

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: P319708

Luminaire Tested: **GAN-SA4A-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18799 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

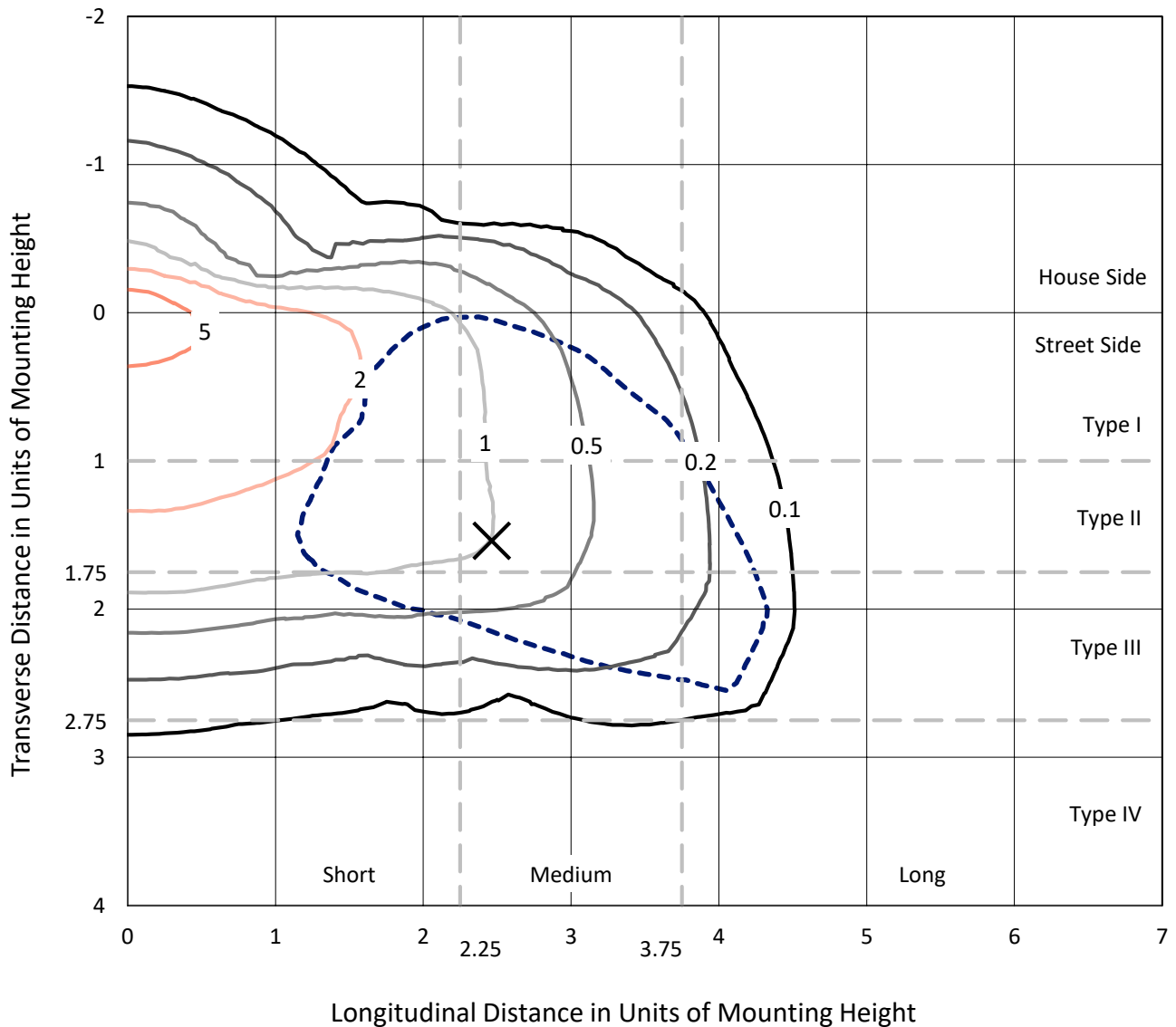
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

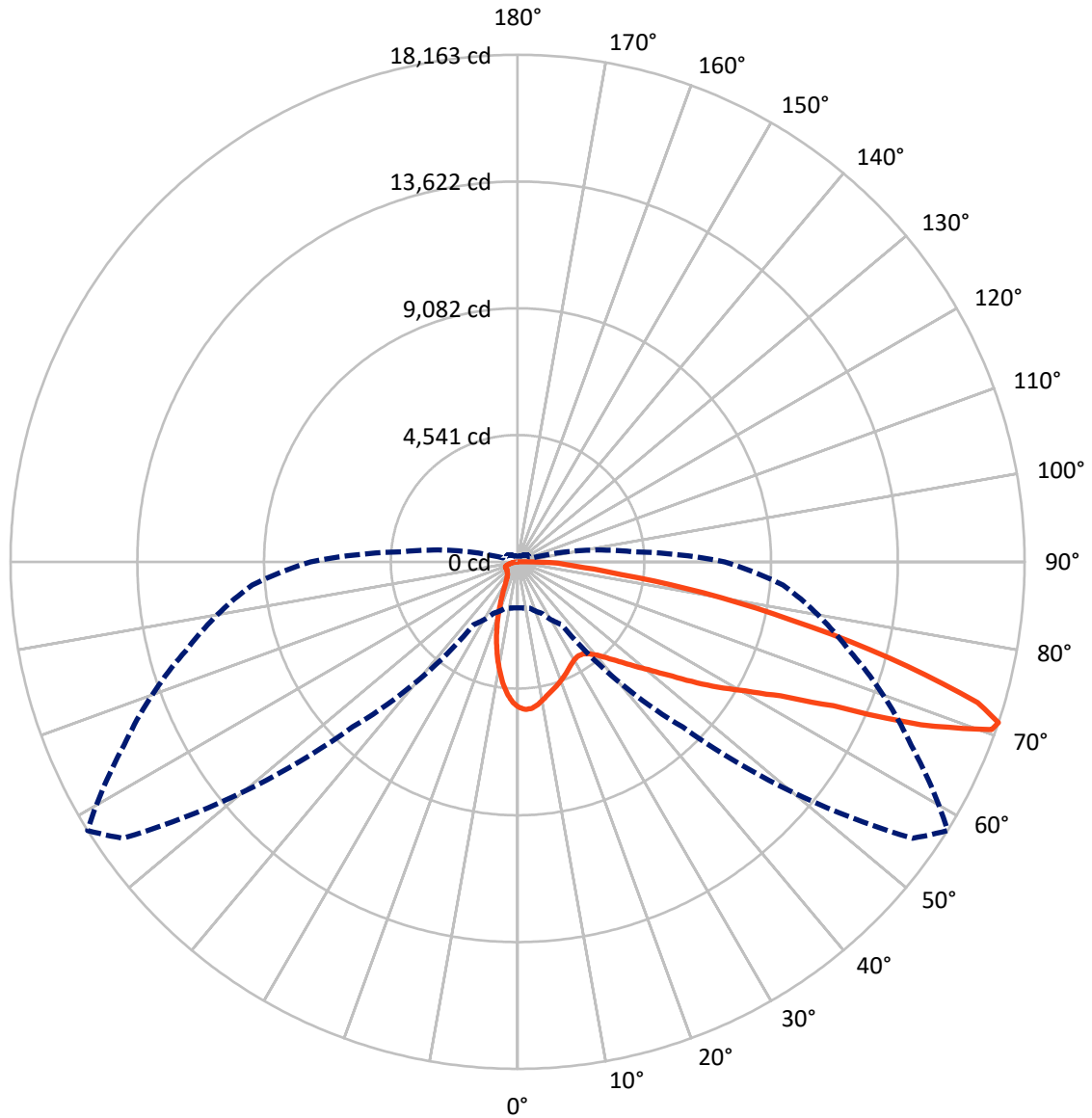
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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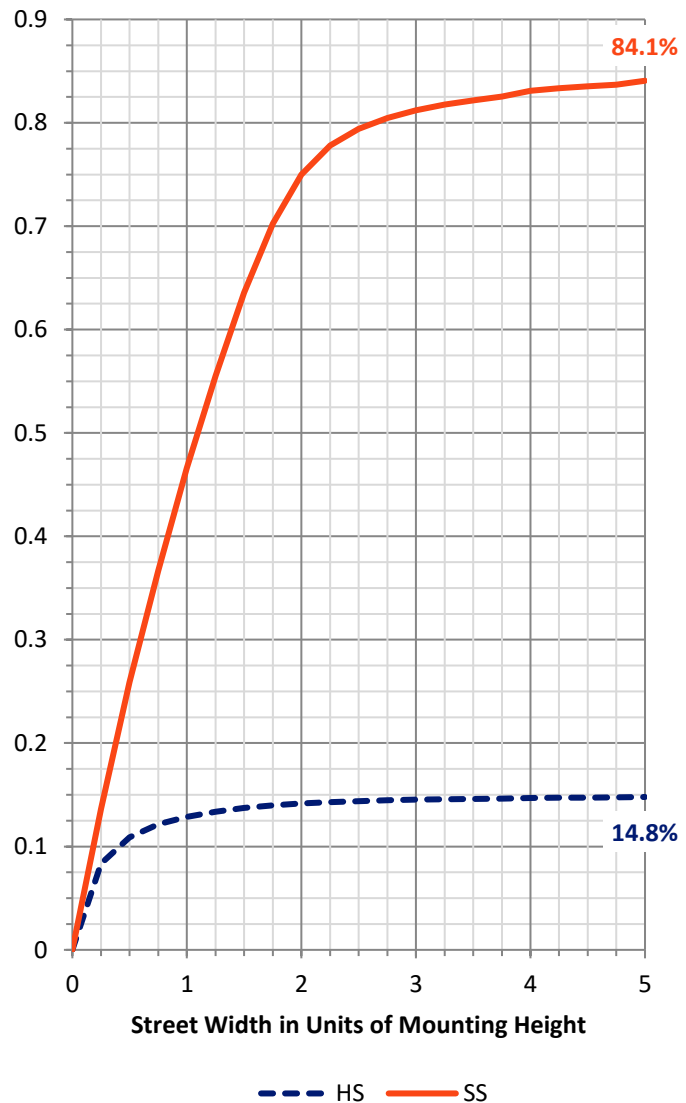
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2810.6 | 0.0 | 2810.6 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 15988.4 | 0.0 | 15988.4 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 18799.0 | 0.0 | 18799.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 449.3 | 2.4 |
| 10°-20° | 999.2 | 5.3 |
| 20°-30° | 1269.8 | 6.8 |
| 30°-40° | 1617.5 | 8.6 |
| 40°-50° | 2293.7 | 12.2 |
| 50°-60° | 3549.6 | 18.9 |
| 60°-70° | 4832.4 | 25.7 |
| 70°-80° | 3223.8 | 17.1 |
| 80°-90° | 563.6 | 3.0 |
| 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° | 18799.0 | 100.0 |
| 0°-180° | 18799.0 | 100.0 |

Coefficient of Utilization

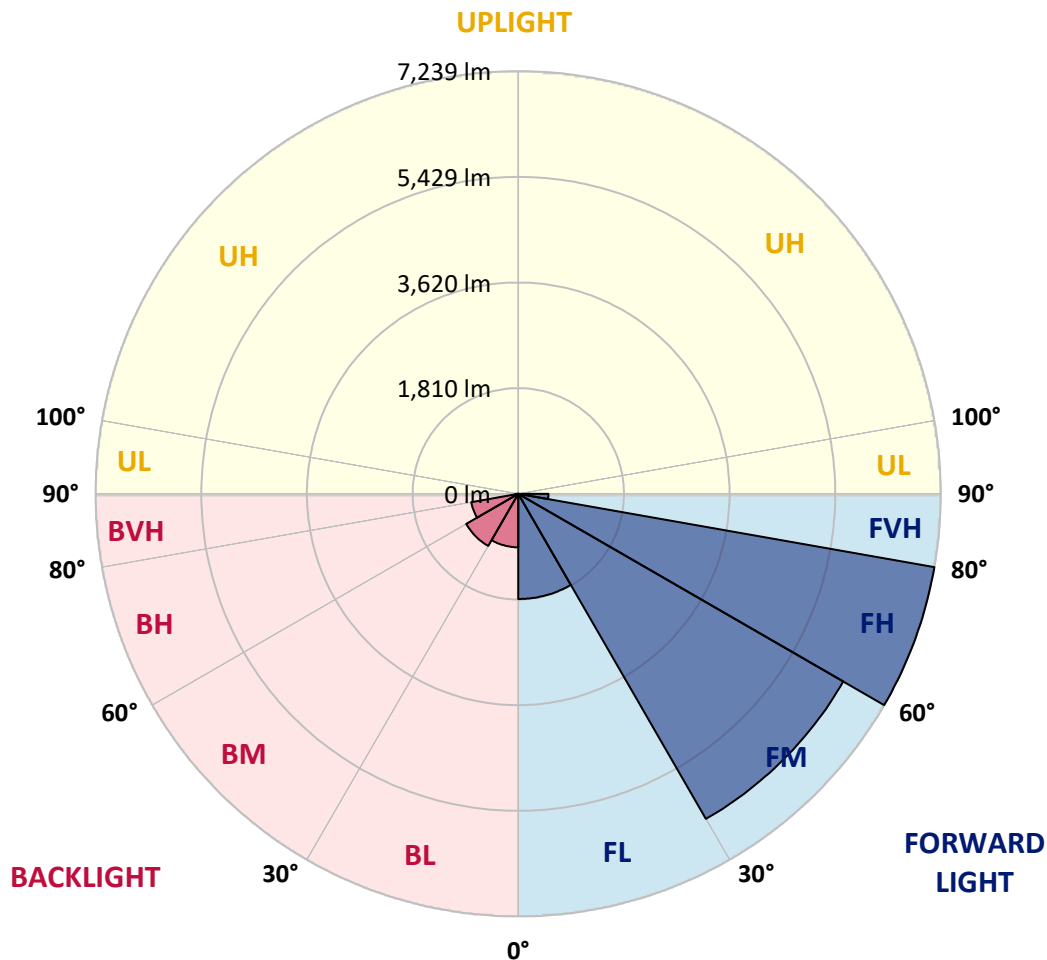


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1802.2 | 9.6 | | | |
| FM (30°-60°) | 6430.2 | 34.2 | | | |
