

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: P192358

Luminaire Tested: **GAN-AF-10-LED-U-T4W-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T4W-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38547 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

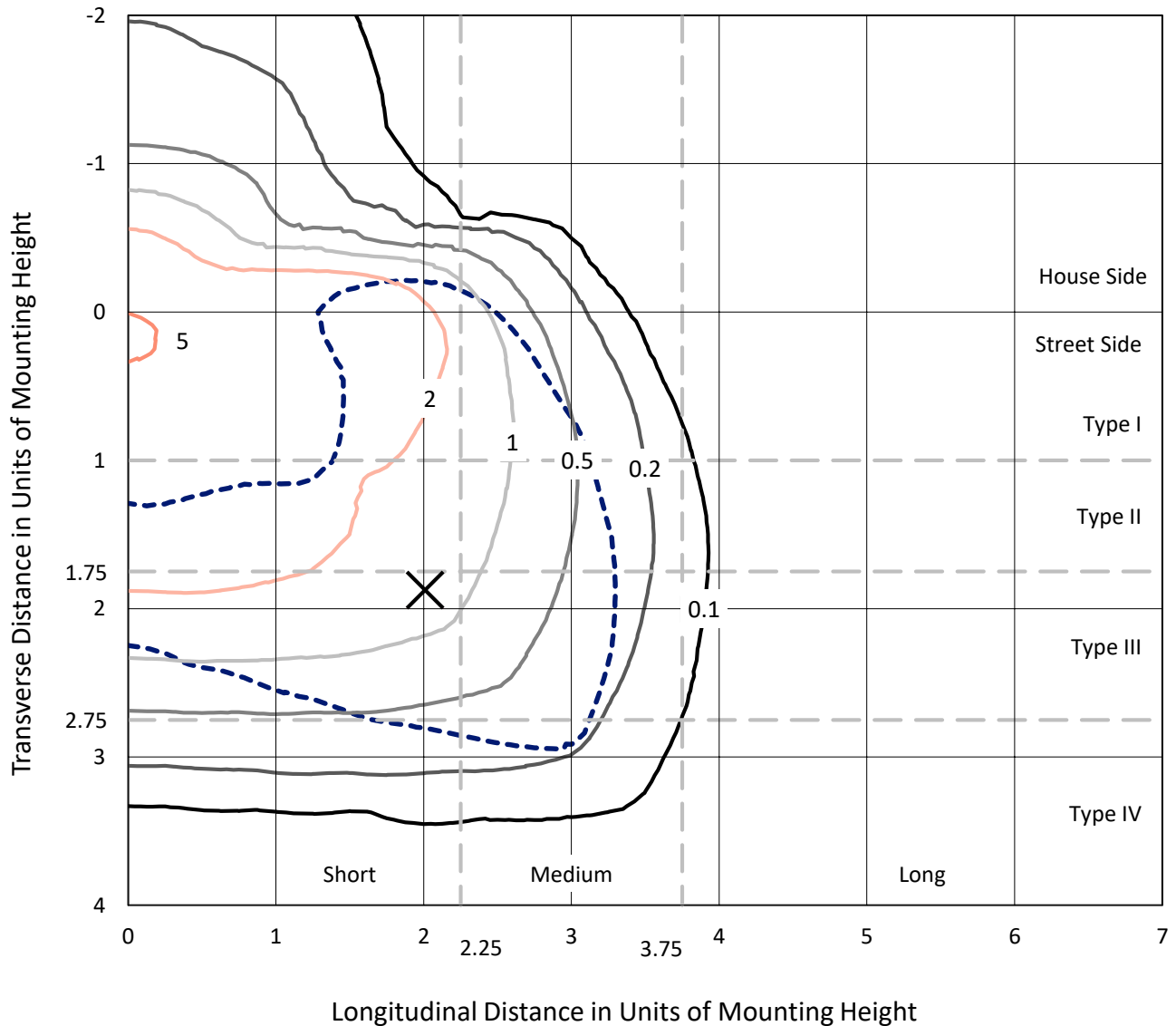


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

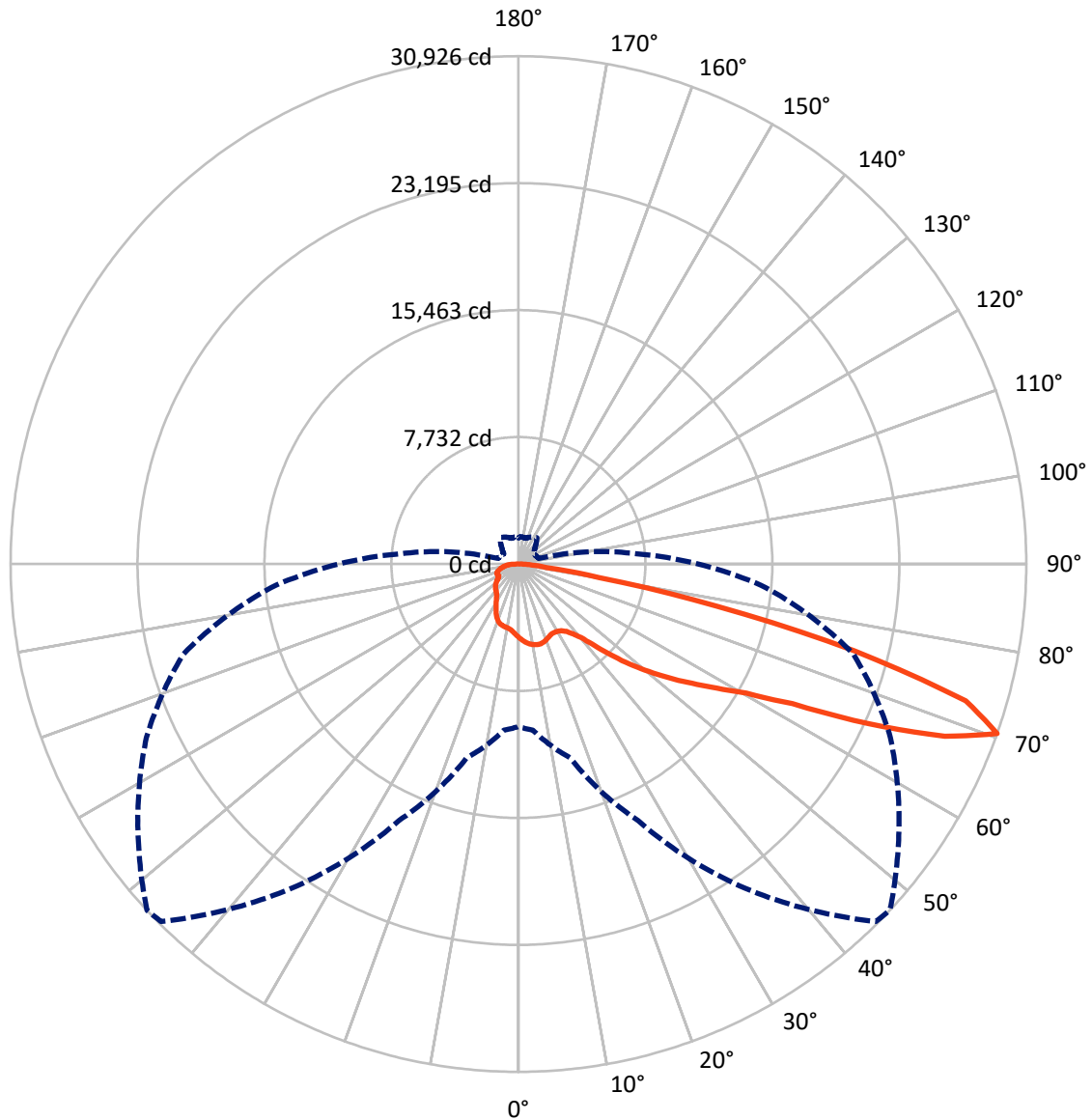


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8041.7 | 0.0 | 8041.7 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 30505.3 | 0.0 | 30505.3 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 38547.0 | 0.0 | 38547.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 428.6 | 1.1 |
| 10°-20° | 1257.3 | 3.3 |
| 20°-30° | 1856.7 | 4.8 |
| 30°-40° | 2698.6 | 7.0 |
| 40°-50° | 4856.5 | 12.6 |
| 50°-60° | 8413.4 | 21.8 |
| 60°-70° | 12008.4 | 31.2 |
| 70°-80° | 6164.5 | 16.0 |
| 80°-90° | 863.0 | 2.2 |
| 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° | 38547.0 | 100.0 |
| 0°-180° | 38547.0 | 100.0 |

Coefficient of Utilization



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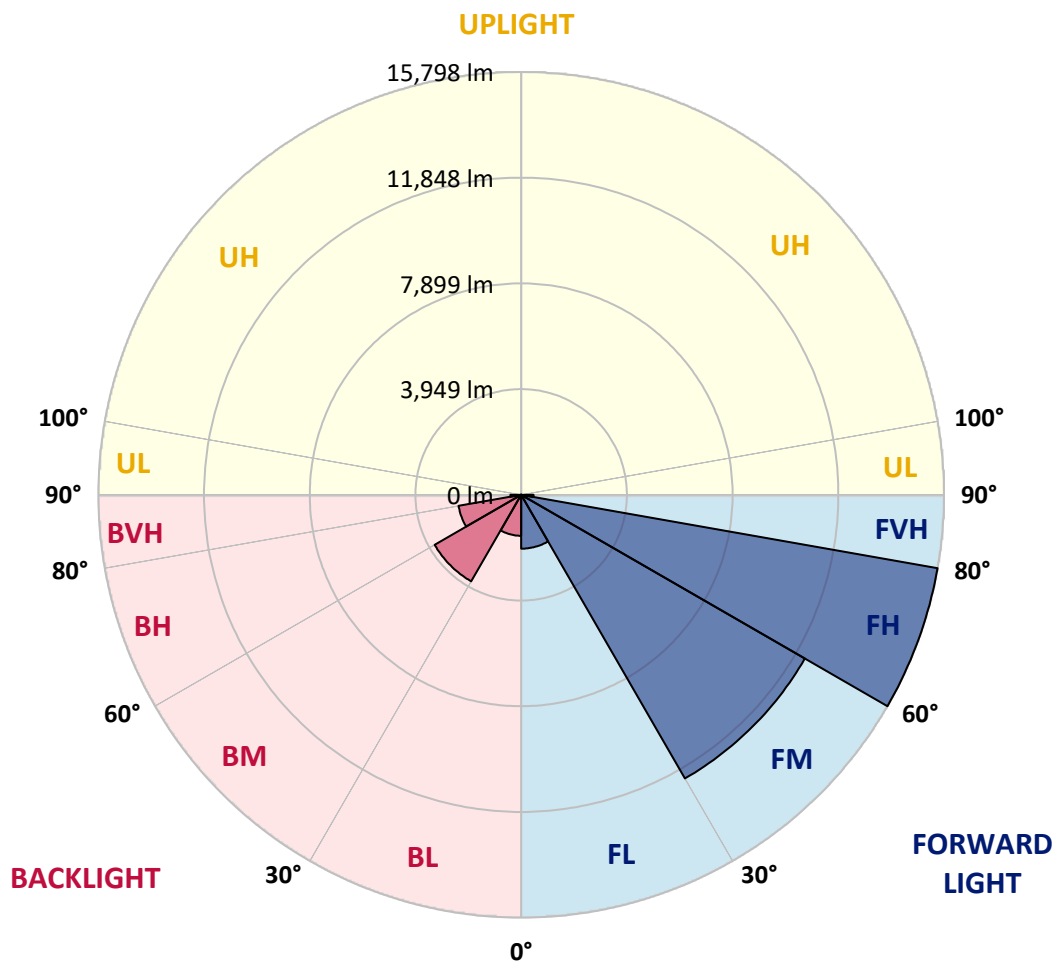
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2011.3 | 5.2 | | | |
| FM | (30°-60°) | 12235.9 | 31.7 | | | |
| FH | (60°-80°) | 15797.6 | 41.0 | | | G5 |
