

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: P191014

Luminaire Tested: **GAN-AF-06-LED-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191014
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-06-LED-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37227.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): 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



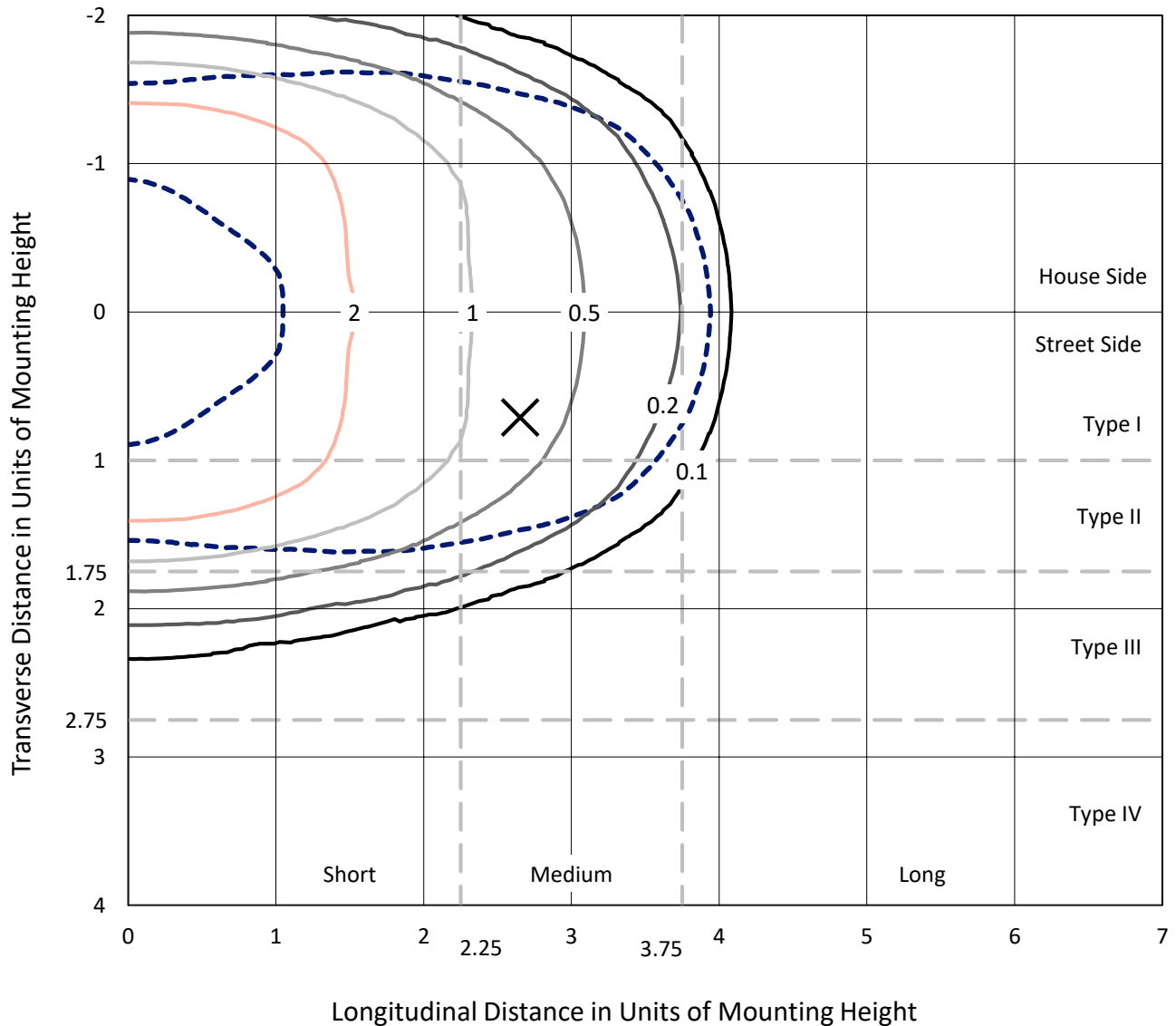


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

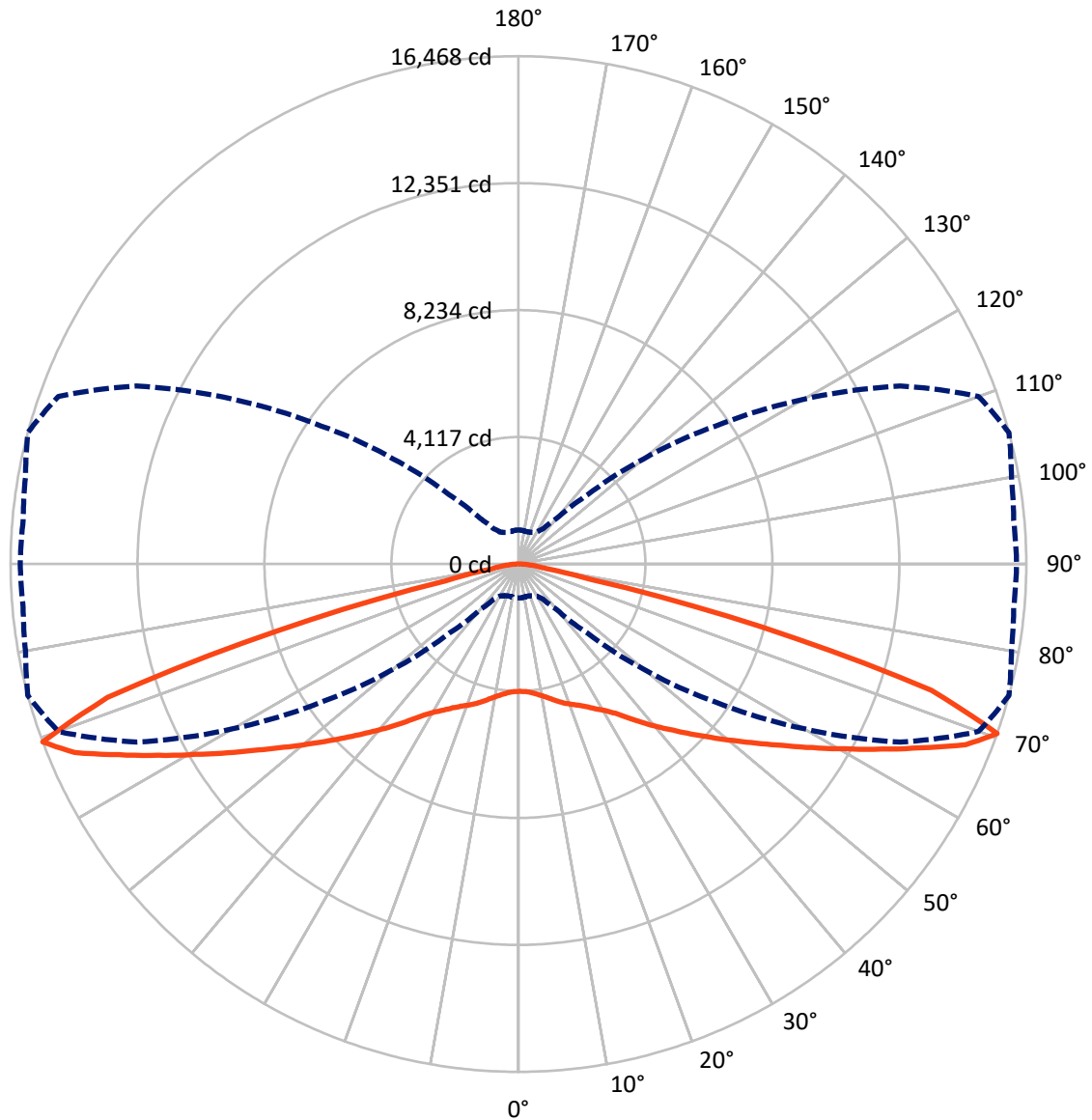


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
Type V - Medium - Full Cutoff

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CATALOG NUMBER: GAN-AF-06-LED-U-RW

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 | 18613.6 | 0.0 | 18613.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18613.6 | 0.0 | 18613.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37227.2 | 0.0 | 37227.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.0 | 1.1 |
| 10°-20° | 1230.6 | 3.3 |
| 20°-30° | 2316.1 | 6.2 |
| 30°-40° | 4101.3 | 11.0 |
| 40°-50° | 6858.8 | 18.4 |
| 50°-60° | 9557.7 | 25.7 |
| 60°-70° | 8863.2 | 23.8 |
| 70°-80° | 3532.3 | 9.5 |
| 80°-90° | 371.3 | 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° | 37227.2 | 100.0 |
| 0°-180° | 37227.2 | 100.0 |

