

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: P192585

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192585
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-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33935.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 295
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

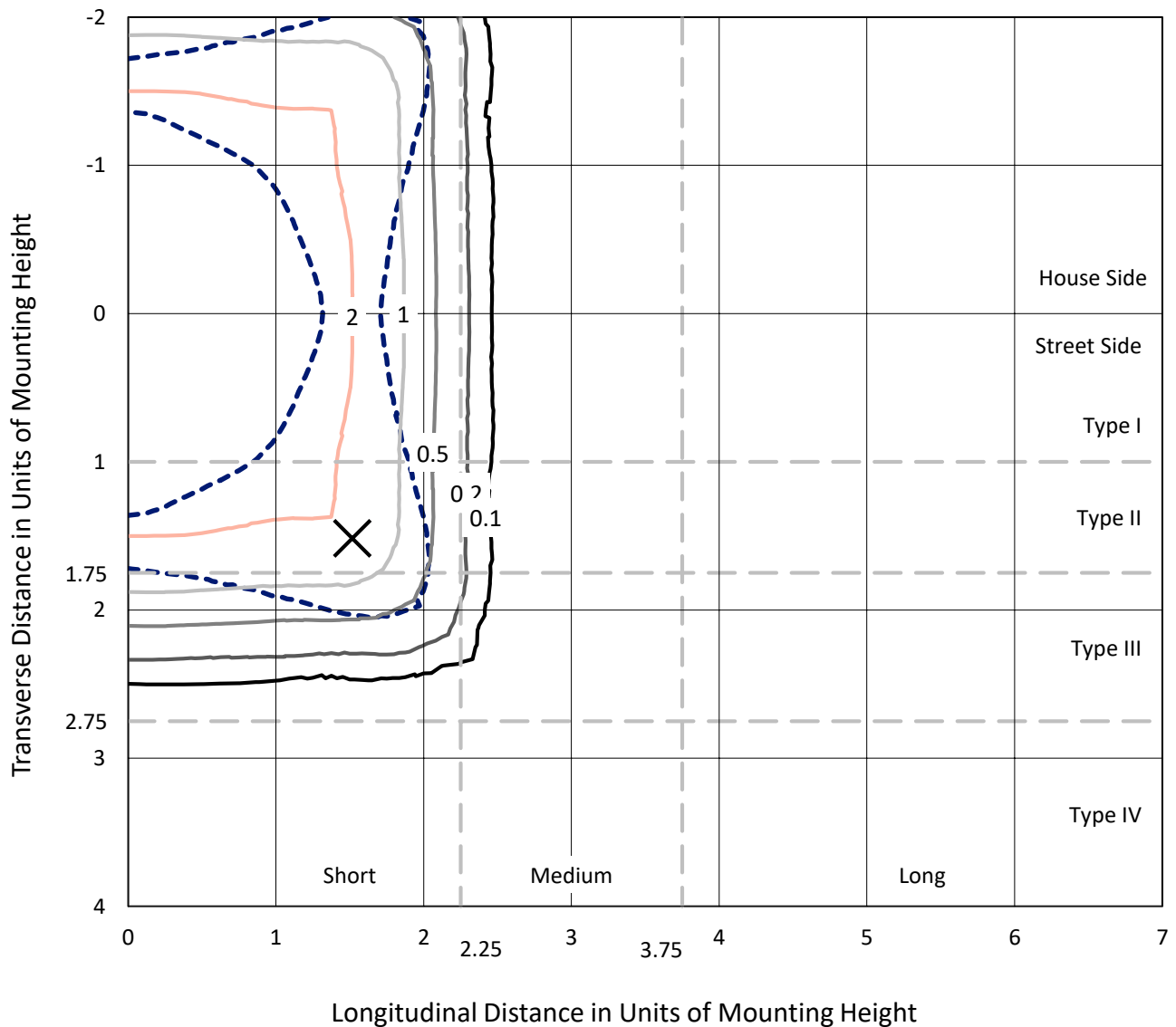


REPORT NUMBER: P192585

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7030-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

