

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: P192038

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36886 lumens
Efficiency: N/A
Efficacy: 114.2 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 (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

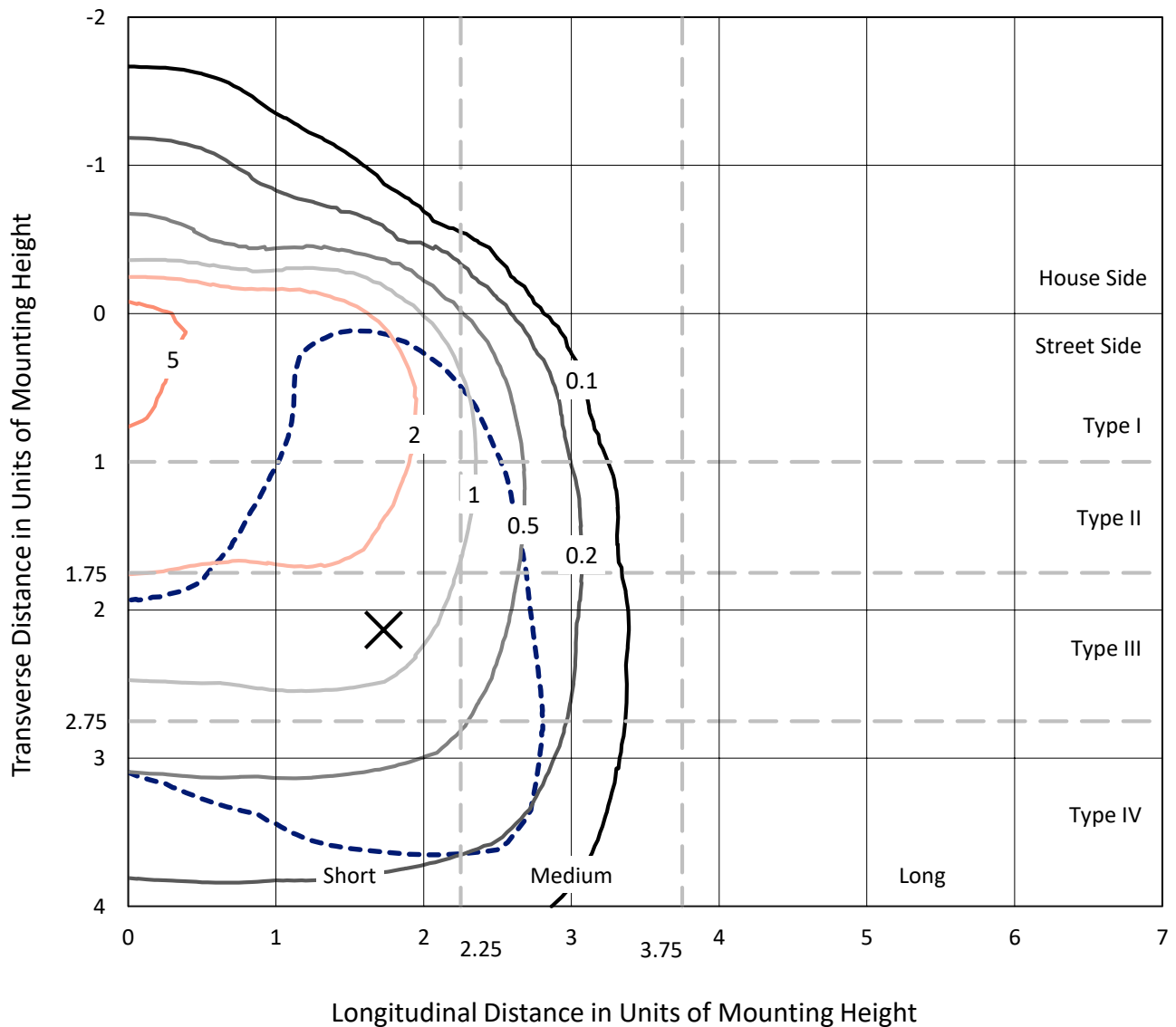


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

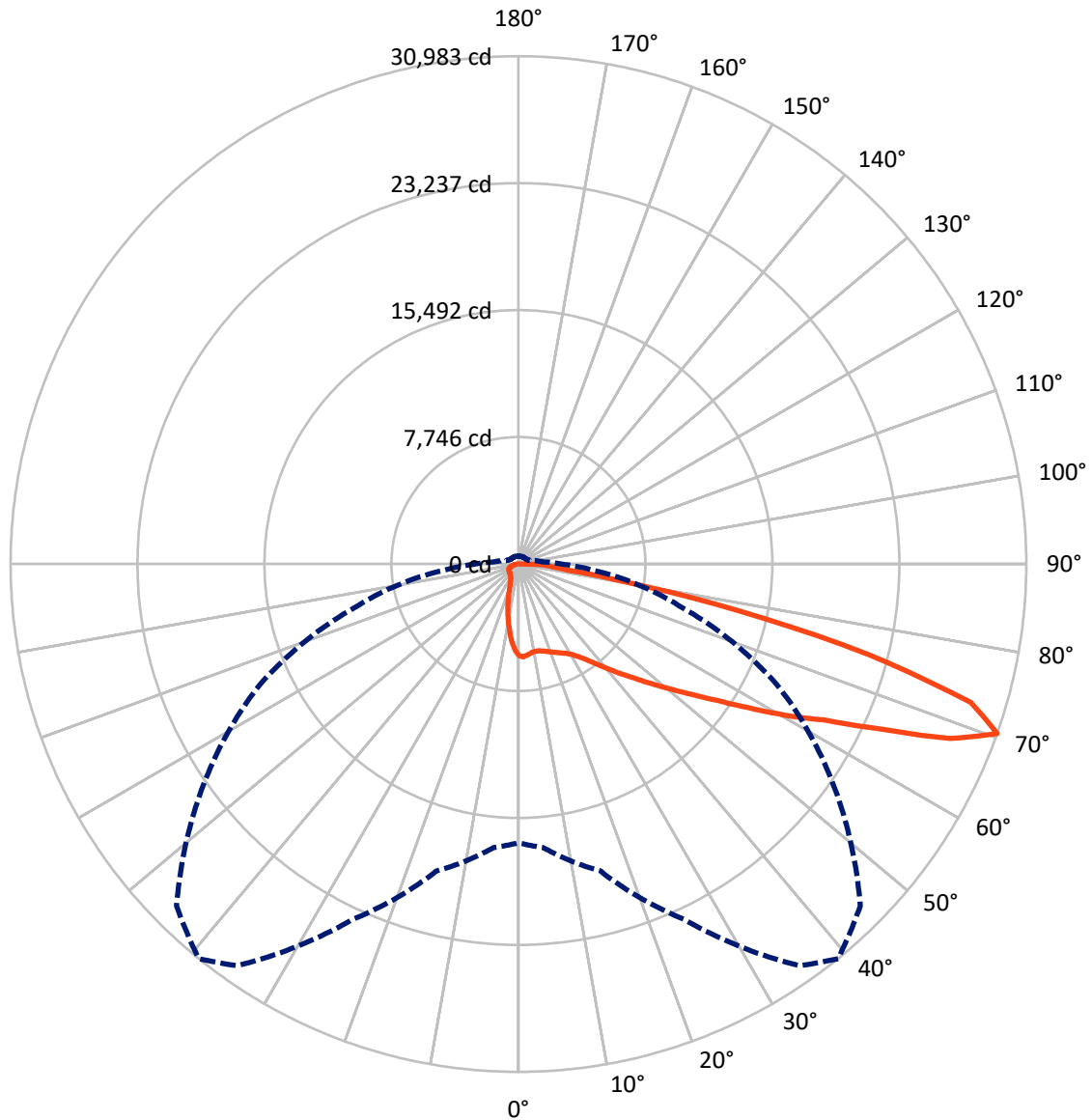


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4195.2 | 0.0 | 4195.2 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 32690.8 | 0.0 | 32690.8 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 36886.0 | 0.0 | 36886.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 480.6 | 1.3 |
| 10°-20° | 1201.2 | 3.3 |
| 20°-30° | 1870.4 | 5.1 |
| 30°-40° | 2913.7 | 7.9 |
| 40°-50° | 4891.6 | 13.3 |
| 50°-60° | 7770.8 | 21.1 |
| 60°-70° | 10365.4 | 28.1 |
| 70°-80° | 6259.4 | 17.0 |
| 80°-90° | 1132.9 | 3.1 |
| 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° | 36886.0 | 100.0 |
| 0°-180° | 36886.0 | 100.0 |

Coefficient of Utilization



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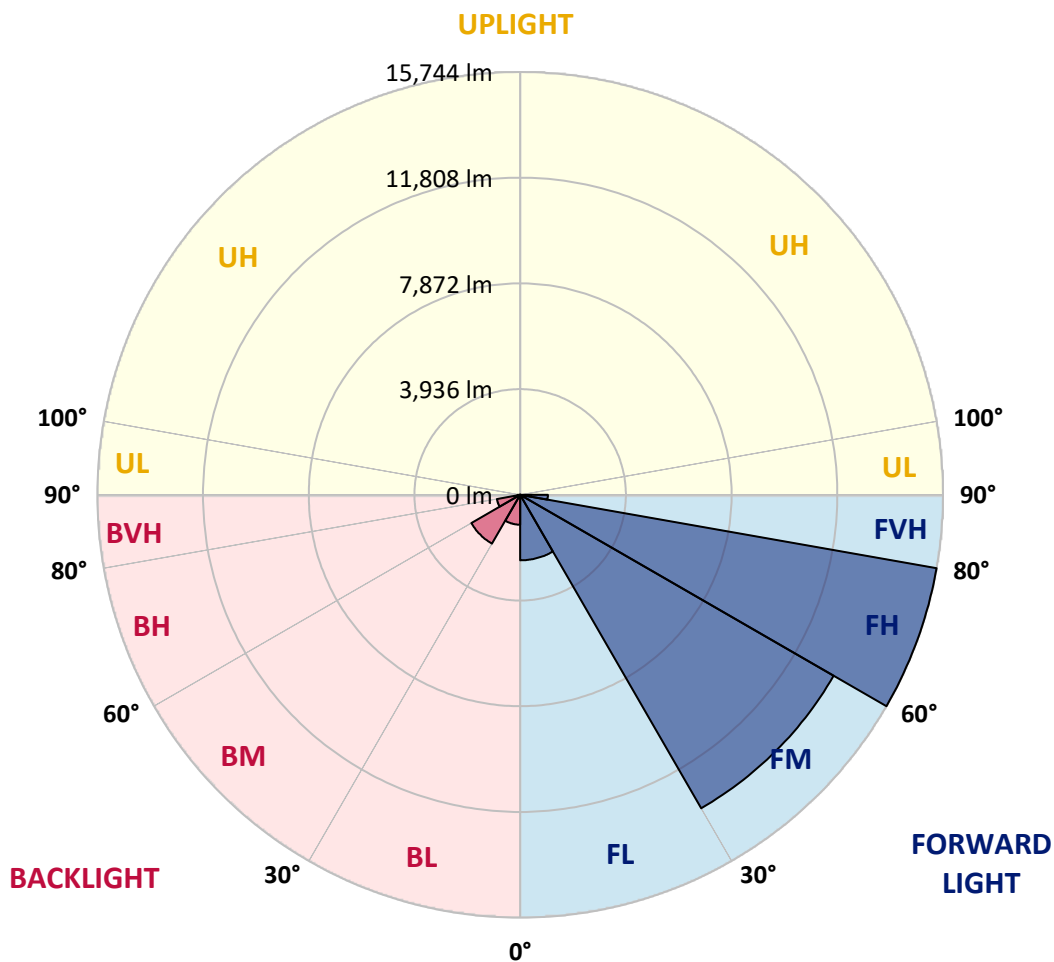
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2439.3 | 6.6 | | | |
| FM | (30°-60°) | 13476.7 | 36.5 | | | |
| FH | (60°-80°) | 15744.0 | 42.7 | | | G5 |
| FVH | (80°-90°) | 1030.8 | 2.8 | | | G5 |
| BL | (0°-30°) | 1112.9 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 2099.4 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 880.7 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 102.1 | 0.3 | | | G2/225 |
