

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: P191254

Luminaire Tested: **GAN-AF-06-LED-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191254
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-06-LED-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 34605.4 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

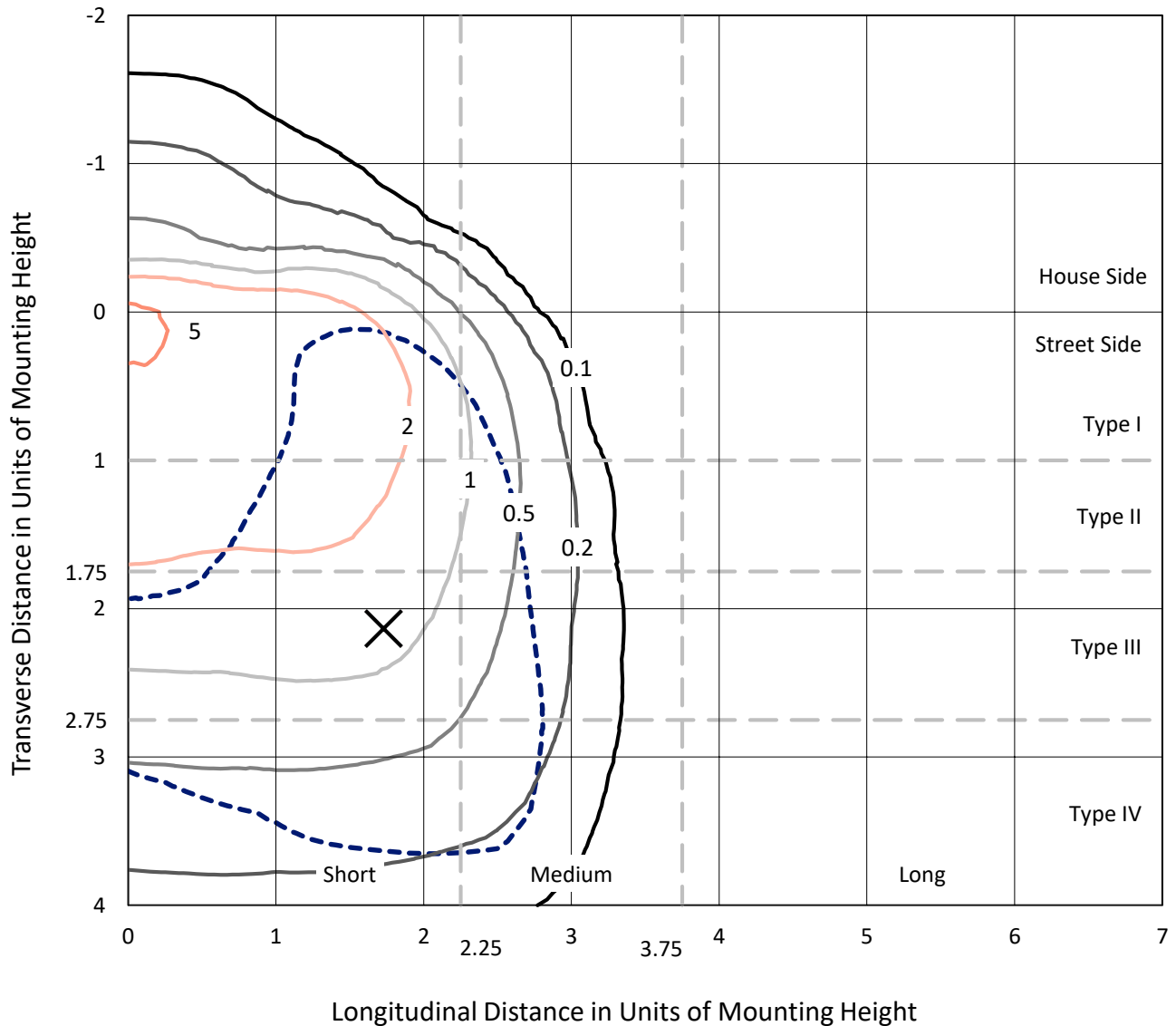
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

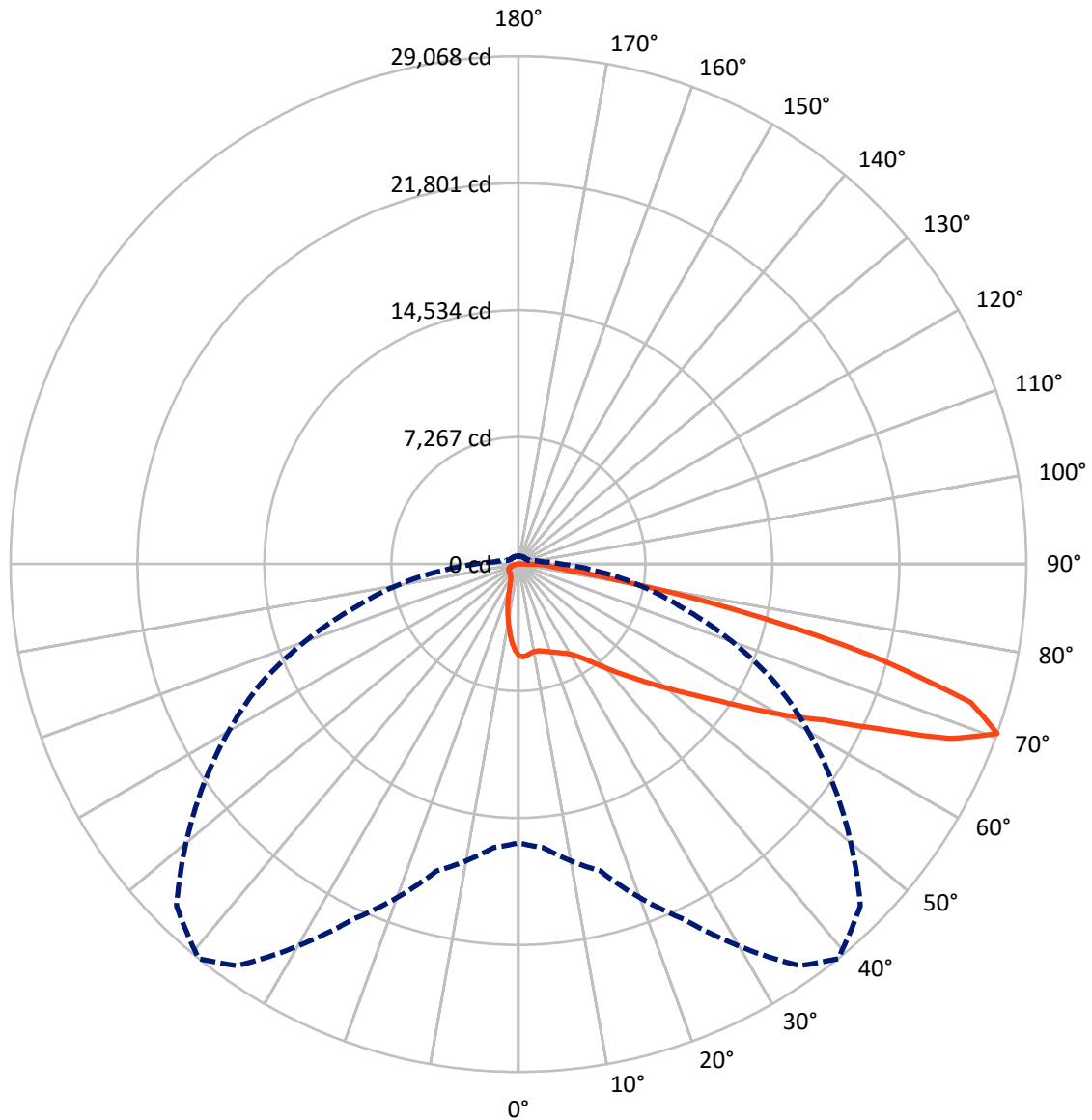


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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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 | 3935.8 | 0.0 | 3935.8 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 30669.6 | 0.0 | 30669.6 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 34605.4 | 0.0 | 34605.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 450.9 | 1.3 |
| 10°-20° | 1127.0 | 3.3 |
| 20°-30° | 1754.8 | 5.1 |
| 30°-40° | 2733.6 | 7.9 |
| 40°-50° | 4589.2 | 13.3 |
| 50°-60° | 7290.3 | 21.1 |
| 60°-70° | 9724.5 | 28.1 |
| 70°-80° | 5872.4 | 17.0 |
| 80°-90° | 1062.8 | 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° | 34605.4 | 100.0 |
| 0°-180° | 34605.4 | 100.0 |



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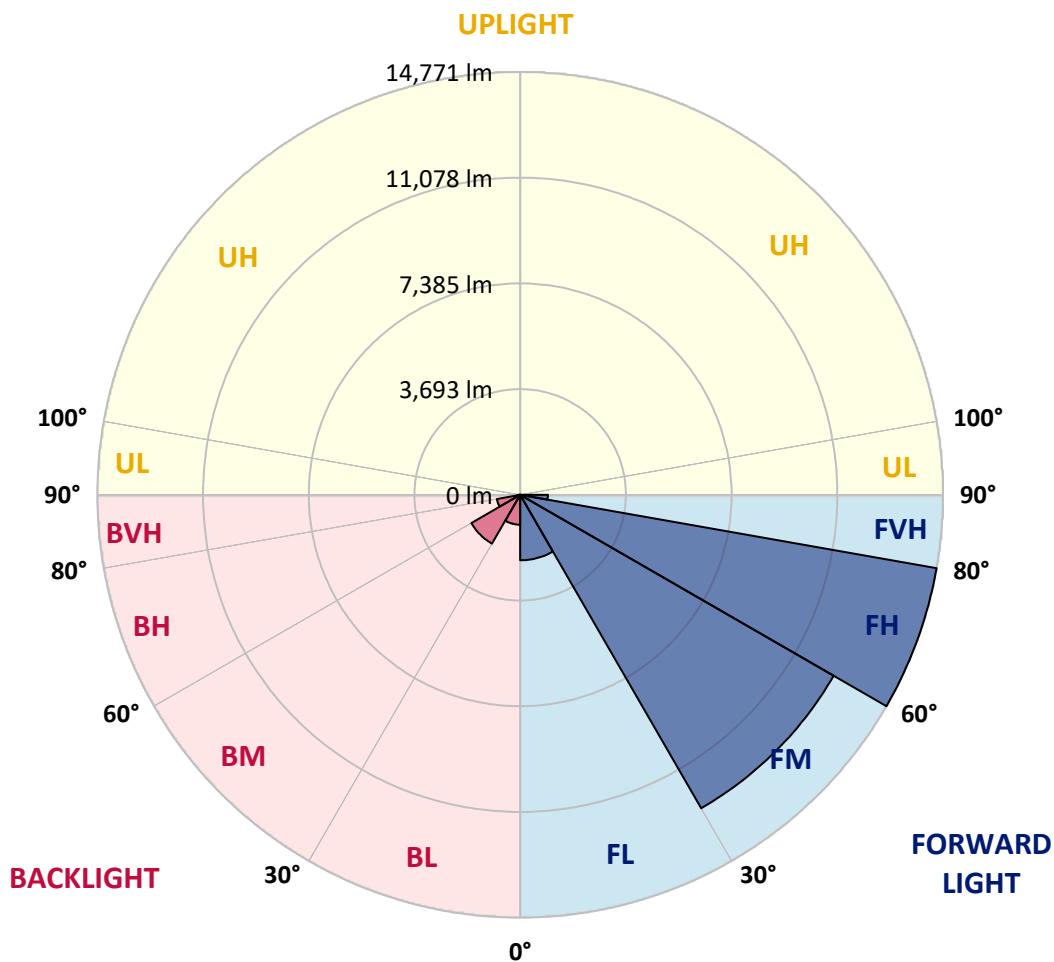
CATALOG NUMBER: GAN-AF-06-LED-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2288.5 | 6.6 | | | |
| FM | (30°-60°) | 12643.5 | 36.5 | | | |
| FH | (60°-80°) | 14770.6 | 42.7 | | | G5 |
| FVH | (80°-90°) | 967.0 | 2.8 | | | G5 |
| BL | (0°-30°) | 1044.1 | 3.0 | B3/2500 | | |