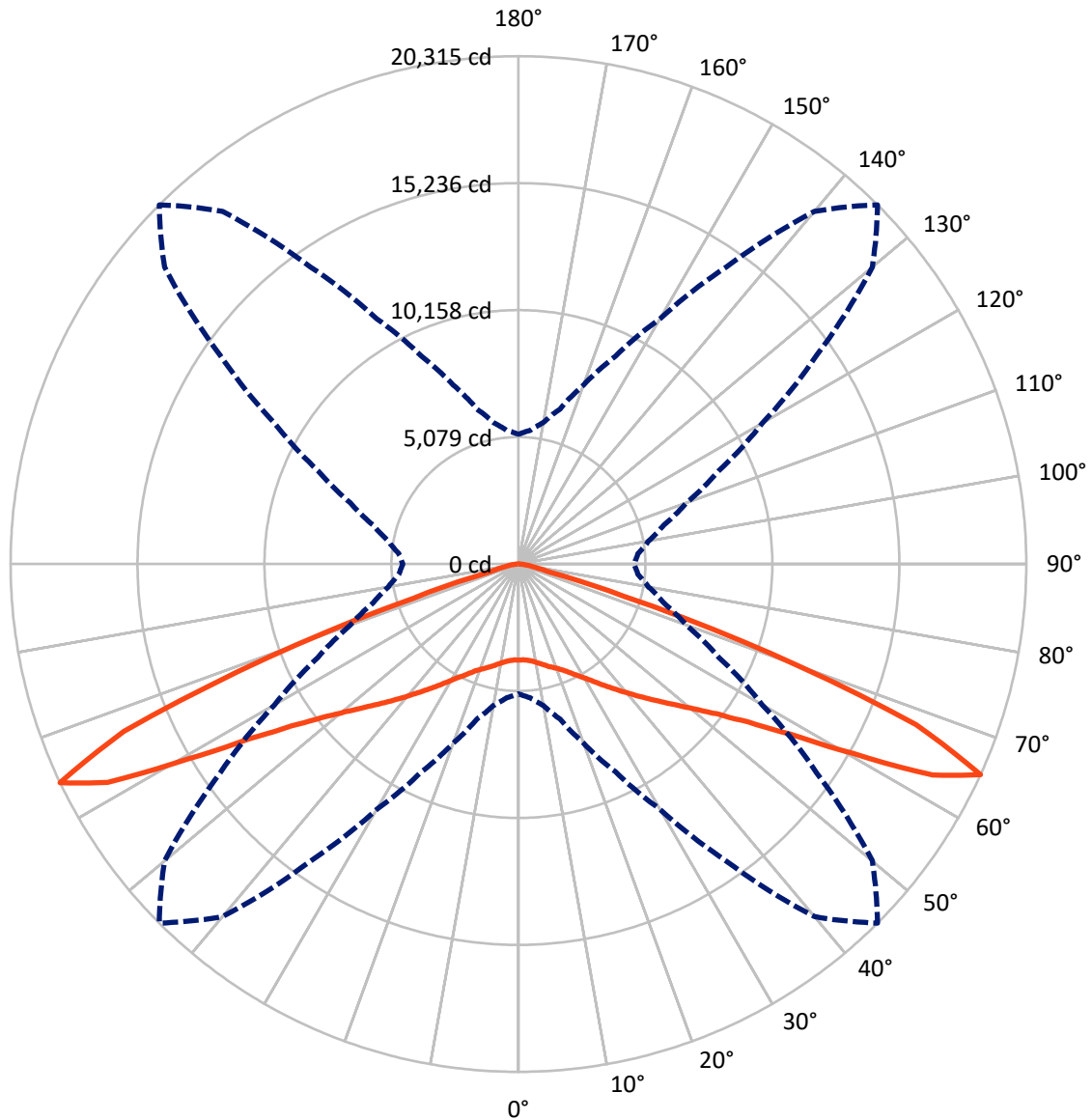


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192585

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7030-800-ADJ

Luminous Intensity Polar Plot



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



REPORT NUMBER: P192585

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7030-800-ADJ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16967.9 | 0.0 | 16967.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16967.9 | 0.0 | 16967.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33935.9 | 0.0 | 33935.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 374.3 | 1.1 |
| 10°-20° | 1200.3 | 3.5 |
| 20°-30° | 2244.4 | 6.6 |
| 30°-40° | 3795.9 | 11.2 |
| 40°-50° | 6206.7 | 18.3 |
| 50°-60° | 9869.6 | 29.1 |
| 60°-70° | 8921.5 | 26.3 |
| 70°-80° | 1129.0 | 3.3 |
| 80°-90° | 194.2 | 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° | 33935.9 | 100.0 |
| 0°-180° | 33935.9 | 100.0 |



