

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: P190834

Luminaire Tested: **GAN-AF-06-LED-U-5NQ-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190834
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-06-LED-U-5NQ-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 24751.3 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 193
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

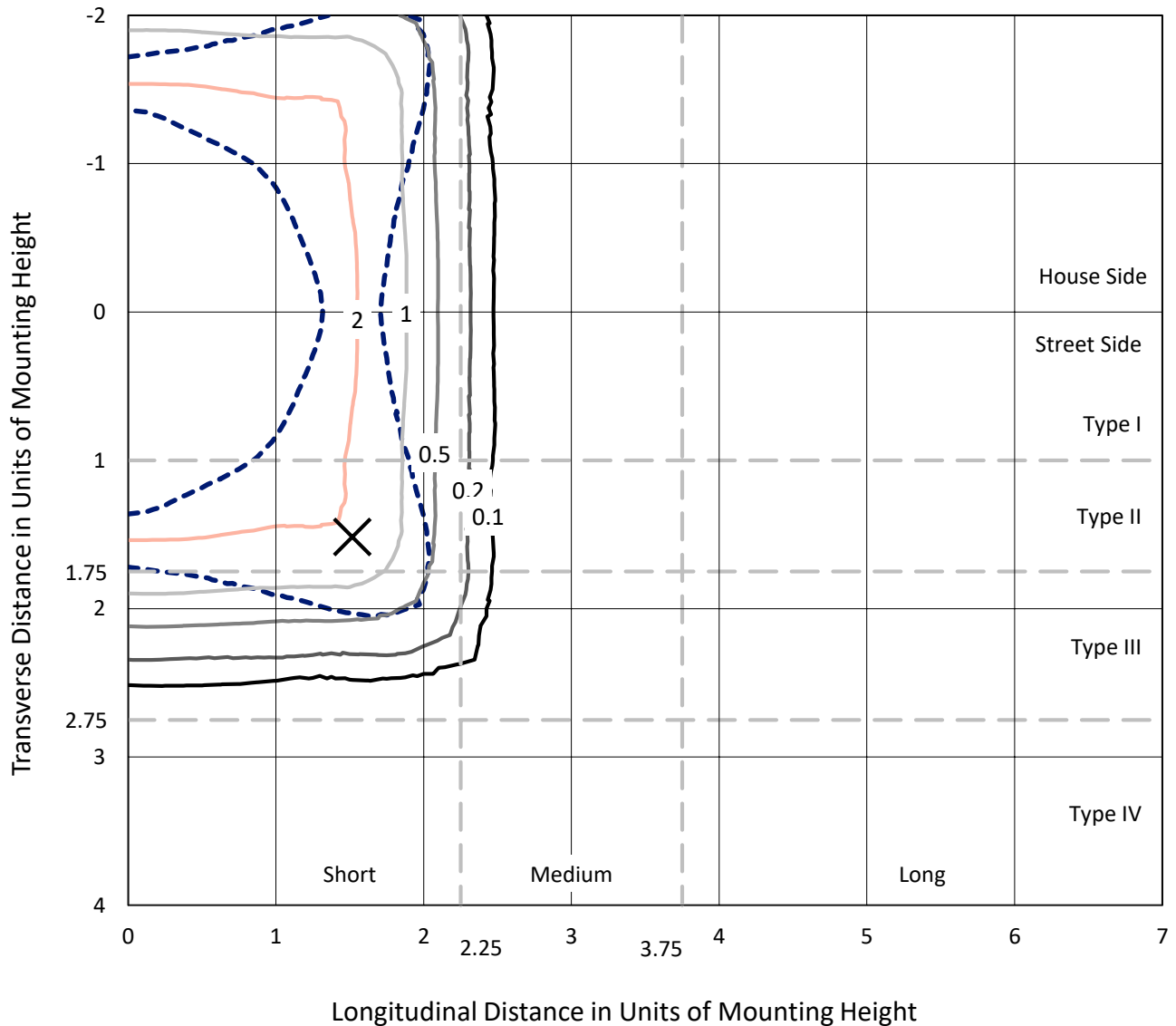


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Iso-Footcandle Lines of Horizontal Illumination

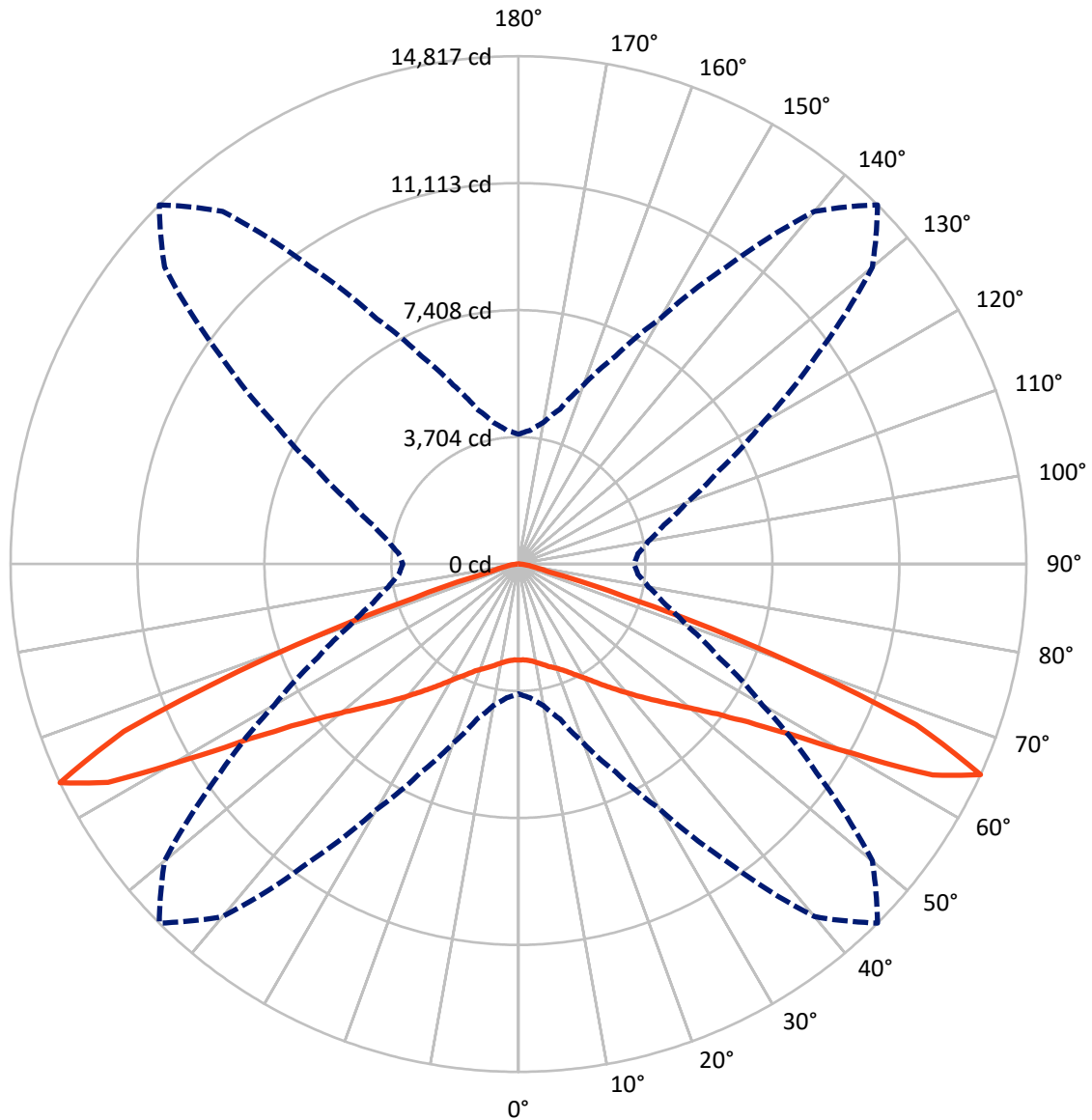
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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 | 12375.7 | 0.0 | 12375.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12375.7 | 0.0 | 12375.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 24751.3 | 0.0 | 24751.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.0 | 1.1 |
| 10°-20° | 875.5 | 3.5 |
| 20°-30° | 1637.0 | 6.6 |
| 30°-40° | 2768.6 | 11.2 |
| 40°-50° | 4526.9 | 18.3 |
| 50°-60° | 7198.4 | 29.1 |
| 60°-70° | 6506.9 | 26.3 |
| 70°-80° | 823.5 | 3.3 |
| 80°-90° | 141.7 | 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° | 24751.3 | 100.0 |
| 0°-180° | 24751.3 | 100.0 |



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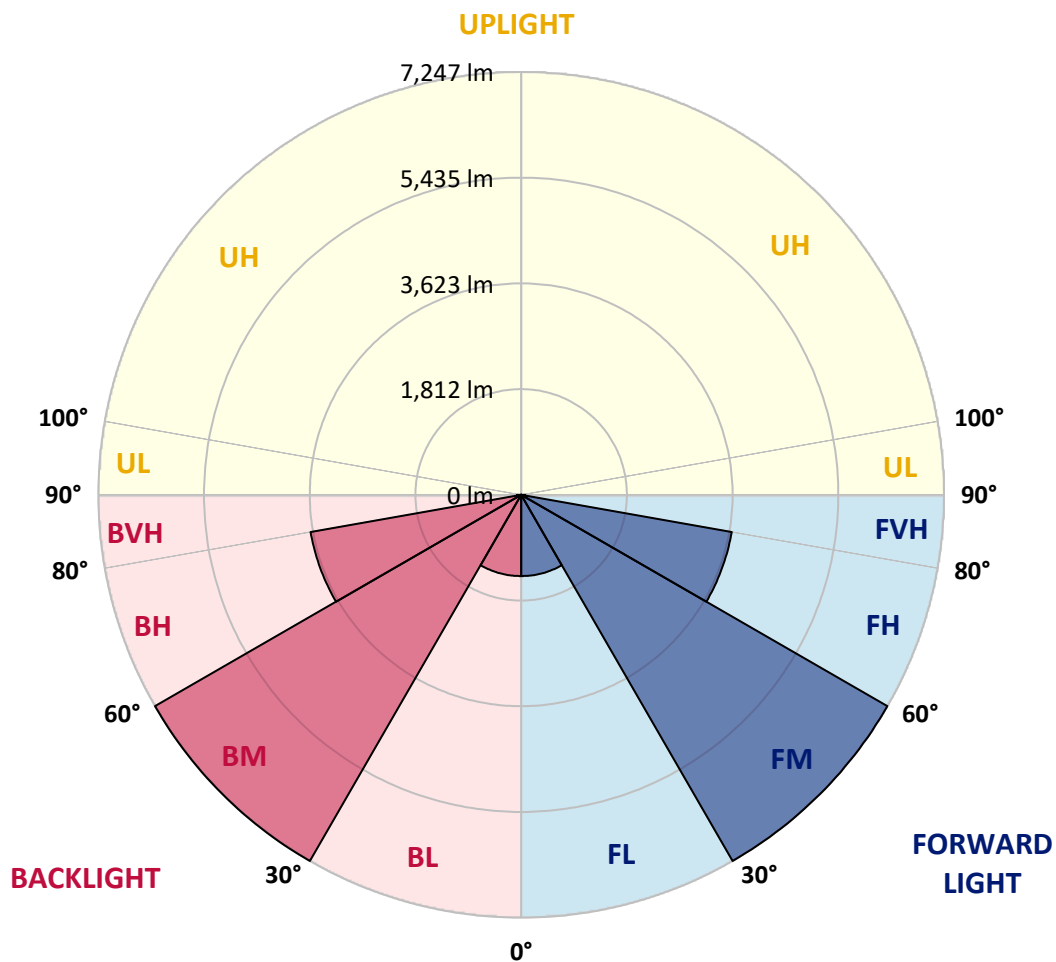
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1392.7 | 5.6 | | | |
