

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: P300700

Luminaire Tested: **GAA-AF-08-LED-U-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300700
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: GAA-AF-08-LED-U-RW-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32014.1 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

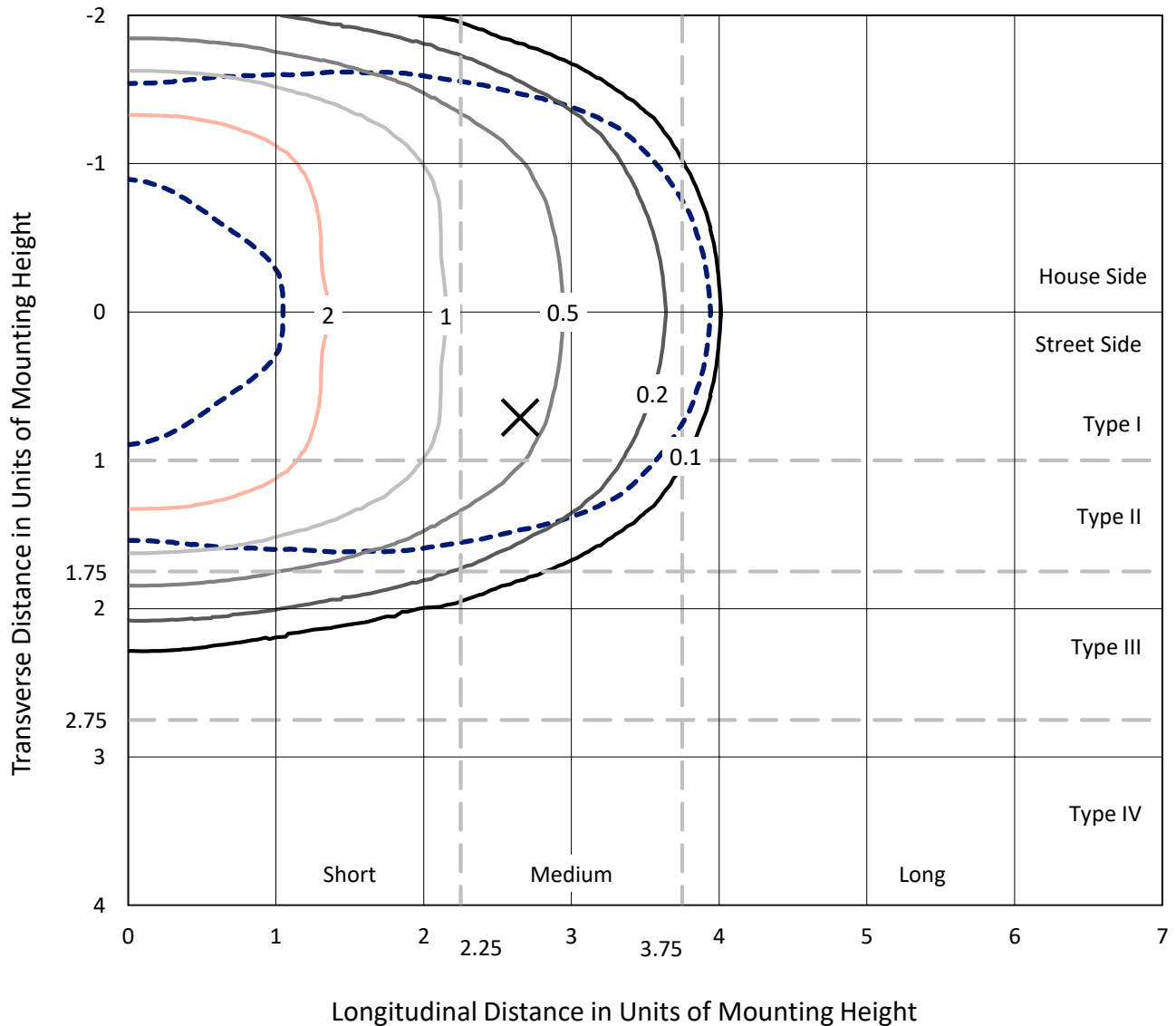
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

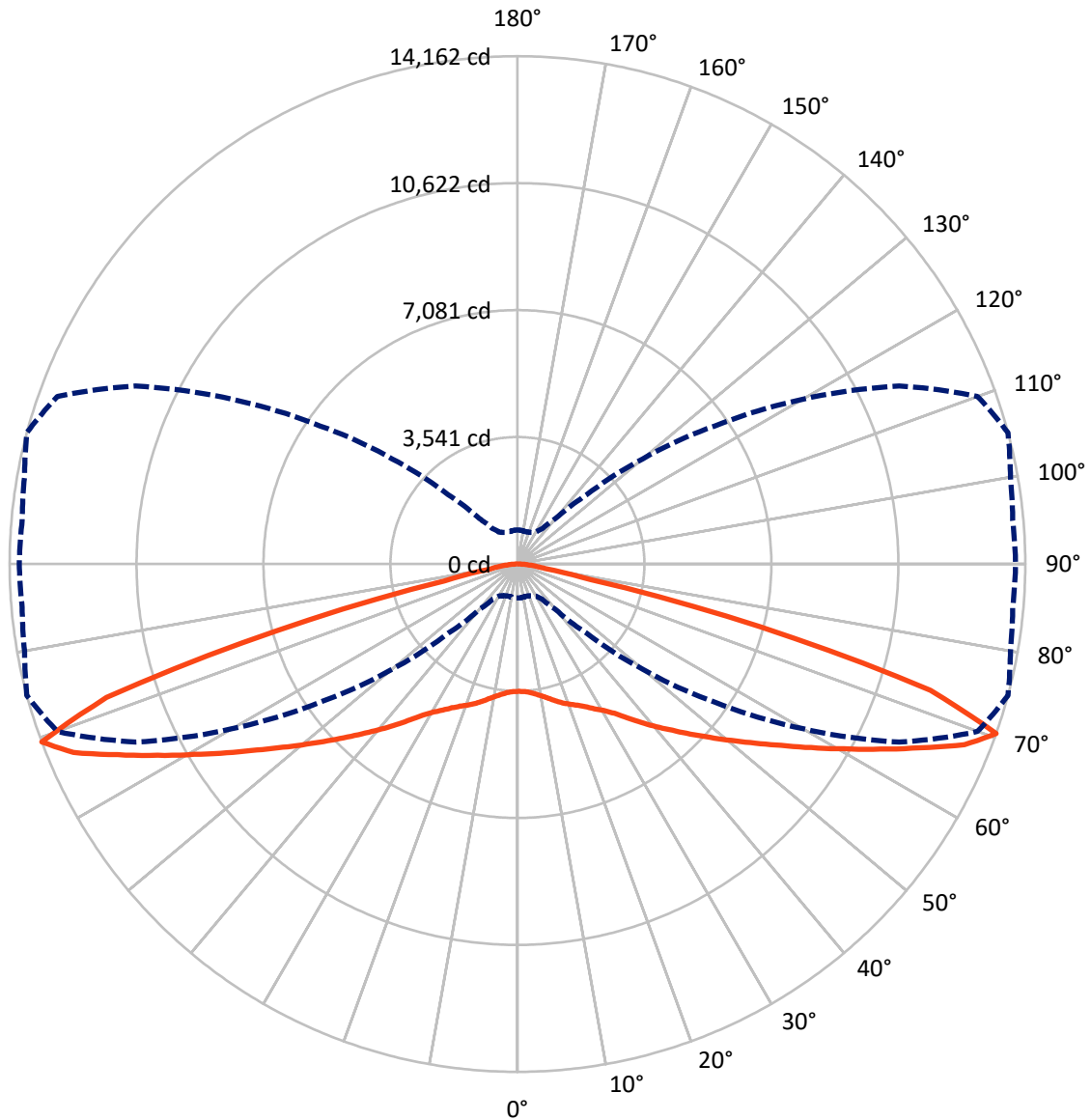


Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16007.0 | 0.0 | 16007.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16007.0 | 0.0 | 16007.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32014.1 | 0.0 | 32014.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 340.6 | 1.1 |
| 10°-20° | 1058.2 | 3.3 |
| 20°-30° | 1991.8 | 6.2 |
| 30°-40° | 3527.0 | 11.0 |
| 40°-50° | 5898.3 | 18.4 |
| 50°-60° | 8219.3 | 25.7 |
| 60°-70° | 7622.1 | 23.8 |
| 70°-80° | 3037.6 | 9.5 |
| 80°-90° | 319.3 | 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° | 32014.1 | 100.0 |
| 0°-180° | 32014.1 | 100.0 |



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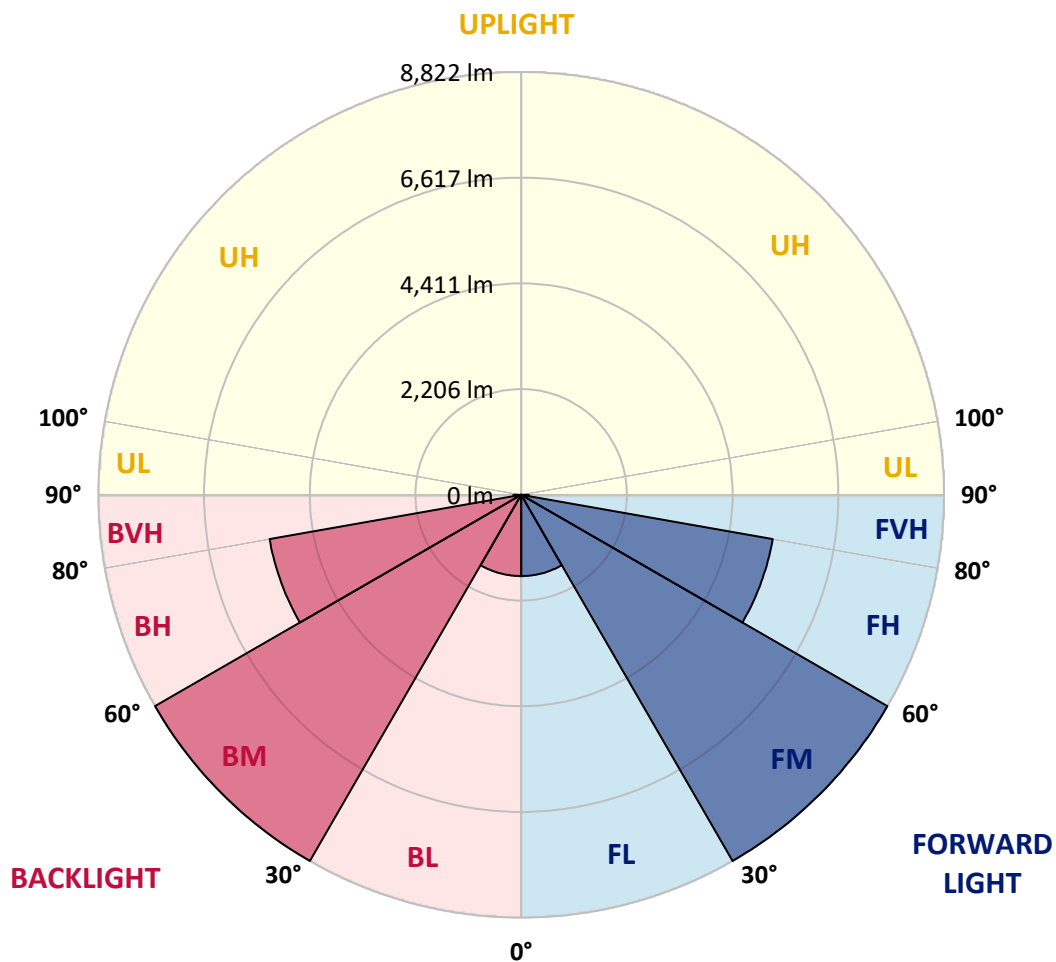
CATALOG NUMBER: GAA-AF-08-LED-U-RW-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1695.3 | 5.3 | | | |
| FM (30°-60°) | 8822.3 | 27.6 | | | |
| FH (60°-80°) | 5329.8 | 16.6 | | | G3/7500 |