| BM | (30°-60°) | 1969.6 | 5.7 | B2/2500 | | |
| BH | (60°-80°) | 826.3 | 2.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 95.8 | 0.3 | | | G1/100 |
| 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° | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 |
| 2.5° | 5355.7 | 5353.9 | 5339.8 | 5329.3 | 5320.5 | 5317.0 | 5324.0 | 5297.7 | 5274.7 | 5246.6 | 5216.6 |
| 5° | 5315.3 | 5313.4 | 5290.6 | 5269.4 | 5248.4 | 5241.3 | 5239.6 | 5192.1 | 5163.9 | 5121.7 | 5065.3 |
| 7.5° | 5271.3 | 5262.5 | 5232.5 | 5197.3 | 5160.4 | 5142.8 | 5125.2 | 5063.6 | 5032.0 | 4989.7 | 4924.6 |
| 10° | 5225.4 | 5214.9 | 5186.8 | 5151.6 | 5116.4 | 5090.0 | 5060.1 | 5000.3 | 4966.8 | 4935.2 | 4859.5 |
| 12.5° | 5178.0 | 5169.2 | 5162.1 | 5146.3 | 5121.7 | 5098.8 | 5076.0 | 5024.9 | 4989.7 | 4952.8 | 4864.8 |
| 15° | 5170.9 | 5167.4 | 5183.3 | 5193.8 | 5179.7 | 5165.7 | 5141.0 | 5097.1 | 5060.1 | 5023.2 | 4908.8 |
| 17.5° | 5227.3 | 5225.4 | 5265.9 | 5294.1 | 5287.0 | 5262.5 | 5229.0 | 5179.7 | 5149.8 | 5118.1 | 4975.6 |
| 20° | 5350.4 | 5359.2 | 5408.4 | 5445.4 | 5410.2 | 5375.0 | 5320.5 | 5251.8 | 5236.1 | 5222.0 | 5044.3 |
| 22.5° | 5582.7 | 5591.4 | 5626.6 | 5640.8 | 5549.2 | 5498.2 | 5422.6 | 5334.6 | 5324.0 | 5334.6 | 5126.9 |
| 25° | 5945.1 | 5936.3 | 5931.0 | 5878.2 | 5711.1 | 5632.0 | 5535.2 | 5443.6 | 5449.0 | 5496.4 | 5243.0 |
| 27.5° | 6425.5 | 6377.9 | 6304.0 | 6145.7 | 5880.0 | 5792.0 | 5674.1 | 5589.7 | 5623.2 | 5714.6 | 5417.2 |
| 30° | 6923.3 | 6870.5 | 6699.9 | 6441.2 | 6101.7 | 6004.9 | 5873.0 | 5777.9 | 5865.9 | 6010.1 | 5649.6 |
