5 | 3631.7 |
| 22.5° | 3728.9 | 3736.6 | 3736.6 | 3738.0 | 3748.2 | 3762.6 | 3758.6 | 3762.6 | 3756.2 | 3761.2 | 3756.2 |
| 25° | 3889.5 | 3901.2 | 3898.7 | 3898.7 | 3906.4 | 3915.6 | 3916.8 | 3924.6 | 3923.3 | 3929.7 | 3925.9 |
| 27.5° | 4071.0 | 4089.1 | 4094.4 | 4093.1 | 4098.2 | 4107.3 | 4109.9 | 4119.0 | 4113.8 | 4119.0 | 4116.4 |
| 30° | 4288.8 | 4296.5 | 4306.9 | 4310.9 | 4317.3 | 4326.3 | 4326.3 | 4327.6 | 4321.2 | 4329.0 | 4332.7 |
| 32.5° | 4514.3 | 4528.6 | 4538.9 | 4562.2 | 4573.9 | 4580.3 | 4579.0 | 4581.7 | 4575.2 | 4585.6 | 4593.4 |
| 35° | 4812.5 | 4822.8 | 4839.6 | 4857.7 | 4873.3 | 4872.0 | 4868.1 | 4869.4 | 4869.4 | 4878.5 | 4886.3 |
| 37.5° | 5171.5 | 5174.0 | 5196.1 | 5221.9 | 5229.7 | 5221.9 | 5198.7 | 5193.4 | 5181.7 | 5193.4 | 5206.4 |
| 40° | 5551.1 | 5560.2 | 5604.4 | 5621.2 | 5625.0 | 5610.8 | 5577.1 | 5557.7 | 5531.7 | 5546.0 | 5564.1 |
| 42.5° | 5949.0 | 5967.2 | 6007.4 | 6037.2 | 6050.1 | 6041.1 | 5994.4 | 5964.6 | 5930.9 | 5938.7 | 5956.9 |
| 45° | 6389.7 | 6411.8 | 6468.8 | 6497.3 | 6521.9 | 6507.7 | 6462.3 | 6416.9 | 6363.8 | 6367.7 | 6396.2 |
| 47.5° | 6882.2 | 6904.3 | 6978.2 | 7026.1 | 7039.0 | 7036.6 | 6985.9 | 6923.8 | 6851.1 | 6848.6 | 6873.2 |
| 50° | 7434.4 | 7456.4 | 7548.4 | 7622.4 | 7659.9 | 7656.1 | 7596.4 | 7508.3 | 7420.2 | 7421.4 | 7452.6 |
| 52.5° | 7973.5 | 8000.7 | 8096.6 | 8223.7 | 8297.5 | 8350.6 | 8314.4 | 8231.5 | 8123.9 | 8126.4 | 8155.0 |
| 55° | 8479.1 | 8524.4 | 8634.5 | 8807.0 | 8944.3 | 9093.4 | 9136.1 | 9133.5 | 9068.7 | 9086.9 | 9115.4 |
| 57.5° | 8724.1 | 8791.4 | 8961.2 | 9233.4 | 9513.3 | 9816.6 | 10073.2 | 10265.0 | 10346.8 | 10469.9 | 10441.4 |
| 60° | 8260.0 | 8367.6 | 8617.8 | 9018.3 | 9571.6 | 10204.2 | 10882.0 | 11544.4 | 12109.4 | 12535.8 | 12290.8 |
| 62.5° | 6763.0 | 6903.0 | 7206.3 | 7719.5 | 8556.7 | 9569.0 | 10866.5 | 12432.1 | 14137.8 | 15166.9 | 14431.9 |
| 65° | 4231.7 | 4376.9 | 4685.4 | 5234.9 | 6214.7 | 7473.3 | 9233.4 | 11828.2 | 15015.3 | 16566.7 | 15071.0 |
| 67.5° | 1650.0 | 1729.0 | 1896.2 | 2247.5 | 2983.7 | 4103.4 | 5870.0 | 8814.7 | 12626.5 | 13986.2 | 12391.9 |
| 70° | 826.9 | 834.6 | 865.8 | 930.6 | 1088.8 | 1414.1 | 2151.6 | 4086.7 | 7241.2 | 8745.9 | 6980.8 |
| 72.5° | 597.5 | 598.7 | 614.4 | 642.9 | 693.4 | 766.0 | 906.0 | 1250.7 | 2355.0 | 3599.2 | 2207.2 |
| 75° | 457.5 | 462.7 | 471.8 | 487.3 | 514.5 | 550.8 | 601.4 | 720.7 | 892.9 | 1035.6 | 871.1 |
| 77.5° | 352.6 | 363.0 | 369.4 | 383.6 | 400.6 | 425.1 | 439.3 | 484.8 | 563.8 | 593.6 | 584.5 |
| 80° | 268.3 | 277.4 | 291.6 | 303.3 | 315.0 | 326.5 | 321.4 | 342.2 | 383.6 | 408.3 | 395.3 |
| 82.5° | 171.1 | 181.5 | 222.9 | 233.3 | 238.5 | 246.3 | 237.2 | 238.5 | 256.6 | 272.2 | 256.6 |
| 85° | 110.2 | 116.7 | 141.3 | 154.3 | 155.5 | 160.7 | 156.8 | 147.7 | 147.7 | 134.8 | 151.7 |
| 87.5° | 50.6 | 51.9 | 63.5 | 75.2 | 77.8 | 70.0 | 68.8 | 66.1 | 53.1 | 50.6 | 54.4 |
