

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: P192593

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192593
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 29680.3 lumens
Efficiency: N/A
Efficacy: 106.4 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

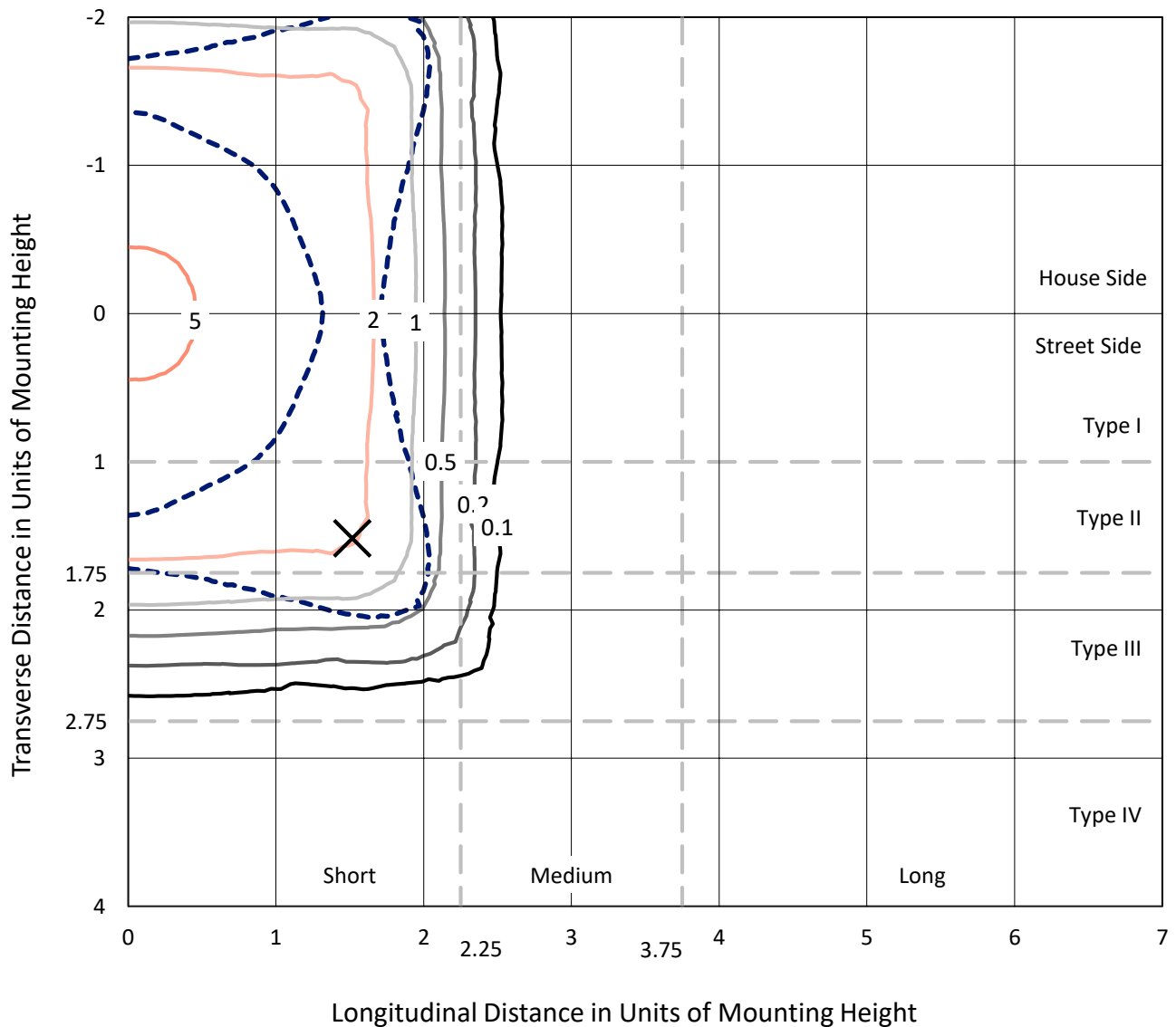
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

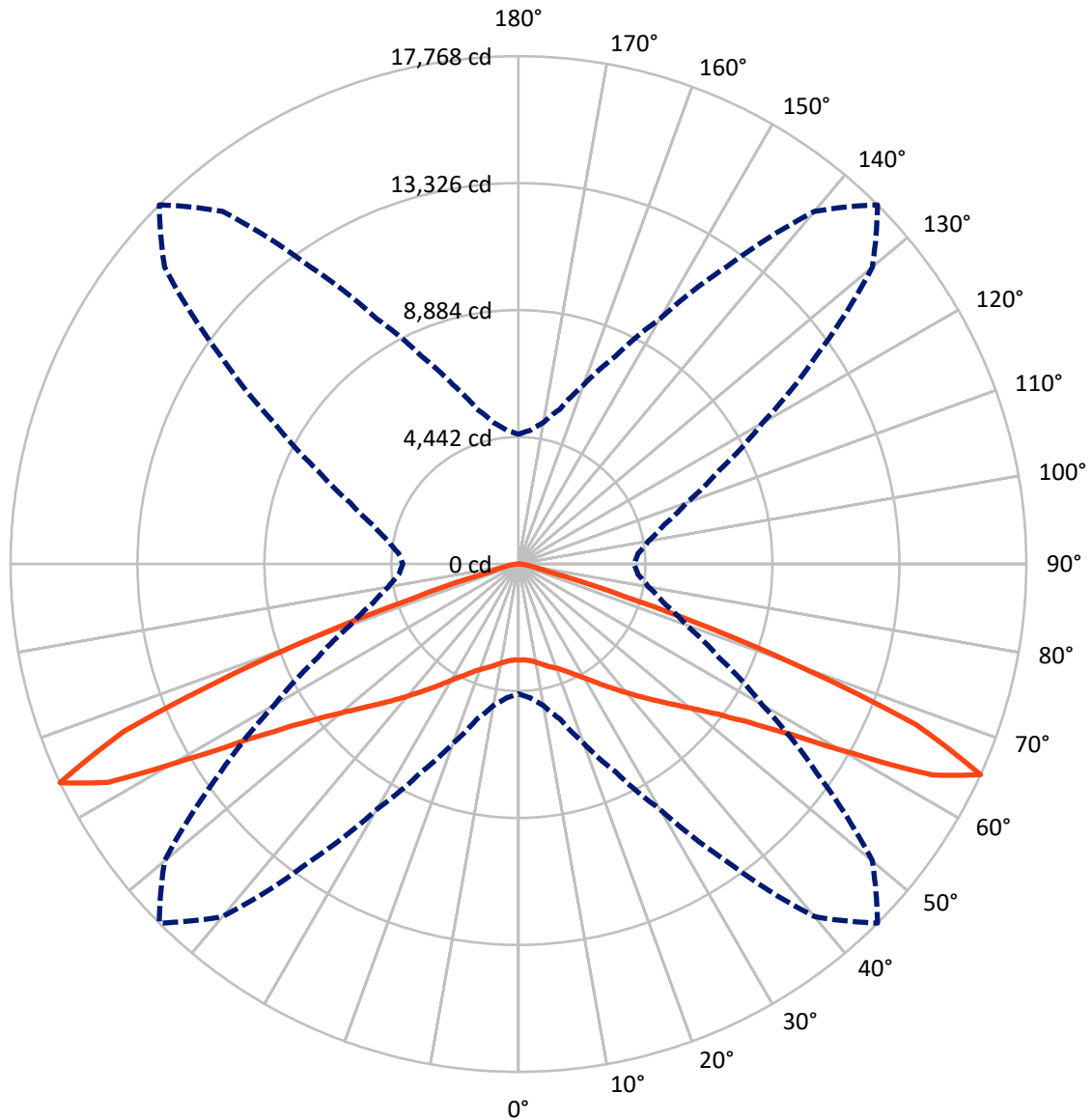
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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 | 14840.1 | 0.0 | 14840.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14840.1 | 0.0 | 14840.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29680.3 | 0.0 | 29680.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 327.3 | 1.1 |
| 10°-20° | 1049.8 | 3.5 |
| 20°-30° | 1962.9 | 6.6 |
| 30°-40° | 3319.9 | 11.2 |
| 40°-50° | 5428.4 | 18.3 |
| 50°-60° | 8631.9 | 29.1 |
| 60°-70° | 7802.7 | 26.3 |
| 70°-80° | 987.5 | 3.3 |
| 80°-90° | 169.9 | 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° | 29680.3 | 100.0 |
| 0°-180° | 29680.3 | 100.0 |

Coefficient of Utilization



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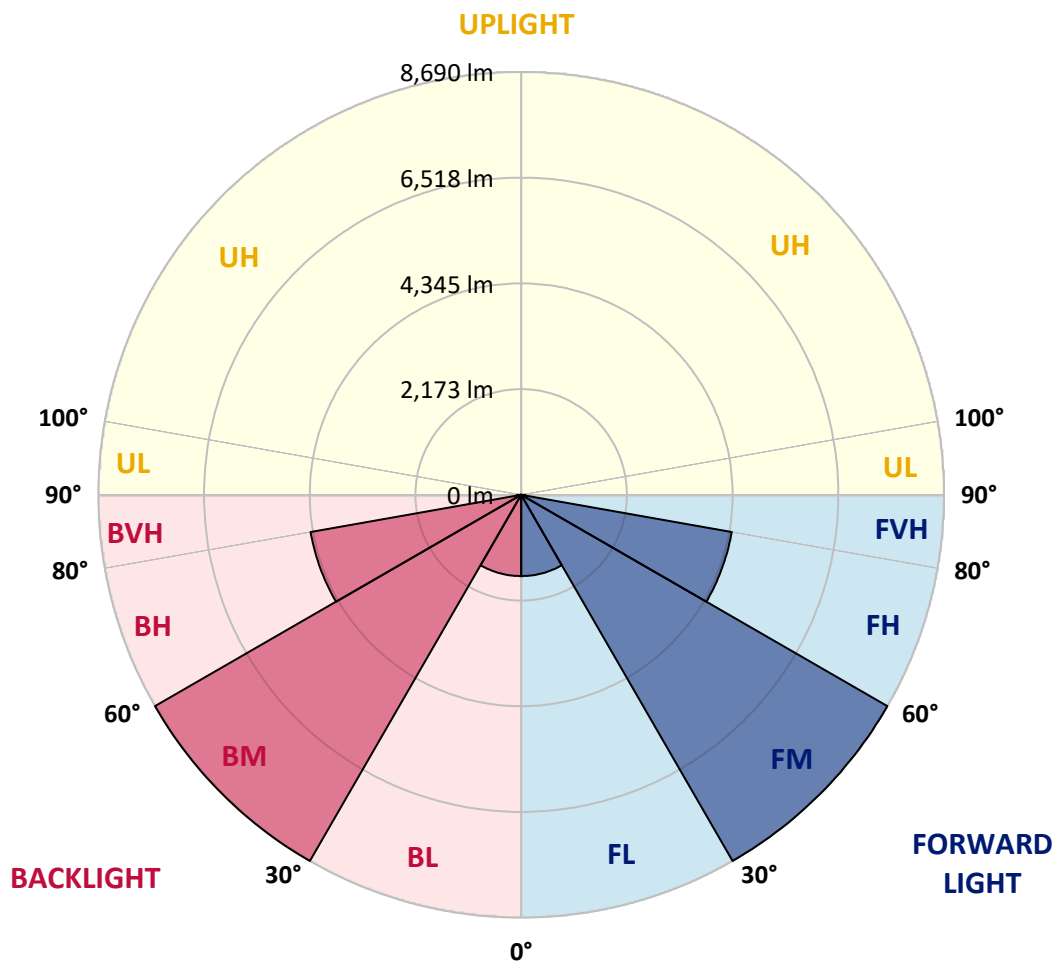
CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1670.0 | 5.6 | | | |
| FM | (30°-60°) | 8690.1 | 29.3 | | | |