| FH (60°-80°) | 7239.3 | 38.5 | | | G3/7500 |
| FVH (80°-90°) | 516.8 | 2.7 | | | G4/750 |
| BL (0°-30°) | 916.2 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 1030.7 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 816.9 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 |
| 2.5° | 5346.8 | 5339.5 | 5342.2 | 5336.9 | 5324.5 | 5312.0 | 5293.7 | 5297.0 | 5271.4 | 5233.5 | 5186.3 |
| 5° | 5245.9 | 5243.3 | 5262.9 | 5274.1 | 5283.2 | 5276.0 | 5270.8 | 5277.3 | 5240.0 | 5187.6 | 5105.8 |
| 7.5° | 5034.4 | 5005.6 | 5030.5 | 5067.8 | 5103.2 | 5130.0 | 5165.4 | 5169.9 | 5146.4 | 5091.4 | 4984.0 |
| 10° | 4733.8 | 4706.3 | 4743.0 | 4801.3 | 4872.0 | 4936.2 | 5007.5 | 5020.6 | 5025.2 | 4975.5 | 4845.1 |
| 12.5° | 4422.1 | 4401.2 | 4437.8 | 4519.7 | 4636.9 | 4735.8 | 4849.7 | 4869.4 | 4910.0 | 4876.6 | 4716.8 |
| 15° | 4143.2 | 4135.3 | 4179.8 | 4260.4 | 4395.3 | 4546.5 | 4710.9 | 4746.9 | 4815.7 | 4804.5 | 4616.6 |
| 17.5° | 3902.2 | 3900.2 | 3934.3 | 4018.7 | 4168.0 | 4359.3 | 4572.7 | 4633.6 | 4735.8 | 4748.9 | 4534.1 |
| 20° | 3722.8 | 3718.8 | 3742.4 | 3804.6 | 3958.5 | 4175.2 | 4423.4 | 4507.2 | 4654.6 | 4700.4 | 4449.0 |
| 22.5° | 3626.5 | 3625.8 | 3626.5 | 3656.0 | 3781.7 | 3983.4 | 4278.1 | 4380.2 | 4575.4 | 4661.8 | 4354.7 |
| 25° | 3610.1 | 3608.2 | 3593.7 | 3590.5 | 3661.9 | 3822.9 | 4134.0 | 4246.6 | 4500.0 | 4634.9 | 4265.0 |