| FVH | (80°-90°) | 460.5 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1531.2 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 3732.7 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 2375.3 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 402.5 | 1.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 |
| 2.5° | 4735.2 | 4725.8 | 4722.1 | 4714.6 | 4705.2 | 4658.3 | 4648.9 | 4615.2 | 4568.3 | 4519.5 | 4468.9 |
| 5° | 5046.5 | 5044.6 | 5024.0 | 4986.5 | 4926.5 | 4823.3 | 4799.0 | 4716.4 | 4605.8 | 4498.9 | 4392.0 |
| 7.5° | 5320.3 | 5303.4 | 5264.0 | 5189.0 | 5084.0 | 4943.4 | 4909.6 | 4795.2 | 4643.3 | 4497.0 | 4352.6 |
| 10° | 5521.0 | 5511.6 | 5425.3 | 5322.2 | 5185.3 | 5029.6 | 4990.2 | 4862.7 | 4695.8 | 4510.2 | 4330.1 |
| 12.5° | 5635.4 | 5616.6 | 5517.2 | 5393.4 | 5230.3 | 5078.4 | 5039.0 | 4909.6 | 4722.1 | 4510.2 | 4298.2 |
| 15° | 5627.9 | 5614.7 | 5515.3 | 5380.3 | 5215.3 | 5082.1 | 5046.5 | 4917.1 | 4716.4 | 4491.4 | 4257.0 |
| 17.5° | 5477.8 | 5483.5 | 5399.1 | 5265.9 | 5130.9 | 5029.6 | 4997.7 | 4877.7 | 4678.9 | 4453.9 | 4208.2 |
| 20° | 5215.3 | 5241.5 | 5185.3 | 5067.1 | 4992.1 | 4922.7 | 4902.1 | 4800.8 | 4620.8 | 4399.5 | 4155.7 |
| 22.5° | 4952.7 | 4977.1 | 4954.6 | 4855.2 | 4844.0 | 4802.7 | 4791.5 | 4718.3 | 4570.2 | 4365.8 | 4123.8 |
| 25° | 4759.6 | 4782.1 | 4778.3 | 4692.1 | 4725.8 | 4723.9 | 4714.6 | 4678.9 | 4558.9 | 4365.8 | 4129.5 |
