

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: P323472

Luminaire Tested: **GAN-SA8A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323472
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-SA8A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 29057 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

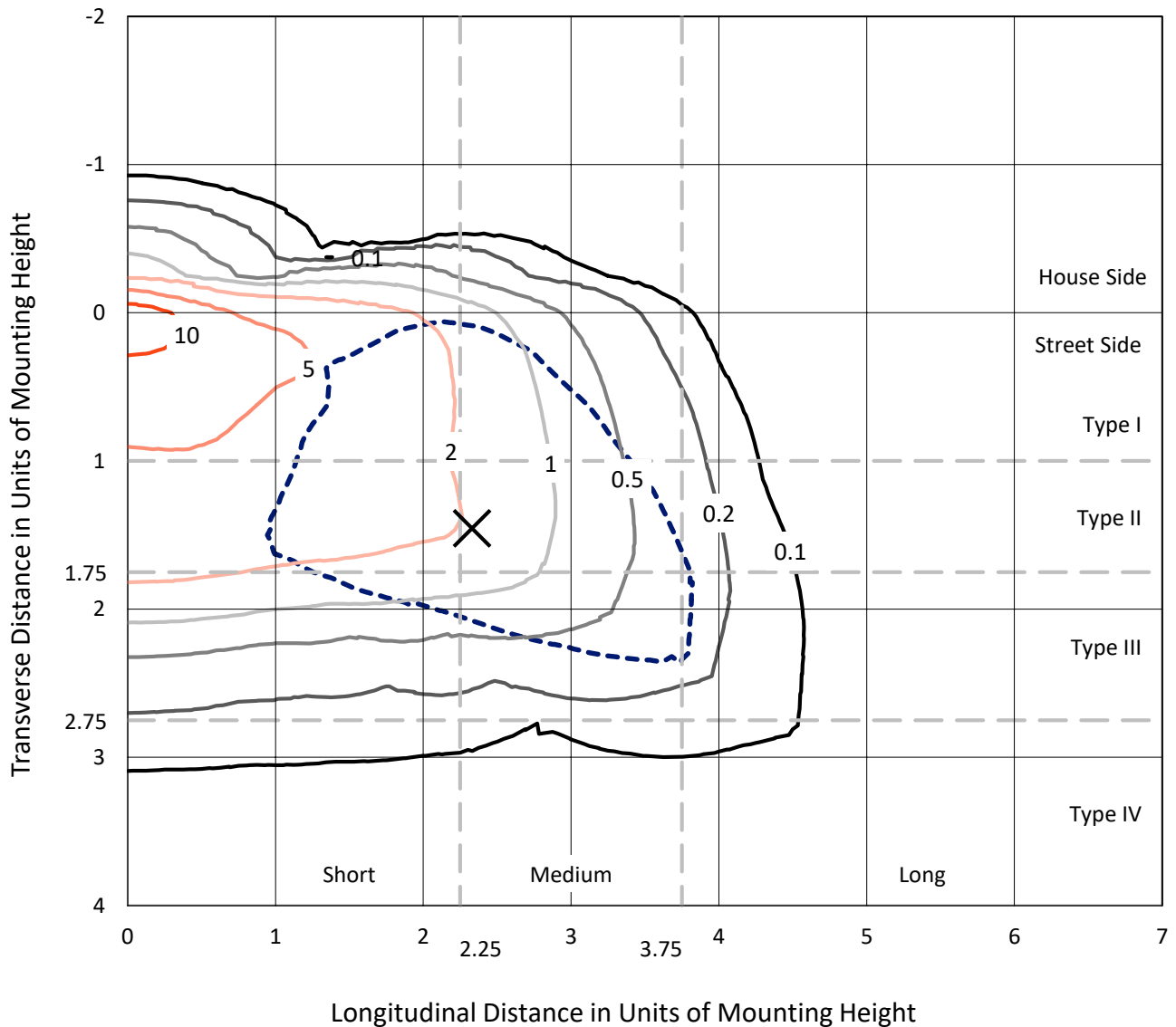
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

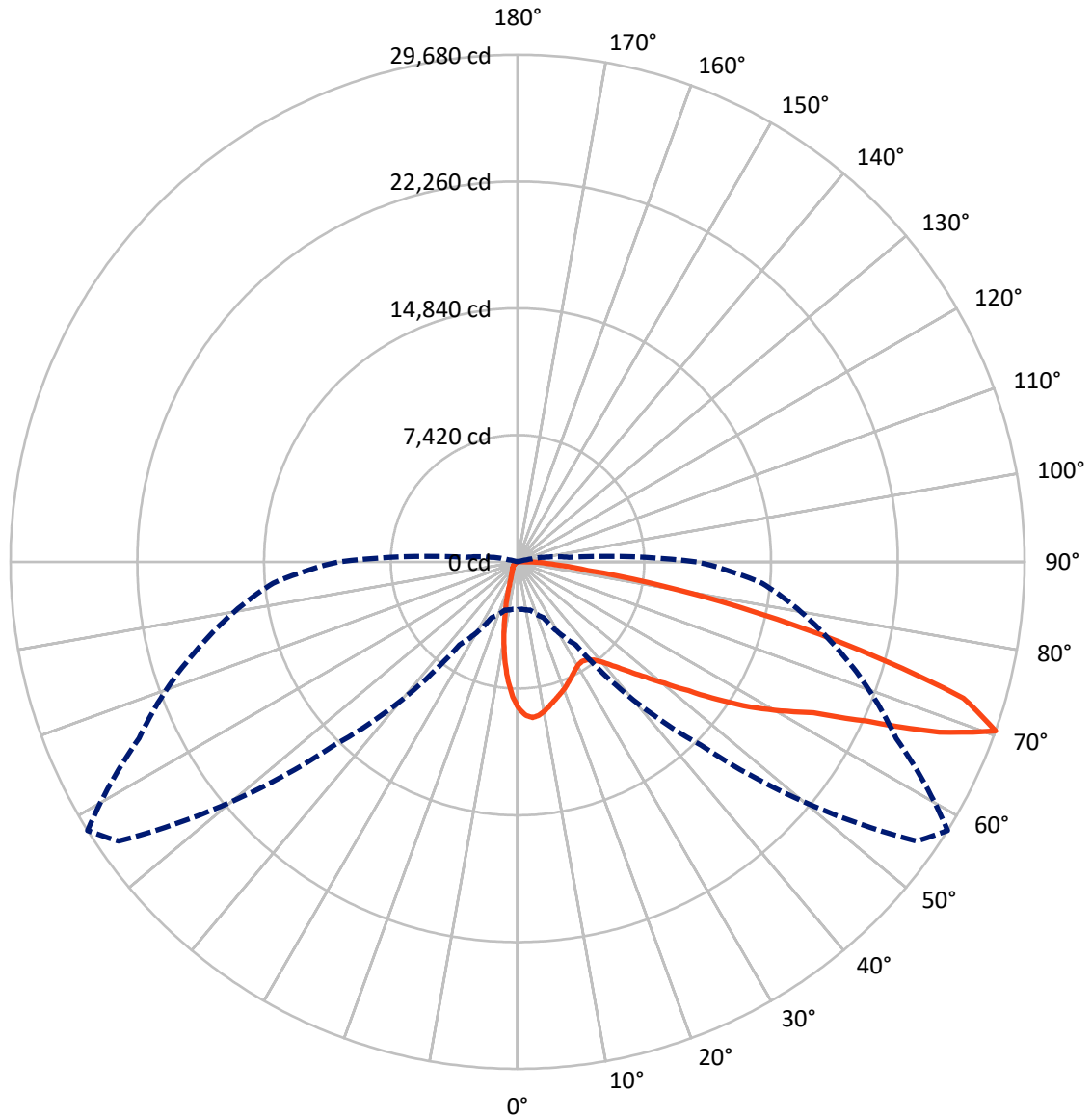
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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 | 2486.6 | 0.0 | 2486.6 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 26570.4 | 0.0 | 26570.4 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 29057.0 | 0.0 | 29057.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 701.9 | 2.4 |
| 10°-20° | 1473.1 | 5.1 |
| 20°-30° | 1936.6 | 6.7 |
| 30°-40° | 2564.9 | 8.8 |
| 40°-50° | 3833.7 | 13.2 |
| 50°-60° | 6141.4 | 21.1 |
| 60°-70° | 7741.1 | 26.6 |
| 70°-80° | 4175.5 | 14.4 |
| 80°-90° | 488.8 | 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° | 29057.0 | 100.0 |
| 0°-180° | 29057.0 | 100.0 |

Coefficient of Utilization

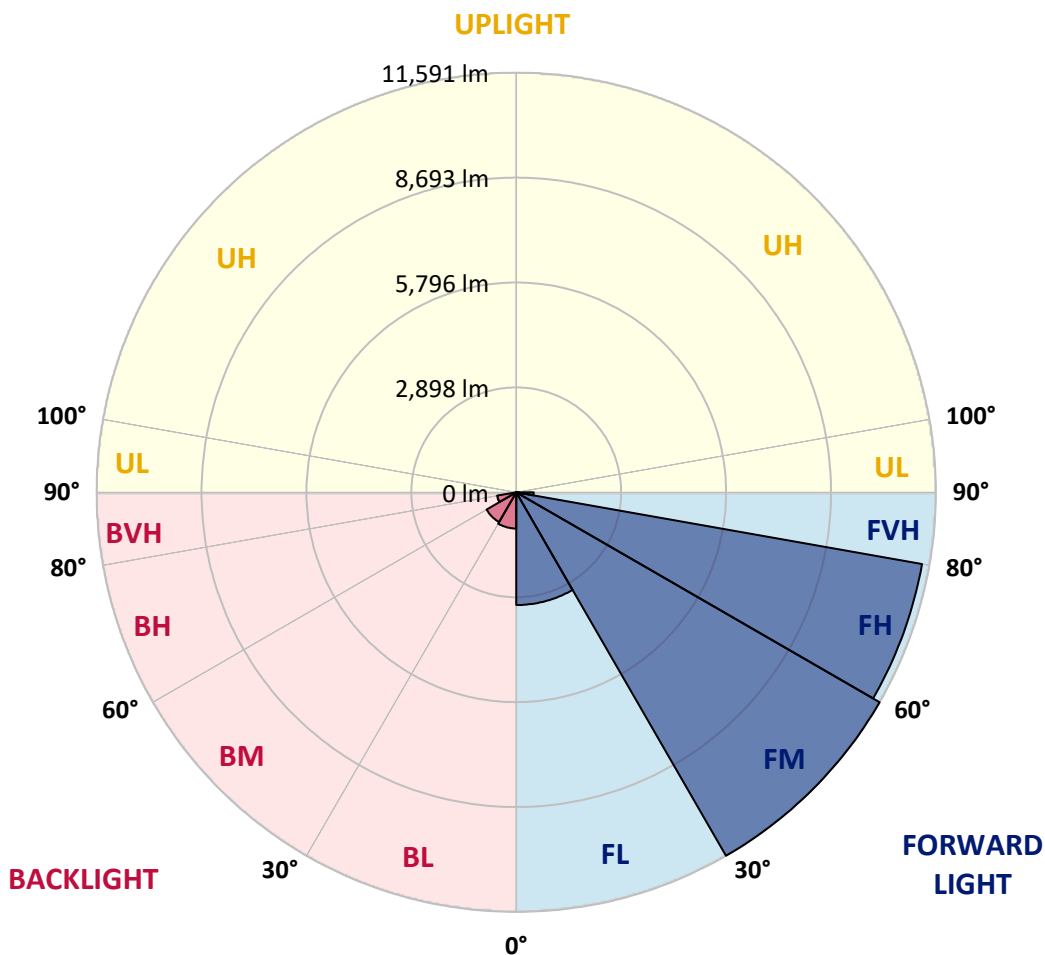


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3112.6 | 10.7 | | | |
| FM (30°-60°) | 11591.3 | 39.9 | | | |
| FH (60°-80°) | 11381.9 | 39.2 | | | G4/12000 |
| FVH (80°-90°) | 484.5 | 1.7 | | | G3/500 |
