

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: P191822

Luminaire Tested: **GAN-AF-04-LED-U-RW-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26925 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 258
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

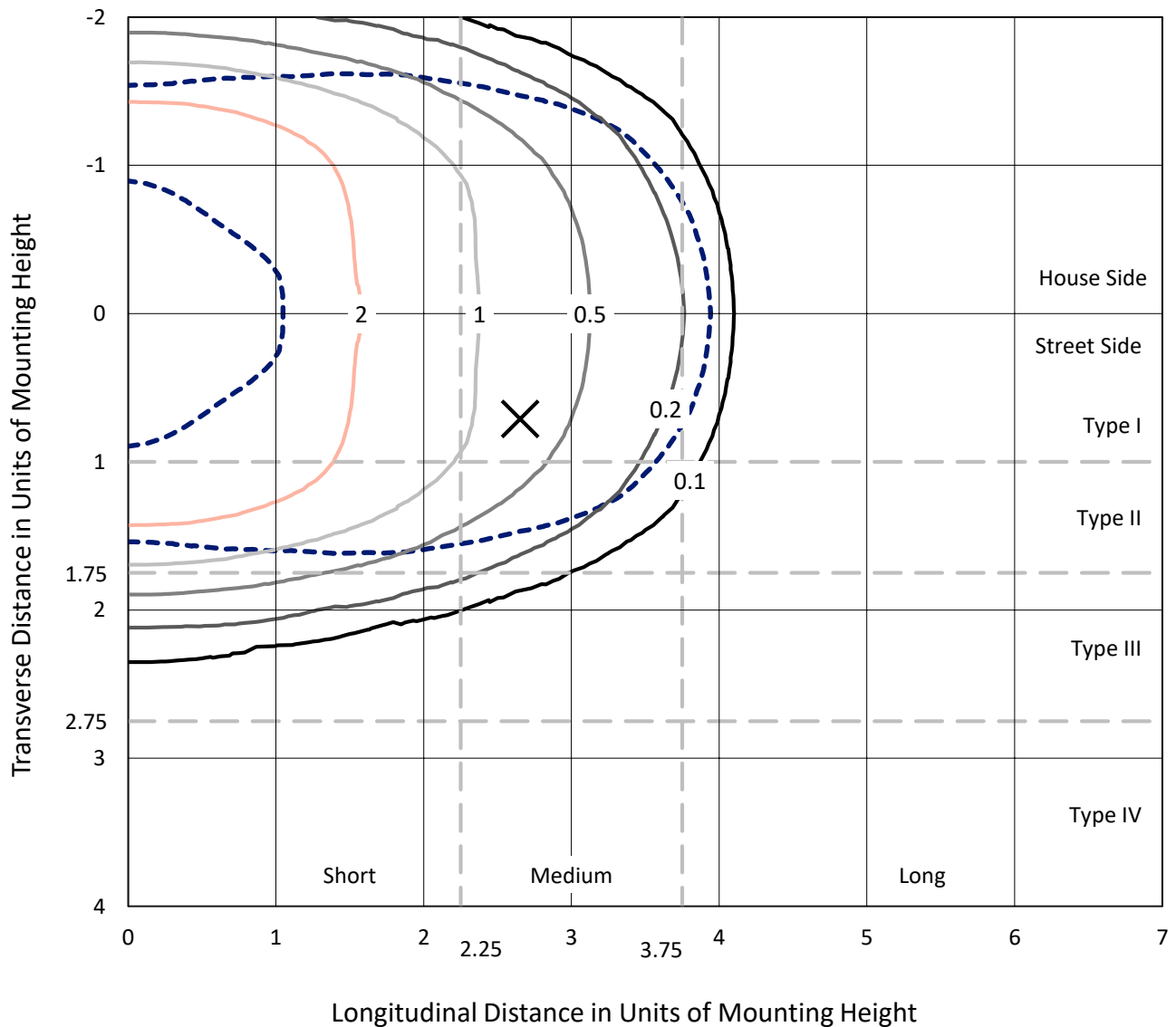


REPORT NUMBER: P191822

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

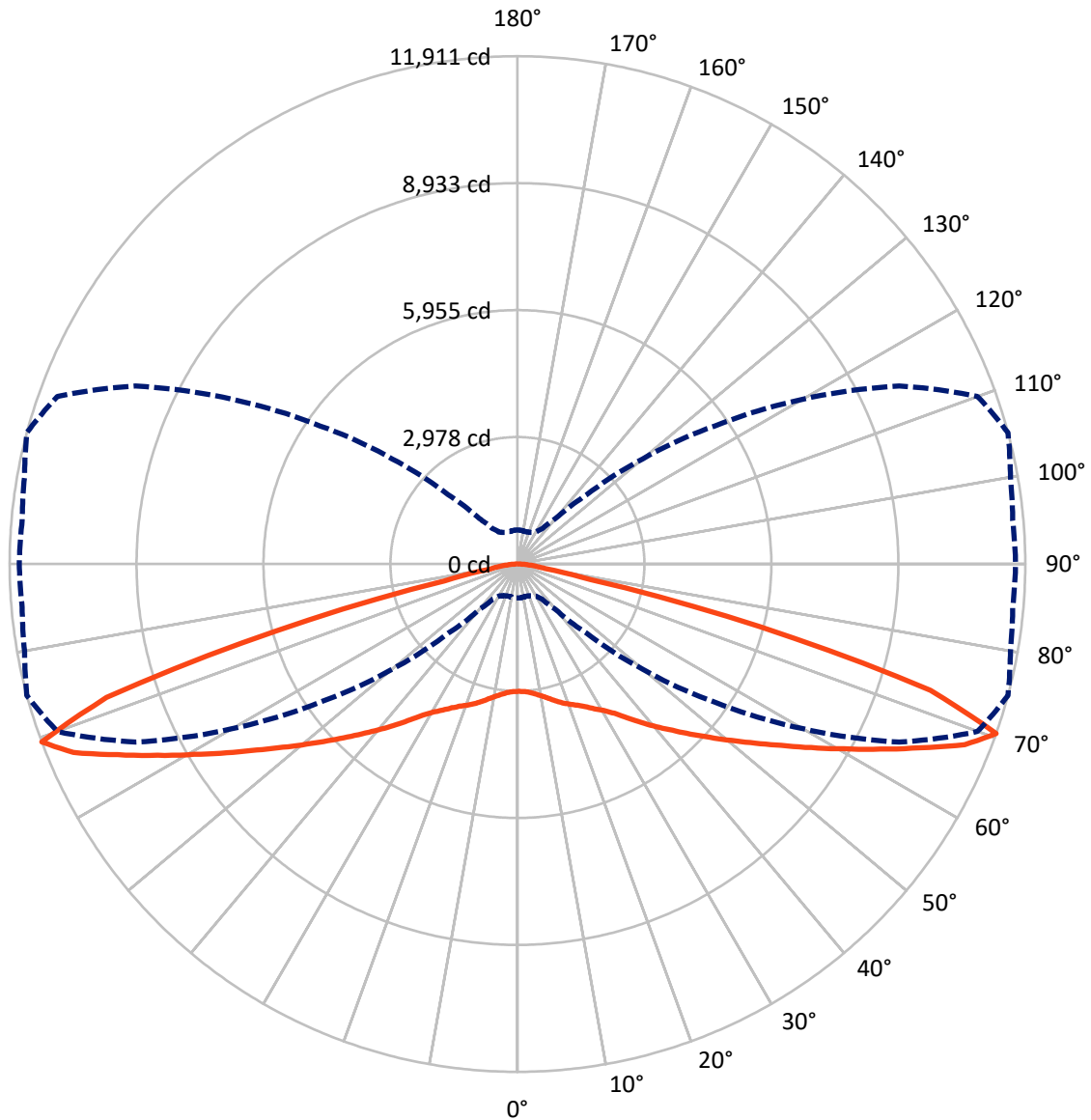


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P191822

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191822

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7050-1200

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13462.5 | 0.0 | 13462.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13462.5 | 0.0 | 13462.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26925.0 | 0.0 | 26925.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 286.4 | 1.1 |
| 10°-20° | 890.0 | 3.3 |
| 20°-30° | 1675.1 | 6.2 |
| 30°-40° | 2966.3 | 11.0 |
| 40°-50° | 4960.7 | 18.4 |
| 50°-60° | 6912.7 | 25.7 |
| 60°-70° | 6410.4 | 23.8 |
| 70°-80° | 2554.7 | 9.5 |
| 80°-90° | 268.5 | 1.0 |
| 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° | 26925.0 | 100.0 |
| 0°-180° | 26925.0 | 100.0 |