| FM | (30°-60°) | 7246.9 | 29.3 | | | |
| FH | (60°-80°) | 3665.2 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 70.8 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1392.7 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 7246.9 | 29.3 | B4/8500 | | |
| BH | (60°-80°) | 3665.2 | 14.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 70.8 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 |
| 2.5° | 2803.0 | 2805.2 | 2807.6 | 2805.2 | 2807.6 | 2804.1 | 2801.8 | 2805.2 | 2801.8 | 2798.3 | 2800.6 |
| 5° | 2827.3 | 2828.5 | 2828.5 | 2825.0 | 2828.5 | 2826.1 | 2822.6 | 2827.3 | 2823.9 | 2820.4 | 2822.6 |
| 7.5° | 2867.8 | 2872.4 | 2869.0 | 2865.5 | 2867.8 | 2865.5 | 2863.2 | 2864.4 | 2863.2 | 2859.8 | 2860.9 |
| 10° | 2922.4 | 2925.8 | 2923.5 | 2922.4 | 2924.6 | 2923.5 | 2921.1 | 2920.0 | 2921.1 | 2917.7 | 2917.7 |
| 12.5° | 2988.4 | 2987.2 | 2986.1 | 2987.2 | 2990.7 | 2990.7 | 2989.6 | 2990.7 | 2993.1 | 2994.2 | 2991.9 |
| 15° | 3053.3 | 3055.7 | 3055.7 | 3055.7 | 3062.6 | 3068.4 | 3071.9 | 3074.2 | 3078.9 | 3080.0 | 3075.4 |
| 17.5° | 3134.4 | 3134.4 | 3133.3 | 3134.4 | 3141.4 | 3150.7 | 3154.2 | 3158.8 | 3163.5 | 3167.0 | 3161.1 |
| 20° | 3224.9 | 3227.2 | 3227.2 | 3229.6 | 3238.8 | 3249.2 | 3249.2 | 3251.6 | 3249.2 | 3251.6 | 3248.1 |
| 22.5° | 3335.0 | 3342.0 | 3342.0 | 3343.1 | 3352.4 | 3365.2 | 3361.7 | 3365.2 | 3359.4 | 3364.0 | 3359.4 |
