

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: P191038

Luminaire Tested: **GAN-AF-10-LED-U-SL2-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32890.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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

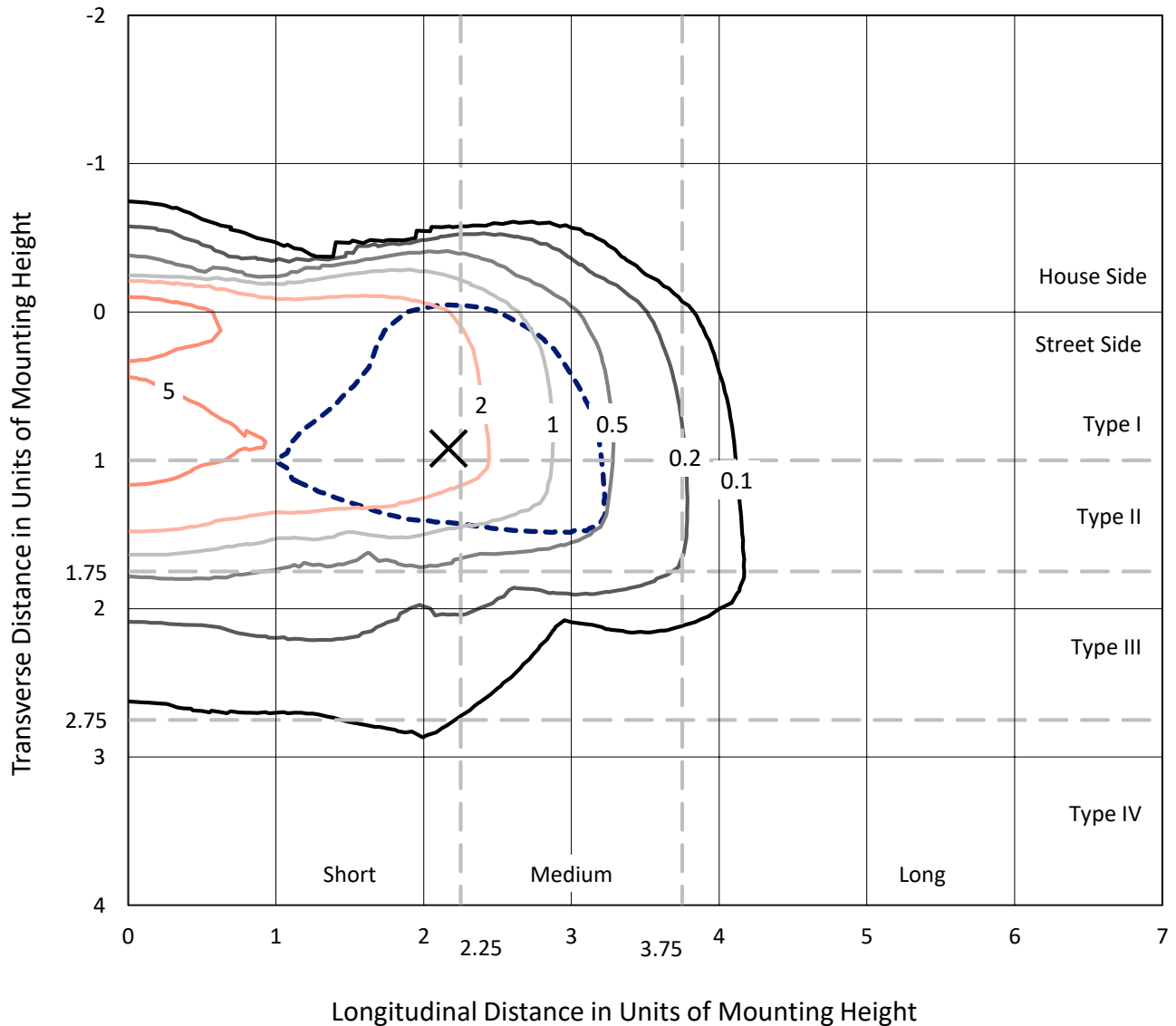


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

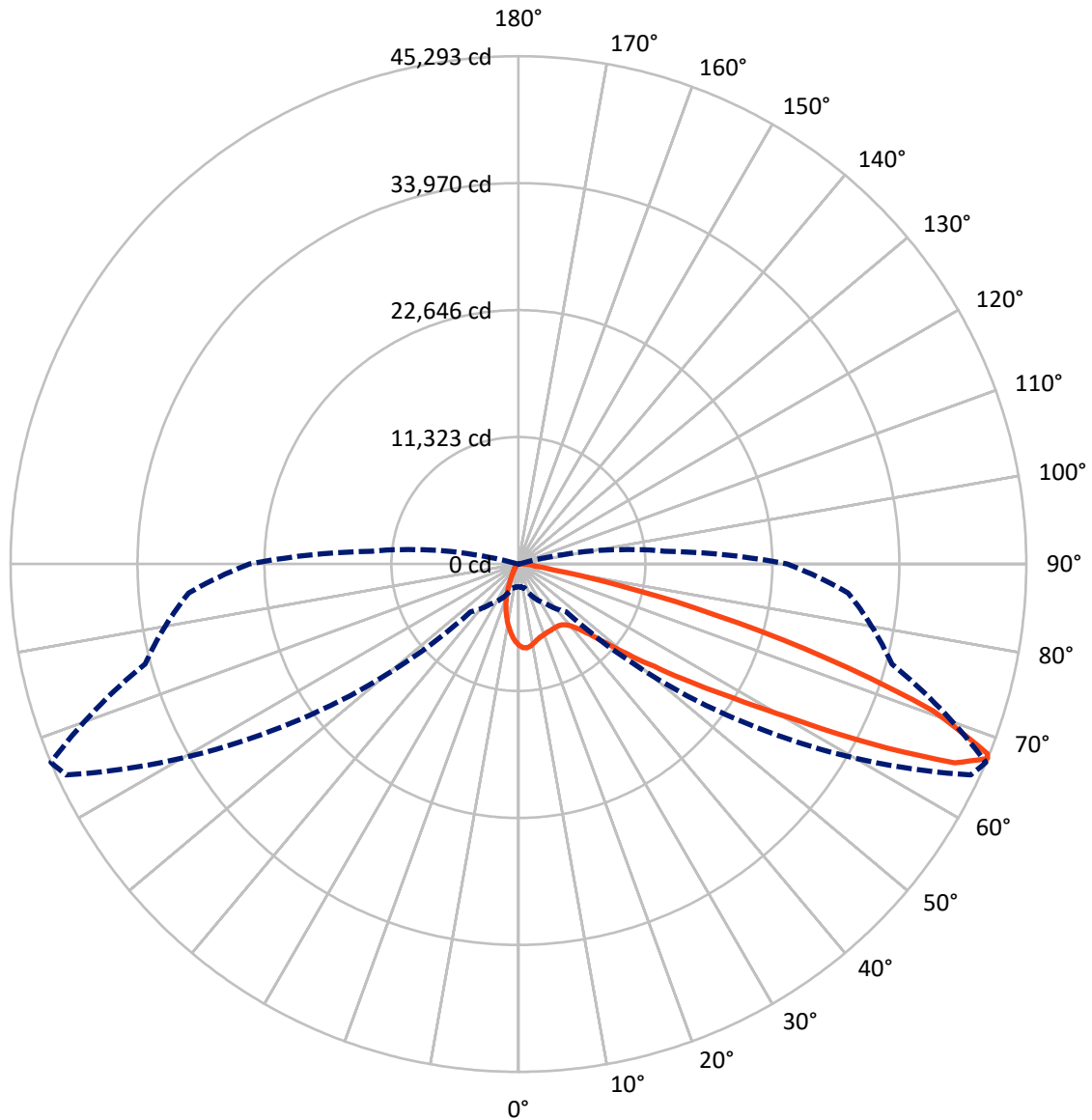


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3415.1 | 0.0 | 3415.1 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 29475.9 | 0.0 | 29475.9 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 32890.9 | 0.0 | 32890.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 590.2 | 1.8 |
| 10°-20° | 1256.2 | 3.8 |
| 20°-30° | 1826.4 | 5.6 |
| 30°-40° | 2849.3 | 8.7 |
| 40°-50° | 5047.4 | 15.3 |
| 50°-60° | 7987.0 | 24.3 |
| 60°-70° | 9148.0 | 27.8 |
| 70°-80° | 3794.5 | 11.5 |
| 80°-90° | 392.0 | 1.2 |
| 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° | 32890.9 | 100.0 |
| 0°-180° | 32890.9 | 100.0 |

Coefficient of Utilization



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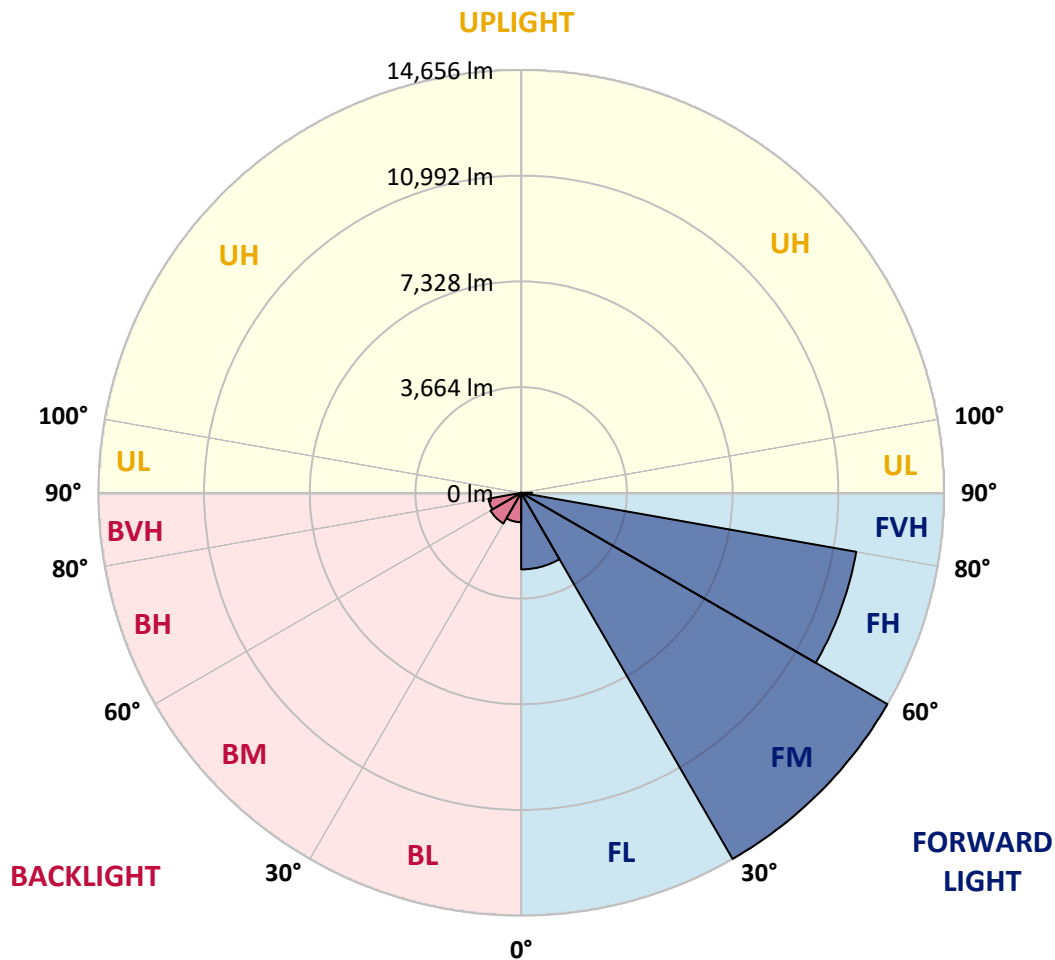
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2653.8 | 8.1 | | | |
| FM (30°-60°) | 14656.3 | 44.6 | | | |
| FH (60°-80°) | 11791.5 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 374.3 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1019.1 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1227.4 | 3.7 | B2/2500 | | |