REPORT NUMBER: P192585

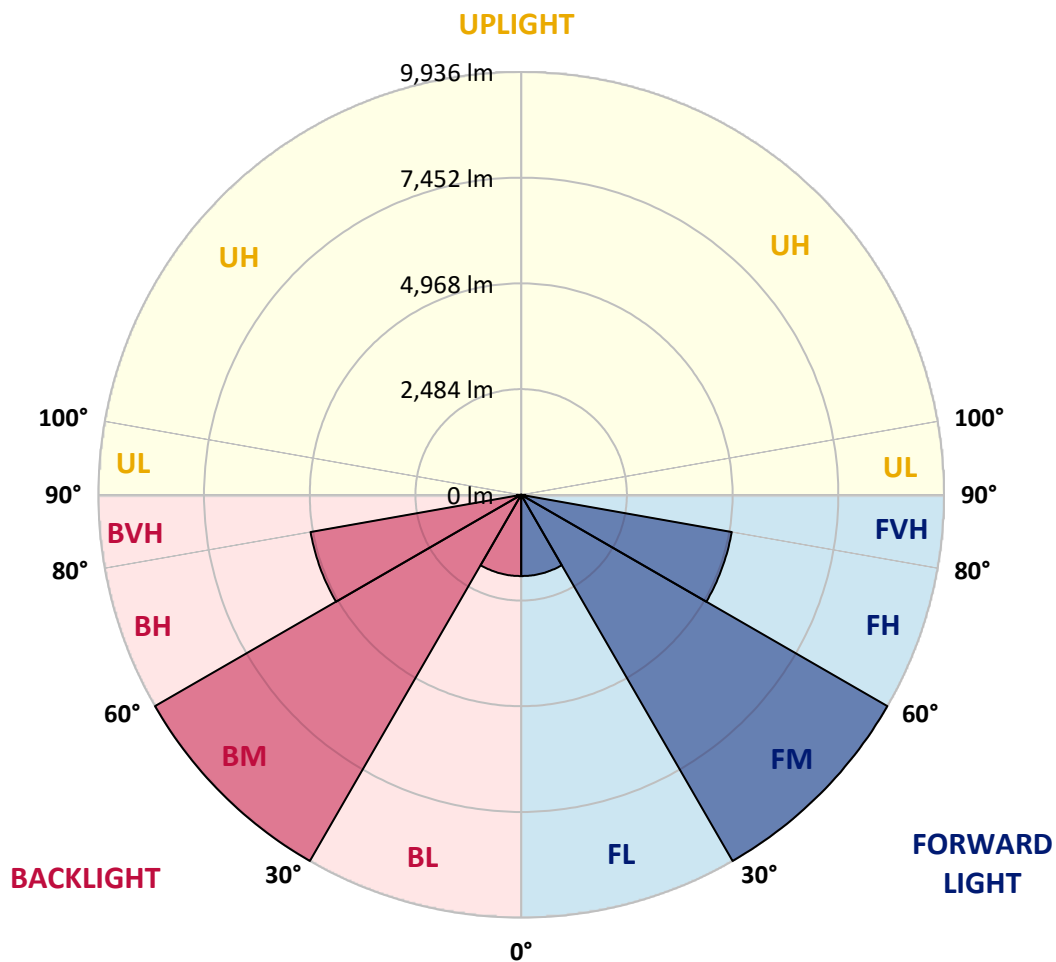
CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7030-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1909.5 | 5.6 | | | |
| FM | (30°-60°) | 9936.1 | 29.3 | | | |
| FH | (60°-80°) | 5025.3 | 14.8 | | | G3/7500 |
| FVH | (80°-90°) | 97.1 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1909.5 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 9936.1 | 29.3 | B5 | | |
| BH | (60°-80°) | 5025.3 | 14.8 | B5 | | G3/7500 |
| BVH | (80°-90°) | 97.1 | 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-G3