| BL (0°-30°) | 999.0 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 948.6 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 534.8 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 4.2 | 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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 |
| 2.5° | 9295.0 | 9272.0 | 9263.5 | 9249.0 | 9193.5 | 9139.1 | 9031.6 | 9001.3 | 8933.7 | 8773.0 | 8602.6 |
| 5° | 9302.2 | 9301.0 | 9326.4 | 9320.3 | 9301.0 | 9275.6 | 9198.3 | 9158.4 | 9043.6 | 8814.1 | 8502.3 |
| 7.5° | 8853.9 | 8876.9 | 8933.7 | 8979.6 | 9032.8 | 9101.6 | 9111.3 | 9072.6 | 8978.4 | 8730.7 | 8317.5 |
| 10° | 8252.2 | 8288.5 | 8368.2 | 8458.9 | 8597.8 | 8735.5 | 8858.8 | 8853.9 | 8821.3 | 8577.3 | 8095.2 |
| 12.5° | 7649.3 | 7691.6 | 7783.4 | 7917.6 | 8114.5 | 8339.2 | 8559.1 | 8589.3 | 8643.7 | 8439.5 | 7889.8 |
| 15° | 7121.3 | 7157.6 | 7248.2 | 7412.5 | 7656.6 | 7958.6 | 8281.2 | 8336.8 | 8477.0 | 8332.0 | 7718.2 |
| 17.5° | 6673.1 | 6696.0 | 6762.5 | 6944.9 | 7227.7 | 7593.8 | 8013.0 | 8121.8 | 8330.8 | 8247.4 | 7569.6 |
| 20° | 6360.1 | 6363.8 | 6407.3 | 6535.3 | 6818.1 | 7227.7 | 7735.1 | 7891.0 | 8176.1 | 8174.9 | 7416.1 |
| 22.5° | 6205.5 | 6193.4 | 6201.9 | 6275.6 | 6483.4 | 6878.5 | 7457.2 | 7642.1 | 8037.2 | 8113.3 | 7260.3 |
| 25° | 6176.5 | 6166.8 | 6142.7 | 6152.3 | 6278.0 | 6572.8 | 7176.9 | 7390.8 | 7915.1 | 8075.8 | 7125.0 |
| 27.5° | 6267.1 | 6276.8 | 6235.7 | 6192.2 | 6201.9 | 6374.6 | 6928.0 | 7175.7 | 7816.1 | 8075.8 | 7029.5 |
| 30° | 6449.6 | 6454.4 | 6424.2 | 6367.4 | 6291.3 | 6319.1 | 6755.2 | 7002.9 | 7766.5 | 8131.4 | 6969.1 |