REPORT NUMBER: P191822

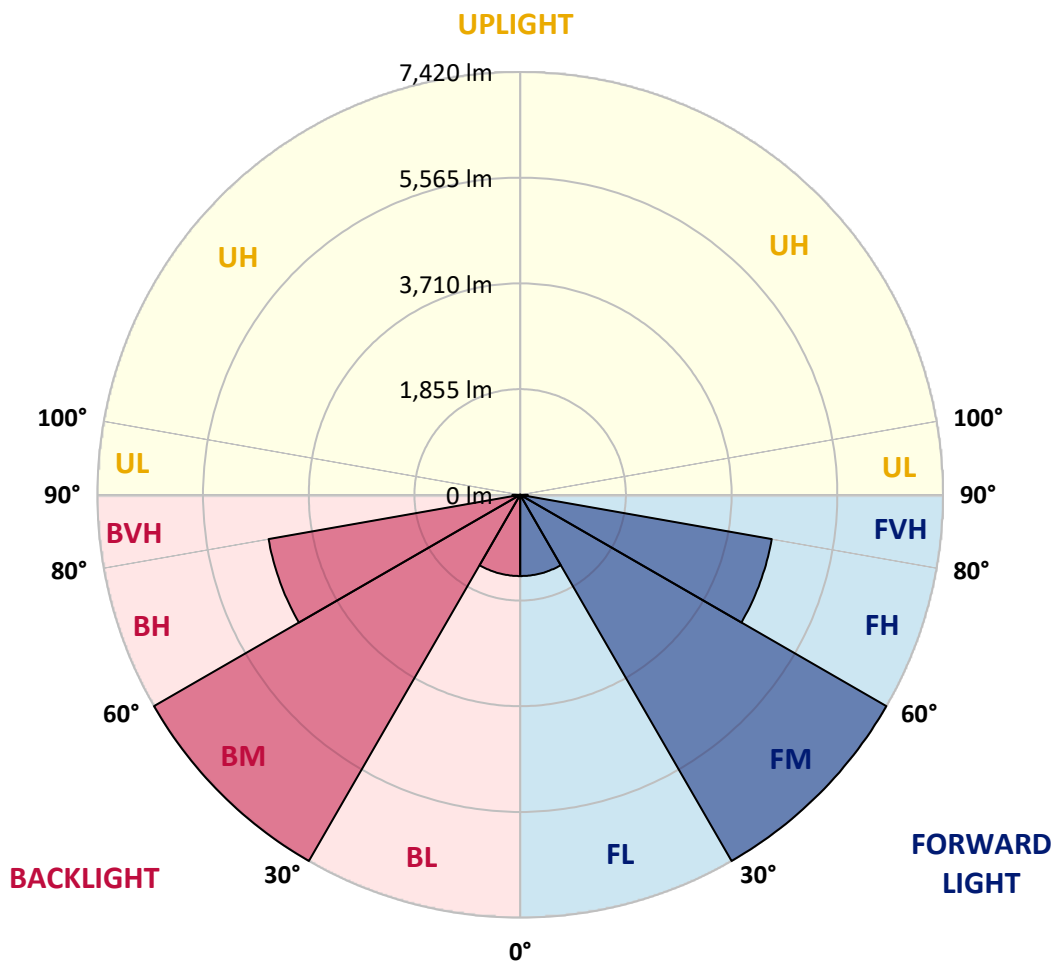
CATALOG NUMBER: GAN-AF-04-LED-U-RW-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1425.8 | 5.3 | | | |
| FM | (30°-60°) | 7419.9 | 27.6 | | | |
| FH | (60°-80°) | 4482.6 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 134.3 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1425.8 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 7419.9 | 27.6 | B4/8500 | | |
| BH | (60°-80°) | 4482.6 | 16.6 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 134.3 | 0.5 | | | G2/225 |
| 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 Medium





