

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: P191075

Luminaire Tested: **GAN-AF-07-LED-U-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27798.7 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

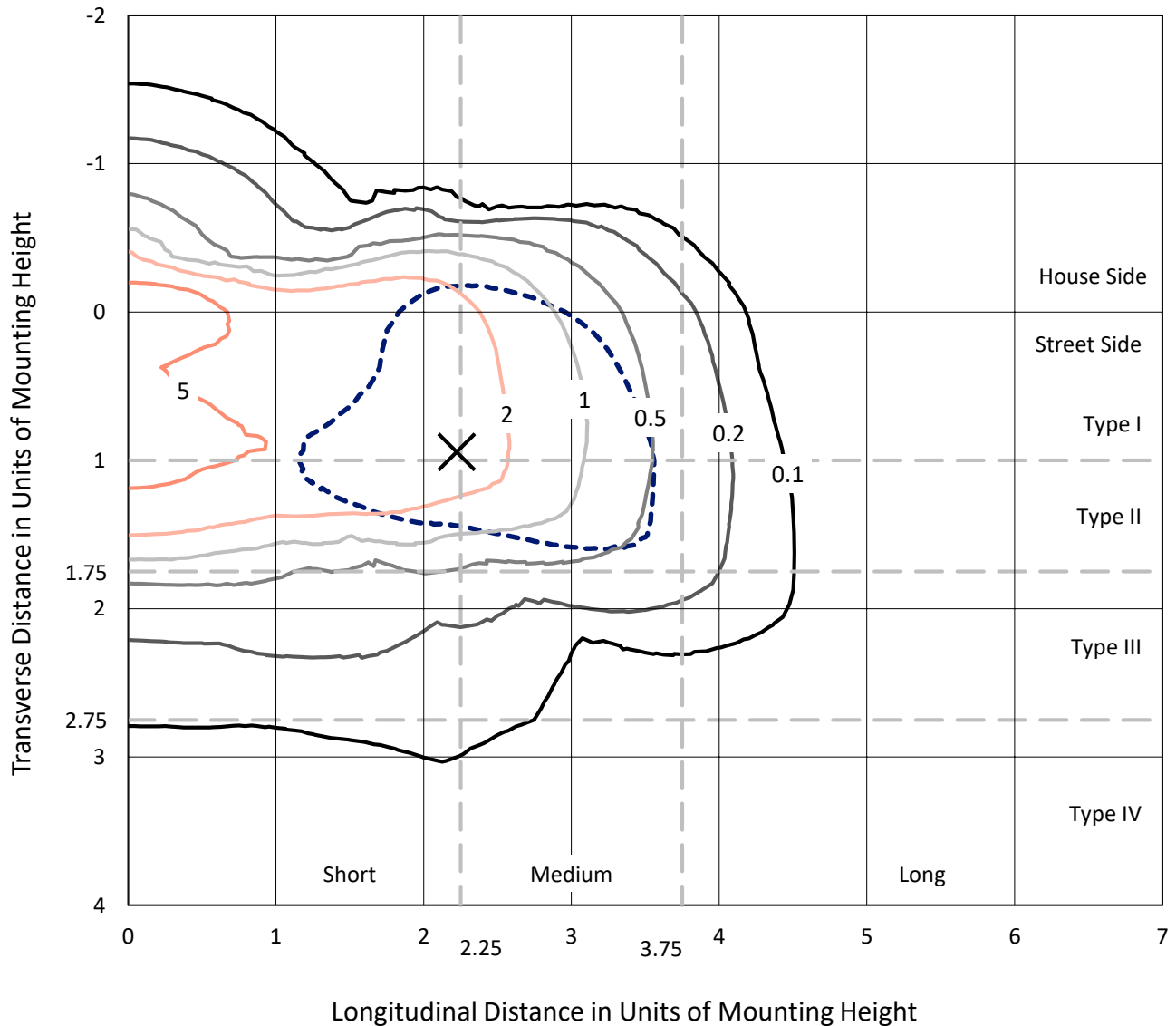
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

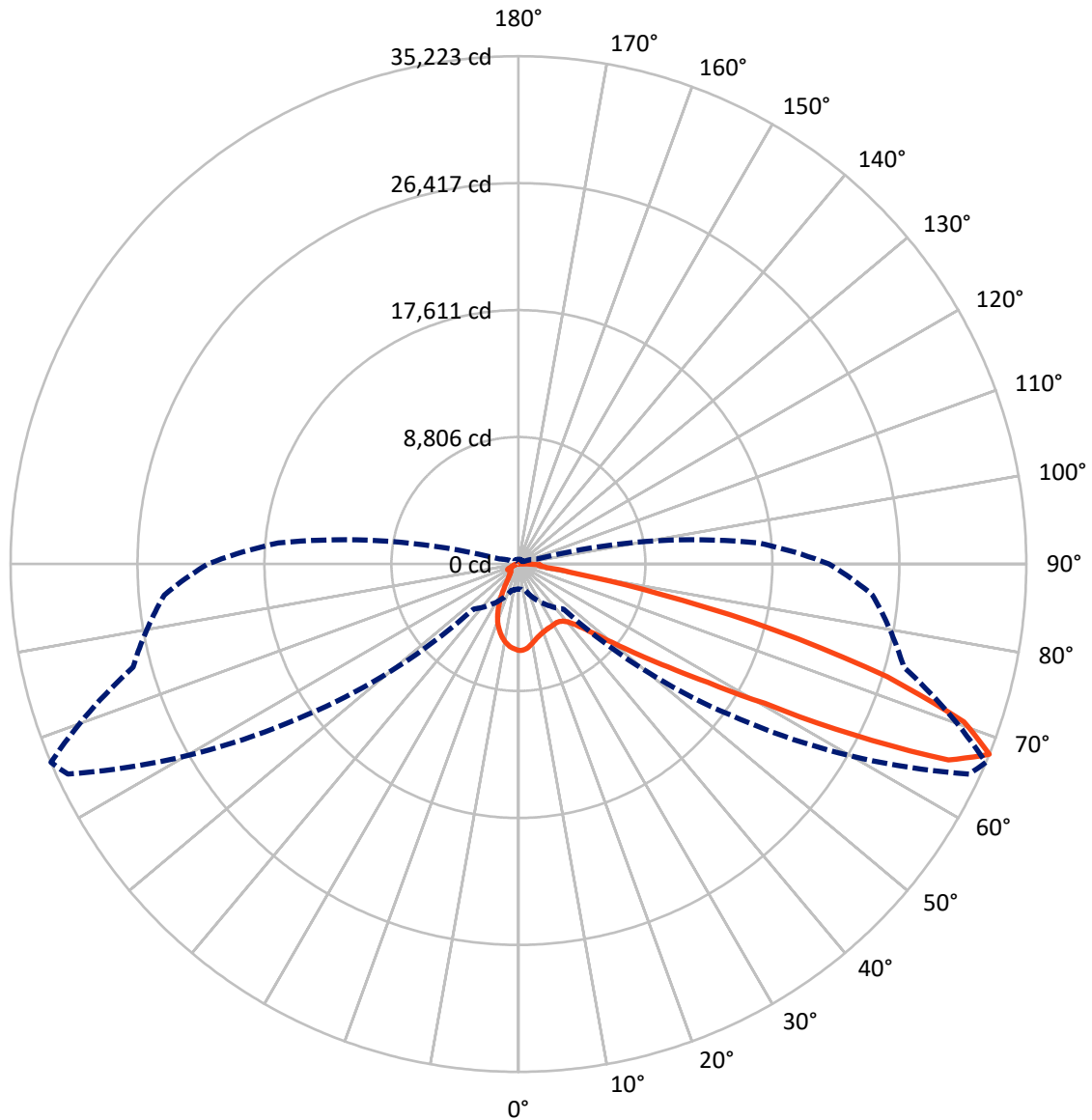
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4605.9 | 0.0 | 4605.9 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 23192.8 | 0.0 | 23192.8 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 27798.7 | 0.0 | 27798.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 511.6 | 1.8 |
| 10°-20° | 1183.7 | 4.3 |
| 20°-30° | 1604.5 | 5.8 |
| 30°-40° | 2280.9 | 8.2 |
| 40°-50° | 3816.1 | 13.7 |
| 50°-60° | 6037.0 | 21.7 |
| 60°-70° | 7690.6 | 27.7 |
| 70°-80° | 4028.3 | 14.5 |
| 80°-90° | 646.1 | 2.3 |
| 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° | 27798.7 | 100.0 |
| 0°-180° | 27798.7 | 100.0 |

Coefficient of Utilization



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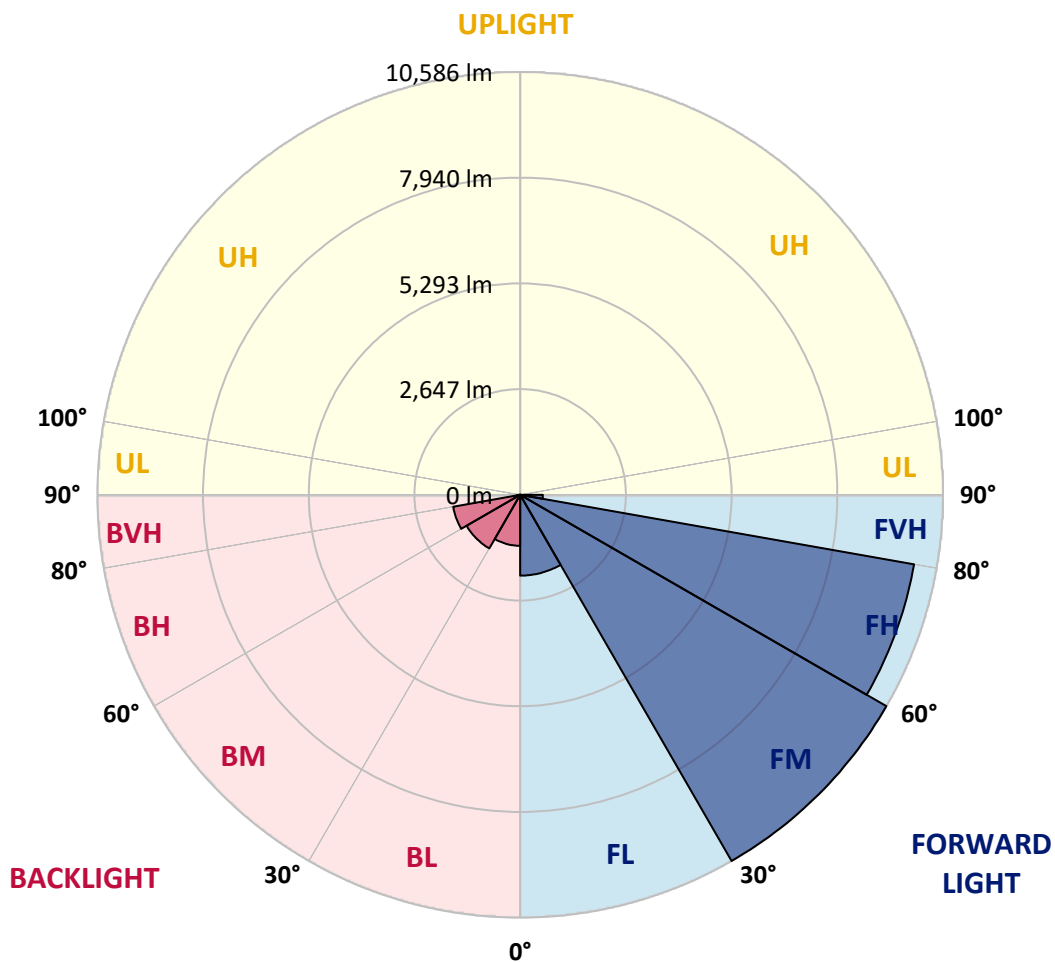
CATALOG NUMBER: GAN-AF-07-LED-U-SL2-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2023.1 | 7.3 | | | |
| FM (30°-60°) | 10586.3 | 38.1 | | | |
| FH (60°-80°) | 10015.3 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 568.1 | 2.0 | | | G4/750 |
| BL (0°-30°) | 1276.6 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1547.7 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1703.6 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 78.0 | 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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 |