| 32.5° | 6651.3 | 6677.9 | 6674.3 | 6628.4 | 6519.6 | 6407.3 | 6714.2 | 6940.1 | 7762.9 | 8254.7 | 6963.1 |
| 35° | 6901.4 | 6931.6 | 6982.4 | 6972.7 | 6859.1 | 6674.3 | 6854.3 | 7031.9 | 7834.2 | 8457.6 | 7028.3 |
| 37.5° | 7167.2 | 7213.2 | 7321.9 | 7373.9 | 7300.2 | 7091.1 | 7168.5 | 7295.3 | 8025.1 | 8786.3 | 7193.8 |
| 40° | 7424.6 | 7476.6 | 7674.7 | 7878.9 | 7823.3 | 7608.3 | 7644.5 | 7746.0 | 8364.6 | 9258.7 | 7508.0 |
| 42.5° | 7677.1 | 7754.5 | 8045.6 | 8381.5 | 8448.0 | 8276.4 | 8295.7 | 8376.7 | 8868.4 | 9908.7 | 8021.5 |
| 45° | 7979.2 | 8066.2 | 8497.5 | 8911.9 | 9089.6 | 9014.6 | 9096.8 | 9150.0 | 9526.9 | 10767.8 | 8713.8 |
| 47.5° | 8422.6 | 8522.9 | 9052.1 | 9524.5 | 9836.2 | 9884.6 | 10050.1 | 10085.1 | 10359.4 | 11768.2 | 9616.3 |
| 50° | 9287.7 | 9315.5 | 9794.0 | 10222.9 | 10672.3 | 10962.3 | 11150.8 | 11177.4 | 11367.1 | 12861.7 | 10743.6 |
| 52.5° | 10376.3 | 10394.4 | 10665.1 | 10952.6 | 11463.7 | 12055.8 | 12496.8 | 12534.2 | 12574.1 | 13927.3 | 11856.4 |
| 55° | 11457.7 | 11455.3 | 11634.1 | 11803.2 | 12388.0 | 13248.3 | 14205.2 | 14228.2 | 13941.8 | 14938.6 | 12707.0 |
| 57.5° | 12133.1 | 12198.3 | 12470.2 | 12687.7 | 13504.4 | 14607.6 | 15935.4 | 16020.0 | 15378.4 | 15687.7 | 13547.9 |
| 60° | 11918.0 | 11949.4 | 12552.4 | 13357.0 | 14895.1 | 16539.5 | 17686.1 | 17707.9 | 16458.6 | 16435.6 | 14611.2 |
| 62.5° | 10154.0 | 10170.9 | 11118.2 | 12777.1 | 15599.5 | 19045.4 | 19798.1 | 19444.1 | 17700.6 | 17473.5 | 15883.5 |