| FH | (60°-80°) | 4395.1 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 84.9 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1670.0 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 8690.1 | 29.3 | B5 | | |
| BH | (60°-80°) | 4395.1 | 14.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 84.9 | 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° | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 |
| 2.5° | 3361.2 | 3363.9 | 3366.8 | 3363.9 | 3366.8 | 3362.6 | 3359.7 | 3363.9 | 3359.7 | 3355.6 | 3358.3 |
| 5° | 3390.4 | 3391.7 | 3391.7 | 3387.6 | 3391.7 | 3388.9 | 3384.8 | 3390.4 | 3386.2 | 3382.0 | 3384.8 |
| 7.5° | 3438.9 | 3444.5 | 3440.3 | 3436.2 | 3438.9 | 3436.2 | 3433.4 | 3434.8 | 3433.4 | 3429.2 | 3430.6 |
| 10° | 3504.3 | 3508.5 | 3505.7 | 3504.3 | 3507.1 | 3505.7 | 3502.9 | 3501.5 | 3502.9 | 3498.7 | 3498.7 |
| 12.5° | 3583.4 | 3582.2 | 3580.8 | 3582.2 | 3586.3 | 3586.3 | 3584.9 | 3586.3 | 3589.0 | 3590.5 | 3587.7 |
| 15° | 3661.4 | 3664.1 | 3664.1 | 3664.1 | 3672.5 | 3679.5 | 3683.5 | 3686.4 | 3692.0 | 3693.3 | 3687.8 |
| 17.5° | 3758.6 | 3758.6 | 3757.3 | 3758.6 | 3767.0 | 3778.1 | 3782.3 | 3787.9 | 3793.4 | 3797.7 | 3790.6 |
| 20° | 3867.1 | 3869.9 | 3869.9 | 3872.7 | 3883.7 | 3896.3 | 3896.3 | 3899.0 | 3896.3 | 3899.0 | 3894.9 |
| 22.5° | 3999.1 | 4007.5 | 4007.5 | 4008.8 | 4019.9 | 4035.3 | 4031.1 | 4035.3 | 4028.4 | 4033.9 | 4028.4 |
| 25° | 4171.5 | 4184.0 | 4181.3 | 4181.3 | 4189.5 | 4199.3 | 4200.7 | 4209.0 | 4207.7 | 4214.5 | 4210.5 |