| 27.5° | 4707.1 | 4714.6 | 4707.1 | 4628.3 | 4675.2 | 4712.7 | 4705.2 | 4699.6 | 4592.7 | 4420.1 | 4200.7 |
| 30° | 4887.1 | 4875.8 | 4817.7 | 4658.3 | 4701.4 | 4754.0 | 4746.4 | 4750.2 | 4693.9 | 4562.7 | 4360.1 |
| 32.5° | 5605.3 | 5554.7 | 5370.9 | 4922.7 | 4808.3 | 4836.5 | 4840.2 | 4902.1 | 4911.5 | 4782.1 | 4607.7 |
| 35° | 6679.9 | 6623.7 | 6385.5 | 5631.6 | 5140.3 | 5042.8 | 5042.8 | 5136.5 | 5192.8 | 5097.1 | 4992.1 |
| 37.5° | 7818.2 | 7756.3 | 7628.8 | 6614.3 | 5837.9 | 5400.9 | 5391.6 | 5457.2 | 5537.8 | 5560.3 | 5586.6 |
| 40° | 9112.2 | 9046.6 | 9082.2 | 7717.0 | 6811.2 | 6021.7 | 5888.5 | 5841.6 | 6059.2 | 6203.6 | 6413.6 |
| 42.5° | 10528.1 | 10498.1 | 10511.2 | 8945.3 | 7919.5 | 6950.0 | 6760.5 | 6518.6 | 6781.2 | 7038.1 | 7478.8 |
| 45° | 11838.9 | 11865.2 | 11852.1 | 10259.9 | 9153.5 | 8082.7 | 7882.0 | 7413.2 | 7670.1 | 8110.8 | 8829.0 |
| 47.5° | 12986.6 | 12877.9 | 13046.6 | 11696.4 | 10535.6 | 9350.4 | 9102.8 | 8474.6 | 8735.3 | 9279.1 | 10494.3 |
| 50° | 14380.0 | 14365.0 | 14117.5 | 13613.0 | 12206.5 | 10623.7 | 10299.3 | 9571.7 | 9976.7 | 10732.5 | 12592.8 |
| 52.5° | 15844.6 | 15572.7 | 15345.8 | 15103.9 | 13978.7 | 11928.9 | 11531.4 | 10665.0 | 11435.7 | 12386.5 | 15150.8 |
| 55° | 16144.7 | 16022.8 | 16304.1 | 16711.0 | 15687.1 | 13284.8 | 12821.6 | 12035.8 | 13078.5 | 14276.9 | 18100.6 |