Coefficient of Utilization



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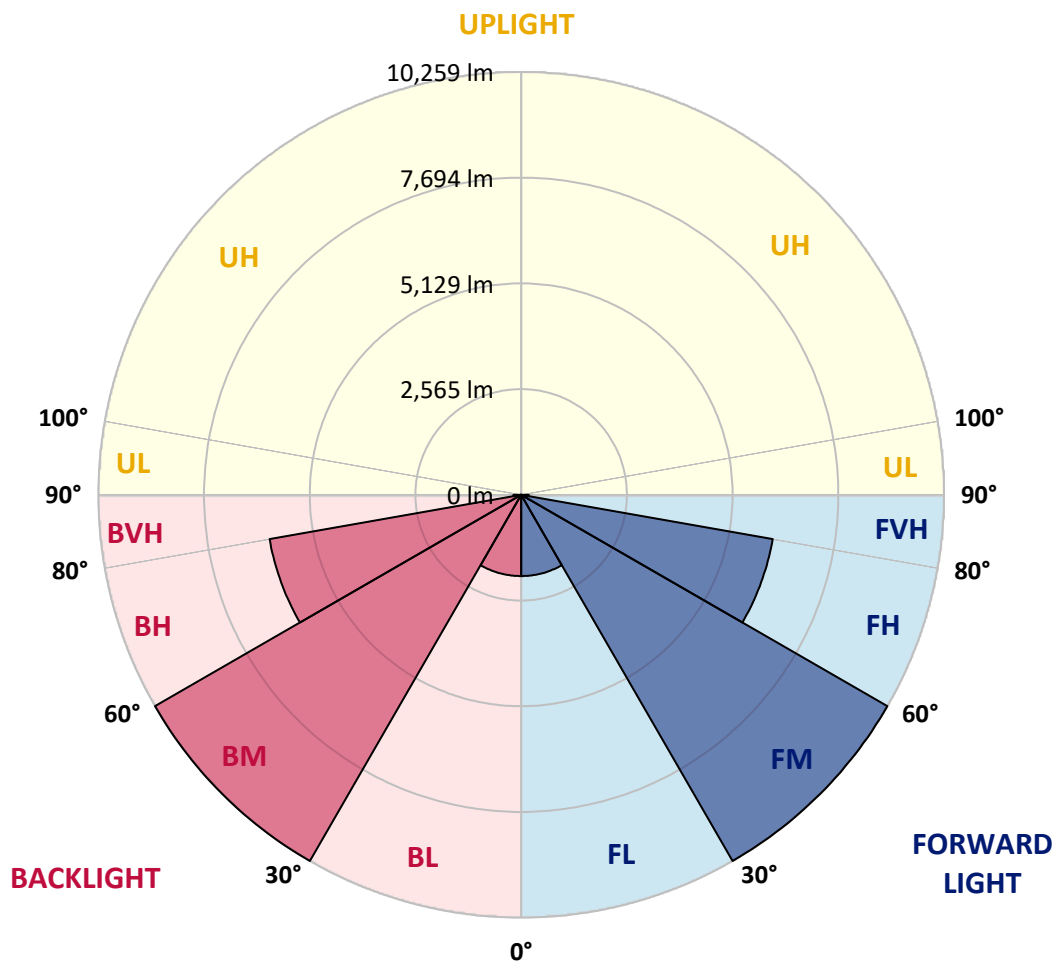
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1971.3 | 5.3 | | | |
| FM | (30°-60°) | 10258.9 | 27.6 | | | |
| FH | (60°-80°) | 6197.7 | 16.6 | | | G3/7500 |
| FVH | (80°-90°) | 185.6 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1971.3 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 10258.9 | 27.6 | B5 | | |
| BH | (60°-80°) | 6197.7 | 16.6 | B5 | | G3/7500 |
| BVH | (80°-90°) | 185.6 | 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° | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 |
| 2.5° | 4122.3 | 4118.8 | 4122.3 | 4120.5 | 4124.1 | 4124.1 | 4127.6 | 4134.7 | 4134.7 | 4139.9 | 4138.1 |
| 5° | 4081.9 | 4080.1 | 4085.4 | 4090.7 | 4095.9 | 4106.5 | 4117.1 | 4132.9 | 4145.2 | 4154.0 | 4162.8 |
| 7.5° | 4002.7 | 4002.7 | 4009.8 | 4022.0 | 4034.3 | 4057.2 | 4081.9 | 4113.5 | 4145.2 | 4171.6 | 4194.5 |
| 10° | 3937.5 | 3941.1 | 3949.9 | 3971.0 | 3992.2 | 4027.4 | 4060.7 | 4106.5 | 4150.5 | 4194.5 | 4229.7 |
| 12.5° | 3898.9 | 3904.2 | 3919.9 | 3951.7 | 3986.8 | 4034.3 | 4085.4 | 4143.5 | 4192.7 | 4245.5 | 4280.6 |
| 15° | 3911.2 | 3914.7 | 3937.5 | 3976.3 | 4022.0 | 4081.9 | 4150.5 | 4219.1 | 4277.2 | 4333.4 | 4381.0 |
| 17.5° | 3979.8 | 3985.1 | 4011.5 | 4055.5 | 4103.0 | 4173.3 | 4247.3 | 4324.6 | 4396.8 | 4460.2 | 4518.2 |
| 20° | 4103.0 | 4108.3 | 4141.7 | 4189.2 | 4245.5 | 4317.7 | 4391.5 | 4472.4 | 4553.4 | 4620.3 | 4685.3 |