| 32.5° | 7384.3 | 7377.2 | 7127.4 | 6794.8 | 6407.9 | 6323.4 | 6191.4 | 6084.1 | 6226.6 | 6446.5 | 5997.9 |
| 35° | 7887.5 | 7903.3 | 7604.2 | 7204.8 | 6821.2 | 6733.3 | 6638.3 | 6557.3 | 6747.4 | 7050.0 | 6502.8 |
| 37.5° | 8425.8 | 8457.6 | 8103.9 | 7653.5 | 7292.8 | 7255.9 | 7199.5 | 7164.3 | 7458.2 | 7876.9 | 7208.3 |
| 40° | 9145.5 | 9113.8 | 8623.0 | 8160.2 | 7871.7 | 7869.9 | 7852.3 | 7894.5 | 8383.7 | 8957.3 | 8114.5 |
| 42.5° | 9916.1 | 9822.9 | 9173.6 | 8703.9 | 8506.9 | 8566.6 | 8601.8 | 8774.3 | 9497.4 | 10269.7 | 9219.3 |
| 45° | 10746.5 | 10537.2 | 9745.4 | 9279.2 | 9212.4 | 9339.0 | 9458.6 | 9833.4 | 10808.1 | 11763.5 | 10429.9 |
| 47.5° | 11409.9 | 11207.6 | 10336.6 | 9882.7 | 10028.7 | 10220.5 | 10451.0 | 11043.9 | 12275.5 | 13306.5 | 11624.5 |
| 50° | 11932.4 | 11800.5 | 10933.1 | 10586.4 | 10927.8 | 11223.4 | 11599.9 | 12414.5 | 13802.7 | 14809.1 | 12731.1 |
| 52.5° | 12439.1 | 12340.6 | 11534.8 | 11307.8 | 11983.5 | 12391.6 | 12903.6 | 13885.3 | 15368.6 | 16287.0 | 13661.9 |
| 55° | 12896.5 | 12826.2 | 12182.2 | 12206.9 | 13225.6 | 13756.9 | 14400.9 | 15560.3 | 17075.2 | 17604.8 | 14450.1 |
| 57.5° | 13412.1 | 13322.4 | 12921.2 | 13334.7 | 14821.3 | 15511.1 | 16348.6 | 17442.9 | 18676.3 | 18776.6 | 15050.1 |
| 60° | 13931.2 | 13853.7 | 13741.1 | 14636.7 | 16848.2 | 17573.1 | 18366.6 | 19267.5 | 20300.3 | 19686.2 | 15014.9 |
| 62.5° | 14381.6 | 14390.4 | 14589.1 | 16003.8 | 18832.8 | 19672.1 | 20639.8 | 21530.0 | 21769.3 | 19844.5 | 13904.8 |
| 65° | 15145.1 | 15284.1 | 15877.0 | 17939.1 | 21626.8 | 22749.3 | 23936.9 | 23794.4 | 22175.7 | 18364.8 | 11524.3 |
