

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: P323567

Luminaire Tested: **GAN-SA3C-750-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18448 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

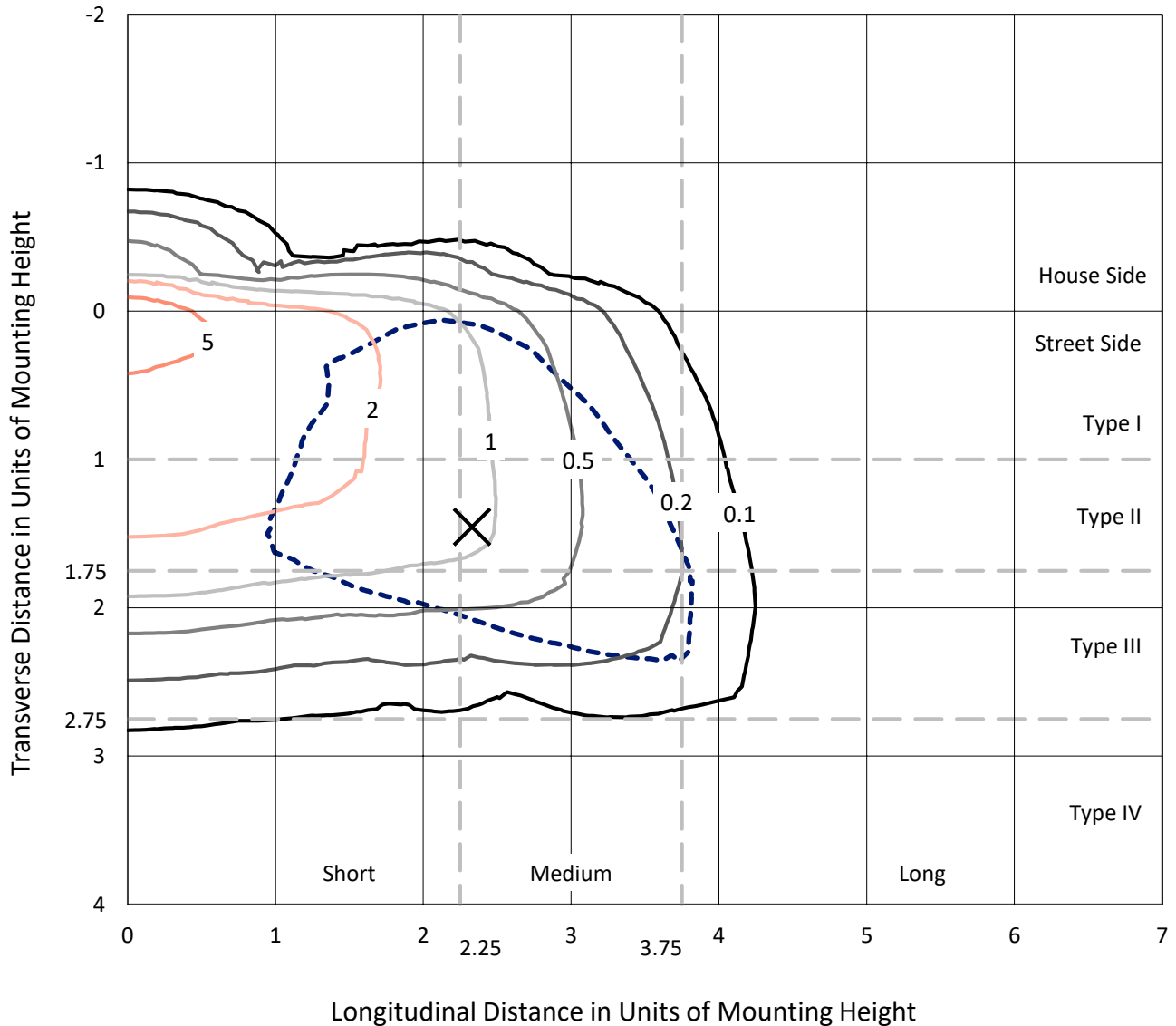
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

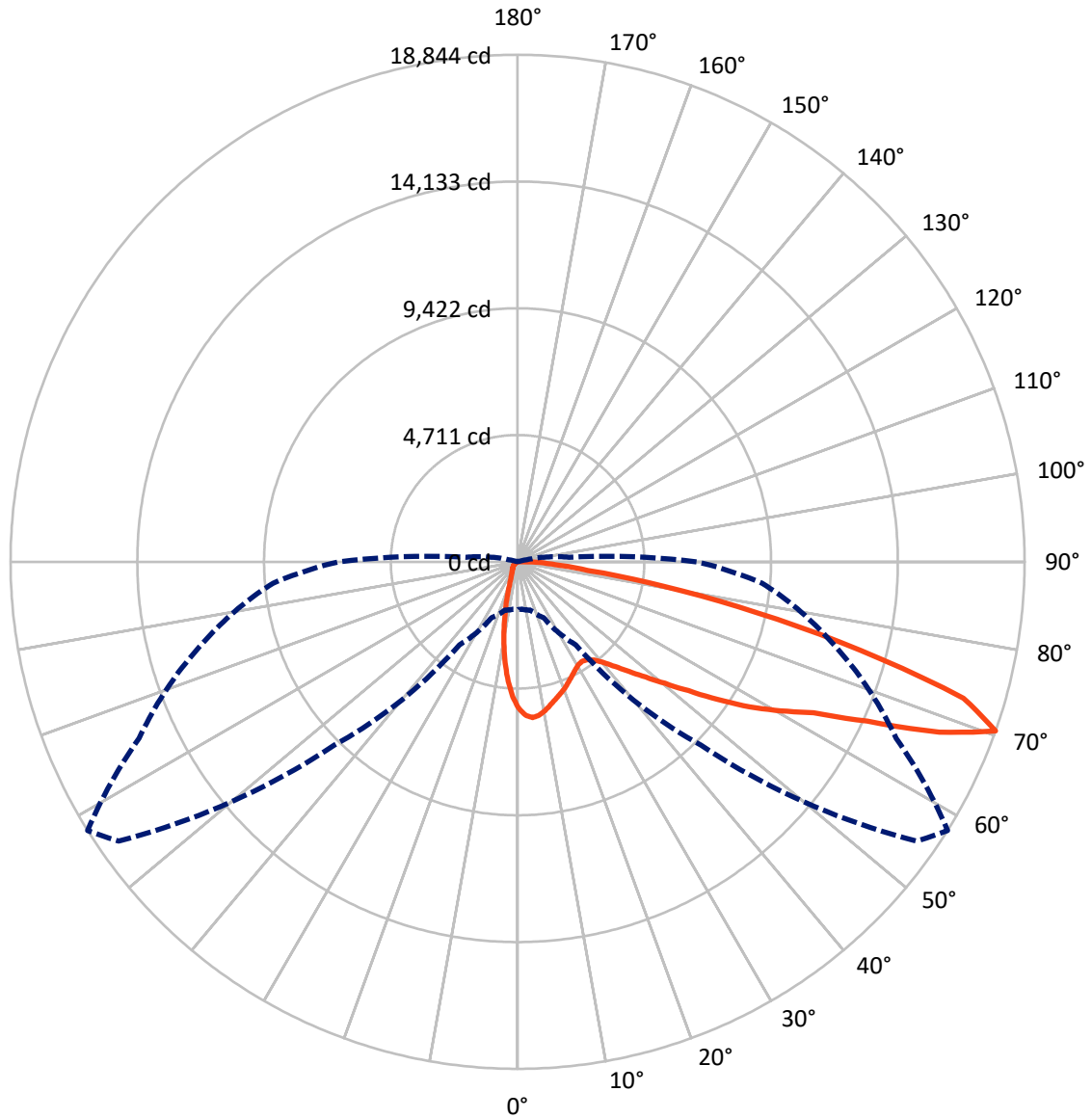
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1578.7 | 0.0 | 1578.7 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 16869.3 | 0.0 | 16869.3 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 18448.0 | 0.0 | 18448.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 445.6 | 2.4 |
| 10°-20° | 935.3 | 5.1 |
| 20°-30° | 1229.5 | 6.7 |
| 30°-40° | 1628.4 | 8.8 |
| 40°-50° | 2434.0 | 13.2 |
| 50°-60° | 3899.1 | 21.1 |
| 60°-70° | 4914.8 | 26.6 |
| 70°-80° | 2651.0 | 14.4 |
| 80°-90° | 310.3 | 1.7 |
| 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° | 18448.0 | 100.0 |
| 0°-180° | 18448.0 | 100.0 |

Coefficient of Utilization

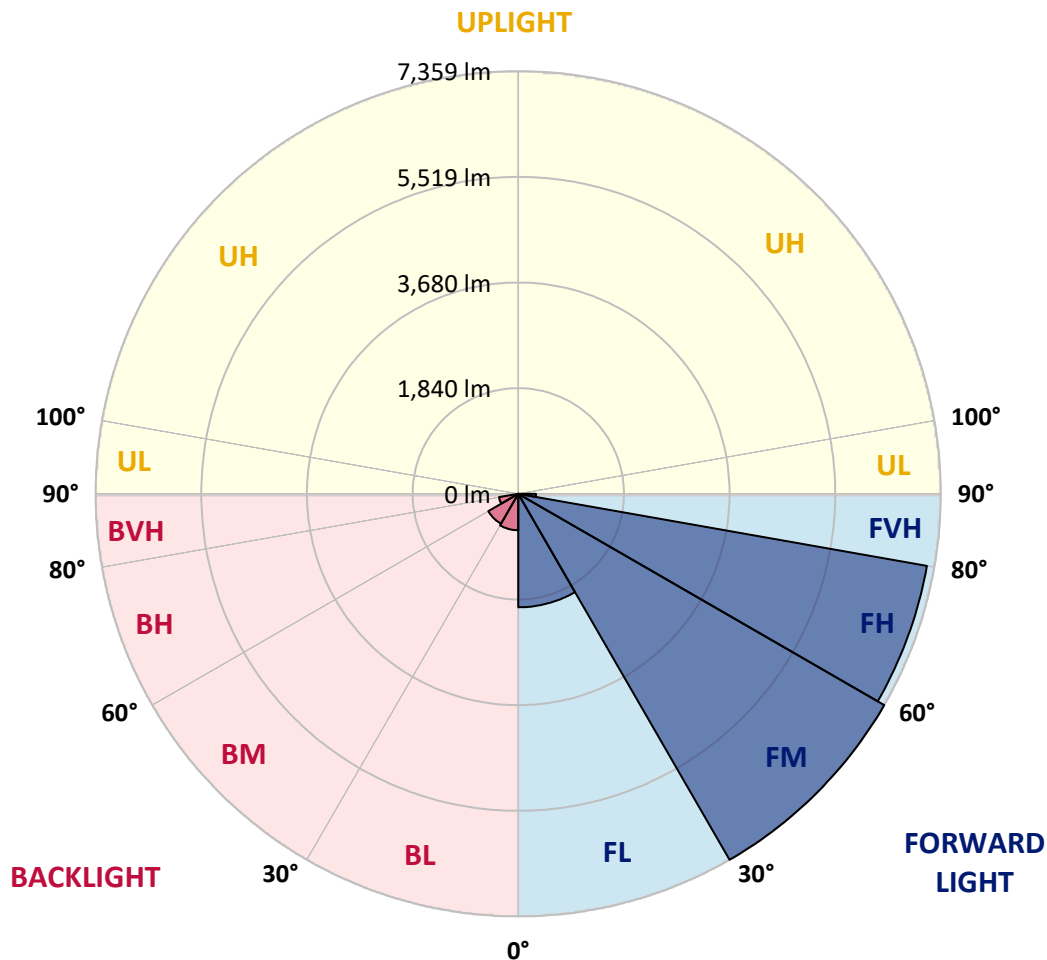


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1976.2 | 10.7 | | | |
| FM (30°-60°) | 7359.2 | 39.9 | | | |
| FH (60°-80°) | 7226.3 | 39.2 | | | G3/7500 |
| FVH (80°-90°) | 307.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 634.3 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 602.3 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 339.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 |