| 65° | 6959.4 | 7069.4 | 7860.8 | 9911.2 | 14305.5 | 20617.3 | 23067.6 | 22481.6 | 19593.9 | 18969.3 | 17033.7 |
| 67.5° | 4098.3 | 4075.4 | 4466.8 | 5977.1 | 10506.8 | 19573.4 | 27203.4 | 26621.0 | 22175.9 | 19970.9 | 16696.6 |
| 70° | 2799.5 | 2783.8 | 2933.6 | 3618.7 | 5931.2 | 15183.9 | 28504.7 | 29680.3 | 24455.9 | 19296.7 | 14369.5 |
| 72.5° | 1998.4 | 2006.9 | 2228.0 | 2811.6 | 3723.8 | 8846.7 | 24512.7 | 27295.2 | 23741.8 | 16822.3 | 10922.4 |
| 75° | 1356.8 | 1379.8 | 1696.4 | 2306.5 | 3264.7 | 4500.7 | 17395.0 | 20749.0 | 19333.0 | 12226.1 | 6278.0 |
| 77.5° | 729.8 | 755.1 | 1128.5 | 1858.3 | 2951.7 | 3126.9 | 11189.5 | 14280.1 | 12144.0 | 5496.3 | 1819.6 |
| 80° | 304.5 | 319.0 | 528.0 | 1350.8 | 2550.6 | 2746.3 | 6583.7 | 8659.4 | 5174.9 | 1083.8 | 406.0 |
| 82.5° | 131.7 | 138.9 | 219.9 | 805.9 | 1906.6 | 2318.6 | 3485.8 | 4166.0 | 1568.3 | 238.0 | 204.2 |
| 85° | 25.4 | 26.6 | 90.6 | 426.5 | 1216.7 | 1308.5 | 2259.4 | 2214.7 | 704.4 | 102.7 | 148.6 |
| 87.5° | 0.0 | 0.0 | 21.7 | 134.1 | 357.6 | 712.9 | 1378.6 | 1361.7 | 239.2 | 49.5 | 55.6 |
| 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° | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 | 8583.3 |
| 2.5° | 8515.6 | 8432.3 | 8257.1 | 8040.8 | 7875.3 | 7692.8 | 7547.8 | 7364.2 | 7284.4 | 7288.1 | 7244.6 |
| 5° | 8324.7 | 8153.2 | 7765.3 | 7276.0 | 6899.0 | 6510.0 | 6175.3 | 5841.8 | 5644.9 | 5580.8 | 5520.4 |
| 7.5° | 8051.7 | 7779.8 | 7161.2 | 6407.3 | 5769.3 | 5145.9 | 4603.4 | 4126.1 | 3824.1 | 3676.7 | 3622.3 |
