

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: McGRAW-EDISON

Report Number: P383252

Luminaire Tested: **GLEON-SA5D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29319.5 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

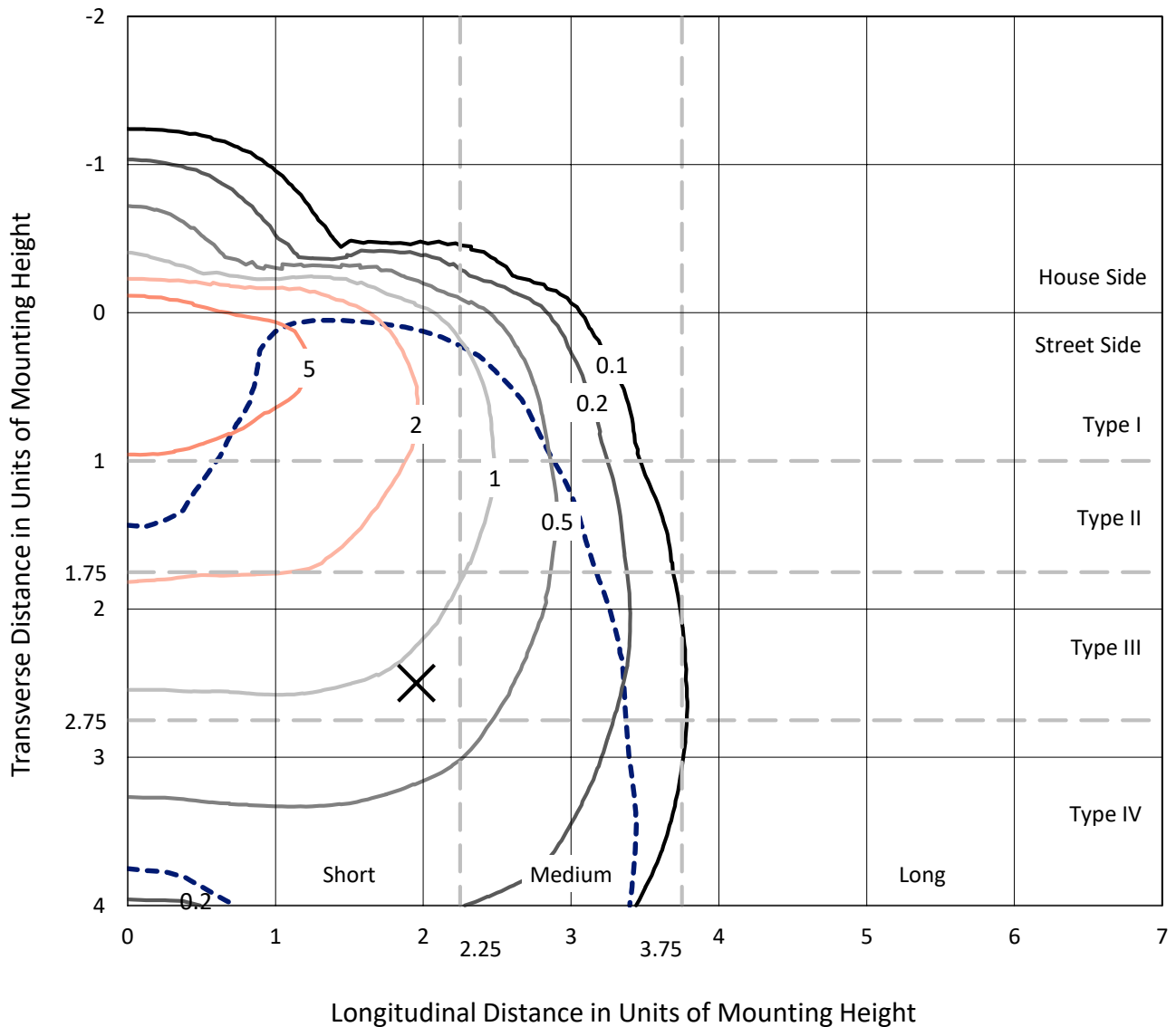
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

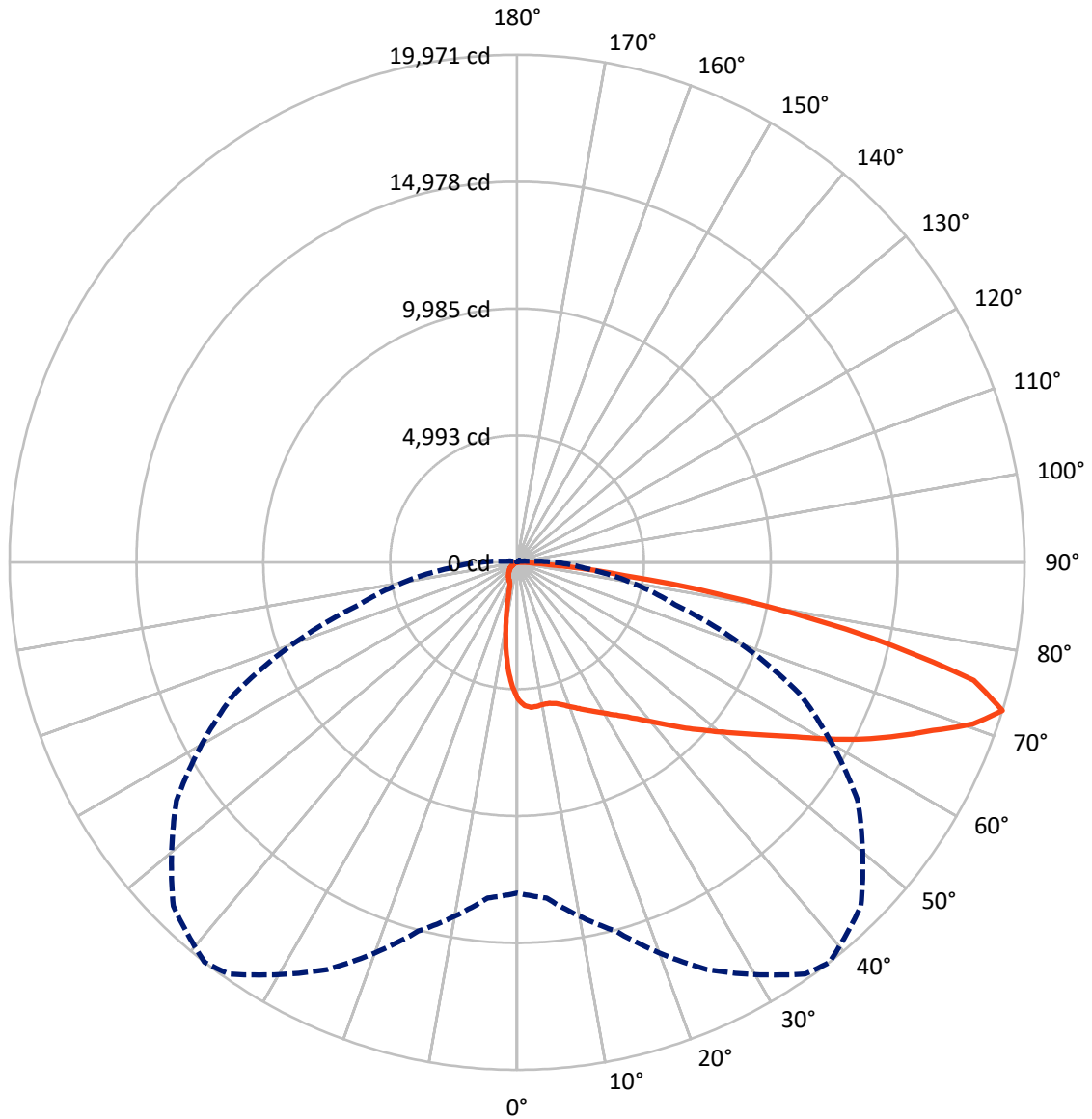
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2467.3 | 0.0 | 2467.3 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 26852.2 | 0.0 | 26852.2 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 29319.5 | 0.0 | 29319.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 459.5 | 1.6 |
| 10°-20° | 1123.5 | 3.8 |
| 20°-30° | 1787.0 | 6.1 |
| 30°-40° | 2686.5 | 9.2 |
| 40°-50° | 4098.5 | 14.0 |
| 50°-60° | 5792.5 | 19.8 |
| 60°-70° | 7265.7 | 24.8 |
| 70°-80° | 5432.7 | 18.5 |
| 80°-90° | 673.6 | 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° | 29319.5 | 100.0 |
| 0°-180° | 29319.5 | 100.0 |

Coefficient of Utilization



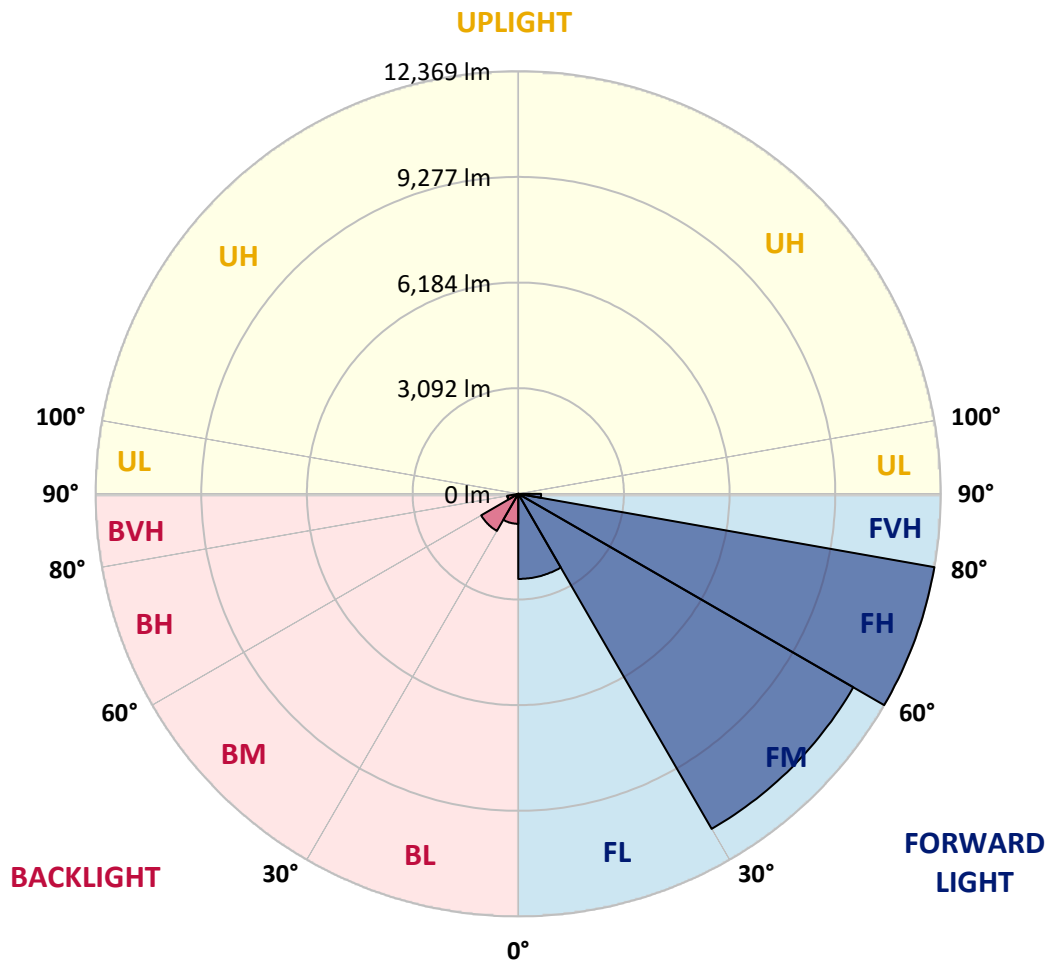
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2491.5 | 8.5 | | | |
| FM (30°-60°) | 11324.5 | 38.6 | | | |
| FH (60°-80°) | 12368.9 | 42.2 | | | G5 |
| FVH (80°-90°) | 667.4 | 2.3 | | | G4/750 |
| BL (0°-30°) | 878.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1253.0 | 4.3 | B2/2500 | | |
| BH (60°-80°) | 329.6 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.3 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 |
