

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637064

Luminaire Tested: GWS-SA4C-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11531.5 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

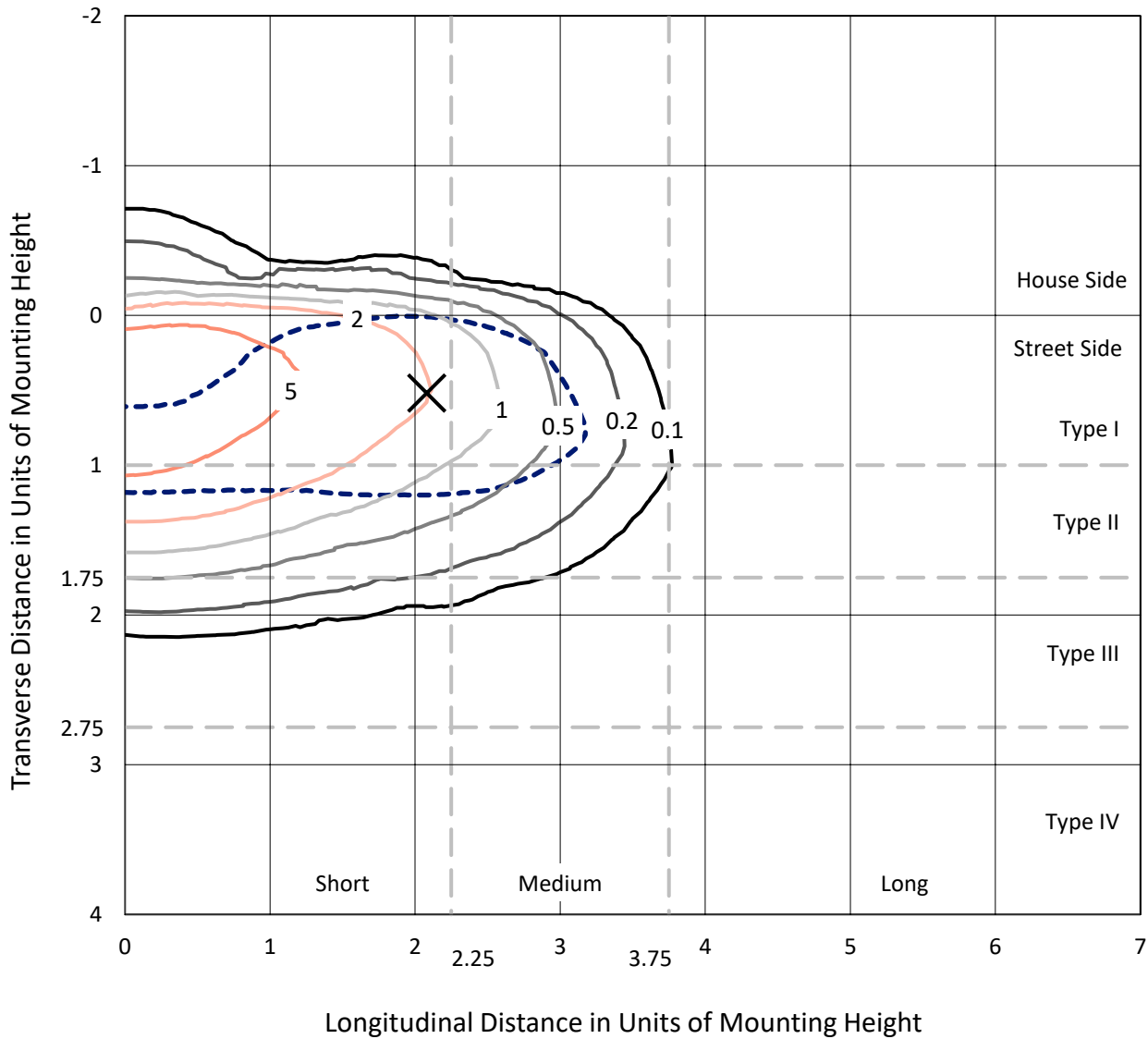
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