| 25° | 3478.7 | 3489.2 | 3486.8 | 3486.8 | 3493.8 | 3502.0 | 3503.1 | 3510.1 | 3508.9 | 3514.7 | 3511.2 |
| 27.5° | 3641.1 | 3657.3 | 3662.0 | 3660.7 | 3665.4 | 3673.5 | 3675.8 | 3684.0 | 3679.2 | 3684.0 | 3681.6 |
| 30° | 3835.8 | 3842.7 | 3852.0 | 3855.5 | 3861.3 | 3869.4 | 3869.4 | 3870.5 | 3864.8 | 3871.8 | 3875.2 |
| 32.5° | 4037.5 | 4050.3 | 4059.5 | 4080.3 | 4090.8 | 4096.6 | 4095.5 | 4097.7 | 4092.0 | 4101.2 | 4108.2 |
| 35° | 4304.1 | 4313.4 | 4328.4 | 4344.7 | 4358.6 | 4357.5 | 4354.0 | 4355.1 | 4355.1 | 4363.2 | 4370.1 |
| 37.5° | 4625.2 | 4627.5 | 4647.3 | 4670.4 | 4677.3 | 4670.4 | 4649.5 | 4644.9 | 4634.5 | 4644.9 | 4656.5 |
| 40° | 4964.9 | 4973.0 | 5012.4 | 5027.5 | 5031.0 | 5018.2 | 4988.0 | 4970.6 | 4947.5 | 4960.2 | 4976.5 |
| 42.5° | 5320.7 | 5336.9 | 5372.8 | 5399.5 | 5411.1 | 5403.0 | 5361.3 | 5334.6 | 5304.5 | 5311.5 | 5327.6 |
| 45° | 5714.8 | 5734.6 | 5785.6 | 5811.1 | 5833.1 | 5820.4 | 5779.8 | 5739.2 | 5691.7 | 5695.2 | 5720.6 |
| 47.5° | 6155.3 | 6175.0 | 6241.1 | 6284.0 | 6295.6 | 6293.3 | 6248.1 | 6192.4 | 6127.5 | 6125.2 | 6147.2 |
| 50° | 6649.2 | 6668.9 | 6751.2 | 6817.3 | 6850.9 | 6847.4 | 6794.0 | 6715.3 | 6636.4 | 6637.6 | 6665.4 |
| 52.5° | 7131.4 | 7155.7 | 7241.5 | 7355.1 | 7421.2 | 7468.8 | 7436.2 | 7362.1 | 7265.8 | 7268.2 | 7293.6 |
| 55° | 7583.4 | 7624.1 | 7722.6 | 7876.7 | 7999.7 | 8133.0 | 8171.2 | 8168.9 | 8110.9 | 8127.1 | 8152.6 |