| 2.5° | 5749.4 | 5758.9 | 5789.1 | 5808.3 | 5894.7 | 5931.7 | 5957.8 | 5983.8 | 5987.8 | 6000.2 | 5987.8 |
| 5° | 5146.2 | 5166.7 | 5223.0 | 5286.0 | 5453.2 | 5584.9 | 5723.3 | 5867.2 | 5893.3 | 5986.5 | 6012.6 |
| 7.5° | 4678.7 | 4673.2 | 4719.9 | 4795.3 | 4966.6 | 5148.9 | 5391.6 | 5678.1 | 5734.3 | 5944.1 | 6045.4 |
| 10° | 4337.4 | 4333.2 | 4382.6 | 4460.8 | 4623.8 | 4796.6 | 5070.8 | 5462.9 | 5542.3 | 5876.9 | 6076.9 |
| 12.5° | 4085.2 | 4086.5 | 4135.9 | 4222.2 | 4388.0 | 4562.2 | 4840.5 | 5254.5 | 5356.0 | 5798.7 | 6109.9 |
| 15° | 3917.9 | 3928.8 | 3968.6 | 4060.5 | 4222.2 | 4396.3 | 4669.2 | 5098.2 | 5211.9 | 5737.0 | 6146.9 |
| 17.5° | 3861.7 | 3879.5 | 3893.2 | 3960.4 | 4098.9 | 4273.0 | 4540.3 | 4983.0 | 5103.7 | 5694.6 | 6179.9 |
| 20° | 3913.8 | 3934.4 | 3908.3 | 3931.6 | 4019.4 | 4172.9 | 4438.8 | 4892.6 | 5015.9 | 5646.6 | 6183.9 |
| 22.5° | 4137.2 | 4156.5 | 4079.6 | 4012.5 | 4007.0 | 4100.2 | 4355.2 | 4821.3 | 4948.7 | 5610.9 | 6185.3 |
| 25° | 4530.6 | 4543.0 | 4414.1 | 4257.8 | 4105.7 | 4074.2 | 4296.3 | 4772.0 | 4907.6 | 5579.4 | 6159.3 |
| 27.5° | 5013.2 | 5022.8 | 4874.8 | 4644.4 | 4338.7 | 4135.9 | 4275.7 | 4743.1 | 4884.4 | 5552.0 | 6115.4 |
| 30° | 5599.9 | 5645.2 | 5446.4 | 5155.8 | 4710.3 | 4318.2 | 4316.9 | 4728.1 | 4858.3 | 5505.3 | 6029.0 |
| 32.5° | 6200.4 | 6219.5 | 6082.5 | 5787.8 | 5210.6 | 4639.0 | 4431.9 | 4739.0 | 4851.4 | 5449.2 | 5919.3 |