| BH (60°-80°) | 1151.0 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 17.6 | 0.1 | | | 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° | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 |
| 2.5° | 7499.3 | 7514.6 | 7512.7 | 7524.2 | 7551.0 | 7553.0 | 7526.1 | 7474.3 | 7462.7 | 7395.6 | 7278.6 |
| 5° | 6916.1 | 6960.2 | 6987.0 | 7096.3 | 7219.2 | 7366.9 | 7478.1 | 7518.4 | 7512.7 | 7464.7 | 7288.2 |
| 7.5° | 6250.3 | 6294.4 | 6325.1 | 6453.7 | 6616.8 | 6869.9 | 7159.6 | 7397.6 | 7418.6 | 7470.4 | 7280.5 |
| 10° | 5807.2 | 5814.9 | 5857.0 | 5979.9 | 6150.6 | 6409.5 | 6754.9 | 7171.2 | 7234.5 | 7424.4 | 7261.3 |
| 12.5° | 5442.6 | 5448.4 | 5504.1 | 5636.5 | 5818.6 | 6079.6 | 6442.1 | 6923.7 | 7021.5 | 7366.9 | 7257.5 |
| 15° | 5183.7 | 5204.8 | 5254.6 | 5392.8 | 5586.5 | 5845.6 | 6217.7 | 6741.5 | 6858.5 | 7345.7 | 7292.0 |
| 17.5° | 5097.4 | 5120.4 | 5135.7 | 5235.5 | 5411.9 | 5665.2 | 6047.0 | 6622.5 | 6754.9 | 7357.3 | 7359.2 |
| 20° | 5187.5 | 5204.8 | 5170.2 | 5195.2 | 5304.5 | 5530.9 | 5903.0 | 6520.8 | 6678.1 | 7370.7 | 7445.5 |
| 22.5° | 5523.2 | 5530.9 | 5436.9 | 5327.5 | 5308.4 | 5433.1 | 5789.9 | 6440.3 | 6609.1 | 7407.2 | 7547.2 |
| 25° | 6098.7 | 6085.3 | 5931.9 | 5695.9 | 5473.3 | 5415.8 | 5722.7 | 6390.4 | 6574.5 | 7445.5 | 7652.7 |
| 27.5° | 6793.2 | 6812.4 | 6601.4 | 6258.0 | 5834.0 | 5530.9 | 5713.2 | 6369.3 | 6559.2 | 7472.3 | 7744.8 |
| 30° | 7637.4 | 7664.3 | 7422.5 | 6990.8 | 6382.7 | 5814.9 | 5801.4 | 6365.4 | 6549.5 | 7455.1 | 7752.4 |
| 32.5° | 8498.8 | 8531.3 | 8341.4 | 7896.4 | 7115.5 | 6290.6 | 6000.9 | 6407.7 | 6568.8 | 7395.6 | 7708.3 |