Type V Short





REPORT NUMBER: P192585

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7030-800-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 |
| 2.5° | 3843.0 | 3846.3 | 3849.4 | 3846.3 | 3849.4 | 3844.7 | 3841.4 | 3846.3 | 3841.4 | 3836.6 | 3839.9 |
| 5° | 3876.4 | 3878.0 | 3878.0 | 3873.2 | 3878.0 | 3874.9 | 3870.1 | 3876.4 | 3871.6 | 3866.9 | 3870.1 |
| 7.5° | 3932.0 | 3938.4 | 3933.7 | 3928.9 | 3932.0 | 3928.9 | 3925.6 | 3927.4 | 3925.6 | 3920.9 | 3922.5 |
| 10° | 4006.7 | 4011.6 | 4008.2 | 4006.7 | 4010.0 | 4008.2 | 4005.1 | 4003.6 | 4005.1 | 4000.4 | 4000.4 |
| 12.5° | 4097.3 | 4095.8 | 4094.2 | 4095.8 | 4100.5 | 4100.5 | 4099.0 | 4100.5 | 4103.7 | 4105.3 | 4102.1 |
| 15° | 4186.4 | 4189.5 | 4189.5 | 4189.5 | 4199.1 | 4207.0 | 4211.7 | 4215.0 | 4221.3 | 4222.9 | 4216.6 |
| 17.5° | 4297.6 | 4297.6 | 4296.0 | 4297.6 | 4307.1 | 4319.9 | 4324.6 | 4330.9 | 4337.4 | 4342.1 | 4334.2 |
| 20° | 4421.6 | 4424.8 | 4424.8 | 4427.9 | 4440.7 | 4454.9 | 4454.9 | 4458.1 | 4454.9 | 4458.1 | 4453.4 |
| 22.5° | 4572.6 | 4582.2 | 4582.2 | 4583.7 | 4596.4 | 4613.9 | 4609.1 | 4613.9 | 4606.0 | 4612.3 | 4606.0 |
| 25° | 4769.6 | 4783.9 | 4780.7 | 4780.7 | 4790.3 | 4801.4 | 4803.0 | 4812.6 | 4811.0 | 4818.9 | 4814.2 |
| 27.5° | 4992.2 | 5014.4 | 5020.8 | 5019.2 | 5025.5 | 5036.7 | 5039.8 | 5050.9 | 5044.6 | 5050.9 | 5047.8 |
| 30° | 5259.2 | 5268.7 | 5281.4 | 5286.2 | 5294.1 | 5305.3 | 5305.3 | 5306.8 | 5298.8 | 5308.5 | 5313.2 |
| 32.5° | 5535.7 | 5553.2 | 5565.8 | 5594.5 | 5608.9 | 5616.8 | 5615.2 | 5618.3 | 5610.4 | 5623.1 | 5632.7 |
| 35° | 5901.2 | 5913.9 | 5934.6 | 5957.0 | 5975.9 | 5974.4 | 5969.6 | 5971.2 | 5971.2 | 5982.3 | 5991.9 |
| 37.5° | 6341.5 | 6344.6 | 6371.7 | 6403.4 | 6413.0 | 6403.4 | 6374.8 | 6368.5 | 6354.2 | 6368.5 | 6384.4 |
| 40° | 6807.2 | 6818.4 | 6872.3 | 6893.0 | 6897.7 | 6880.3 | 6839.0 | 6815.1 | 6783.4 | 6800.9 | 6823.1 |
| 42.5° | 7295.1 | 7317.3 | 7366.6 | 7403.2 | 7419.0 | 7408.0 | 7350.8 | 7314.2 | 7272.9 | 7282.3 | 7304.6 |