| 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-07-LED-U-5NQ-7030-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 | 3131.4 |
| 2.5° | 3130.1 | 3132.7 | 3134.0 | 3137.8 | 3139.1 | 3139.1 | 3140.4 | 3143.1 |
| 5° | 3154.7 | 3158.5 | 3159.9 | 3165.0 | 3166.4 | 3165.0 | 3167.7 | 3168.9 |
| 7.5° | 3198.8 | 3205.2 | 3207.9 | 3213.0 | 3209.2 | 3214.3 | 3215.6 | 3215.6 |
| 10° | 3263.6 | 3270.0 | 3271.3 | 3276.5 | 3274.0 | 3276.5 | 3276.5 | 3274.0 |
| 12.5° | 3349.2 | 3350.4 | 3346.5 | 3350.4 | 3345.2 | 3347.8 | 3343.9 | 3341.3 |
| 15° | 3443.8 | 3439.8 | 3430.7 | 3430.7 | 3423.0 | 3424.3 | 3423.0 | 3421.7 |
| 17.5° | 3535.7 | 3528.0 | 3521.5 | 3518.9 | 3512.3 | 3511.1 | 3507.2 | 3507.2 |
| 20° | 3636.8 | 3633.0 | 3629.0 | 3623.9 | 3617.3 | 3610.9 | 3609.6 | 3612.2 |
| 22.5° | 3758.6 | 3757.4 | 3757.4 | 3754.8 | 3745.7 | 3739.2 | 3735.3 | 3735.3 |
| 25° | 3922.0 | 3910.3 | 3910.3 | 3909.0 | 3905.2 | 3901.2 | 3893.5 | 3897.4 |
| 27.5° | 4106.1 | 4099.5 | 4104.8 | 4103.4 | 4099.5 | 4099.5 | 4094.4 | 4094.4 |
| 30° | 4332.7 | 4330.3 | 4338.0 | 4331.6 | 4318.6 | 4317.3 | 4312.1 | 4305.6 |
| 32.5° | 4594.7 | 4592.0 | 4603.7 | 4596.0 | 4575.2 | 4563.5 | 4553.2 | 4548.0 |
| 35° | 4886.3 | 4887.6 | 4901.8 | 4896.7 | 4873.3 | 4865.6 | 4847.4 | 4844.8 |
| 37.5° | 5205.1 | 5225.9 | 5250.5 | 5255.7 | 5236.2 | 5231.0 | 5211.5 | 5201.2 |
| 40° | 5579.7 | 5606.8 | 5644.5 | 5653.5 | 5632.9 | 5628.9 | 5601.7 | 5587.4 |
| 42.5° | 5978.8 | 6025.5 | 6072.2 | 6079.9 | 6059.2 | 6038.5 | 6012.5 | 6002.1 |
| 45° | 6424.8 | 6480.5 | 6541.4 | 6556.9 | 6525.8 | 6501.3 | 6467.5 | 6467.5 |
| 47.5° | 6925.1 | 6995.0 | 7063.7 | 7106.4 | 7078.0 | 7052.0 | 7011.8 | 6985.9 |
| 50° | 7516.1 | 7612.0 | 7701.3 | 7745.5 | 7700.0 | 7650.9 | 7580.9 | 7557.5 |
| 52.5° | 8257.4 | 8361.1 | 8438.8 | 8415.4 | 8345.6 | 8276.8 | 8200.4 | 8169.4 |
| 55° | 9203.6 | 9238.5 | 9238.5 | 9150.5 | 9010.4 | 8895.2 | 8774.5 | 8734.4 |
| 57.5° | 10386.8 | 10252.2 | 10044.8 | 9781.7 | 9451.2 | 9163.3 | 8969.0 | 8877.0 |
| 60° | 11777.6 | 11129.5 | 10397.2 | 9677.9 | 9086.9 | 8599.6 | 8310.6 | 8178.4 |
| 62.5° | 12704.3 | 11009.0 | 9541.8 | 8387.1 | 7536.8 | 6949.7 | 6550.4 | 6395.0 |
| 65° | 11873.5 | 9181.5 | 7216.7 | 5835.0 | 4908.3 | 4310.9 | 3915.6 | 3770.3 |
| 67.5° | 8696.8 | 5753.4 | 3842.8 | 2754.2 | 2018.0 | 1609.7 | 1447.6 | 1380.4 |
| 70° | 3903.9 | 2025.7 | 1241.6 | 969.4 | 836.0 | 767.3 | 737.5 | 727.1 |
| 72.5° | 1176.8 | 851.5 | 718.1 | 648.0 | 594.9 | 561.1 | 536.6 | 533.9 |
| 75° | 710.3 | 591.0 | 524.9 | 483.5 | 449.7 | 422.5 | 409.6 | 405.7 |
| 77.5° | 496.4 | 434.2 | 403.0 | 373.2 | 347.3 | 326.5 | 315.0 | 305.9 |
| 80° | 348.6 | 318.8 | 304.7 | 287.7 | 270.9 | 251.4 | 234.6 | 226.8 |
| 82.5° | 233.3 | 226.8 | 226.8 | 216.5 | 202.2 | 184.0 | 150.3 | 142.6 |
| 85° | 150.3 | 149.0 | 151.7 | 147.7 | 137.3 | 117.9 | 97.2 | 92.0 |
| 87.5° | 70.0 | 71.2 | 79.1 | 77.8 | 75.2 | 62.2 | 49.2 | 46.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)