REPORT NUMBER: P191822

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7050-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 |
| 2.5° | 2981.5 | 2979.0 | 2981.5 | 2980.2 | 2982.8 | 2982.8 | 2985.3 | 2990.4 | 2990.4 | 2994.2 | 2993.0 |
| 5° | 2952.3 | 2951.0 | 2954.8 | 2958.6 | 2962.4 | 2970.1 | 2977.7 | 2989.2 | 2998.1 | 3004.4 | 3010.8 |
| 7.5° | 2895.0 | 2895.0 | 2900.1 | 2909.0 | 2917.9 | 2934.4 | 2952.3 | 2975.2 | 2998.1 | 3017.2 | 3033.7 |
| 10° | 2847.9 | 2850.5 | 2856.8 | 2872.1 | 2887.4 | 2912.8 | 2937.0 | 2970.1 | 3001.9 | 3033.7 | 3059.1 |
| 12.5° | 2819.9 | 2823.7 | 2835.2 | 2858.1 | 2883.5 | 2917.9 | 2954.8 | 2996.8 | 3032.4 | 3070.6 | 3096.0 |
| 15° | 2828.8 | 2831.4 | 2847.9 | 2875.9 | 2909.0 | 2952.3 | 3001.9 | 3051.5 | 3093.5 | 3134.2 | 3168.6 |
| 17.5° | 2878.4 | 2882.3 | 2901.4 | 2933.2 | 2967.5 | 3018.4 | 3071.9 | 3127.9 | 3180.0 | 3225.8 | 3267.8 |
| 20° | 2967.5 | 2971.3 | 2995.5 | 3029.9 | 3070.6 | 3122.8 | 3176.2 | 3234.8 | 3293.3 | 3341.6 | 3388.7 |
| 22.5° | 3093.5 | 3099.9 | 3122.8 | 3157.1 | 3202.9 | 3258.9 | 3322.6 | 3384.9 | 3440.9 | 3485.4 | 3527.4 |
| 25° | 3258.9 | 3272.9 | 3294.6 | 3332.7 | 3381.1 | 3432.0 | 3500.7 | 3564.3 | 3617.8 | 3659.8 | 3690.3 |
| 27.5° | 3493.1 | 3512.2 | 3528.7 | 3565.6 | 3612.7 | 3661.0 | 3729.8 | 3785.8 | 3836.7 | 3877.4 | 3900.3 |
| 30° | 3803.6 | 3822.7 | 3839.2 | 3874.8 | 3918.1 | 3963.9 | 4028.8 | 4078.4 | 4110.2 | 4142.1 | 4140.8 |
| 32.5° | 4180.2 | 4200.6 | 4207.0 | 4245.1 | 4289.7 | 4339.3 | 4397.8 | 4425.8 | 4451.3 | 4455.1 | 4432.2 |
| 35° | 4601.4 | 4611.6 | 4637.1 | 4688.0 | 4738.9 | 4779.6 | 4835.6 | 4849.6 | 4849.6 | 4830.5 | 4779.6 |
| 37.5° | 5063.4 | 5069.7 | 5105.4 | 5162.6 | 5214.8 | 5256.8 | 5295.0 | 5323.0 | 5309.0 | 5268.2 | 5183.0 |
| 40° | 5569.8 | 5581.3 | 5632.2 | 5683.1 | 5741.6 | 5781.1 | 5821.8 | 5826.9 | 5812.9 | 5753.1 | 5637.3 |
| 42.5° | 6053.4 | 6063.6 | 6114.5 | 6194.6 | 6271.0 | 6325.7 | 6363.9 | 6371.5 | 6327.0 | 6272.3 | 6128.5 |