| 22.5° | 4277.2 | 4286.0 | 4317.7 | 4365.1 | 4428.5 | 4505.9 | 4593.9 | 4680.1 | 4757.4 | 4819.0 | 4877.1 |
| 25° | 4505.9 | 4525.2 | 4555.1 | 4607.9 | 4674.8 | 4745.2 | 4840.2 | 4928.2 | 5002.0 | 5060.1 | 5102.4 |
| 27.5° | 4829.7 | 4856.0 | 4878.9 | 4929.9 | 4995.0 | 5061.9 | 5156.9 | 5234.2 | 5304.6 | 5361.0 | 5392.6 |
| 30° | 5258.9 | 5285.3 | 5308.2 | 5357.4 | 5417.2 | 5480.6 | 5570.4 | 5638.9 | 5682.9 | 5726.9 | 5725.1 |
| 32.5° | 5779.7 | 5807.9 | 5816.7 | 5869.5 | 5931.0 | 5999.6 | 6080.5 | 6119.3 | 6154.5 | 6159.7 | 6128.1 |
| 35° | 6362.0 | 6376.2 | 6411.3 | 6481.7 | 6552.1 | 6608.4 | 6685.8 | 6705.1 | 6705.1 | 6678.7 | 6608.4 |
| 37.5° | 7000.8 | 7009.6 | 7058.8 | 7137.9 | 7210.2 | 7268.2 | 7321.0 | 7359.6 | 7340.3 | 7284.0 | 7166.2 |
| 40° | 7701.0 | 7716.8 | 7787.2 | 7857.6 | 7938.5 | 7993.0 | 8049.4 | 8056.4 | 8037.0 | 7954.4 | 7794.3 |
| 42.5° | 8369.6 | 8383.7 | 8454.1 | 8564.9 | 8670.4 | 8746.1 | 8798.9 | 8809.4 | 8747.9 | 8672.2 | 8473.4 |
| 45° | 8944.9 | 8981.8 | 9073.4 | 9203.6 | 9356.6 | 9463.9 | 9536.0 | 9566.0 | 9511.4 | 9412.9 | 9182.4 |
| 47.5° | 9400.6 | 9437.5 | 9567.8 | 9722.5 | 9912.6 | 10086.8 | 10206.4 | 10269.7 | 10255.7 | 10181.7 | 9930.2 |
| 50° | 9734.9 | 9770.1 | 9910.9 | 10100.8 | 10322.5 | 10539.0 | 10743.0 | 10894.3 | 10947.1 | 10913.7 | 10683.2 |
| 52.5° | 9773.6 | 9831.7 | 9997.1 | 10252.1 | 10540.7 | 10836.3 | 11126.6 | 11383.5 | 11557.6 | 11584.0 | 11413.4 |