| 27.5° | 3652.7 | 3655.3 | 3636.3 | 3605.5 | 3619.9 | 3717.5 | 4008.9 | 4129.4 | 4439.8 | 4629.7 | 4202.7 |
| 30° | 3741.1 | 3739.8 | 3723.4 | 3691.3 | 3663.2 | 3678.2 | 3919.9 | 4040.3 | 4399.2 | 4652.6 | 4160.2 |
| 32.5° | 3838.7 | 3845.9 | 3842.6 | 3824.9 | 3783.0 | 3722.8 | 3893.0 | 4010.9 | 4387.4 | 4707.6 | 4141.8 |
| 35° | 3955.9 | 3963.7 | 3987.3 | 4001.1 | 3951.9 | 3855.0 | 3950.6 | 4052.8 | 4421.5 | 4811.1 | 4171.3 |
| 37.5° | 4067.2 | 4087.5 | 4153.6 | 4211.9 | 4170.0 | 4062.0 | 4103.9 | 4176.6 | 4526.9 | 4974.1 | 4250.6 |
| 40° | 4195.5 | 4213.2 | 4321.3 | 4445.0 | 4438.5 | 4326.5 | 4350.7 | 4399.2 | 4712.9 | 5207.9 | 4394.0 |
| 42.5° | 4321.9 | 4357.3 | 4513.8 | 4689.3 | 4739.7 | 4640.8 | 4679.5 | 4705.0 | 4974.8 | 5517.7 | 4644.1 |
| 45° | 4490.2 | 4528.2 | 4745.6 | 4957.1 | 5075.0 | 5019.3 | 5080.9 | 5090.7 | 5304.2 | 5939.4 | 5007.5 |
| 47.5° | 4745.0 | 4788.2 | 5041.6 | 5263.6 | 5443.7 | 5449.6 | 5551.1 | 5547.1 | 5715.4 | 6422.0 | 5465.3 |
| 50° | 5141.8 | 5204.0 | 5411.6 | 5619.2 | 5837.9 | 5959.7 | 6095.2 | 6076.2 | 6208.5 | 6936.0 | 5992.4 |
| 52.5° | 5661.7 | 5690.5 | 5844.4 | 5997.7 | 6269.4 | 6542.5 | 6737.0 | 6719.9 | 6767.7 | 7464.5 | 6590.9 |
| 55° | 6200.7 | 6222.3 | 6285.8 | 6369.6 | 6735.0 | 7180.3 | 7591.5 | 7564.7 | 7443.5 | 8013.2 | 7182.3 |