| FVH (80°-90°) | 159.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1695.3 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 8822.3 | 27.6 | B5 | | |
| BH (60°-80°) | 5329.8 | 16.6 | B5 | | G3/7500 |
| BVH (80°-90°) | 159.6 | 0.5 | | | G2/225 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 |
| 2.5° | 3545.1 | 3542.0 | 3545.1 | 3543.5 | 3546.6 | 3546.6 | 3549.6 | 3555.6 | 3555.6 | 3560.2 | 3558.7 |
| 5° | 3510.3 | 3508.7 | 3513.3 | 3517.8 | 3522.4 | 3531.4 | 3540.5 | 3554.1 | 3564.7 | 3572.3 | 3579.9 |
| 7.5° | 3442.2 | 3442.2 | 3448.2 | 3458.8 | 3469.4 | 3489.1 | 3510.3 | 3537.5 | 3564.7 | 3587.4 | 3607.1 |
| 10° | 3386.2 | 3389.2 | 3396.8 | 3414.9 | 3433.1 | 3463.4 | 3492.1 | 3531.4 | 3569.3 | 3607.1 | 3637.4 |
| 12.5° | 3352.9 | 3357.4 | 3371.1 | 3398.3 | 3428.6 | 3469.4 | 3513.3 | 3563.2 | 3605.6 | 3651.0 | 3681.2 |
| 15° | 3363.5 | 3366.5 | 3386.2 | 3419.5 | 3458.8 | 3510.3 | 3569.3 | 3628.3 | 3678.2 | 3726.6 | 3767.5 |
| 17.5° | 3422.5 | 3427.0 | 3449.7 | 3487.6 | 3528.4 | 3588.9 | 3652.5 | 3719.1 | 3781.1 | 3835.6 | 3885.5 |
| 20° | 3528.4 | 3533.0 | 3561.7 | 3602.6 | 3651.0 | 3713.0 | 3776.6 | 3846.2 | 3915.8 | 3973.2 | 4029.2 |
| 22.5° | 3678.2 | 3685.8 | 3713.0 | 3753.9 | 3808.3 | 3874.9 | 3950.6 | 4024.7 | 4091.3 | 4144.2 | 4194.2 |
| 25° | 3874.9 | 3891.5 | 3917.3 | 3962.7 | 4020.2 | 4080.7 | 4162.4 | 4238.0 | 4301.6 | 4351.5 | 4387.8 |