| 55° | 9233.5 | 9291.6 | 9520.2 | 9898.5 | 10327.8 | 10809.9 | 11274.4 | 11707.2 | 12050.3 | 12226.2 | 12136.5 |
| 57.5° | 7959.7 | 8063.4 | 8304.5 | 8747.9 | 9379.4 | 10100.8 | 10841.5 | 11610.4 | 12309.0 | 12775.2 | 12864.9 |
| 60° | 6100.0 | 6223.1 | 6465.9 | 6937.4 | 7641.1 | 8501.5 | 9490.3 | 10626.9 | 11860.3 | 12908.9 | 13535.3 |
| 62.5° | 3913.0 | 4029.1 | 4284.2 | 4694.1 | 5267.7 | 6200.2 | 7261.1 | 8610.6 | 10268.0 | 11923.6 | 13415.6 |
| 65° | 2011.0 | 2074.3 | 2208.0 | 2456.1 | 2903.0 | 3599.8 | 4551.6 | 5897.6 | 7792.5 | 9835.2 | 11992.3 |
| 67.5° | 1273.8 | 1286.2 | 1316.0 | 1351.2 | 1465.6 | 1706.7 | 2150.0 | 2989.3 | 4548.1 | 6678.7 | 9203.6 |
| 70° | 1101.4 | 1101.4 | 1087.3 | 1082.1 | 1096.1 | 1129.5 | 1198.2 | 1393.5 | 1919.6 | 3170.4 | 5308.2 |
| 72.5° | 1008.1 | 997.6 | 972.9 | 953.6 | 950.1 | 950.1 | 964.1 | 994.1 | 1078.5 | 1291.4 | 2077.9 |
| 75° | 928.9 | 899.1 | 865.6 | 842.8 | 834.0 | 825.2 | 823.4 | 828.7 | 846.3 | 879.7 | 992.4 |
| 77.5° | 832.2 | 793.5 | 754.8 | 731.9 | 721.4 | 709.0 | 698.5 | 686.2 | 677.4 | 687.9 | 737.2 |
| 80° | 716.1 | 672.1 | 642.2 | 628.1 | 617.6 | 600.0 | 577.0 | 556.0 | 536.6 | 533.1 | 563.0 |
| 82.5° | 577.0 | 526.1 | 527.8 | 533.1 | 513.7 | 489.1 | 464.5 | 441.6 | 408.2 | 390.6 | 408.2 |
| 85° | 466.3 | 439.9 | 427.5 | 460.9 | 432.8 | 395.9 | 357.1 | 316.7 | 263.9 | 221.7 | 241.0 |
| 87.5° | 181.3 | 181.3 | 271.0 | 417.0 | 374.7 | 306.2 | 262.2 | 223.4 | 139.0 | 107.3 | 109.0 |
| 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-RW