| 2.5° | 5901.3 | 5886.7 | 5881.3 | 5872.1 | 5836.8 | 5802.3 | 5734.0 | 5714.9 | 5671.9 | 5569.9 | 5461.7 |
| 5° | 5905.9 | 5905.1 | 5921.2 | 5917.4 | 5905.1 | 5889.0 | 5839.9 | 5814.6 | 5741.7 | 5596.0 | 5398.1 |
| 7.5° | 5621.3 | 5635.9 | 5671.9 | 5701.1 | 5734.8 | 5778.5 | 5784.7 | 5760.1 | 5700.3 | 5543.0 | 5280.7 |
| 10° | 5239.3 | 5262.3 | 5312.9 | 5370.4 | 5458.7 | 5546.1 | 5624.3 | 5621.3 | 5600.6 | 5445.6 | 5139.5 |
| 12.5° | 4856.5 | 4883.3 | 4941.6 | 5026.8 | 5151.8 | 5294.5 | 5434.1 | 5453.3 | 5487.8 | 5358.2 | 5009.1 |
| 15° | 4521.3 | 4544.3 | 4601.8 | 4706.1 | 4861.1 | 5052.9 | 5257.7 | 5293.0 | 5381.9 | 5289.9 | 4900.2 |
| 17.5° | 4236.7 | 4251.2 | 4293.4 | 4409.3 | 4588.8 | 4821.2 | 5087.4 | 5156.4 | 5289.1 | 5236.2 | 4805.9 |
| 20° | 4038.0 | 4040.3 | 4067.9 | 4149.2 | 4328.7 | 4588.8 | 4911.0 | 5009.9 | 5190.9 | 5190.2 | 4708.4 |
| 22.5° | 3939.8 | 3932.1 | 3937.5 | 3984.3 | 4116.2 | 4367.1 | 4734.5 | 4851.9 | 5102.7 | 5151.1 | 4609.5 |
| 25° | 3921.4 | 3915.3 | 3899.9 | 3906.1 | 3985.8 | 4173.0 | 4556.6 | 4692.3 | 5025.2 | 5127.3 | 4523.6 |
| 27.5° | 3978.9 | 3985.1 | 3959.0 | 3931.4 | 3937.5 | 4047.2 | 4398.5 | 4555.8 | 4962.3 | 5127.3 | 4463.0 |
| 30° | 4094.8 | 4097.8 | 4078.7 | 4042.6 | 3994.3 | 4011.9 | 4288.8 | 4446.1 | 4930.9 | 5162.6 | 4424.6 |
| 32.5° | 4222.9 | 4239.7 | 4237.4 | 4208.3 | 4139.3 | 4067.9 | 4262.8 | 4406.2 | 4928.6 | 5240.8 | 4420.8 |