| 35° | 6809.1 | 6833.7 | 6744.6 | 6507.4 | 5894.7 | 5109.1 | 4656.8 | 4803.5 | 4893.9 | 5429.9 | 5842.6 |
| 37.5° | 7597.3 | 7630.2 | 7506.8 | 7232.6 | 6726.8 | 5746.6 | 5031.1 | 4965.2 | 5024.2 | 5484.8 | 5819.3 |
| 40° | 8843.4 | 8828.3 | 8467.8 | 8059.2 | 7637.0 | 6562.2 | 5565.7 | 5239.3 | 5273.7 | 5661.6 | 5890.6 |
| 42.5° | 10293.7 | 10256.7 | 9635.7 | 8994.2 | 8637.7 | 7549.3 | 6273.0 | 5715.1 | 5708.3 | 6009.8 | 6141.4 |
| 45° | 11450.7 | 11420.5 | 10861.3 | 10070.2 | 9785.1 | 8673.4 | 7187.4 | 6423.8 | 6373.1 | 6562.2 | 6604.8 |
| 47.5° | 12077.2 | 12078.6 | 11756.5 | 11110.8 | 11103.9 | 10101.8 | 8362.2 | 7449.2 | 7361.5 | 7450.6 | 7405.3 |
| 50° | 11857.8 | 11886.7 | 11852.4 | 11646.8 | 12307.5 | 11974.4 | 9896.2 | 8879.0 | 8702.1 | 8789.9 | 8615.8 |
| 52.5° | 10796.8 | 10833.9 | 11036.7 | 11352.0 | 12813.4 | 14237.6 | 12149.9 | 10655.7 | 10450.1 | 10418.4 | 10225.2 |
| 55° | 8916.0 | 8961.3 | 9375.2 | 10232.1 | 12392.5 | 15757.9 | 15705.9 | 12920.3 | 12592.6 | 12295.2 | 12212.9 |
| 57.5° | 6145.6 | 6221.0 | 6887.1 | 8159.4 | 11031.3 | 16217.1 | 19940.4 | 16148.6 | 15482.4 | 14443.3 | 14462.5 |
| 60° | 3464.1 | 3551.9 | 4337.4 | 5493.0 | 8284.1 | 15718.2 | 23162.0 | 21038.5 | 19632.0 | 16958.8 | 17101.4 |
| 62.5° | 2202.9 | 2297.5 | 2893.8 | 3816.4 | 4970.7 | 13031.4 | 24482.1 | 27836.5 | 26050.3 | 20059.7 | 20199.5 |
| 65° | 1783.5 | 1824.6 | 2105.6 | 3150.2 | 3609.5 | 7850.8 | 23480.0 | 33436.5 | 32770.2 | 23995.4 | 23342.9 |
| 67.5° | 1741.0 | 1754.7 | 1900.0 | 2644.3 | 3461.4 | 4412.8 | 18728.6 | 34483.8 | 35222.7 | 27670.6 | 24652.1 |