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 | 4129.3 |
| 2.5° | 4136.4 | 4139.9 | 4138.1 | 4136.4 | 4136.4 | 4134.7 | 4136.4 | 4136.4 |
| 5° | 4168.1 | 4176.9 | 4176.9 | 4180.4 | 4180.4 | 4182.1 | 4183.9 | 4182.1 |
| 7.5° | 4215.6 | 4231.4 | 4242.0 | 4254.2 | 4256.1 | 4257.8 | 4261.3 | 4257.8 |
| 10° | 4263.0 | 4294.8 | 4317.7 | 4340.5 | 4351.0 | 4354.6 | 4358.1 | 4358.1 |
| 12.5° | 4322.9 | 4366.9 | 4407.4 | 4447.8 | 4467.2 | 4477.8 | 4477.8 | 4484.8 |
| 15° | 4421.4 | 4465.4 | 4513.0 | 4567.5 | 4600.9 | 4618.5 | 4623.7 | 4623.7 |
| 17.5° | 4560.4 | 4599.1 | 4639.6 | 4692.4 | 4734.6 | 4757.4 | 4762.8 | 4761.0 |
| 20° | 4722.2 | 4759.3 | 4782.1 | 4815.5 | 4852.5 | 4878.9 | 4885.9 | 4885.9 |
| 22.5° | 4907.0 | 4928.2 | 4931.6 | 4942.2 | 4972.2 | 5007.3 | 5023.2 | 5026.7 |
| 25° | 5111.2 | 5116.4 | 5102.4 | 5102.4 | 5121.7 | 5155.2 | 5170.9 | 5172.8 |
| 27.5° | 5375.0 | 5348.6 | 5313.4 | 5301.1 | 5313.4 | 5352.2 | 5371.5 | 5378.6 |
| 30° | 5704.1 | 5640.8 | 5559.7 | 5515.8 | 5508.8 | 5559.7 | 5594.9 | 5600.2 |
| 32.5° | 6080.5 | 5989.1 | 5881.8 | 5792.0 | 5769.1 | 5800.8 | 5843.1 | 5841.3 |
| 35° | 6527.4 | 6418.4 | 6288.2 | 6173.8 | 6121.0 | 6152.7 | 6212.5 | 6219.5 |
| 37.5° | 7043.0 | 6900.4 | 6750.9 | 6606.6 | 6524.0 | 6532.8 | 6596.1 | 6617.2 |
| 40° | 7618.3 | 7433.6 | 7245.4 | 7051.8 | 6933.9 | 6911.1 | 6988.4 | 7000.8 |
| 42.5° | 8234.1 | 7996.6 | 7759.1 | 7519.8 | 7368.4 | 7333.2 | 7423.0 | 7417.7 |
| 45° | 8890.4 | 8587.8 | 8309.7 | 8045.8 | 7866.4 | 7813.6 | 7887.5 | 7887.5 |
| 47.5° | 9595.9 | 9222.9 | 8892.1 | 8593.0 | 8397.7 | 8322.1 | 8392.5 | 8397.7 |
| 50° | 10343.7 | 9947.8 | 9559.0 | 9226.4 | 8992.5 | 8895.7 | 8987.1 | 9001.3 |
| 52.5° | 11087.9 | 10702.6 | 10310.2 | 9930.2 | 9646.9 | 9529.0 | 9634.6 | 9680.4 |
| 55° | 11842.7 | 11464.4 | 11089.6 | 10718.4 | 10382.3 | 10243.3 | 10355.9 | 10414.0 |
| 57.5° | 12639.7 | 12289.5 | 11932.4 | 11557.6 | 11233.9 | 11017.5 | 11137.2 | 11214.6 |
| 60° | 13573.9 | 13274.8 | 12903.6 | 12490.1 | 12162.9 | 11943.0 | 12011.6 | 12080.2 |
| 62.5° | 14312.9 | 14429.0 | 14114.1 | 13635.5 | 13215.0 | 12933.5 | 13000.4 | 13072.5 |
| 65° | 13955.7 | 15146.8 | 15426.6 | 14942.8 | 14360.4 | 13922.4 | 13894.1 | 13931.2 |
| 67.5° | 11665.0 | 13978.6 | 15665.9 | 16126.9 | 15639.5 | 15030.7 | 14918.1 | 14972.7 |
| 70° | 7803.1 | 10685.0 | 13661.9 | 15878.8 | 16468.2 | 16232.5 | 16121.6 | 16155.1 |
| 72.5° | 3747.6 | 6223.1 | 9268.7 | 12215.7 | 14010.3 | 14833.7 | 15097.6 | 15226.0 |
| 75° | 1370.5 | 2470.2 | 4467.2 | 6731.5 | 8126.7 | 9407.7 | 10243.3 | 10584.7 |
| 77.5° | 827.0 | 997.6 | 1426.9 | 2148.3 | 2433.3 | 2723.6 | 2611.0 | 2667.2 |
| 80° | 612.2 | 691.4 | 783.0 | 879.7 | 911.3 | 911.3 | 876.2 | 848.0 |
| 82.5° | 429.3 | 480.3 | 524.3 | 577.0 | 591.2 | 564.8 | 464.5 | 369.5 |
| 85° | 276.2 | 299.1 | 318.4 | 351.9 | 343.1 | 327.2 | 219.9 | 195.3 |
| 87.5° | 126.6 | 144.2 | 151.3 | 167.2 | 160.1 | 153.0 | 109.0 | 91.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)