| 67.5° | 16053.0 | 16297.6 | 17499.2 | 20518.3 | 25157.9 | 26648.2 | 27107.4 | 24306.4 | 20548.3 | 14928.7 | 8214.7 |
| 70° | 15961.5 | 16297.6 | 18199.4 | 22441.4 | 28068.0 | 29067.5 | 27674.0 | 21998.0 | 16316.9 | 9752.5 | 4363.4 |
| 72.5° | 14173.9 | 14654.3 | 16772.6 | 21560.0 | 27151.4 | 27063.4 | 24024.9 | 16399.5 | 9694.4 | 3916.5 | 1704.8 |
| 75° | 10802.9 | 11288.5 | 13111.3 | 17032.9 | 21459.7 | 20720.7 | 17047.1 | 9059.3 | 3678.9 | 1555.3 | 1075.0 |
| 77.5° | 6214.3 | 6590.8 | 7998.4 | 10445.7 | 13614.5 | 12856.1 | 9488.6 | 4029.1 | 1791.1 | 1083.8 | 839.2 |
| 80° | 3469.5 | 3678.9 | 4534.0 | 5299.4 | 6671.7 | 6115.7 | 4245.5 | 2503.7 | 1337.2 | 786.4 | 647.4 |
| 82.5° | 2742.9 | 2929.4 | 3666.7 | 3342.9 | 3047.4 | 2811.6 | 2438.5 | 2229.2 | 1068.0 | 496.1 | 387.1 |
| 85° | 2396.4 | 2574.1 | 3103.6 | 2632.1 | 2081.4 | 1908.9 | 1981.1 | 2194.0 | 830.4 | 299.1 | 330.8 |
| 87.5° | 2220.4 | 2457.9 | 2765.9 | 2028.6 | 1620.5 | 1435.7 | 1828.0 | 2405.2 | 267.4 | 186.5 | 133.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 | 5253.7 |
| 2.5° | 5190.2 | 5162.1 | 5116.4 | 5076.0 | 5012.6 | 4979.2 | 4942.2 | 4915.8 | 4894.7 | 4877.1 | 4905.3 |
| 5° | 5030.2 | 4977.4 | 4880.6 | 4776.9 | 4653.7 | 4556.9 | 4475.9 | 4400.3 | 4347.5 | 4312.4 | 4337.0 |
| 7.5° | 4878.9 | 4792.6 | 4641.3 | 4453.1 | 4242.0 | 4062.5 | 3914.7 | 3784.5 | 3694.8 | 3636.7 | 3659.6 |
| 10° | 4792.6 | 4685.3 | 4451.4 | 4155.7 | 3844.4 | 3564.6 | 3332.4 | 3131.8 | 2992.7 | 2913.6 | 2925.9 |