| 70° | 1720.4 | 1768.4 | 2141.2 | 2523.7 | 3314.8 | 3721.9 | 11254.7 | 31613.3 | 32779.8 | 28631.6 | 22909.7 |
| 72.5° | 834.8 | 832.1 | 1077.5 | 2282.5 | 3734.2 | 3860.3 | 5782.2 | 25578.8 | 26749.4 | 24805.5 | 18825.9 |
| 75° | 673.1 | 615.5 | 588.1 | 836.3 | 3590.3 | 3986.4 | 3684.9 | 17600.4 | 18447.6 | 16631.1 | 11572.7 |
| 77.5° | 638.8 | 570.3 | 522.3 | 523.6 | 1517.5 | 4227.8 | 3121.4 | 9741.3 | 9988.0 | 7512.2 | 3170.7 |
| 80° | 529.2 | 466.1 | 431.8 | 486.6 | 734.8 | 4026.2 | 3375.0 | 4408.6 | 4045.4 | 1845.2 | 1055.6 |
| 82.5° | 367.3 | 334.5 | 324.9 | 408.5 | 588.1 | 2869.2 | 3924.8 | 2368.8 | 1986.4 | 923.9 | 651.1 |
| 85° | 234.5 | 200.2 | 222.1 | 297.5 | 457.9 | 1324.2 | 4042.6 | 1846.5 | 1468.1 | 586.8 | 367.3 |
| 87.5° | 108.3 | 87.8 | 109.7 | 164.5 | 298.8 | 456.5 | 3846.6 | 2074.1 | 1512.0 | 309.9 | 231.7 |
| 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° | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 | 5996.1 |
| 2.5° | 5998.9 | 5972.8 | 5952.2 | 5913.9 | 5871.3 | 5830.2 | 5793.2 | 5746.6 | 5732.9 | 5720.5 | 5739.8 |
| 5° | 6018.0 | 5992.0 | 5916.6 | 5798.7 | 5668.5 | 5546.4 | 5424.5 | 5320.3 | 5255.8 | 5220.2 | 5240.8 |
| 7.5° | 6046.9 | 6009.8 | 5853.5 | 5637.0 | 5402.5 | 5188.7 | 4968.0 | 4791.1 | 4660.9 | 4599.2 | 4617.0 |
| 10° | 6072.8 | 6001.6 | 5746.6 | 5421.7 | 5079.1 | 4761.0 | 4412.8 | 4124.8 | 3911.0 | 3798.6 | 3826.0 |
| 12.5° | 6083.8 | 5970.0 | 5597.2 | 5153.0 | 4682.9 | 4216.7 | 3704.0 | 3273.5 | 2966.6 | 2854.1 | 2830.8 |