| 57.5° | 16786.0 | 16784.2 | 17365.5 | 18091.3 | 17446.2 | 14723.2 | 14256.2 | 13691.8 | 14925.7 | 16442.9 | 21232.4 |
| 60° | 17219.2 | 17341.1 | 18421.3 | 19829.7 | 19173.3 | 16384.7 | 15955.3 | 15602.7 | 17026.1 | 18863.9 | 24150.4 |
| 62.5° | 17446.2 | 17611.2 | 19085.2 | 20534.8 | 21615.0 | 19150.8 | 18721.4 | 18213.2 | 19805.3 | 21519.4 | 25857.0 |
| 65° | 16502.9 | 16827.3 | 18982.0 | 21144.3 | 23752.9 | 23634.7 | 23441.6 | 22548.9 | 23280.3 | 23617.9 | 25240.0 |
| 67.5° | 13892.4 | 14224.3 | 16733.5 | 20576.1 | 25279.4 | 27959.2 | 28000.5 | 26475.8 | 25418.2 | 23797.9 | 21221.2 |
| 70° | 9898.0 | 10158.6 | 12234.6 | 17251.1 | 24116.7 | 30785.3 | 30926.0 | 28285.5 | 24992.5 | 21104.9 | 14826.3 |
| 72.5° | 4699.6 | 4859.0 | 6824.3 | 11227.6 | 19137.7 | 28206.8 | 28478.7 | 25975.1 | 21251.2 | 15625.2 | 8088.3 |
| 75° | 1727.2 | 1775.9 | 2306.7 | 4776.5 | 11100.1 | 20801.1 | 21121.8 | 18620.1 | 14087.4 | 7778.9 | 3081.2 |
| 77.5° | 1035.2 | 1067.1 | 1294.0 | 2016.0 | 4365.8 | 11889.6 | 12364.0 | 10126.8 | 6156.7 | 2895.5 | 1515.3 |
| 80° | 723.9 | 746.4 | 928.3 | 1254.6 | 2062.9 | 4530.8 | 4952.7 | 4133.2 | 2452.9 | 1832.2 | 1102.7 |
| 82.5° | 489.5 | 500.7 | 652.6 | 847.6 | 1370.9 | 1618.4 | 1745.9 | 1837.8 | 1654.0 | 1363.4 | 699.5 |
| 85° | 320.7 | 331.9 | 442.6 | 558.8 | 872.0 | 836.4 | 855.1 | 1082.1 | 1207.7 | 926.4 | 388.2 |