| 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° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 |
| 2.5° | 5708.6 | 5706.8 | 5691.8 | 5680.5 | 5671.1 | 5667.4 | 5674.9 | 5646.8 | 5622.4 | 5592.4 | 5560.5 |
| 5° | 5665.5 | 5663.6 | 5639.2 | 5616.7 | 5594.2 | 5586.7 | 5584.9 | 5534.2 | 5504.2 | 5459.2 | 5399.2 |
| 7.5° | 5618.6 | 5609.2 | 5577.4 | 5539.9 | 5500.5 | 5481.7 | 5463.0 | 5397.3 | 5363.6 | 5318.6 | 5249.2 |
| 10° | 5569.9 | 5558.6 | 5528.6 | 5491.1 | 5453.6 | 5425.5 | 5393.6 | 5329.8 | 5294.2 | 5260.4 | 5179.8 |
| 12.5° | 5519.2 | 5509.8 | 5502.3 | 5485.5 | 5459.2 | 5434.8 | 5410.5 | 5356.1 | 5318.6 | 5279.2 | 5185.4 |
| 15° | 5511.7 | 5508.0 | 5524.9 | 5536.1 | 5521.1 | 5506.1 | 5479.8 | 5433.0 | 5393.6 | 5354.2 | 5232.3 |
| 17.5° | 5571.7 | 5569.9 | 5613.0 | 5643.0 | 5635.5 | 5609.2 | 5573.6 | 5521.1 | 5489.2 | 5455.5 | 5303.6 |
| 20° | 5703.0 | 5712.4 | 5764.9 | 5804.3 | 5766.8 | 5729.3 | 5671.1 | 5598.0 | 5581.1 | 5566.1 | 5376.7 |
| 22.5° | 5950.6 | 5959.9 | 5997.4 | 6012.4 | 5914.9 | 5860.5 | 5779.9 | 5686.1 | 5674.9 | 5686.1 | 5464.8 |
| 25° | 6336.9 | 6327.5 | 6321.9 | 6265.6 | 6087.5 | 6003.1 | 5899.9 | 5802.4 | 5808.0 | 5858.7 | 5588.6 |
| 27.5° | 6848.9 | 6798.2 | 6719.5 | 6550.7 | 6267.5 | 6173.7 | 6048.1 | 5958.1 | 5993.7 | 6091.2 | 5774.3 |
| 30° | 7379.6 | 7323.3 | 7141.4 | 6865.7 | 6503.8 | 6400.7 | 6260.0 | 6158.7 | 6252.5 | 6406.3 | 6021.8 |
| 32.5° | 7870.9 | 7863.4 | 7597.1 | 7242.7 | 6830.1 | 6740.1 | 6599.4 | 6485.0 | 6636.9 | 6871.4 | 6393.1 |