| 35° | 4381.7 | 4400.8 | 4433.0 | 4426.9 | 4354.8 | 4237.4 | 4351.7 | 4464.5 | 4973.9 | 5369.7 | 4462.2 |
| 37.5° | 4550.4 | 4579.6 | 4648.6 | 4681.6 | 4634.8 | 4502.1 | 4551.2 | 4631.7 | 5095.1 | 5578.3 | 4567.3 |
| 40° | 4713.8 | 4746.8 | 4872.6 | 5002.2 | 4966.9 | 4830.4 | 4853.4 | 4917.9 | 5310.6 | 5878.3 | 4766.7 |
| 42.5° | 4874.1 | 4923.2 | 5108.1 | 5321.3 | 5363.5 | 5254.6 | 5266.9 | 5318.3 | 5630.5 | 6291.0 | 5092.8 |
| 45° | 5065.9 | 5121.1 | 5395.0 | 5658.1 | 5770.9 | 5723.3 | 5775.5 | 5809.2 | 6048.6 | 6836.4 | 5532.3 |
| 47.5° | 5347.4 | 5411.1 | 5747.1 | 6047.0 | 6244.9 | 6275.6 | 6380.7 | 6403.0 | 6577.1 | 7471.5 | 6105.3 |
| 50° | 5896.7 | 5914.3 | 6218.1 | 6490.4 | 6775.8 | 6959.9 | 7079.5 | 7096.4 | 7216.8 | 8165.7 | 6821.0 |
| 52.5° | 6587.8 | 6599.3 | 6771.2 | 6953.7 | 7278.2 | 7654.1 | 7934.1 | 7957.9 | 7983.2 | 8842.3 | 7527.5 |
| 55° | 7274.4 | 7272.8 | 7386.4 | 7493.8 | 7865.0 | 8411.2 | 9018.8 | 9033.3 | 8851.5 | 9484.4 | 8067.6 |
| 57.5° | 7703.2 | 7744.6 | 7917.2 | 8055.3 | 8573.8 | 9274.2 | 10117.2 | 10170.9 | 9763.6 | 9960.0 | 8601.5 |
| 60° | 7566.6 | 7586.6 | 7969.4 | 8480.2 | 9456.8 | 10500.8 | 11228.8 | 11242.6 | 10449.4 | 10434.8 | 9276.5 |
| 62.5° | 6446.7 | 6457.4 | 7058.8 | 8112.0 | 9904.0 | 12091.7 | 12569.6 | 12344.9 | 11238.0 | 11093.7 | 10084.2 |
| 65° | 4418.5 | 4488.3 | 4990.7 | 6292.5 | 9082.4 | 13089.7 | 14645.4 | 14273.4 | 12440.0 | 12043.4 | 10814.5 |