| 87.5° | 183.8 | 191.3 | 266.3 | 298.2 | 427.6 | 354.4 | 358.2 | 570.1 | 772.6 | 624.5 | 236.3 |
| 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-10-LED-U-T4W-7050-600

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 | 4472.7 |
| 2.5° | 4455.8 | 4431.4 | 4377.0 | 4343.3 | 4311.4 | 4303.9 | 4290.7 | 4288.9 | 4287.0 | 4287.0 | 4281.4 |
| 5° | 4356.4 | 4315.1 | 4230.7 | 4183.9 | 4144.5 | 4140.7 | 4138.8 | 4148.2 | 4152.0 | 4155.7 | 4150.1 |
| 7.5° | 4292.6 | 4236.4 | 4131.3 | 4063.8 | 4016.9 | 4005.7 | 4024.4 | 4067.6 | 4095.7 | 4107.0 | 4101.3 |
| 10° | 4253.2 | 4183.9 | 4062.0 | 3988.8 | 3949.4 | 3943.8 | 3968.2 | 4018.8 | 4077.0 | 4099.5 | 4097.6 |
| 12.5° | 4208.2 | 4129.5 | 4000.1 | 3923.2 | 3900.7 | 3911.9 | 3943.8 | 3990.7 | 4050.7 | 4086.3 | 4088.2 |
| 15° | 4163.2 | 4071.3 | 3938.2 | 3870.7 | 3861.3 | 3876.3 | 3906.3 | 3941.9 | 3988.8 | 4024.4 | 4028.2 |
| 17.5° | 4108.8 | 4013.2 | 3880.0 | 3810.7 | 3803.2 | 3810.7 | 3812.5 | 3831.3 | 3861.3 | 3895.1 | 3904.4 |
| 20° | 4050.7 | 3953.2 | 3814.4 | 3745.0 | 3711.3 | 3681.3 | 3647.5 | 3651.3 | 3660.6 | 3694.4 | 3701.9 |
| 22.5° | 4009.4 | 3911.9 | 3763.8 | 3668.1 | 3578.1 | 3488.1 | 3420.6 | 3411.2 | 3415.0 | 3443.1 | 3452.5 |
| 25° | 4013.2 | 3910.1 | 3750.7 | 3585.6 | 3388.7 | 3244.3 | 3154.3 | 3139.3 | 3137.4 | 3158.0 | 3171.2 |