| 35° | 9400.4 | 9446.4 | 9319.8 | 8938.0 | 8109.3 | 6977.4 | 6352.0 | 6536.1 | 6658.9 | 7389.9 | 7664.3 |
| 37.5° | 10645.4 | 10687.7 | 10449.9 | 10045.0 | 9312.1 | 7898.3 | 6916.1 | 6777.9 | 6871.9 | 7482.0 | 7675.7 |
| 40° | 12504.4 | 12498.7 | 11884.8 | 11265.1 | 10634.0 | 9068.6 | 7708.3 | 7215.3 | 7263.3 | 7760.1 | 7817.7 |
| 42.5° | 14530.4 | 14520.8 | 13613.3 | 12671.4 | 12101.6 | 10509.3 | 8750.0 | 7971.1 | 7938.5 | 8272.4 | 8186.1 |
| 45° | 16091.9 | 16090.1 | 15349.6 | 14288.7 | 13868.5 | 12163.0 | 10096.8 | 9022.5 | 8972.6 | 9105.0 | 8865.2 |
| 47.5° | 16757.7 | 16769.2 | 16397.0 | 15650.7 | 15827.2 | 14399.9 | 11794.6 | 10545.7 | 10470.9 | 10417.2 | 10052.6 |
| 50° | 16239.7 | 16262.7 | 16293.5 | 16147.6 | 17264.1 | 17406.1 | 14071.8 | 12692.5 | 12656.0 | 12416.3 | 11846.5 |
| 52.5° | 14547.6 | 14664.6 | 15025.3 | 15487.7 | 17762.9 | 20291.5 | 17642.1 | 15359.1 | 15163.4 | 14908.3 | 14280.9 |
| 55° | 11696.8 | 11825.3 | 12510.2 | 13632.6 | 17020.5 | 22186.9 | 22645.4 | 18797.0 | 18470.8 | 17709.2 | 16803.7 |
| 57.5° | 7741.0 | 7940.5 | 8934.2 | 10361.6 | 14864.2 | 22491.9 | 27637.3 | 23568.2 | 22432.5 | 20347.1 | 19326.5 |
| 60° | 4264.7 | 4456.6 | 5534.8 | 6827.8 | 10735.7 | 20984.0 | 30994.5 | 29780.1 | 27773.4 | 23295.8 | 22390.2 |
| 62.5° | 2626.3 | 2729.9 | 3526.1 | 4729.0 | 6438.4 | 16562.0 | 31689.0 | 37586.3 | 35263.1 | 27092.3 | 26091.0 |
| 65° | 2091.1 | 2135.2 | 2524.6 | 3865.7 | 4615.8 | 9851.2 | 29446.4 | 43537.3 | 42762.3 | 31689.0 | 29404.1 |
| 67° | 2029.7 | 2047.0 | 2231.2 | 3319.0 | 4351.0 | 6039.3 | 24669.4 | 44506.1 | 45292.7 | 34470.8 | 29507.7 |