| 35° | 8407.3 | 8424.2 | 8105.4 | 7679.7 | 7270.8 | 7177.1 | 7075.8 | 6989.5 | 7192.1 | 7514.6 | 6931.4 |
| 37.5° | 8981.2 | 9014.9 | 8638.0 | 8157.9 | 7773.4 | 7734.0 | 7674.0 | 7636.5 | 7949.7 | 8396.0 | 7683.4 |
| 40° | 9748.2 | 9714.4 | 9191.2 | 8698.0 | 8390.4 | 8388.5 | 8369.8 | 8414.8 | 8936.2 | 9547.5 | 8649.2 |
| 42.5° | 10569.6 | 10470.2 | 9778.2 | 9277.5 | 9067.4 | 9131.2 | 9168.7 | 9352.5 | 10123.3 | 10946.6 | 9827.0 |
| 45° | 11454.8 | 11231.6 | 10387.7 | 9890.7 | 9819.5 | 9954.5 | 10082.0 | 10481.5 | 11520.4 | 12538.7 | 11117.2 |
| 47.5° | 12161.8 | 11946.1 | 11017.8 | 10534.0 | 10689.6 | 10894.0 | 11139.7 | 11771.7 | 13084.5 | 14183.5 | 12390.6 |
| 50° | 12718.8 | 12578.1 | 11653.6 | 11284.1 | 11647.9 | 11963.0 | 12364.3 | 13232.6 | 14712.3 | 15785.0 | 13570.2 |
| 52.5° | 13258.9 | 13153.9 | 12295.0 | 12053.0 | 12773.2 | 13208.3 | 13754.0 | 14800.5 | 16381.4 | 17360.3 | 14562.3 |
| 55° | 13746.5 | 13671.5 | 12985.1 | 13011.3 | 14097.2 | 14663.5 | 15349.9 | 16585.8 | 18200.5 | 18765.0 | 15402.4 |
| 57.5° | 14296.0 | 14200.3 | 13772.7 | 14213.5 | 15798.1 | 16533.3 | 17426.0 | 18592.5 | 19907.1 | 20014.0 | 16041.9 |
| 60° | 14849.2 | 14766.7 | 14646.7 | 15601.2 | 17958.6 | 18731.2 | 19577.0 | 20537.2 | 21638.1 | 20983.6 | 16004.4 |
| 62.5° | 15329.3 | 15338.7 | 15550.6 | 17058.4 | 20074.0 | 20968.6 | 22000.0 | 22949.0 | 23204.0 | 21152.3 | 14821.1 |
| 65° | 16143.2 | 16291.4 | 16923.4 | 19121.3 | 23052.1 | 24248.6 | 25514.5 | 25362.6 | 23637.2 | 19575.2 | 12283.7 |
| 67.5° | 17110.9 | 17371.6 | 18652.5 | 21870.6 | 26816.0 | 28404.4 | 28893.9 | 25908.3 | 21902.5 | 15912.5 | 8756.1 |