| 57.5° | 6685.2 | 6729.1 | 6773.0 | 6807.7 | 7203.9 | 7846.9 | 8465.7 | 8467.7 | 8177.0 | 8605.2 | 7793.2 |
| 60° | 6760.5 | 6799.2 | 7089.3 | 7363.0 | 8006.0 | 8736.2 | 9401.5 | 9381.9 | 8935.9 | 9247.6 | 8474.3 |
| 62.5° | 5976.0 | 6063.1 | 6547.7 | 7275.9 | 8778.8 | 10362.8 | 10595.3 | 10571.0 | 9843.5 | 10039.3 | 9267.3 |
| 65° | 4282.6 | 4381.5 | 4966.3 | 6060.5 | 8404.2 | 12155.1 | 12749.7 | 12423.6 | 11081.2 | 11013.1 | 10195.8 |
| 67.5° | 2470.7 | 2494.3 | 2747.7 | 3626.5 | 6399.1 | 12248.7 | 16036.3 | 15579.9 | 13003.1 | 12117.8 | 10650.3 |
| 70° | 1827.0 | 1826.3 | 1886.6 | 2231.7 | 3462.8 | 9996.8 | 17599.4 | 18008.7 | 15026.6 | 12481.2 | 10007.9 |
| 71° | 1652.2 | 1654.1 | 1721.6 | 2031.3 | 2742.5 | 8367.5 | 17267.4 | 18163.2 | 15559.6 | 12301.8 | 9543.0 |
| 72.5° | 1413.1 | 1419.7 | 1513.3 | 1821.8 | 2307.0 | 5770.4 | 15837.3 | 17236.0 | 15812.4 | 11859.1 | 8815.4 |
| 75° | 1072.0 | 1087.0 | 1216.7 | 1535.6 | 2108.6 | 2926.5 | 11623.4 | 13763.4 | 14046.9 | 10464.3 | 6550.3 |
| 77.5° | 764.9 | 781.9 | 928.6 | 1291.3 | 2004.5 | 2205.5 | 7784.1 | 10039.3 | 10337.3 | 6706.2 | 2954.6 |
| 80° | 483.3 | 503.6 | 614.2 | 1027.4 | 1883.3 | 2094.2 | 4891.6 | 6748.1 | 5636.8 | 2145.9 | 751.8 |
| 82.5° | 283.5 | 299.3 | 381.1 | 671.2 | 1538.2 | 2016.9 | 2878.0 | 3740.4 | 2193.7 | 648.3 | 341.8 |