| 67.5° | 2043.1 | 2062.4 | 2236.9 | 3167.4 | 4343.3 | 5550.1 | 23023.3 | 44124.4 | 45118.2 | 34691.3 | 29049.2 |
| 70° | 1970.2 | 2029.7 | 2561.2 | 3165.4 | 4130.5 | 4612.0 | 13787.9 | 38230.9 | 39264.9 | 32233.8 | 24648.3 |
| 72.5° | 698.3 | 702.2 | 1106.9 | 2561.2 | 4491.1 | 4661.8 | 6923.7 | 28026.7 | 28792.1 | 24657.8 | 17770.6 |
| 75° | 414.4 | 353.0 | 368.4 | 729.1 | 4291.6 | 4527.6 | 3994.2 | 17908.7 | 18194.6 | 14129.4 | 8999.4 |
| 77.5° | 285.8 | 249.4 | 257.1 | 322.3 | 1634.5 | 4464.3 | 3173.1 | 9339.0 | 9034.0 | 4955.4 | 1916.5 |
| 80° | 163.1 | 143.9 | 153.4 | 282.0 | 594.7 | 4164.9 | 2992.7 | 3787.1 | 3228.7 | 840.3 | 529.5 |
| 82.5° | 86.3 | 72.9 | 88.3 | 232.1 | 414.4 | 2595.6 | 2998.6 | 1830.2 | 1450.3 | 284.0 | 360.7 |
| 85° | 30.7 | 25.0 | 42.2 | 159.3 | 276.3 | 796.2 | 2779.9 | 1538.6 | 1208.6 | 138.1 | 274.4 |
| 87.5° | 5.7 | 5.7 | 17.3 | 65.3 | 111.3 | 243.7 | 1644.1 | 913.2 | 612.0 | 82.4 | 188.0 |
| 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° | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 | 7253.6 |
| 2.5° | 7230.6 | 7148.2 | 7036.9 | 6900.6 | 6739.5 | 6597.5 | 6492.1 | 6382.7 | 6359.7 | 6321.3 | 6315.5 |
| 5° | 7182.6 | 7040.8 | 6764.5 | 6448.0 | 6110.3 | 5805.2 | 5557.8 | 5337.1 | 5239.2 | 5154.9 | 5145.2 |
| 7.5° | 7111.7 | 6898.8 | 6428.7 | 5918.4 | 5390.8 | 4911.2 | 4504.6 | 4216.8 | 3952.0 | 3825.4 | 3806.2 |
| 10° | 7029.2 | 6724.2 | 6050.8 | 5342.9 | 4613.9 | 3936.6 | 3332.4 | 2825.9 | 2518.9 | 2336.6 | 2313.6 |