| 45° | 6469.5 | 6496.2 | 6562.4 | 6656.6 | 6767.3 | 6844.9 | 6897.1 | 6918.7 | 6879.3 | 6808.0 | 6641.3 |
| 47.5° | 6799.1 | 6825.8 | 6920.0 | 7032.0 | 7169.4 | 7295.4 | 7381.9 | 7427.7 | 7417.5 | 7364.1 | 7182.1 |
| 50° | 7040.9 | 7066.3 | 7168.1 | 7305.6 | 7465.9 | 7622.4 | 7770.0 | 7879.5 | 7917.6 | 7893.5 | 7726.8 |
| 52.5° | 7068.9 | 7110.9 | 7230.5 | 7415.0 | 7623.7 | 7837.5 | 8047.4 | 8233.2 | 8359.2 | 8378.3 | 8254.9 |
| 55° | 6678.2 | 6720.2 | 6885.6 | 7159.2 | 7469.7 | 7818.4 | 8154.3 | 8467.4 | 8715.5 | 8842.8 | 8777.9 |
| 57.5° | 5756.9 | 5832.0 | 6006.3 | 6327.0 | 6783.8 | 7305.6 | 7841.3 | 8397.4 | 8902.6 | 9239.8 | 9304.7 |
| 60° | 4411.8 | 4500.9 | 4676.5 | 5017.6 | 5526.6 | 6148.8 | 6864.0 | 7686.0 | 8578.1 | 9336.5 | 9789.5 |
| 62.5° | 2830.1 | 2914.1 | 3098.6 | 3395.1 | 3809.9 | 4484.4 | 5251.7 | 6227.7 | 7426.4 | 8623.9 | 9703.0 |
| 65° | 1454.5 | 1500.3 | 1597.0 | 1776.4 | 2099.7 | 2603.6 | 3292.0 | 4265.5 | 5636.0 | 7113.4 | 8673.5 |
| 67.5° | 921.3 | 930.2 | 951.8 | 977.3 | 1060.0 | 1234.3 | 1555.0 | 2162.0 | 3289.5 | 4830.5 | 6656.6 |
| 70° | 796.6 | 796.6 | 786.4 | 782.6 | 792.8 | 817.0 | 866.6 | 1007.8 | 1388.3 | 2293.1 | 3839.2 |
| 72.5° | 729.2 | 721.5 | 703.7 | 689.7 | 687.2 | 687.2 | 697.3 | 719.0 | 780.1 | 934.0 | 1502.8 |
| 75° | 671.9 | 650.3 | 626.1 | 609.5 | 603.2 | 596.8 | 595.5 | 599.4 | 612.1 | 636.3 | 717.7 |
| 77.5° | 601.9 | 573.9 | 545.9 | 529.4 | 521.7 | 512.8 | 505.2 | 496.3 | 489.9 | 497.6 | 533.2 |
| 80° | 517.9 | 486.1 | 464.5 | 454.3 | 446.7 | 433.9 | 417.4 | 402.1 | 388.1 | 385.6 | 407.2 |
| 82.5° | 417.4 | 380.5 | 381.8 | 385.6 | 371.6 | 353.8 | 335.9 | 319.4 | 295.2 | 282.5 | 295.2 |
| 85° | 337.2 | 318.1 | 309.2 | 333.4 | 313.0 | 286.3 | 258.3 | 229.1 | 190.9 | 160.3 | 174.3 |
| 87.5° | 131.1 | 131.1 | 196.0 | 301.6 | 271.0 | 221.4 | 189.6 | 161.6 | 100.5 | 77.6 | 78.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P191822