| 2.5° | 5723.0 | 5724.2 | 5710.8 | 5688.9 | 5660.8 | 5646.3 | 5621.9 | 5583.0 | 5541.5 | 5467.3 | 5386.9 |
| 5° | 5839.9 | 5839.9 | 5822.8 | 5793.6 | 5748.6 | 5735.2 | 5688.9 | 5626.7 | 5541.5 | 5421.0 | 5285.8 |
| 7.5° | 5827.7 | 5830.1 | 5807.0 | 5776.5 | 5731.5 | 5719.3 | 5663.3 | 5593.9 | 5487.9 | 5341.9 | 5169.0 |
| 10° | 5764.3 | 5770.5 | 5752.2 | 5737.6 | 5696.1 | 5682.8 | 5630.5 | 5561.1 | 5455.0 | 5299.2 | 5100.8 |
| 12.5° | 5699.9 | 5705.9 | 5712.0 | 5725.4 | 5699.9 | 5694.9 | 5653.6 | 5595.2 | 5494.1 | 5332.1 | 5108.0 |
| 15° | 5658.4 | 5670.6 | 5714.5 | 5766.8 | 5772.9 | 5768.0 | 5741.2 | 5686.4 | 5584.2 | 5416.1 | 5160.4 |
| 17.5° | 5658.4 | 5677.9 | 5769.3 | 5869.1 | 5904.4 | 5908.1 | 5885.0 | 5808.2 | 5686.4 | 5506.2 | 5209.1 |
| 20° | 5705.9 | 5732.7 | 5875.2 | 6016.4 | 6074.9 | 6074.9 | 6029.8 | 5922.7 | 5780.2 | 5587.8 | 5242.0 |
| 22.5° | 5827.7 | 5863.0 | 6042.0 | 6205.1 | 6267.3 | 6253.9 | 6193.0 | 6037.1 | 5877.6 | 5680.4 | 5283.4 |
| 25° | 6067.5 | 6094.4 | 6280.7 | 6445.0 | 6482.8 | 6452.4 | 6375.6 | 6176.0 | 6001.8 | 5805.8 | 5358.9 |
| 27.5° | 6376.8 | 6380.5 | 6572.9 | 6711.7 | 6688.6 | 6667.8 | 6571.7 | 6350.1 | 6180.8 | 5984.7 | 5489.1 |
| 30° | 6716.6 | 6716.6 | 6885.8 | 6991.7 | 6921.1 | 6904.1 | 6807.9 | 6560.7 | 6409.7 | 6228.3 | 5674.2 |
| 32.5° | 7045.3 | 7059.9 | 7197.5 | 7264.5 | 7185.4 | 7168.4 | 7074.5 | 6827.4 | 6714.1 | 6599.6 | 5962.8 |
| 35° | 7363.1 | 7374.1 | 7504.4 | 7540.9 | 7465.4 | 7470.3 | 7403.3 | 7193.9 | 7151.3 | 7136.7 | 6397.6 |