| 67.5° | 2602.0 | 2587.4 | 2836.0 | 3794.8 | 6670.7 | 12427.0 | 17271.2 | 16901.4 | 14079.3 | 12679.3 | 10600.5 |
| 70° | 1777.4 | 1767.4 | 1862.5 | 2297.5 | 3765.7 | 9640.1 | 18097.3 | 18843.7 | 15526.8 | 12251.3 | 9123.1 |
| 72.5° | 1268.8 | 1274.1 | 1414.5 | 1785.0 | 2364.2 | 5616.7 | 15562.8 | 17329.5 | 15073.4 | 10680.3 | 6934.6 |
| 75° | 861.4 | 876.0 | 1077.0 | 1464.4 | 2072.7 | 2857.4 | 11043.9 | 13173.3 | 12274.3 | 7762.2 | 3985.8 |
| 77.5° | 463.3 | 479.4 | 716.5 | 1179.8 | 1874.0 | 1985.2 | 7104.1 | 9066.3 | 7710.1 | 3489.5 | 1155.2 |
| 80° | 193.3 | 202.5 | 335.2 | 857.6 | 1619.3 | 1743.6 | 4179.9 | 5497.8 | 3285.5 | 688.1 | 257.7 |
| 82.5° | 83.6 | 88.2 | 139.6 | 511.7 | 1210.5 | 1472.1 | 2213.1 | 2644.9 | 995.7 | 151.1 | 129.6 |
| 85° | 16.1 | 16.9 | 57.5 | 270.8 | 772.5 | 830.8 | 1434.5 | 1406.1 | 447.2 | 65.2 | 94.4 |
| 87.5° | 0.0 | 0.0 | 13.8 | 85.1 | 227.1 | 452.6 | 875.3 | 864.5 | 151.9 | 31.5 | 35.3 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 | 5449.5 |
| 2.5° | 5406.5 | 5353.6 | 5242.3 | 5105.0 | 4999.9 | 4884.1 | 4792.1 | 4675.5 | 4624.8 | 4627.1 | 4599.5 |
| 5° | 5285.3 | 5176.4 | 4930.1 | 4619.5 | 4380.1 | 4133.1 | 3920.6 | 3708.9 | 3583.9 | 3543.2 | 3504.9 |
| 7.5° | 5111.9 | 4939.3 | 4546.6 | 4067.9 | 3662.9 | 3267.1 | 2922.6 | 2619.6 | 2427.9 | 2334.3 | 2299.8 |
| 10° | 4916.3 | 4673.9 | 4105.5 | 3474.9 | 2896.6 | 2361.1 | 1914.7 | 1526.5 | 1371.6 | 1266.5 | 1239.6 |