| 70° | 17013.4 | 17371.6 | 19398.9 | 23920.4 | 29917.8 | 30983.1 | 29497.8 | 23447.8 | 17392.2 | 10395.2 | 4650.9 |
| 72.5° | 15108.0 | 15620.0 | 17877.9 | 22980.8 | 28940.8 | 28847.0 | 25608.2 | 17480.4 | 10333.3 | 4174.6 | 1817.2 |
| 75° | 11514.8 | 12032.4 | 13975.3 | 18155.5 | 22873.9 | 22086.3 | 18170.5 | 9656.3 | 3921.4 | 1657.8 | 1145.9 |
| 77.5° | 6623.8 | 7025.2 | 8525.4 | 11134.1 | 14511.6 | 13703.4 | 10113.9 | 4294.6 | 1909.1 | 1155.2 | 894.6 |
| 80° | 3698.2 | 3921.4 | 4832.8 | 5648.6 | 7111.4 | 6518.8 | 4525.3 | 2668.7 | 1425.3 | 838.3 | 690.1 |
| 82.5° | 2923.7 | 3122.5 | 3908.3 | 3563.2 | 3248.1 | 2996.8 | 2599.3 | 2376.1 | 1138.4 | 528.9 | 412.6 |
| 85° | 2554.3 | 2743.7 | 3308.2 | 2805.6 | 2218.6 | 2034.8 | 2111.7 | 2338.6 | 885.2 | 318.8 | 352.6 |
| 87.5° | 2366.7 | 2619.9 | 2948.1 | 2162.3 | 1727.2 | 1530.3 | 1948.5 | 2563.6 | 285.1 | 198.8 | 142.5 |
| 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-SL4-7050-600-ADJ

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 | 5599.9 |
| 2.5° | 5532.4 | 5502.3 | 5453.6 | 5410.5 | 5342.9 | 5307.3 | 5267.9 | 5239.8 | 5217.3 | 5198.5 | 5228.5 |
| 5° | 5361.7 | 5305.4 | 5202.3 | 5091.6 | 4960.4 | 4857.2 | 4771.0 | 4690.3 | 4634.0 | 4596.5 | 4622.8 |
| 7.5° | 5200.4 | 5108.5 | 4947.2 | 4746.6 | 4521.5 | 4330.2 | 4172.7 | 4033.9 | 3938.3 | 3876.4 | 3900.8 |
| 10° | 5108.5 | 4994.1 | 4744.7 | 4429.6 | 4097.7 | 3799.5 | 3552.0 | 3338.2 | 3190.0 | 3105.6 | 3118.7 |
| 12.5° | 5086.0 | 4937.9 | 4592.8 | 4159.6 | 3705.7 | 3291.3 | 2942.5 | 2646.2 | 2438.0 | 2329.2 | 2333.0 |