| 85° | 164.4 | 171.6 | 237.7 | 427.6 | 1117.2 | 1903.6 | 2114.5 | 2090.9 | 952.1 | 316.9 | 161.7 |
| 87.5° | 76.6 | 85.1 | 140.8 | 223.3 | 620.1 | 1379.7 | 1671.1 | 1443.9 | 592.0 | 148.6 | 76.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 | 5208.6 |
| 2.5° | 5163.4 | 5152.3 | 5105.8 | 5064.5 | 5021.3 | 4965.0 | 4902.8 | 4894.9 | 4856.9 | 4864.1 | 4851.0 |
| 5° | 5061.2 | 5033.1 | 4921.1 | 4819.6 | 4699.8 | 4592.4 | 4475.8 | 4422.1 | 4344.8 | 4339.6 | 4320.0 |
| 7.5° | 4915.2 | 4862.8 | 4689.3 | 4496.8 | 4304.2 | 4120.9 | 3939.5 | 3820.3 | 3698.5 | 3646.8 | 3642.2 |
| 10° | 4750.8 | 4661.8 | 4406.4 | 4121.5 | 3843.9 | 3576.1 | 3316.8 | 3124.9 | 2952.0 | 2870.2 | 2866.9 |
| 12.5° | 4595.0 | 4463.4 | 4113.0 | 3725.4 | 3345.6 | 2998.5 | 2642.9 | 2390.8 | 2174.1 | 2101.4 | 2070.6 |
| 15° | 4462.7 | 4277.4 | 3827.5 | 3331.8 | 2870.8 | 2388.8 | 1984.2 | 1718.9 | 1518.6 | 1449.2 | 1436.1 |
| 17.5° | 4334.4 | 4096.0 | 3534.8 | 2934.3 | 2377.1 | 1847.3 | 1442.0 | 1244.8 | 1138.1 | 1110.0 | 1109.3 |
| 20° | 4206.7 | 3909.4 | 3229.0 | 2527.7 | 1899.7 | 1381.7 | 1108.6 | 1020.2 | 984.2 | 980.9 | 975.7 |
| 22.5° | 4062.0 | 3711.6 | 2907.5 | 2119.7 | 1482.6 | 1086.4 | 942.3 | 907.0 | 902.4 | 914.2 | 914.2 |
| 25° | 3926.4 | 3515.2 | 2581.4 | 1720.3 | 1153.2 | 906.3 | 841.5 | 834.3 | 846.7 | 867.7 | 869.6 |