| 12.5° | 4744.5 | 4416.2 | 3674.4 | 2866.6 | 2180.1 | 1534.2 | 1108.5 | 866.8 | 761.7 | 720.3 | 713.4 |
| 15° | 4582.6 | 4175.3 | 3259.4 | 2315.9 | 1509.6 | 944.3 | 705.0 | 622.9 | 598.3 | 591.4 | 591.4 |
| 17.5° | 4430.0 | 3945.9 | 2853.6 | 1773.5 | 998.8 | 662.0 | 583.8 | 565.3 | 557.7 | 556.9 | 557.7 |
| 20° | 4270.4 | 3716.6 | 2454.7 | 1299.5 | 697.3 | 560.7 | 539.3 | 529.3 | 527.0 | 527.0 | 527.0 |
| 22.5° | 4117.8 | 3487.2 | 2066.6 | 928.2 | 559.2 | 511.7 | 500.9 | 494.0 | 491.7 | 490.9 | 489.4 |
| 25° | 3971.3 | 3269.4 | 1687.6 | 655.9 | 490.9 | 468.7 | 459.5 | 450.3 | 443.4 | 439.5 | 437.2 |
| 27.5° | 3850.8 | 3075.3 | 1334.7 | 526.2 | 443.4 | 424.2 | 412.7 | 398.9 | 382.0 | 374.3 | 371.3 |
| 30° | 3754.9 | 2898.1 | 1028.7 | 444.1 | 398.9 | 379.7 | 362.1 | 338.3 | 313.7 | 300.7 | 299.9 |
| 32.5° | 3679.8 | 2724.0 | 780.9 | 392.8 | 359.0 | 335.2 | 309.9 | 280.0 | 251.6 | 237.0 | 236.3 |
| 35° | 3642.9 | 2570.5 | 596.8 | 355.2 | 323.7 | 293.8 | 262.3 | 229.4 | 201.7 | 187.9 | 186.4 |
| 37.5° | 3667.5 | 2440.9 | 465.6 | 323.7 | 293.8 | 259.3 | 222.5 | 187.9 | 163.4 | 151.1 | 150.4 |
| 40° | 3757.2 | 2358.1 | 378.2 | 296.9 | 268.5 | 226.3 | 186.4 | 154.2 | 133.5 | 123.5 | 122.7 |
| 42.5° | 3948.2 | 2327.4 | 322.9 | 274.6 | 243.9 | 195.6 | 155.0 | 127.3 | 108.2 | 101.3 | 99.7 |
| 45° | 4267.4 | 2372.6 | 285.4 | 253.1 | 218.6 | 166.5 | 128.1 | 104.3 | 87.4 | 82.1 | 81.3 |
| 47.5° | 4692.3 | 2491.5 | 258.5 | 232.4 | 195.6 | 140.4 | 106.6 | 84.4 | 71.3 | 66.0 | 65.2 |