| 12.5° | 4771.6 | 4632.5 | 4308.9 | 3902.4 | 3476.6 | 3087.8 | 2760.5 | 2482.5 | 2287.2 | 2185.2 | 2188.7 |
| 15° | 4787.4 | 4609.7 | 4175.1 | 3659.6 | 3121.2 | 2630.3 | 2222.2 | 1884.4 | 1657.4 | 1541.3 | 1539.5 |
| 17.5° | 4813.8 | 4592.1 | 4034.3 | 3397.4 | 2760.5 | 2190.4 | 1734.8 | 1404.0 | 1203.4 | 1110.2 | 1103.2 |
| 20° | 4841.9 | 4563.9 | 3876.0 | 3114.2 | 2385.8 | 1782.3 | 1358.3 | 1099.7 | 972.9 | 922.0 | 918.4 |
| 22.5° | 4882.4 | 4539.3 | 3712.4 | 2815.1 | 2018.1 | 1451.6 | 1117.3 | 943.1 | 876.2 | 849.8 | 846.3 |
| 25° | 4947.5 | 4527.0 | 3538.2 | 2503.7 | 1687.3 | 1214.0 | 972.9 | 865.6 | 827.0 | 809.4 | 807.6 |
| 27.5° | 5056.5 | 4544.6 | 3374.6 | 2201.1 | 1418.1 | 1053.8 | 892.0 | 827.0 | 798.8 | 783.0 | 781.2 |
| 30° | 5197.3 | 4599.1 | 3202.1 | 1914.2 | 1208.7 | 944.8 | 842.8 | 800.6 | 777.6 | 761.8 | 761.8 |
| 32.5° | 5431.4 | 4690.6 | 3021.0 | 1666.2 | 1059.2 | 869.2 | 805.8 | 777.6 | 758.3 | 746.0 | 744.2 |
| 35° | 5776.2 | 4863.0 | 2852.0 | 1460.4 | 951.9 | 814.6 | 774.2 | 753.0 | 739.0 | 731.9 | 731.9 |
| 37.5° | 6277.6 | 5135.7 | 2702.4 | 1312.5 | 886.8 | 777.6 | 744.2 | 728.4 | 719.6 | 719.6 | 719.6 |
| 40° | 6951.5 | 5512.3 | 2581.1 | 1214.0 | 849.8 | 751.3 | 721.4 | 709.0 | 703.8 | 705.5 | 705.5 |
| 42.5° | 7783.7 | 6001.3 | 2500.1 | 1145.4 | 832.2 | 735.4 | 705.5 | 695.0 | 689.7 | 687.9 | 689.7 |
| 45° | 8732.0 | 6557.3 | 2491.3 | 1094.4 | 814.6 | 724.9 | 695.0 | 684.5 | 673.8 | 666.9 | 666.9 |
| 47.5° | 9654.0 | 7122.2 | 2563.5 | 1076.8 | 795.2 | 712.6 | 686.2 | 675.7 | 659.8 | 643.9 | 643.9 |
| 50° | 10468.6 | 7602.5 | 2660.3 | 1083.8 | 788.2 | 695.0 | 672.1 | 666.9 | 642.2 | 624.6 | 622.9 |