| 37.5° | 7671.2 | 7673.6 | 7806.4 | 7829.5 | 7791.7 | 7833.2 | 7839.3 | 7654.2 | 7733.3 | 7851.5 | 7010.0 |
| 40° | 7952.5 | 7955.0 | 8086.4 | 8146.1 | 8210.7 | 8264.2 | 8311.7 | 8213.1 | 8474.8 | 8748.8 | 7739.4 |
| 42.5° | 8177.8 | 8203.3 | 8370.1 | 8483.4 | 8653.9 | 8756.2 | 8885.2 | 8880.4 | 9357.7 | 9769.2 | 8621.0 |
| 45° | 8376.2 | 8420.1 | 8652.7 | 8851.1 | 9143.3 | 9306.5 | 9508.7 | 9666.9 | 10351.3 | 10905.3 | 9513.5 |
| 47.5° | 8638.1 | 8679.4 | 8944.9 | 9270.0 | 9659.7 | 9873.9 | 10208.8 | 10551.0 | 11443.5 | 12020.7 | 10385.4 |
| 50° | 9006.9 | 8988.7 | 9250.5 | 9716.9 | 10217.3 | 10498.6 | 10976.0 | 11488.6 | 12527.2 | 12992.4 | 10898.0 |
| 52.5° | 9400.2 | 9393.0 | 9586.6 | 10202.7 | 10874.9 | 11203.6 | 11834.4 | 12457.8 | 13563.4 | 13662.1 | 11133.0 |
| 55° | 9887.4 | 9835.0 | 9998.1 | 10756.8 | 11655.3 | 12008.5 | 12751.2 | 13417.3 | 14389.0 | 14039.5 | 11251.1 |
| 57.5° | 10397.6 | 10311.1 | 10467.0 | 11374.1 | 12535.7 | 12953.4 | 13766.8 | 14352.4 | 14938.2 | 14297.7 | 11249.9 |
| 60° | 10924.8 | 10822.5 | 11007.5 | 12146.1 | 13629.2 | 14112.6 | 14867.5 | 14984.4 | 15450.8 | 14428.0 | 11167.1 |
| 62.5° | 11365.5 | 11304.7 | 11579.9 | 12971.6 | 14850.5 | 15325.4 | 15699.2 | 15559.2 | 15883.1 | 14529.1 | 10973.4 |
| 65° | 11832.0 | 11835.6 | 12280.0 | 13934.8 | 16148.5 | 16468.7 | 16500.4 | 16304.4 | 16244.7 | 14508.3 | 10318.4 |
| 67.5° | 12462.7 | 12521.1 | 13262.6 | 15242.5 | 17411.2 | 17658.4 | 17656.0 | 17111.7 | 16508.9 | 13685.2 | 8865.7 |