| 45° | 7835.5 | 7862.6 | 7932.4 | 7967.4 | 7997.6 | 7980.1 | 7924.5 | 7868.9 | 7803.8 | 7808.4 | 7843.4 |
| 47.5° | 8439.4 | 8466.5 | 8557.0 | 8615.8 | 8631.8 | 8628.5 | 8566.6 | 8490.3 | 8401.3 | 8398.1 | 8428.4 |
| 50° | 9116.5 | 9143.6 | 9256.3 | 9346.9 | 9393.0 | 9388.3 | 9315.2 | 9207.1 | 9099.0 | 9100.6 | 9138.8 |
| 52.5° | 9777.7 | 9811.1 | 9928.7 | 10084.4 | 10175.0 | 10240.3 | 10195.6 | 10093.9 | 9962.0 | 9965.2 | 10000.2 |
| 55° | 10397.5 | 10453.2 | 10588.2 | 10799.6 | 10968.1 | 11150.9 | 11203.3 | 11200.1 | 11120.6 | 11143.0 | 11177.9 |
| 57.5° | 10697.9 | 10780.6 | 10988.8 | 11322.5 | 11665.8 | 12037.7 | 12352.5 | 12587.6 | 12687.7 | 12838.7 | 12803.8 |
| 60° | 10128.9 | 10260.9 | 10567.5 | 11058.6 | 11737.4 | 12512.9 | 13344.2 | 14156.2 | 14849.3 | 15372.2 | 15071.8 |
| 62.5° | 8293.3 | 8464.9 | 8836.8 | 9466.1 | 10492.9 | 11734.1 | 13325.1 | 15245.1 | 17336.6 | 18598.5 | 17697.4 |
| 65° | 5189.3 | 5367.3 | 5745.5 | 6419.4 | 7621.0 | 9164.2 | 11322.5 | 14504.3 | 18412.6 | 20315.0 | 18480.9 |
| 67.5° | 2023.3 | 2120.1 | 2325.2 | 2755.9 | 3658.6 | 5031.8 | 7198.1 | 10809.1 | 15483.4 | 17150.7 | 15195.8 |
| 70° | 1014.0 | 1023.5 | 1061.7 | 1141.1 | 1335.0 | 1734.0 | 2638.3 | 5011.1 | 8879.7 | 10724.9 | 8560.3 |
| 72.5° | 732.7 | 734.3 | 753.4 | 788.3 | 850.2 | 939.3 | 1110.9 | 1533.7 | 2887.8 | 4413.6 | 2706.7 |
| 75° | 561.0 | 567.4 | 578.5 | 597.6 | 631.0 | 675.4 | 737.5 | 883.7 | 1095.1 | 1269.9 | 1068.0 |
| 77.5° | 432.3 | 445.0 | 453.0 | 470.5 | 491.1 | 521.2 | 538.7 | 594.4 | 691.4 | 727.8 | 716.8 |
| 80° | 329.0 | 340.2 | 357.6 | 371.9 | 386.2 | 400.6 | 394.2 | 419.5 | 470.5 | 500.6 | 484.8 |
| 82.5° | 209.8 | 222.6 | 273.3 | 286.0 | 292.5 | 302.0 | 290.8 | 292.5 | 314.6 | 333.8 | 314.6 |
| 85° | 135.1 | 143.0 | 173.2 | 189.1 | 190.7 | 197.1 | 192.3 | 181.2 | 181.2 | 165.3 | 186.0 |
| 87.5° | 62.0 | 63.6 | 77.9 | 92.3 | 95.4 | 85.9 | 84.2 | 81.1 | 65.1 | 62.0 | 66.7 |
| 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: P192585