| 52.5° | 11116.0 | 7972.0 | 2739.5 | 1104.9 | 795.2 | 682.6 | 654.5 | 656.2 | 629.8 | 610.5 | 608.8 |
| 55° | 11635.0 | 8214.7 | 2718.3 | 1126.1 | 811.1 | 675.7 | 638.6 | 642.2 | 621.0 | 601.7 | 601.7 |
| 57.5° | 11862.0 | 8125.0 | 2484.3 | 1108.5 | 823.4 | 677.4 | 626.4 | 640.5 | 622.9 | 605.3 | 605.3 |
| 60° | 11374.7 | 7328.0 | 2046.2 | 1031.0 | 807.6 | 672.1 | 621.0 | 647.4 | 645.7 | 628.1 | 626.4 |
| 62.5° | 9900.3 | 5901.1 | 1587.0 | 916.7 | 753.0 | 645.7 | 607.0 | 645.7 | 665.0 | 659.8 | 658.1 |
| 65° | 7630.6 | 4203.3 | 1212.2 | 793.5 | 679.1 | 601.7 | 570.1 | 605.3 | 631.7 | 638.6 | 636.9 |
| 67.5° | 4952.8 | 2575.8 | 934.3 | 677.4 | 596.5 | 550.7 | 522.5 | 538.4 | 543.7 | 543.7 | 540.1 |
| 70° | 2435.0 | 1386.4 | 744.2 | 570.1 | 512.0 | 496.1 | 480.3 | 471.5 | 462.7 | 455.7 | 455.7 |
| 72.5° | 1201.7 | 906.1 | 612.2 | 482.1 | 441.6 | 434.5 | 431.1 | 420.5 | 413.5 | 404.7 | 401.1 |
| 75° | 888.5 | 737.2 | 520.8 | 406.4 | 380.0 | 373.0 | 380.0 | 371.2 | 369.5 | 362.4 | 359.0 |
| 77.5° | 730.2 | 628.1 | 448.7 | 348.3 | 325.5 | 313.2 | 323.8 | 325.5 | 327.2 | 316.7 | 313.2 |
| 80° | 592.9 | 531.3 | 374.7 | 288.6 | 267.4 | 258.6 | 265.7 | 279.8 | 283.3 | 267.4 | 260.4 |
| 82.5° | 427.5 | 434.5 | 302.6 | 225.3 | 207.7 | 200.6 | 214.6 | 232.2 | 235.8 | 212.9 | 207.7 |
| 85° | 359.0 | 362.4 | 232.2 | 160.1 | 142.5 | 132.0 | 154.9 | 172.5 | 184.7 | 161.8 | 156.6 |
| 87.5° | 149.6 | 212.9 | 133.7 | 89.7 | 79.2 | 68.6 | 82.7 | 91.5 | 110.9 | 102.1 | 100.2 |
| 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)