| 50° | 5240.0 | 2680.2 | 236.3 | 211.7 | 174.1 | 118.9 | 88.2 | 66.7 | 55.2 | 51.4 | 51.4 |
| 52.5° | 5836.1 | 2905.0 | 216.3 | 192.5 | 152.7 | 99.0 | 71.3 | 51.4 | 43.7 | 39.1 | 39.1 |
| 55° | 6328.5 | 3101.4 | 194.8 | 178.0 | 126.6 | 82.1 | 54.5 | 39.1 | 32.2 | 29.9 | 29.9 |
| 57.5° | 6820.3 | 3310.8 | 170.3 | 152.7 | 101.3 | 66.7 | 41.4 | 29.1 | 23.8 | 22.2 | 22.2 |
| 60° | 7457.7 | 3567.0 | 146.5 | 124.3 | 79.8 | 50.6 | 30.7 | 20.7 | 17.6 | 16.9 | 16.9 |
| 62.5° | 8158.8 | 3717.3 | 125.0 | 99.7 | 62.1 | 37.6 | 22.2 | 13.8 | 13.0 | 13.0 | 12.3 |
| 65° | 8587.6 | 3504.9 | 105.1 | 79.8 | 48.3 | 28.4 | 14.6 | 10.0 | 11.5 | 10.7 | 9.2 |
| 67.5° | 8040.7 | 2743.9 | 85.9 | 62.1 | 37.6 | 21.5 | 9.2 | 6.9 | 12.3 | 10.0 | 7.7 |
| 70° | 6657.6 | 1920.8 | 66.7 | 43.7 | 29.9 | 18.4 | 6.1 | 4.6 | 13.0 | 10.0 | 6.1 |
| 72.5° | 4982.3 | 1285.7 | 52.9 | 29.1 | 22.2 | 16.1 | 5.4 | 2.3 | 11.5 | 8.4 | 5.4 |
| 75° | 2722.4 | 517.8 | 42.2 | 18.4 | 13.8 | 11.5 | 3.8 | 1.5 | 7.7 | 6.1 | 3.8 |
| 77.5° | 716.5 | 136.5 | 30.7 | 12.3 | 7.7 | 4.6 | 2.3 | 0.8 | 3.8 | 3.1 | 1.5 |
| 80° | 182.6 | 52.9 | 19.9 | 8.4 | 5.4 | 2.3 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 |
| 82.5° | 97.4 | 22.2 | 12.3 | 6.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 73.6 | 14.6 | 6.9 | 3.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.4 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)