| 27.5° | 4366.1 | 4385.5 | 4391.1 | 4389.7 | 4395.3 | 4405.0 | 4407.8 | 4417.6 | 4412.0 | 4417.6 | 4414.7 |
| 30° | 4599.6 | 4608.0 | 4619.2 | 4623.3 | 4630.2 | 4639.9 | 4639.9 | 4641.4 | 4634.4 | 4642.8 | 4646.9 |
| 32.5° | 4841.5 | 4856.8 | 4867.9 | 4892.9 | 4905.4 | 4912.4 | 4910.9 | 4913.8 | 4906.9 | 4918.0 | 4926.3 |
| 35° | 5161.2 | 5172.4 | 5190.4 | 5209.9 | 5226.5 | 5225.3 | 5221.0 | 5222.4 | 5222.4 | 5232.1 | 5240.4 |
| 37.5° | 5546.2 | 5549.1 | 5572.7 | 5600.5 | 5608.9 | 5600.5 | 5575.5 | 5569.9 | 5557.4 | 5569.9 | 5583.8 |
| 40° | 5953.5 | 5963.3 | 6010.6 | 6028.6 | 6032.8 | 6017.5 | 5981.4 | 5960.5 | 5932.7 | 5948.0 | 5967.4 |
| 42.5° | 6380.3 | 6399.8 | 6442.8 | 6474.8 | 6488.7 | 6479.0 | 6429.0 | 6397.0 | 6360.8 | 6369.2 | 6388.6 |
| 45° | 6852.8 | 6876.6 | 6937.8 | 6968.2 | 6994.7 | 6979.4 | 6930.8 | 6882.1 | 6825.1 | 6829.2 | 6859.9 |
| 47.5° | 7381.1 | 7404.7 | 7483.9 | 7535.4 | 7549.3 | 7546.5 | 7492.4 | 7425.6 | 7347.8 | 7345.0 | 7371.4 |
| 50° | 7973.3 | 7996.9 | 8095.6 | 8174.8 | 8215.1 | 8211.0 | 8147.0 | 8052.5 | 7958.0 | 7959.4 | 7992.8 |
| 52.5° | 8551.5 | 8580.6 | 8683.6 | 8819.9 | 8899.0 | 8956.0 | 8917.0 | 8828.1 | 8712.8 | 8715.6 | 8746.1 |
| 55° | 9093.6 | 9142.3 | 9260.5 | 9445.4 | 9592.6 | 9752.5 | 9798.4 | 9795.6 | 9726.1 | 9745.6 | 9776.2 |
| 57.5° | 9356.4 | 9428.6 | 9610.8 | 9902.6 | 10202.8 | 10528.2 | 10803.4 | 11009.1 | 11096.7 | 11228.8 | 11198.2 |