| 15° | 6094.8 | 5934.4 | 5432.7 | 4847.4 | 4204.4 | 3545.0 | 2826.7 | 2311.3 | 2056.2 | 2000.1 | 1987.7 |
| 17.5° | 6097.5 | 5872.8 | 5246.2 | 4515.6 | 3643.8 | 2745.8 | 1932.9 | 1605.3 | 1606.6 | 1697.1 | 1708.1 |
| 20° | 6068.8 | 5780.9 | 5020.0 | 4103.0 | 2972.0 | 1898.6 | 1327.0 | 1270.8 | 1477.8 | 1703.9 | 1731.3 |
| 22.5° | 6003.0 | 5658.9 | 4763.7 | 3621.8 | 2202.9 | 1250.3 | 1026.7 | 1088.4 | 1355.8 | 1632.7 | 1664.2 |
| 25° | 5919.3 | 5510.8 | 4460.8 | 3063.8 | 1458.6 | 893.8 | 860.9 | 936.3 | 1117.3 | 1302.3 | 1320.1 |
| 27.5° | 5805.6 | 5335.4 | 4120.8 | 2425.0 | 947.3 | 736.1 | 758.1 | 808.8 | 882.8 | 965.1 | 973.3 |
| 30° | 5658.9 | 5125.6 | 3757.5 | 1768.4 | 715.6 | 662.2 | 693.7 | 721.1 | 752.6 | 799.2 | 803.3 |
| 32.5° | 5490.3 | 4924.1 | 3384.6 | 1221.4 | 634.7 | 623.7 | 648.4 | 662.2 | 686.8 | 715.6 | 718.3 |
| 35° | 5349.1 | 4732.2 | 2998.1 | 863.7 | 600.5 | 594.9 | 611.4 | 616.8 | 640.2 | 671.7 | 674.4 |
| 37.5° | 5268.2 | 4575.9 | 2599.1 | 696.4 | 577.1 | 568.9 | 578.5 | 578.5 | 611.4 | 658.0 | 664.8 |
| 40° | 5273.7 | 4489.5 | 2200.3 | 629.2 | 557.9 | 547.0 | 548.3 | 548.3 | 590.9 | 641.6 | 645.7 |
| 42.5° | 5423.1 | 4511.5 | 1846.5 | 603.1 | 542.9 | 530.5 | 523.6 | 527.7 | 563.4 | 596.3 | 599.0 |
| 45° | 5774.0 | 4666.4 | 1514.8 | 586.8 | 527.7 | 523.6 | 508.6 | 507.2 | 520.9 | 536.0 | 536.0 |
| 47.5° | 6349.8 | 4972.1 | 1289.9 | 575.7 | 515.5 | 514.0 | 496.2 | 478.4 | 477.1 | 482.5 | 482.5 |
| 50° | 7286.1 | 5498.5 | 1139.2 | 563.4 | 507.2 | 496.2 | 475.7 | 448.3 | 438.6 | 442.8 | 442.8 |