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7050-1200

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 | 2986.6 |
| 2.5° | 2991.7 | 2994.2 | 2993.0 | 2991.7 | 2991.7 | 2990.4 | 2991.7 | 2991.7 |
| 5° | 3014.6 | 3021.0 | 3021.0 | 3023.5 | 3023.5 | 3024.8 | 3026.1 | 3024.8 |
| 7.5° | 3049.0 | 3060.4 | 3068.1 | 3077.0 | 3078.2 | 3079.5 | 3082.0 | 3079.5 |
| 10° | 3083.3 | 3106.2 | 3122.8 | 3139.3 | 3146.9 | 3149.5 | 3152.0 | 3152.0 |
| 12.5° | 3126.6 | 3158.4 | 3187.7 | 3216.9 | 3230.9 | 3238.6 | 3238.6 | 3243.7 |
| 15° | 3197.8 | 3229.7 | 3264.0 | 3303.5 | 3327.6 | 3340.4 | 3344.2 | 3344.2 |
| 17.5° | 3298.4 | 3326.4 | 3355.6 | 3393.8 | 3424.4 | 3440.9 | 3444.7 | 3443.4 |
| 20° | 3415.4 | 3442.2 | 3458.7 | 3482.9 | 3509.6 | 3528.7 | 3533.8 | 3533.8 |
| 22.5° | 3549.1 | 3564.3 | 3566.9 | 3574.5 | 3596.1 | 3621.6 | 3633.1 | 3635.6 |
| 25° | 3696.7 | 3700.5 | 3690.3 | 3690.3 | 3704.3 | 3728.5 | 3739.9 | 3741.2 |
| 27.5° | 3887.6 | 3868.5 | 3843.0 | 3834.1 | 3843.0 | 3871.0 | 3885.0 | 3890.1 |
| 30° | 4125.5 | 4079.7 | 4021.2 | 3989.4 | 3984.3 | 4021.2 | 4046.6 | 4050.4 |
| 32.5° | 4397.8 | 4331.7 | 4254.0 | 4189.1 | 4172.6 | 4195.5 | 4226.0 | 4224.8 |
| 35° | 4721.1 | 4642.2 | 4548.0 | 4465.3 | 4427.1 | 4450.0 | 4493.3 | 4498.4 |
| 37.5° | 5093.9 | 4990.8 | 4882.7 | 4778.3 | 4718.5 | 4724.9 | 4770.7 | 4786.0 |
| 40° | 5510.0 | 5376.4 | 5240.2 | 5100.3 | 5015.0 | 4998.5 | 5054.5 | 5063.4 |
| 42.5° | 5955.4 | 5783.6 | 5611.8 | 5438.8 | 5329.3 | 5303.9 | 5368.8 | 5365.0 |
| 45° | 6430.1 | 6211.2 | 6010.1 | 5819.2 | 5689.4 | 5651.3 | 5704.7 | 5704.7 |
| 47.5° | 6940.3 | 6670.6 | 6431.3 | 6215.0 | 6073.7 | 6019.0 | 6069.9 | 6073.7 |
| 50° | 7481.2 | 7194.8 | 6913.6 | 6673.1 | 6503.9 | 6433.9 | 6500.0 | 6510.2 |
| 52.5° | 8019.4 | 7740.8 | 7457.0 | 7182.1 | 6977.2 | 6892.0 | 6968.3 | 7001.4 |
| 55° | 8565.3 | 8291.8 | 8020.7 | 7752.2 | 7509.2 | 7408.6 | 7490.1 | 7532.1 |
| 57.5° | 9141.8 | 8888.6 | 8630.2 | 8359.2 | 8125.1 | 7968.5 | 8055.1 | 8111.1 |
| 60° | 9817.5 | 9601.2 | 9332.7 | 9033.6 | 8796.9 | 8637.9 | 8687.5 | 8737.1 |
| 62.5° | 10352.0 | 10436.0 | 10208.2 | 9862.0 | 9557.9 | 9354.3 | 9402.7 | 9454.8 |
| 65° | 10093.6 | 10955.1 | 11157.5 | 10807.5 | 10386.3 | 10069.5 | 10049.1 | 10075.8 |
| 67.5° | 8436.8 | 10110.2 | 11330.5 | 11663.9 | 11311.5 | 10871.2 | 10789.7 | 10829.2 |
| 70° | 5643.6 | 7728.0 | 9881.1 | 11484.5 | 11910.8 | 11740.3 | 11660.1 | 11684.3 |
| 72.5° | 2710.5 | 4500.9 | 6703.6 | 8835.1 | 10133.1 | 10728.6 | 10919.5 | 11012.4 |
| 75° | 991.3 | 1786.6 | 3230.9 | 4868.7 | 5877.8 | 6804.2 | 7408.6 | 7655.5 |
| 77.5° | 598.1 | 721.5 | 1032.0 | 1553.7 | 1759.9 | 1969.9 | 1888.4 | 1929.1 |
| 80° | 442.8 | 500.1 | 566.3 | 636.3 | 659.2 | 659.2 | 633.7 | 613.4 |
| 82.5° | 310.5 | 347.4 | 379.2 | 417.4 | 427.6 | 408.5 | 335.9 | 267.2 |
| 85° | 199.8 | 216.3 | 230.3 | 254.5 | 248.1 | 236.7 | 159.1 | 141.2 |
| 87.5° | 91.6 | 104.3 | 109.4 | 120.9 | 115.8 | 110.7 | 78.9 | 66.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)