| 27.5° | 4153.3 | 4176.0 | 4195.7 | 4239.5 | 4295.5 | 4353.0 | 4434.7 | 4501.3 | 4561.8 | 4610.2 | 4637.5 |
| 30° | 4522.5 | 4545.2 | 4564.8 | 4607.2 | 4658.7 | 4713.1 | 4790.3 | 4849.3 | 4887.1 | 4925.0 | 4923.4 |
| 32.5° | 4970.3 | 4994.6 | 5002.1 | 5047.5 | 5100.5 | 5159.5 | 5229.1 | 5262.4 | 5292.6 | 5297.2 | 5269.9 |
| 35° | 5471.2 | 5483.3 | 5513.5 | 5574.0 | 5634.6 | 5683.0 | 5749.6 | 5766.2 | 5766.2 | 5743.5 | 5683.0 |
| 37.5° | 6020.4 | 6028.0 | 6070.3 | 6138.4 | 6200.4 | 6250.4 | 6295.8 | 6329.1 | 6312.4 | 6264.0 | 6162.6 |
| 40° | 6622.6 | 6636.2 | 6696.7 | 6757.2 | 6826.8 | 6873.7 | 6922.2 | 6928.2 | 6911.6 | 6840.5 | 6702.8 |
| 42.5° | 7197.5 | 7209.6 | 7270.2 | 7365.5 | 7456.3 | 7521.3 | 7566.7 | 7575.8 | 7522.8 | 7457.8 | 7286.8 |
| 45° | 7692.3 | 7724.1 | 7802.8 | 7914.7 | 8046.4 | 8138.7 | 8200.7 | 8226.4 | 8179.5 | 8094.8 | 7896.6 |
| 47.5° | 8084.2 | 8116.0 | 8227.9 | 8361.1 | 8524.5 | 8674.3 | 8777.2 | 8831.6 | 8819.5 | 8756.0 | 8539.6 |
| 50° | 8371.7 | 8401.9 | 8523.0 | 8686.4 | 8877.0 | 9063.1 | 9238.6 | 9368.8 | 9414.1 | 9385.4 | 9187.2 |
| 52.5° | 8404.9 | 8454.9 | 8597.1 | 8816.5 | 9064.6 | 9318.8 | 9568.5 | 9789.4 | 9939.2 | 9961.9 | 9815.1 |
| 55° | 7940.4 | 7990.4 | 8187.1 | 8512.4 | 8881.6 | 9296.1 | 9695.6 | 10067.8 | 10362.8 | 10514.1 | 10437.0 |
| 57.5° | 6845.0 | 6934.3 | 7141.6 | 7522.8 | 8066.0 | 8686.4 | 9323.4 | 9984.6 | 10585.2 | 10986.2 | 11063.4 |