| 60° | 8858.7 | 8974.1 | 9242.4 | 9671.9 | 10265.5 | 10943.9 | 11670.7 | 12381.1 | 12987.1 | 13444.5 | 13181.8 |
| 62.5° | 7253.2 | 7403.4 | 7728.7 | 8279.1 | 9177.0 | 10262.7 | 11654.1 | 13333.2 | 15162.6 | 16266.3 | 15478.1 |
| 65° | 4538.5 | 4694.3 | 5025.1 | 5614.4 | 6665.3 | 8014.9 | 9902.6 | 12685.5 | 16103.6 | 17767.5 | 16163.4 |
| 67.5° | 1769.6 | 1854.3 | 2033.7 | 2410.4 | 3199.8 | 4400.9 | 6295.5 | 9453.6 | 13541.8 | 14999.9 | 13290.2 |
| 70° | 886.8 | 895.2 | 928.6 | 998.1 | 1167.7 | 1516.5 | 2307.4 | 4382.8 | 7766.1 | 9380.0 | 7486.8 |
| 72.5° | 640.8 | 642.2 | 658.9 | 689.4 | 743.6 | 821.5 | 971.7 | 1341.3 | 2525.7 | 3860.1 | 2367.2 |
| 75° | 490.7 | 496.2 | 506.0 | 522.7 | 551.9 | 590.8 | 644.9 | 772.9 | 957.7 | 1110.6 | 934.0 |
| 77.5° | 378.0 | 389.2 | 396.2 | 411.5 | 429.5 | 455.9 | 471.2 | 519.8 | 604.6 | 636.7 | 626.9 |
| 80° | 287.8 | 297.5 | 312.8 | 325.3 | 337.8 | 350.2 | 344.7 | 367.0 | 411.5 | 437.9 | 423.9 |
| 82.5° | 183.4 | 194.6 | 239.1 | 250.2 | 255.7 | 264.1 | 254.3 | 255.7 | 275.3 | 291.9 | 275.3 |
| 85° | 118.1 | 125.1 | 151.6 | 165.4 | 166.8 | 172.4 | 168.2 | 158.4 | 158.4 | 144.5 | 162.7 |
| 87.5° | 54.2 | 55.6 | 68.1 | 80.7 | 83.4 | 75.1 | 73.6 | 70.9 | 57.1 | 54.2 | 58.4 |
| 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-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 | 3358.3 |