| 57.5° | 7802.6 | 7862.8 | 8014.7 | 8258.2 | 8508.5 | 8779.8 | 9009.3 | 9180.9 | 9253.9 | 9364.0 | 9338.5 |
| 60° | 7387.5 | 7483.8 | 7707.5 | 8065.7 | 8560.7 | 9126.4 | 9732.7 | 10324.9 | 10830.4 | 11211.7 | 10992.7 |
| 62.5° | 6048.7 | 6173.9 | 6445.1 | 6904.2 | 7653.0 | 8558.4 | 9718.7 | 11119.1 | 12644.6 | 13564.9 | 12907.7 |
| 65° | 3784.8 | 3914.6 | 4190.5 | 4682.0 | 5558.4 | 6684.0 | 8258.2 | 10578.8 | 13429.3 | 14816.9 | 13479.1 |
| 67.5° | 1475.7 | 1546.4 | 1696.0 | 2010.1 | 2668.5 | 3670.0 | 5250.0 | 7883.7 | 11293.0 | 12508.9 | 11083.1 |
| 70° | 739.6 | 746.5 | 774.4 | 832.3 | 973.7 | 1264.7 | 1924.3 | 3655.0 | 6476.4 | 7822.3 | 6243.5 |
| 72.5° | 534.4 | 535.5 | 549.4 | 575.0 | 620.2 | 685.1 | 810.3 | 1118.6 | 2106.3 | 3219.1 | 1974.1 |
| 75° | 409.2 | 413.8 | 422.0 | 435.9 | 460.2 | 492.7 | 537.9 | 644.6 | 798.7 | 926.2 | 779.0 |
| 77.5° | 315.3 | 324.6 | 330.4 | 343.1 | 358.2 | 380.2 | 393.0 | 433.5 | 504.2 | 530.9 | 522.8 |
| 80° | 240.0 | 248.1 | 260.9 | 271.3 | 281.7 | 292.2 | 287.4 | 306.1 | 343.1 | 365.2 | 353.5 |
| 82.5° | 153.0 | 162.2 | 199.4 | 208.7 | 213.3 | 220.2 | 212.2 | 213.3 | 229.6 | 243.5 | 229.6 |
| 85° | 98.5 | 104.3 | 126.3 | 137.9 | 139.1 | 143.7 | 140.2 | 132.2 | 132.2 | 120.6 | 135.6 |
| 87.5° | 45.2 | 46.3 | 56.8 | 67.2 | 69.6 | 62.6 | 61.5 | 59.1 | 47.6 | 45.2 | 48.7 |
| 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-06-LED-U-5NQ-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 | 2800.6 |