| 60° | 5245.7 | 5351.6 | 5560.4 | 5965.9 | 6571.1 | 7311.0 | 8161.3 | 9138.8 | 10199.4 | 11101.2 | 11639.8 |
| 62.5° | 3365.0 | 3464.9 | 3684.3 | 4036.8 | 4530.0 | 5332.0 | 6244.3 | 7404.8 | 8830.1 | 10253.9 | 11536.9 |
| 65° | 1729.4 | 1783.9 | 1898.9 | 2112.2 | 2496.5 | 3095.7 | 3914.2 | 5071.7 | 6701.3 | 8457.9 | 10312.9 |
| 67.5° | 1095.4 | 1106.0 | 1131.8 | 1162.0 | 1260.4 | 1467.7 | 1848.9 | 2570.7 | 3911.2 | 5743.5 | 7914.7 |
| 70° | 947.2 | 947.2 | 935.1 | 930.5 | 942.6 | 971.4 | 1030.4 | 1198.3 | 1650.7 | 2726.5 | 4564.8 |
| 72.5° | 867.0 | 857.9 | 836.7 | 820.1 | 817.0 | 817.0 | 829.1 | 854.9 | 927.5 | 1110.6 | 1786.9 |
| 75° | 798.9 | 773.2 | 744.4 | 724.7 | 717.2 | 709.6 | 708.1 | 712.6 | 727.8 | 756.5 | 853.4 |
| 77.5° | 715.7 | 682.4 | 649.1 | 629.4 | 620.3 | 609.8 | 600.7 | 590.1 | 582.5 | 591.6 | 634.0 |
| 80° | 615.8 | 578.0 | 552.3 | 540.2 | 531.1 | 515.9 | 496.3 | 478.1 | 461.5 | 458.5 | 484.2 |
| 82.5° | 496.3 | 452.4 | 453.9 | 458.5 | 441.8 | 420.6 | 399.4 | 379.8 | 351.0 | 335.9 | 351.0 |
| 85° | 401.0 | 378.3 | 367.7 | 396.4 | 372.2 | 340.4 | 307.1 | 272.3 | 227.0 | 190.6 | 207.3 |
| 87.5° | 155.8 | 155.8 | 233.0 | 358.6 | 322.3 | 263.3 | 225.4 | 192.2 | 119.5 | 92.3 | 93.8 |
| 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: GAA-AF-08-LED-U-RW-600

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 | 3551.1 |
| 2.5° | 3557.2 | 3560.2 | 3558.7 | 3557.2 | 3557.2 | 3555.6 | 3557.2 | 3557.2 |