| 70° | 13130.0 | 13267.6 | 14395.1 | 16739.1 | 18789.6 | 19040.5 | 18911.3 | 17625.5 | 15544.5 | 11066.0 | 6274.5 |
| 72.5° | 13017.9 | 13256.6 | 15024.7 | 17682.7 | 19779.6 | 19970.7 | 19131.8 | 16362.8 | 12286.1 | 6431.7 | 2671.5 |
| 75° | 10043.2 | 10319.6 | 13776.6 | 16747.5 | 18740.9 | 18569.2 | 16438.3 | 12733.0 | 6714.1 | 1794.8 | 601.5 |
| 77.5° | 5305.3 | 5452.6 | 9100.8 | 12758.6 | 14613.0 | 14253.8 | 11579.9 | 7063.6 | 2046.9 | 444.4 | 270.3 |
| 80° | 2778.7 | 2812.8 | 3965.9 | 7239.0 | 9019.2 | 9021.6 | 6862.7 | 3102.6 | 843.8 | 227.7 | 181.5 |
| 82.5° | 1488.0 | 1517.2 | 2095.6 | 3344.9 | 4725.7 | 4283.7 | 2627.7 | 1707.2 | 490.7 | 129.1 | 174.1 |
| 85° | 358.0 | 364.0 | 1188.5 | 1528.1 | 1858.2 | 1327.3 | 780.5 | 1433.2 | 132.7 | 75.5 | 141.2 |
| 87.5° | 137.6 | 140.0 | 440.8 | 661.2 | 473.7 | 306.9 | 365.3 | 534.5 | 17.0 | 29.3 | 21.9 |
| 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° | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 | 5391.8 |
| 2.5° | 5338.2 | 5306.6 | 5228.6 | 5129.9 | 5042.3 | 4978.9 | 4884.0 | 4821.9 | 4780.5 | 4779.3 | 4763.5 |
| 5° | 5203.1 | 5138.5 | 4970.5 | 4770.7 | 4589.4 | 4426.2 | 4233.8 | 4081.6 | 3968.3 | 3950.0 | 3911.1 |
| 7.5° | 5058.1 | 4952.2 | 4694.1 | 4382.4 | 4077.9 | 3768.7 | 3409.5 | 3186.6 | 2995.4 | 2904.1 | 2894.3 |
| 10° | 4969.2 | 4820.7 | 4454.2 | 4003.6 | 3526.3 | 3023.4 | 2553.4 | 2228.3 | 1993.3 | 1926.3 | 1876.4 |