| 2.5° | 2799.5 | 2801.8 | 2803.0 | 2806.5 | 2807.6 | 2807.6 | 2808.7 | 2811.1 |
| 5° | 2821.5 | 2825.0 | 2826.1 | 2830.8 | 2831.9 | 2830.8 | 2833.1 | 2834.3 |
| 7.5° | 2860.9 | 2866.7 | 2869.0 | 2873.7 | 2870.2 | 2874.8 | 2875.9 | 2875.9 |
| 10° | 2918.9 | 2924.6 | 2925.8 | 2930.4 | 2928.1 | 2930.4 | 2930.4 | 2928.1 |
| 12.5° | 2995.4 | 2996.5 | 2993.1 | 2996.5 | 2991.9 | 2994.2 | 2990.7 | 2988.4 |
| 15° | 3080.0 | 3076.5 | 3068.4 | 3068.4 | 3061.5 | 3062.6 | 3061.5 | 3060.3 |
| 17.5° | 3162.2 | 3155.3 | 3149.6 | 3147.2 | 3141.4 | 3140.3 | 3136.8 | 3136.8 |
| 20° | 3252.7 | 3249.2 | 3245.7 | 3241.1 | 3235.3 | 3229.6 | 3228.3 | 3230.7 |
| 22.5° | 3361.7 | 3360.5 | 3360.5 | 3358.2 | 3350.1 | 3344.3 | 3340.9 | 3340.9 |
| 25° | 3507.7 | 3497.3 | 3497.3 | 3496.1 | 3492.7 | 3489.2 | 3482.2 | 3485.7 |
| 27.5° | 3672.4 | 3666.6 | 3671.2 | 3670.0 | 3666.6 | 3666.6 | 3662.0 | 3662.0 |
| 30° | 3875.2 | 3872.9 | 3879.8 | 3874.0 | 3862.5 | 3861.3 | 3856.6 | 3850.9 |
| 32.5° | 4109.4 | 4107.0 | 4117.5 | 4110.5 | 4092.0 | 4081.6 | 4072.3 | 4067.7 |
| 35° | 4370.1 | 4371.4 | 4384.1 | 4379.5 | 4358.6 | 4351.6 | 4335.4 | 4333.1 |
| 37.5° | 4655.3 | 4673.9 | 4696.0 | 4700.6 | 4683.2 | 4678.6 | 4661.2 | 4651.9 |
| 40° | 4990.4 | 5014.7 | 5048.3 | 5056.4 | 5037.8 | 5034.5 | 5010.1 | 4997.3 |
| 42.5° | 5347.4 | 5389.1 | 5430.8 | 5437.8 | 5419.3 | 5400.7 | 5377.6 | 5368.2 |