| 12.5° | 6952.5 | 6553.4 | 5665.2 | 4746.3 | 3777.5 | 2871.9 | 2094.9 | 1611.5 | 1289.2 | 1158.7 | 1143.4 |
| 15° | 6916.1 | 6415.3 | 5304.5 | 4136.2 | 2902.6 | 1828.3 | 1145.3 | 886.3 | 780.8 | 750.1 | 748.2 |
| 17.5° | 6912.2 | 6298.3 | 4951.5 | 3505.0 | 2033.5 | 1062.8 | 746.2 | 681.1 | 659.9 | 652.2 | 652.2 |
| 20° | 6910.2 | 6187.0 | 4598.6 | 2850.9 | 1291.2 | 707.9 | 621.5 | 606.2 | 590.9 | 581.2 | 581.2 |
| 22.5° | 6931.4 | 6087.3 | 4230.2 | 2183.2 | 813.5 | 573.6 | 546.8 | 531.4 | 512.2 | 498.8 | 496.8 |
| 25° | 6952.5 | 6010.6 | 3854.2 | 1554.0 | 589.0 | 498.8 | 472.0 | 450.8 | 424.0 | 406.7 | 404.8 |
| 27.5° | 6956.3 | 5914.6 | 3451.3 | 1039.8 | 493.1 | 435.5 | 401.0 | 368.4 | 337.7 | 320.4 | 318.4 |
| 30° | 6898.8 | 5753.5 | 3004.3 | 702.2 | 435.5 | 378.0 | 331.8 | 297.4 | 268.6 | 255.1 | 255.1 |
| 32.5° | 6785.5 | 5553.9 | 2513.2 | 529.5 | 387.5 | 324.2 | 274.4 | 241.7 | 222.5 | 216.8 | 214.8 |
| 35° | 6683.9 | 5339.1 | 2008.7 | 448.9 | 347.2 | 274.4 | 224.4 | 203.4 | 191.8 | 190.0 | 188.0 |
| 37.5° | 6624.4 | 5166.4 | 1534.7 | 406.7 | 308.8 | 230.2 | 190.0 | 174.6 | 168.8 | 165.0 | 166.9 |
| 40° | 6670.5 | 5022.5 | 1133.8 | 372.1 | 270.5 | 191.8 | 161.1 | 153.4 | 147.7 | 145.8 | 145.8 |
| 42.5° | 6871.9 | 4997.5 | 842.2 | 341.5 | 234.1 | 159.3 | 140.0 | 134.3 | 130.4 | 128.6 | 130.4 |
| 45° | 7401.4 | 5151.1 | 654.2 | 312.7 | 197.6 | 134.3 | 119.0 | 117.0 | 115.1 | 115.1 | 115.1 |
| 47.5° | 8197.5 | 5467.6 | 544.8 | 280.1 | 165.0 | 115.1 | 103.6 | 101.7 | 99.7 | 101.7 | 101.7 |
| 50° | 9546.2 | 6047.0 | 487.3 | 247.5 | 136.3 | 97.8 | 88.3 | 88.3 | 88.3 | 88.3 | 90.1 |