CATALOG NUMBER: GAN-AF-07-LED-U-5NQ-7030-800-ADJ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 | 3839.9 |
| 2.5° | 3838.3 | 3841.4 | 3843.0 | 3847.8 | 3849.4 | 3849.4 | 3851.0 | 3854.1 |
| 5° | 3868.5 | 3873.2 | 3874.9 | 3881.2 | 3882.7 | 3881.2 | 3884.3 | 3886.0 |
| 7.5° | 3922.5 | 3930.5 | 3933.7 | 3940.0 | 3935.2 | 3941.6 | 3943.1 | 3943.1 |
| 10° | 4001.9 | 4010.0 | 4011.6 | 4017.9 | 4014.7 | 4017.9 | 4017.9 | 4014.7 |
| 12.5° | 4106.8 | 4108.4 | 4103.7 | 4108.4 | 4102.1 | 4105.3 | 4100.5 | 4097.3 |
| 15° | 4222.9 | 4218.2 | 4207.0 | 4207.0 | 4197.5 | 4199.1 | 4197.5 | 4195.9 |
| 17.5° | 4335.7 | 4326.2 | 4318.3 | 4315.0 | 4307.1 | 4305.6 | 4300.8 | 4300.8 |
| 20° | 4459.8 | 4454.9 | 4450.1 | 4443.8 | 4435.9 | 4427.9 | 4426.3 | 4429.5 |
| 22.5° | 4609.1 | 4607.6 | 4607.6 | 4604.3 | 4593.3 | 4585.3 | 4580.4 | 4580.4 |
| 25° | 4809.4 | 4795.1 | 4795.1 | 4793.5 | 4788.8 | 4783.9 | 4774.4 | 4779.2 |
| 27.5° | 5035.1 | 5027.1 | 5033.5 | 5031.8 | 5027.1 | 5027.1 | 5020.8 | 5020.8 |
| 30° | 5313.2 | 5310.0 | 5319.5 | 5311.6 | 5295.7 | 5294.1 | 5287.7 | 5279.9 |
| 32.5° | 5634.3 | 5631.1 | 5645.3 | 5635.8 | 5610.4 | 5596.2 | 5583.3 | 5577.0 |
| 35° | 5991.9 | 5993.4 | 6010.9 | 6004.6 | 5975.9 | 5966.4 | 5944.1 | 5941.0 |
| 37.5° | 6382.8 | 6408.3 | 6438.4 | 6444.7 | 6420.9 | 6414.6 | 6390.8 | 6378.0 |
| 40° | 6842.2 | 6875.5 | 6921.6 | 6932.7 | 6907.3 | 6902.6 | 6869.1 | 6851.6 |
| 42.5° | 7331.7 | 7388.8 | 7446.1 | 7455.7 | 7430.1 | 7404.8 | 7373.1 | 7360.2 |
| 45° | 7878.3 | 7946.8 | 8021.5 | 8040.5 | 8002.3 | 7972.2 | 7930.8 | 7930.8 |
| 47.5° | 8491.8 | 8577.7 | 8662.0 | 8714.4 | 8679.4 | 8647.7 | 8598.3 | 8566.6 |
| 50° | 9216.7 | 9334.2 | 9444.0 | 9497.9 | 9442.3 | 9382.0 | 9296.1 | 9267.5 |
| 52.5° | 10125.7 | 10252.9 | 10348.3 | 10319.6 | 10233.8 | 10149.6 | 10055.7 | 10017.7 |
| 55° | 11285.9 | 11328.9 | 11328.9 | 11220.8 | 11049.2 | 10907.7 | 10759.9 | 10710.5 |
| 57.5° | 12737.0 | 12571.8 | 12317.5 | 11994.8 | 11589.5 | 11236.7 | 10998.2 | 10885.5 |
| 60° | 14442.4 | 13647.8 | 12749.8 | 11867.6 | 11143.0 | 10545.3 | 10190.9 | 10028.8 |
| 62.5° | 15578.8 | 13500.0 | 11700.8 | 10284.7 | 9242.0 | 8522.1 | 8032.5 | 7841.9 |
| 65° | 14560.0 | 11258.9 | 8849.5 | 7155.3 | 6018.9 | 5286.2 | 4801.4 | 4623.5 |
| 67.5° | 10664.6 | 7055.1 | 4712.5 | 3377.3 | 2474.6 | 1974.0 | 1775.4 | 1692.7 |
| 70° | 4787.0 | 2484.1 | 1522.6 | 1188.8 | 1025.2 | 940.9 | 904.3 | 891.7 |
| 72.5° | 1443.1 | 1044.2 | 880.5 | 794.7 | 729.6 | 688.3 | 658.0 | 654.8 |
| 75° | 871.1 | 724.7 | 643.6 | 592.8 | 551.5 | 518.1 | 502.3 | 497.4 |
| 77.5° | 608.7 | 532.4 | 494.3 | 457.7 | 425.9 | 400.6 | 386.2 | 375.1 |
| 80° | 427.5 | 390.9 | 373.4 | 352.8 | 332.1 | 308.3 | 287.7 | 278.2 |
| 82.5° | 286.0 | 278.2 | 278.2 | 265.4 | 247.9 | 225.7 | 184.3 | 174.9 |
| 85° | 184.3 | 182.8 | 186.0 | 181.2 | 168.5 | 144.7 | 119.2 | 112.9 |
| 87.5° | 85.9 | 87.4 | 96.9 | 95.4 | 92.3 | 76.3 | 60.4 | 57.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)