| 10° | 7743.6 | 7361.8 | 6466.5 | 5473.3 | 4562.3 | 3718.9 | 3015.8 | 2404.4 | 2160.3 | 1994.8 | 1952.5 |
| 12.5° | 7472.9 | 6955.8 | 5787.4 | 4515.2 | 3433.8 | 2416.5 | 1745.9 | 1365.3 | 1199.8 | 1134.5 | 1123.7 |
| 15° | 7218.0 | 6576.4 | 5133.8 | 3647.7 | 2377.8 | 1487.3 | 1110.4 | 981.1 | 942.4 | 931.5 | 931.5 |
| 17.5° | 6977.6 | 6215.2 | 4494.6 | 2793.4 | 1573.1 | 1042.7 | 919.5 | 890.5 | 878.4 | 877.2 | 878.4 |
| 20° | 6726.2 | 5853.9 | 3866.4 | 2046.7 | 1098.3 | 883.2 | 849.4 | 833.7 | 830.1 | 830.1 | 830.1 |
| 22.5° | 6485.8 | 5492.6 | 3255.0 | 1462.0 | 880.8 | 805.9 | 789.0 | 778.1 | 774.5 | 773.3 | 770.9 |
| 25° | 6255.0 | 5149.5 | 2658.1 | 1033.0 | 773.3 | 738.2 | 723.7 | 709.2 | 698.4 | 692.3 | 688.7 |
| 27.5° | 6065.3 | 4843.8 | 2102.3 | 828.8 | 698.4 | 668.2 | 650.0 | 628.3 | 601.7 | 589.6 | 584.8 |
| 30° | 5914.3 | 4564.7 | 1620.2 | 699.6 | 628.3 | 598.1 | 570.3 | 532.8 | 494.2 | 473.6 | 472.4 |
| 32.5° | 5795.9 | 4290.4 | 1230.0 | 618.6 | 565.5 | 528.0 | 488.1 | 441.0 | 396.3 | 373.3 | 372.1 |
| 35° | 5737.9 | 4048.8 | 940.0 | 559.4 | 509.9 | 462.8 | 413.2 | 361.3 | 317.8 | 296.0 | 293.6 |
| 37.5° | 5776.6 | 3844.6 | 733.4 | 509.9 | 462.8 | 408.4 | 350.4 | 296.0 | 257.4 | 238.0 | 236.8 |
| 40° | 5917.9 | 3714.1 | 595.7 | 467.6 | 422.9 | 356.4 | 293.6 | 242.9 | 210.2 | 194.5 | 193.3 |
| 42.5° | 6218.8 | 3665.8 | 508.7 | 432.5 | 384.2 | 308.1 | 244.1 | 200.6 | 170.4 | 159.5 | 157.1 |
| 45° | 6721.4 | 3737.1 | 449.5 | 398.7 | 344.3 | 262.2 | 201.8 | 164.3 | 137.7 | 129.3 | 128.1 |