| 15° | 5102.9 | 4913.5 | 4450.3 | 3900.8 | 3326.9 | 2803.7 | 2368.6 | 2008.5 | 1766.6 | 1642.8 | 1641.0 |
| 17.5° | 5131.0 | 4894.7 | 4300.2 | 3621.3 | 2942.5 | 2334.8 | 1849.1 | 1496.5 | 1282.8 | 1183.4 | 1175.9 |
| 20° | 5161.0 | 4864.7 | 4131.4 | 3319.4 | 2543.0 | 1899.8 | 1447.8 | 1172.1 | 1037.1 | 982.7 | 978.9 |
| 22.5° | 5204.2 | 4838.5 | 3957.0 | 3000.6 | 2151.1 | 1547.2 | 1190.9 | 1005.2 | 933.9 | 905.8 | 902.1 |
| 25° | 5273.6 | 4825.3 | 3771.4 | 2668.7 | 1798.5 | 1294.0 | 1037.1 | 922.7 | 881.4 | 862.7 | 860.8 |
| 27.5° | 5389.8 | 4844.1 | 3597.0 | 2346.1 | 1511.6 | 1123.3 | 950.8 | 881.4 | 851.4 | 834.5 | 832.7 |
| 30° | 5539.9 | 4902.2 | 3413.2 | 2040.4 | 1288.4 | 1007.1 | 898.3 | 853.3 | 828.9 | 812.0 | 812.0 |
| 32.5° | 5789.3 | 4999.7 | 3220.0 | 1776.0 | 1129.0 | 926.4 | 858.9 | 828.9 | 808.3 | 795.2 | 793.3 |
| 35° | 6156.9 | 5183.5 | 3040.0 | 1556.6 | 1014.6 | 868.3 | 825.2 | 802.7 | 787.7 | 780.2 | 780.2 |
| 37.5° | 6691.3 | 5474.2 | 2880.6 | 1399.0 | 945.2 | 828.9 | 793.3 | 776.4 | 767.0 | 767.0 | 767.0 |
| 40° | 7409.6 | 5875.5 | 2751.2 | 1294.0 | 905.8 | 800.8 | 768.9 | 755.8 | 750.1 | 752.0 | 752.0 |
| 42.5° | 8296.7 | 6396.9 | 2664.9 | 1220.9 | 887.1 | 783.9 | 752.0 | 740.8 | 735.1 | 733.3 | 735.1 |
| 45° | 9307.5 | 6989.5 | 2655.5 | 1166.5 | 868.3 | 772.7 | 740.8 | 729.5 | 718.3 | 710.8 | 710.8 |
| 47.5° | 10290.2 | 7591.5 | 2732.4 | 1147.7 | 847.7 | 759.5 | 731.4 | 720.1 | 703.3 | 686.4 | 686.4 |
| 50° | 11158.5 | 8103.5 | 2835.6 | 1155.2 | 840.2 | 740.8 | 716.4 | 710.8 | 684.5 | 665.8 | 663.9 |