| 12.5° | 4951.0 | 4754.9 | 4269.1 | 3648.1 | 2966.2 | 2301.4 | 1781.4 | 1435.6 | 1248.1 | 1188.5 | 1172.6 |
| 15° | 4969.2 | 4724.5 | 4113.2 | 3296.2 | 2398.7 | 1632.9 | 1195.7 | 994.8 | 924.2 | 907.1 | 905.9 |
| 17.5° | 4980.2 | 4687.9 | 3936.6 | 2905.3 | 1848.4 | 1166.5 | 915.7 | 857.2 | 846.3 | 845.0 | 847.5 |
| 20° | 4978.9 | 4631.9 | 3726.0 | 2469.4 | 1374.7 | 916.9 | 828.0 | 815.8 | 813.4 | 814.6 | 813.4 |
| 22.5° | 4970.5 | 4566.2 | 3494.7 | 2020.1 | 1038.7 | 819.5 | 790.2 | 783.0 | 781.8 | 781.8 | 781.8 |
| 25° | 4986.3 | 4513.8 | 3240.2 | 1590.2 | 856.0 | 774.4 | 756.1 | 750.1 | 748.9 | 748.9 | 746.4 |
| 27.5° | 5043.5 | 4484.7 | 2961.3 | 1223.8 | 773.2 | 734.2 | 719.6 | 718.4 | 714.8 | 713.6 | 716.0 |
| 30° | 5136.1 | 4484.7 | 2655.7 | 952.2 | 723.3 | 692.9 | 681.9 | 679.5 | 678.3 | 677.0 | 678.3 |
| 32.5° | 5299.2 | 4518.8 | 2322.1 | 791.4 | 675.8 | 646.6 | 639.2 | 643.0 | 639.2 | 639.2 | 639.2 |
| 35° | 5593.9 | 4621.0 | 1972.6 | 690.4 | 625.9 | 601.5 | 594.2 | 599.1 | 596.7 | 596.7 | 595.4 |
| 37.5° | 6023.8 | 4811.0 | 1620.7 | 629.5 | 582.0 | 556.5 | 546.7 | 554.0 | 551.6 | 551.6 | 550.4 |
| 40° | 6547.3 | 5087.4 | 1285.8 | 583.2 | 539.5 | 512.6 | 504.2 | 507.8 | 501.6 | 501.6 | 504.2 |
| 42.5° | 7193.9 | 5438.0 | 993.6 | 538.2 | 496.8 | 471.3 | 466.3 | 462.7 | 451.7 | 445.7 | 446.9 |
| 45° | 7912.3 | 5803.4 | 774.4 | 494.4 | 456.6 | 436.0 | 428.6 | 418.9 | 400.6 | 388.5 | 389.7 |
| 47.5° | 8554.0 | 6084.6 | 629.5 | 451.7 | 420.1 | 404.3 | 393.3 | 375.0 | 348.2 | 333.7 | 334.9 |