| 45° | 5746.1 | 5796.0 | 5850.5 | 5864.4 | 5836.5 | 5814.6 | 5784.4 | 5784.4 |
| 47.5° | 6193.6 | 6256.2 | 6317.6 | 6355.9 | 6330.4 | 6307.2 | 6271.3 | 6248.1 |
| 50° | 6722.2 | 6807.9 | 6887.9 | 6927.4 | 6886.8 | 6842.7 | 6780.1 | 6759.2 |
| 52.5° | 7385.3 | 7478.0 | 7547.5 | 7526.7 | 7464.1 | 7402.7 | 7334.3 | 7306.4 |
| 55° | 8231.5 | 8262.8 | 8262.8 | 8183.9 | 8058.7 | 7955.6 | 7847.8 | 7811.9 |
| 57.5° | 9289.8 | 9169.2 | 8983.8 | 8748.5 | 8452.8 | 8195.6 | 8021.7 | 7939.3 |
| 60° | 10533.6 | 9954.0 | 9299.1 | 8655.7 | 8127.1 | 7691.3 | 7432.8 | 7314.5 |
| 62.5° | 11362.4 | 9846.2 | 8534.1 | 7501.2 | 6740.7 | 6215.7 | 5858.5 | 5719.5 |
| 65° | 10619.5 | 8211.7 | 6454.4 | 5218.7 | 4389.9 | 3855.5 | 3502.0 | 3372.2 |
| 67.5° | 7778.2 | 5145.6 | 3437.0 | 2463.3 | 1804.9 | 1439.7 | 1294.9 | 1234.5 |
| 70° | 3491.5 | 1811.9 | 1110.5 | 867.1 | 747.7 | 686.2 | 659.6 | 650.3 |
| 72.5° | 1052.5 | 761.6 | 642.2 | 579.6 | 532.0 | 502.0 | 479.9 | 477.6 |
| 75° | 635.3 | 528.6 | 469.4 | 432.4 | 402.2 | 377.9 | 366.3 | 362.8 |
| 77.5° | 444.0 | 388.3 | 360.5 | 333.9 | 310.7 | 292.2 | 281.7 | 273.5 |
| 80° | 311.8 | 285.2 | 272.4 | 257.4 | 242.2 | 224.8 | 209.8 | 202.9 |
| 82.5° | 208.7 | 202.9 | 202.9 | 193.5 | 180.9 | 164.6 | 134.5 | 127.6 |
| 85° | 134.5 | 133.3 | 135.6 | 132.2 | 122.9 | 105.5 | 87.0 | 82.3 |
| 87.5° | 62.6 | 63.7 | 70.7 | 69.6 | 67.2 | 55.6 | 44.1 | 41.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)