| 52.5° | 11848.6 | 8497.3 | 2920.0 | 1177.7 | 847.7 | 727.6 | 697.6 | 699.5 | 671.4 | 650.8 | 648.9 |
| 55° | 12401.8 | 8756.1 | 2897.5 | 1200.2 | 864.5 | 720.1 | 680.8 | 684.5 | 662.0 | 641.4 | 641.4 |
| 57.5° | 12643.8 | 8660.5 | 2648.0 | 1181.5 | 877.7 | 722.0 | 667.6 | 682.6 | 663.9 | 645.1 | 645.1 |
| 60° | 12124.3 | 7810.9 | 2181.1 | 1099.0 | 860.8 | 716.4 | 662.0 | 690.1 | 688.3 | 669.5 | 667.6 |
| 62.5° | 10552.7 | 6290.0 | 1691.6 | 977.1 | 802.7 | 688.3 | 647.0 | 688.3 | 708.9 | 703.3 | 701.4 |
| 65° | 8133.5 | 4480.3 | 1292.1 | 845.8 | 723.9 | 641.4 | 607.6 | 645.1 | 673.3 | 680.8 | 678.9 |
| 67.5° | 5279.2 | 2745.5 | 995.8 | 722.0 | 635.8 | 587.0 | 557.0 | 573.9 | 579.5 | 579.5 | 575.7 |
| 70° | 2595.5 | 1477.8 | 793.3 | 607.6 | 545.7 | 528.9 | 512.0 | 502.6 | 493.2 | 485.7 | 485.7 |
| 72.5° | 1280.9 | 965.8 | 652.6 | 513.9 | 470.7 | 463.2 | 459.5 | 448.2 | 440.7 | 431.3 | 427.6 |
| 75° | 947.1 | 785.8 | 555.1 | 433.2 | 405.1 | 397.6 | 405.1 | 395.7 | 393.8 | 386.3 | 382.6 |
| 77.5° | 778.3 | 669.5 | 478.2 | 371.3 | 346.9 | 333.8 | 345.1 | 346.9 | 348.8 | 337.6 | 333.8 |
| 80° | 632.0 | 566.4 | 399.5 | 307.6 | 285.1 | 275.7 | 283.2 | 298.2 | 301.9 | 285.1 | 277.6 |
| 82.5° | 455.7 | 463.2 | 322.6 | 240.0 | 221.3 | 213.8 | 228.8 | 247.5 | 251.3 | 226.9 | 221.3 |
| 85° | 382.6 | 386.3 | 247.5 | 170.7 | 151.9 | 140.7 | 165.0 | 183.8 | 196.9 | 172.5 | 166.9 |
| 87.5° | 159.4 | 226.9 | 142.5 | 95.6 | 84.4 | 73.1 | 88.1 | 97.5 | 118.1 | 108.8 | 106.9 |
| 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)