| 5° | 3584.4 | 3592.0 | 3592.0 | 3595.0 | 3595.0 | 3596.5 | 3598.0 | 3596.5 |
| 7.5° | 3625.2 | 3638.9 | 3647.9 | 3658.5 | 3660.0 | 3661.6 | 3664.6 | 3661.6 |
| 10° | 3666.1 | 3693.3 | 3713.0 | 3732.7 | 3741.8 | 3744.8 | 3747.8 | 3747.8 |
| 12.5° | 3717.5 | 3755.4 | 3790.2 | 3825.0 | 3841.6 | 3850.7 | 3850.7 | 3856.7 |
| 15° | 3802.3 | 3840.1 | 3881.0 | 3927.9 | 3956.6 | 3971.7 | 3976.3 | 3976.3 |
| 17.5° | 3921.8 | 3955.1 | 3989.9 | 4035.3 | 4071.6 | 4091.3 | 4095.8 | 4094.3 |
| 20° | 4061.0 | 4092.8 | 4112.4 | 4141.2 | 4173.0 | 4195.7 | 4201.7 | 4201.7 |
| 22.5° | 4219.9 | 4238.0 | 4241.1 | 4250.1 | 4275.9 | 4306.1 | 4319.7 | 4322.8 |
| 25° | 4395.4 | 4399.9 | 4387.8 | 4387.8 | 4404.5 | 4433.2 | 4446.8 | 4448.3 |
| 27.5° | 4622.3 | 4599.6 | 4569.4 | 4558.8 | 4569.4 | 4602.7 | 4619.3 | 4625.4 |
| 30° | 4905.3 | 4850.8 | 4781.2 | 4743.4 | 4737.3 | 4781.2 | 4811.5 | 4816.0 |
| 32.5° | 5229.1 | 5150.4 | 5058.1 | 4980.9 | 4961.3 | 4988.5 | 5024.8 | 5023.3 |
| 35° | 5613.4 | 5519.6 | 5407.6 | 5309.3 | 5263.9 | 5291.1 | 5342.5 | 5348.6 |
| 37.5° | 6056.7 | 5934.1 | 5805.5 | 5681.5 | 5610.4 | 5617.9 | 5672.4 | 5690.5 |
| 40° | 6551.5 | 6392.6 | 6230.7 | 6064.3 | 5962.9 | 5943.2 | 6009.8 | 6020.4 |
| 42.5° | 7081.0 | 6876.8 | 6672.5 | 6466.7 | 6336.6 | 6306.4 | 6383.5 | 6379.0 |
| 45° | 7645.4 | 7385.2 | 7146.1 | 6919.1 | 6764.8 | 6719.4 | 6783.0 | 6783.0 |