| 47.5° | 7390.8 | 3924.3 | 407.2 | 366.1 | 308.1 | 221.1 | 167.9 | 132.9 | 112.4 | 103.9 | 102.7 |
| 50° | 8253.5 | 4221.6 | 372.1 | 333.5 | 274.3 | 187.3 | 138.9 | 105.1 | 87.0 | 81.0 | 81.0 |
| 52.5° | 9192.3 | 4575.6 | 340.7 | 303.3 | 240.4 | 155.9 | 112.4 | 81.0 | 68.9 | 61.6 | 61.6 |
| 55° | 9967.9 | 4884.9 | 306.9 | 280.3 | 199.4 | 129.3 | 85.8 | 61.6 | 50.7 | 47.1 | 47.1 |
| 57.5° | 10742.4 | 5214.7 | 268.2 | 240.4 | 159.5 | 105.1 | 65.2 | 45.9 | 37.5 | 35.0 | 35.0 |
| 60° | 11746.5 | 5618.3 | 230.8 | 195.7 | 125.7 | 79.7 | 48.3 | 32.6 | 27.8 | 26.6 | 26.6 |
| 62.5° | 12850.8 | 5855.1 | 196.9 | 157.1 | 97.9 | 59.2 | 35.0 | 21.7 | 20.5 | 20.5 | 19.3 |
| 65° | 13526.2 | 5520.4 | 165.5 | 125.7 | 76.1 | 44.7 | 23.0 | 15.7 | 18.1 | 16.9 | 14.5 |
| 67.5° | 12664.7 | 4321.9 | 135.3 | 97.9 | 59.2 | 33.8 | 14.5 | 10.9 | 19.3 | 15.7 | 12.1 |
| 70° | 10486.3 | 3025.4 | 105.1 | 68.9 | 47.1 | 29.0 | 9.7 | 7.2 | 20.5 | 15.7 | 9.7 |
| 72.5° | 7847.5 | 2025.0 | 83.4 | 45.9 | 35.0 | 25.4 | 8.5 | 3.6 | 18.1 | 13.3 | 8.5 |
| 75° | 4288.0 | 815.6 | 66.5 | 29.0 | 21.7 | 18.1 | 6.0 | 2.4 | 12.1 | 9.7 | 6.0 |
| 77.5° | 1128.5 | 215.1 | 48.3 | 19.3 | 12.1 | 7.2 | 3.6 | 1.2 | 6.0 | 4.8 | 2.4 |
| 80° | 287.6 | 83.4 | 31.4 | 13.3 | 8.5 | 3.6 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| 82.5° | 153.4 | 35.0 | 19.3 | 9.7 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 116.0 | 23.0 | 10.9 | 6.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 44.7 | 7.2 | 3.6 | 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)