| 27.5° | 4086.3 | 3983.2 | 3799.4 | 3501.2 | 3182.4 | 2968.6 | 2873.0 | 2861.7 | 2846.7 | 2852.4 | 2867.4 |
| 30° | 4249.5 | 4153.8 | 3917.6 | 3415.0 | 2959.3 | 2698.6 | 2599.2 | 2587.9 | 2567.3 | 2557.9 | 2569.2 |
| 32.5° | 4515.8 | 4437.0 | 4090.1 | 3332.5 | 2736.1 | 2467.9 | 2366.7 | 2342.3 | 2329.2 | 2317.9 | 2327.3 |
| 35° | 4958.4 | 4924.6 | 4320.8 | 3242.4 | 2539.2 | 2289.8 | 2197.9 | 2160.4 | 2141.6 | 2162.3 | 2177.3 |
| 37.5° | 5652.2 | 5671.0 | 4622.7 | 3101.8 | 2387.3 | 2171.6 | 2094.7 | 2051.6 | 2023.5 | 2040.4 | 2057.2 |
| 40° | 6634.9 | 6648.0 | 4956.5 | 2903.0 | 2256.0 | 2102.2 | 2019.7 | 1980.3 | 1941.0 | 1911.0 | 1909.1 |
| 42.5° | 7925.1 | 7792.0 | 5284.7 | 2687.3 | 2104.1 | 2059.1 | 1967.2 | 1918.5 | 1858.4 | 1775.9 | 1759.1 |
| 45° | 9455.4 | 8988.4 | 5534.1 | 2439.8 | 1933.5 | 2006.6 | 1909.1 | 1841.6 | 1747.8 | 1657.8 | 1648.4 |
| 47.5° | 11218.2 | 10273.0 | 5656.0 | 2182.9 | 1774.1 | 1929.7 | 1837.8 | 1730.9 | 1612.8 | 1567.8 | 1562.1 |
| 50° | 13371.1 | 11797.7 | 5714.1 | 1933.5 | 1635.3 | 1828.4 | 1734.7 | 1609.0 | 1509.6 | 1500.3 | 1494.6 |
| 52.5° | 15822.1 | 13631.7 | 5732.9 | 1729.1 | 1520.9 | 1697.2 | 1650.3 | 1528.4 | 1449.6 | 1457.1 | 1457.1 |
| 55° | 18387.6 | 15525.8 | 5477.8 | 1580.9 | 1415.9 | 1562.1 | 1594.0 | 1496.5 | 1430.9 | 1460.9 | 1472.1 |
| 57.5° | 20743.0 | 17204.2 | 4675.2 | 1466.5 | 1316.5 | 1459.0 | 1573.4 | 1526.5 | 1481.5 | 1603.4 | 1610.9 |