| 52.5° | 11597.1 | 7186.5 | 448.9 | 214.8 | 111.3 | 82.4 | 74.8 | 74.8 | 76.7 | 76.7 | 78.7 |
| 55° | 13882.0 | 8698.3 | 414.4 | 182.3 | 94.0 | 69.0 | 61.4 | 63.3 | 65.3 | 67.1 | 67.1 |
| 57.5° | 16360.6 | 10373.0 | 385.7 | 149.7 | 80.6 | 55.6 | 51.8 | 53.7 | 55.6 | 59.4 | 59.4 |
| 60° | 19351.5 | 12186.0 | 343.4 | 117.0 | 67.1 | 44.1 | 40.3 | 44.1 | 49.9 | 53.7 | 55.6 |
| 62.5° | 22635.9 | 13939.4 | 289.7 | 92.1 | 55.6 | 34.6 | 32.6 | 40.3 | 48.0 | 51.8 | 53.7 |
| 65° | 24880.4 | 14490.1 | 222.5 | 74.8 | 42.2 | 25.0 | 26.9 | 36.4 | 46.0 | 51.8 | 51.8 |
| 67° | 23971.0 | 13137.6 | 182.3 | 63.3 | 34.6 | 19.2 | 25.0 | 36.4 | 46.0 | 49.9 | 51.8 |
| 67.5° | 23339.9 | 12608.1 | 174.6 | 61.4 | 32.6 | 19.2 | 25.0 | 36.4 | 46.0 | 51.8 | 51.8 |
| 70° | 18990.8 | 9471.4 | 145.8 | 46.0 | 26.9 | 17.3 | 21.1 | 34.6 | 44.1 | 49.9 | 49.9 |
| 72.5° | 13195.1 | 5839.7 | 130.4 | 32.6 | 23.0 | 15.3 | 19.2 | 32.6 | 42.2 | 48.0 | 49.9 |
| 75° | 6273.3 | 2114.1 | 111.3 | 25.0 | 21.1 | 13.4 | 17.3 | 32.6 | 42.2 | 48.0 | 48.0 |
| 77.5° | 1279.6 | 491.1 | 90.1 | 21.1 | 17.3 | 13.4 | 15.3 | 30.7 | 40.3 | 46.0 | 46.0 |
| 80° | 420.1 | 190.0 | 67.1 | 19.2 | 17.3 | 13.4 | 15.3 | 28.7 | 40.3 | 44.1 | 46.0 |
| 82.5° | 303.1 | 96.0 | 44.1 | 19.2 | 17.3 | 13.4 | 13.4 | 28.7 | 38.4 | 44.1 | 44.1 |
| 85° | 232.1 | 67.1 | 28.7 | 19.2 | 17.3 | 13.4 | 13.4 | 26.9 | 36.4 | 42.2 | 42.2 |
| 87.5° | 153.4 | 26.9 | 23.0 | 19.2 | 17.3 | 13.4 | 13.4 | 26.9 | 34.6 | 40.3 | 42.2 |
| 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)