| 2.5° | 3357.0 | 3359.7 | 3361.2 | 3365.3 | 3366.8 | 3366.8 | 3368.0 | 3370.8 |
| 5° | 3383.3 | 3387.6 | 3388.9 | 3394.4 | 3395.9 | 3394.4 | 3397.3 | 3398.6 |
| 7.5° | 3430.6 | 3437.7 | 3440.3 | 3445.9 | 3441.7 | 3447.3 | 3448.7 | 3448.7 |
| 10° | 3500.1 | 3507.1 | 3508.5 | 3514.0 | 3511.3 | 3514.0 | 3514.0 | 3511.3 |
| 12.5° | 3591.9 | 3593.2 | 3589.0 | 3593.2 | 3587.7 | 3590.5 | 3586.3 | 3583.4 |
| 15° | 3693.3 | 3689.1 | 3679.5 | 3679.5 | 3671.1 | 3672.5 | 3671.1 | 3669.7 |
| 17.5° | 3792.1 | 3783.6 | 3776.8 | 3774.0 | 3767.0 | 3765.6 | 3761.5 | 3761.5 |
| 20° | 3900.4 | 3896.3 | 3892.2 | 3886.6 | 3879.6 | 3872.7 | 3871.3 | 3874.0 |
| 22.5° | 4031.1 | 4029.7 | 4029.7 | 4027.0 | 4017.3 | 4010.3 | 4006.1 | 4006.1 |
| 25° | 4206.3 | 4193.8 | 4193.8 | 4192.4 | 4188.2 | 4184.0 | 4175.7 | 4179.8 |
| 27.5° | 4403.7 | 4396.7 | 4402.3 | 4400.9 | 4396.7 | 4396.7 | 4391.1 | 4391.1 |
| 30° | 4646.9 | 4644.2 | 4652.5 | 4645.4 | 4631.6 | 4630.2 | 4624.6 | 4617.8 |
| 32.5° | 4927.7 | 4924.9 | 4937.4 | 4929.1 | 4906.9 | 4894.4 | 4883.3 | 4877.7 |
| 35° | 5240.4 | 5241.8 | 5257.1 | 5251.5 | 5226.5 | 5218.2 | 5198.8 | 5196.0 |
| 37.5° | 5582.4 | 5604.7 | 5631.0 | 5636.5 | 5615.8 | 5610.3 | 5589.3 | 5578.2 |
| 40° | 5984.1 | 6013.3 | 6053.6 | 6063.4 | 6041.2 | 6036.9 | 6007.7 | 5992.5 |
| 42.5° | 6412.2 | 6462.2 | 6512.3 | 6520.7 | 6498.4 | 6476.3 | 6448.4 | 6437.2 |
| 45° | 6890.4 | 6950.2 | 7015.5 | 7032.3 | 6998.8 | 6972.5 | 6936.4 | 6936.4 |