| 47.5° | 8252.1 | 7931.4 | 7646.9 | 7389.7 | 7221.7 | 7156.7 | 7217.2 | 7221.7 |
| 50° | 8895.2 | 8554.7 | 8220.4 | 7934.4 | 7733.2 | 7649.9 | 7728.6 | 7740.7 |
| 52.5° | 9535.2 | 9203.8 | 8866.4 | 8539.6 | 8296.0 | 8194.6 | 8285.4 | 8324.8 |
| 55° | 10184.3 | 9859.0 | 9536.7 | 9217.4 | 8928.5 | 8808.9 | 8905.8 | 8955.7 |
| 57.5° | 10869.7 | 10568.6 | 10261.4 | 9939.2 | 9660.8 | 9474.7 | 9577.6 | 9644.1 |
| 60° | 11673.1 | 11415.9 | 11096.6 | 10741.1 | 10459.7 | 10270.5 | 10329.5 | 10388.5 |
| 62.5° | 12308.6 | 12408.5 | 12137.6 | 11726.1 | 11364.5 | 11122.4 | 11179.9 | 11241.9 |
| 65° | 12001.4 | 13025.8 | 13266.3 | 12850.3 | 12349.4 | 11972.7 | 11948.5 | 11980.3 |
| 67.5° | 10031.5 | 12021.1 | 13472.1 | 13868.5 | 13449.4 | 12925.9 | 12829.1 | 12876.0 |
| 70° | 6710.3 | 9188.7 | 11748.8 | 13655.2 | 14162.1 | 13959.3 | 13864.0 | 13892.7 |
| 72.5° | 3222.8 | 5351.6 | 7970.7 | 10505.0 | 12048.4 | 12756.5 | 12983.4 | 13093.9 |
| 75° | 1178.7 | 2124.3 | 3841.6 | 5788.9 | 6988.7 | 8090.2 | 8808.9 | 9102.5 |
| 77.5° | 711.1 | 857.9 | 1227.1 | 1847.4 | 2092.5 | 2342.2 | 2245.4 | 2293.8 |
| 80° | 526.5 | 594.6 | 673.3 | 756.5 | 783.8 | 783.8 | 753.5 | 729.3 |
| 82.5° | 369.2 | 413.1 | 450.9 | 496.3 | 508.4 | 485.7 | 399.4 | 317.7 |
| 85° | 237.5 | 257.2 | 273.9 | 302.6 | 295.0 | 281.4 | 189.1 | 167.9 |
| 87.5° | 108.9 | 124.1 | 130.1 | 143.7 | 137.7 | 131.6 | 93.8 | 78.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)