| 27.5° | 3800.0 | 3325.9 | 2263.1 | 1365.3 | 924.0 | 798.2 | 771.4 | 779.9 | 802.2 | 826.4 | 827.1 |
| 30° | 3695.9 | 3147.2 | 1954.0 | 1075.9 | 780.6 | 717.7 | 713.1 | 730.1 | 754.4 | 773.4 | 777.9 |
| 32.5° | 3615.4 | 2994.6 | 1655.4 | 865.0 | 686.9 | 657.5 | 661.4 | 675.8 | 690.9 | 701.3 | 708.5 |
| 35° | 3578.0 | 2863.6 | 1379.7 | 729.5 | 627.3 | 611.0 | 616.2 | 624.1 | 630.6 | 638.5 | 644.4 |
| 37.5° | 3584.6 | 2762.1 | 1133.5 | 645.0 | 587.4 | 578.9 | 578.9 | 578.9 | 578.9 | 582.8 | 583.5 |
| 40° | 3645.5 | 2703.8 | 933.1 | 591.3 | 560.5 | 551.4 | 544.2 | 537.6 | 532.4 | 535.0 | 533.7 |
| 42.5° | 3801.3 | 2698.6 | 786.5 | 557.3 | 538.9 | 523.9 | 509.5 | 500.3 | 493.7 | 496.4 | 497.7 |
| 45° | 4065.9 | 2764.1 | 687.6 | 533.0 | 518.6 | 495.7 | 477.4 | 467.6 | 463.0 | 471.5 | 472.8 |
| 47.5° | 4408.4 | 2906.8 | 627.3 | 515.4 | 499.6 | 469.5 | 449.9 | 440.7 | 442.0 | 454.5 | 457.7 |
| 50° | 4849.7 | 3138.6 | 598.5 | 504.2 | 486.5 | 447.3 | 427.0 | 419.1 | 423.0 | 440.7 | 444.6 |
| 52.5° | 5334.3 | 3472.6 | 601.8 | 501.0 | 478.0 | 430.9 | 409.3 | 400.1 | 406.7 | 423.0 | 426.3 |
| 55° | 5893.5 | 3874.0 | 656.1 | 505.5 | 465.6 | 420.4 | 394.9 | 379.2 | 384.4 | 399.5 | 402.1 |
| 57.5° | 6515.0 | 4333.7 | 765.5 | 504.2 | 449.9 | 410.6 | 379.8 | 356.2 | 360.2 | 369.3 | 371.9 |