| 50° | 8891.3 | 6127.3 | 535.7 | 409.1 | 386.0 | 370.2 | 354.4 | 326.3 | 294.6 | 278.8 | 277.6 |
| 52.5° | 8977.8 | 5927.5 | 466.3 | 370.2 | 351.9 | 333.7 | 312.9 | 275.2 | 239.9 | 222.8 | 220.4 |
| 55° | 9009.4 | 5623.1 | 404.3 | 333.7 | 315.3 | 294.6 | 267.9 | 225.2 | 192.4 | 175.3 | 174.1 |
| 57.5° | 8904.7 | 5169.0 | 355.6 | 300.8 | 278.8 | 253.3 | 220.4 | 180.3 | 148.6 | 135.2 | 135.2 |
| 60° | 8672.1 | 4554.1 | 317.8 | 265.5 | 241.1 | 211.8 | 177.7 | 140.0 | 110.8 | 99.9 | 99.9 |
| 62.5° | 8208.2 | 3757.7 | 282.5 | 228.9 | 205.8 | 175.3 | 143.6 | 105.9 | 78.0 | 71.8 | 73.0 |
| 65° | 7332.7 | 2850.5 | 247.1 | 196.0 | 175.3 | 144.9 | 112.1 | 75.5 | 52.4 | 52.4 | 54.8 |
| 67.5° | 5979.9 | 1979.9 | 210.6 | 166.8 | 151.0 | 118.1 | 85.2 | 52.4 | 36.5 | 41.4 | 46.3 |
| 70° | 3958.6 | 1110.5 | 180.3 | 137.6 | 129.1 | 93.7 | 63.3 | 35.3 | 29.3 | 38.9 | 47.5 |
| 72.5° | 1494.0 | 432.2 | 151.0 | 110.8 | 112.1 | 71.8 | 45.1 | 26.8 | 26.8 | 42.6 | 56.0 |
| 75° | 416.4 | 211.8 | 108.3 | 81.6 | 87.7 | 52.4 | 32.9 | 23.1 | 25.5 | 48.7 | 65.8 |
| 77.5° | 244.7 | 155.8 | 70.6 | 47.5 | 59.6 | 36.5 | 21.9 | 18.3 | 21.9 | 41.4 | 63.3 |
| 80° | 197.3 | 82.8 | 41.4 | 24.3 | 32.9 | 20.7 | 14.6 | 11.0 | 6.1 | 15.8 | 32.9 |
| 82.5° | 197.3 | 49.9 | 19.5 | 17.0 | 17.0 | 11.0 | 7.3 | 4.8 | 1.2 | 0.0 | 8.5 |
| 85° | 132.7 | 20.7 | 12.2 | 11.0 | 8.5 | 3.6 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.9 | 8.5 | 4.8 | 2.4 | 1.2 | 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)