| 60° | 22550.8 | 18196.3 | 3491.9 | 1363.4 | 1243.3 | 1423.4 | 1627.8 | 1640.9 | 1652.2 | 1942.8 | 1982.2 |
| 62.5° | 22929.6 | 17866.2 | 2400.4 | 1282.7 | 1209.6 | 1453.4 | 1727.2 | 1729.1 | 1715.9 | 1918.5 | 1942.8 |
| 65° | 21191.2 | 15779.0 | 1745.9 | 1237.7 | 1181.5 | 1507.8 | 1811.6 | 1772.2 | 1685.9 | 1839.7 | 1794.7 |
| 67.5° | 16829.2 | 11887.7 | 1453.4 | 1204.0 | 1140.2 | 1504.0 | 1901.6 | 1811.6 | 1669.0 | 1802.2 | 1729.1 |
| 70° | 10923.8 | 7188.1 | 1294.0 | 1175.8 | 1091.4 | 1432.7 | 1954.1 | 1807.8 | 1620.3 | 1676.5 | 1590.3 |
| 72.5° | 5329.7 | 3214.3 | 1187.1 | 1134.6 | 1040.8 | 1333.4 | 1952.2 | 1774.1 | 1569.6 | 1565.9 | 1519.0 |
| 75° | 2085.4 | 1472.1 | 1089.6 | 1072.7 | 954.5 | 1220.8 | 1899.7 | 1725.3 | 1509.6 | 1449.6 | 1432.7 |
| 77.5° | 1220.8 | 1050.2 | 965.8 | 980.8 | 851.4 | 1108.3 | 1822.8 | 1640.9 | 1427.1 | 1355.9 | 1337.1 |
| 80° | 888.9 | 785.8 | 823.3 | 847.6 | 727.6 | 995.8 | 1719.7 | 1537.8 | 1335.2 | 1370.9 | 1344.6 |
| 82.5° | 570.1 | 506.3 | 667.6 | 692.0 | 605.7 | 881.4 | 1607.2 | 1429.0 | 1205.8 | 1095.2 | 1068.9 |
| 85° | 290.7 | 320.7 | 497.0 | 527.0 | 467.0 | 723.9 | 1470.3 | 1284.6 | 1059.6 | 911.4 | 926.4 |
| 87.5° | 163.2 | 219.4 | 316.9 | 354.4 | 330.1 | 557.0 | 1192.7 | 1059.6 | 864.5 | 703.2 | 618.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)