| 52.5° | 8689.9 | 6437.5 | 1081.6 | 547.0 | 489.4 | 471.6 | 448.3 | 420.8 | 412.7 | 414.0 | 414.0 |
| 55° | 10530.9 | 7879.7 | 1073.4 | 527.7 | 470.3 | 441.4 | 422.2 | 401.6 | 392.1 | 394.8 | 394.8 |
| 57.5° | 12780.4 | 9874.2 | 1220.1 | 497.7 | 444.2 | 411.2 | 400.3 | 386.6 | 379.7 | 383.8 | 382.5 |
| 60° | 15515.3 | 12484.4 | 1809.5 | 466.1 | 418.1 | 383.8 | 383.8 | 372.9 | 367.3 | 371.5 | 370.1 |
| 62.5° | 18665.6 | 15482.4 | 2544.3 | 442.8 | 390.7 | 361.9 | 367.3 | 361.9 | 356.4 | 359.2 | 357.8 |
| 65° | 21459.4 | 17435.9 | 2382.6 | 424.9 | 363.2 | 341.4 | 351.0 | 348.2 | 344.1 | 346.8 | 345.5 |
| 67.5° | 21540.2 | 16712.0 | 1337.9 | 405.8 | 337.3 | 320.8 | 334.5 | 333.1 | 330.4 | 333.1 | 331.7 |
| 70° | 19223.5 | 14111.6 | 754.0 | 370.1 | 309.9 | 296.1 | 315.3 | 313.9 | 311.2 | 316.7 | 315.3 |
| 72.5° | 15401.5 | 10240.2 | 551.1 | 326.2 | 282.4 | 270.1 | 292.0 | 290.6 | 290.6 | 298.8 | 294.7 |
| 75° | 8862.5 | 5269.5 | 440.1 | 279.7 | 253.6 | 244.0 | 263.2 | 264.5 | 267.3 | 278.2 | 270.1 |
| 77.5° | 2526.5 | 1642.2 | 359.2 | 237.1 | 218.0 | 213.9 | 233.0 | 235.8 | 237.1 | 249.5 | 238.6 |
| 80° | 939.1 | 756.7 | 296.1 | 198.8 | 178.2 | 179.6 | 197.4 | 201.5 | 202.9 | 215.2 | 201.5 |
| 82.5° | 599.0 | 499.0 | 239.9 | 153.5 | 139.8 | 138.4 | 160.4 | 165.9 | 165.9 | 167.3 | 159.1 |
| 85° | 349.5 | 298.8 | 181.0 | 111.0 | 98.7 | 94.6 | 119.3 | 128.9 | 124.7 | 122.0 | 116.5 |
| 87.5° | 234.5 | 205.6 | 111.0 | 61.7 | 53.5 | 50.7 | 69.9 | 76.7 | 74.1 | 69.9 | 65.8 |
| 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)