| 60° | 7162.0 | 4889.0 | 935.1 | 508.2 | 442.7 | 398.8 | 359.5 | 330.0 | 328.7 | 336.6 | 337.9 |
| 62.5° | 7938.6 | 5531.4 | 1128.9 | 510.8 | 447.3 | 383.7 | 332.7 | 303.8 | 299.9 | 301.9 | 303.2 |
| 65° | 8738.8 | 5996.3 | 1056.3 | 500.3 | 461.7 | 371.3 | 309.1 | 278.3 | 271.1 | 269.8 | 270.4 |
| 67.5° | 8763.7 | 5498.0 | 740.6 | 479.3 | 467.6 | 364.7 | 291.4 | 256.7 | 244.9 | 240.3 | 239.7 |
| 70° | 7859.4 | 4466.6 | 576.9 | 457.1 | 444.0 | 354.3 | 275.0 | 239.0 | 221.3 | 214.1 | 213.5 |
| 71° | 7418.0 | 4111.7 | 546.8 | 445.9 | 426.3 | 343.8 | 267.8 | 231.2 | 212.8 | 205.0 | 203.7 |
| 72.5° | 6725.8 | 3686.1 | 510.1 | 428.3 | 392.2 | 316.9 | 254.1 | 220.0 | 201.0 | 191.9 | 189.9 |
| 75° | 4826.8 | 2410.5 | 438.1 | 381.8 | 324.8 | 252.8 | 222.6 | 197.8 | 181.4 | 170.3 | 168.9 |
| 77.5° | 1859.7 | 959.3 | 331.3 | 317.6 | 248.8 | 197.8 | 183.4 | 170.9 | 159.1 | 148.0 | 147.3 |
| 80° | 574.9 | 428.9 | 241.6 | 239.0 | 180.1 | 147.3 | 142.8 | 139.5 | 134.9 | 123.1 | 120.5 |
| 82.5° | 307.1 | 246.2 | 166.3 | 154.5 | 117.9 | 98.2 | 103.5 | 104.8 | 105.4 | 93.0 | 91.7 |
| 85° | 146.7 | 130.3 | 93.6 | 87.7 | 68.8 | 55.0 | 63.5 | 68.8 | 69.4 | 57.0 | 53.0 |
| 87.5° | 70.1 | 68.1 | 43.9 | 33.4 | 25.5 | 18.3 | 22.3 | 27.5 | 30.1 | 21.6 | 19.0 |
| 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)