| 47.5° | 7427.0 | 7502.1 | 7575.7 | 7621.6 | 7591.0 | 7563.3 | 7520.1 | 7492.4 |
| 50° | 8060.8 | 8163.8 | 8259.7 | 8306.9 | 8258.3 | 8205.4 | 8130.3 | 8105.3 |
| 52.5° | 8855.9 | 8967.1 | 9050.6 | 9025.6 | 8950.5 | 8876.8 | 8794.9 | 8761.4 |
| 55° | 9870.7 | 9908.1 | 9908.1 | 9813.6 | 9663.6 | 9539.9 | 9410.6 | 9367.5 |
| 57.5° | 11139.7 | 10995.2 | 10772.9 | 10490.6 | 10136.2 | 9827.6 | 9619.0 | 9520.5 |
| 60° | 12631.4 | 11936.2 | 11150.9 | 10379.4 | 9745.6 | 9222.9 | 8913.0 | 8771.2 |
| 62.5° | 13625.1 | 11807.0 | 10233.4 | 8995.0 | 8083.1 | 7453.4 | 7025.3 | 6858.4 |
| 65° | 12734.1 | 9847.1 | 7739.7 | 6258.0 | 5264.1 | 4623.3 | 4199.3 | 4043.5 |
| 67.5° | 9327.1 | 6170.4 | 4121.5 | 2953.9 | 2164.3 | 1726.4 | 1552.7 | 1480.4 |
| 70° | 4186.9 | 2172.6 | 1331.7 | 1039.7 | 896.6 | 822.9 | 790.9 | 779.8 |
| 72.5° | 1262.2 | 913.3 | 770.1 | 695.0 | 638.1 | 601.9 | 575.5 | 572.7 |
| 75° | 761.7 | 633.8 | 563.0 | 518.4 | 482.4 | 453.2 | 439.2 | 435.1 |
| 77.5° | 532.4 | 465.7 | 432.3 | 400.3 | 372.6 | 350.2 | 337.8 | 328.0 |
| 80° | 373.8 | 342.0 | 326.6 | 308.5 | 290.5 | 269.7 | 251.7 | 243.2 |
| 82.5° | 250.2 | 243.2 | 243.2 | 232.1 | 216.9 | 197.4 | 161.2 | 152.9 |
| 85° | 161.2 | 159.8 | 162.7 | 158.4 | 147.4 | 126.5 | 104.3 | 98.7 |
| 87.5° | 75.1 | 76.5 | 84.7 | 83.4 | 80.7 | 66.7 | 52.8 | 50.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)