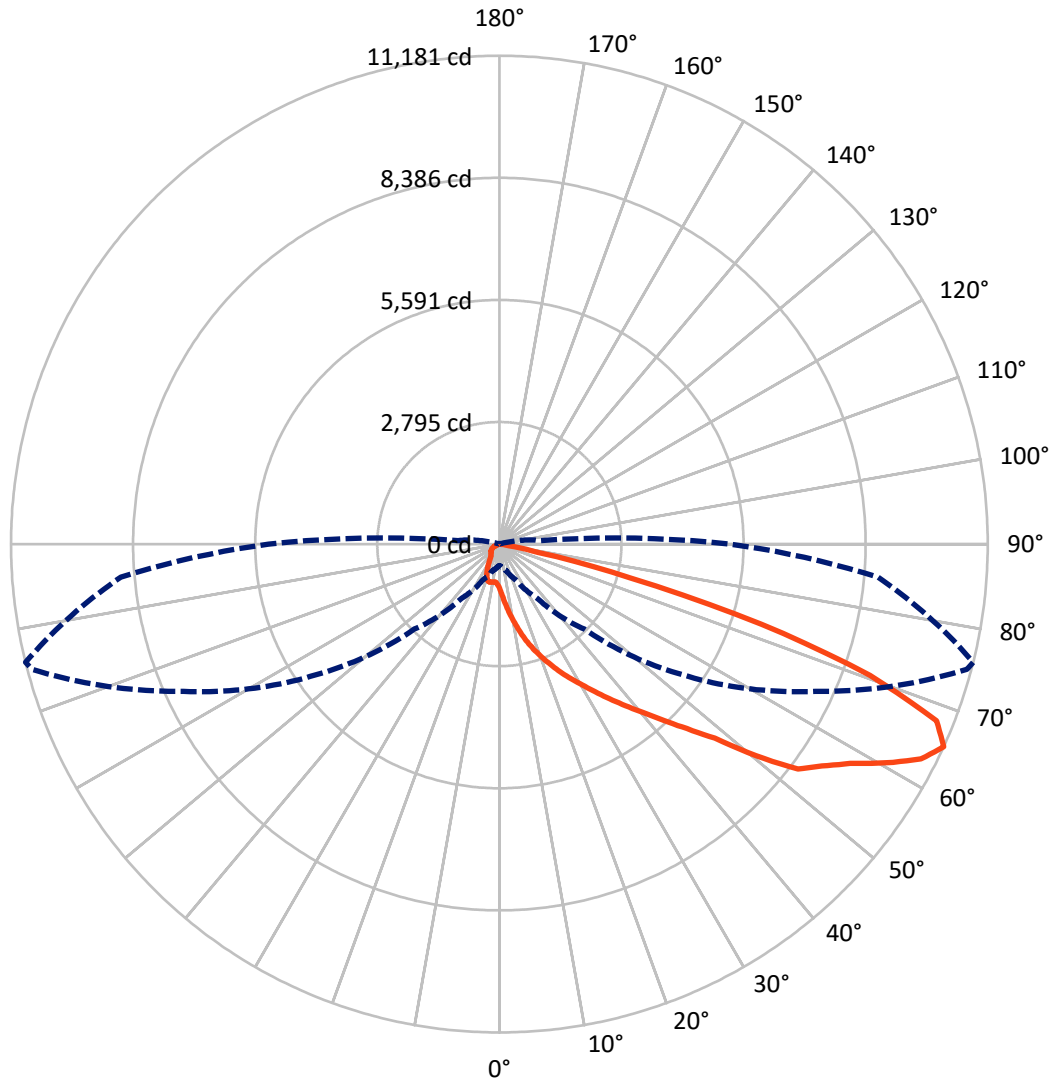
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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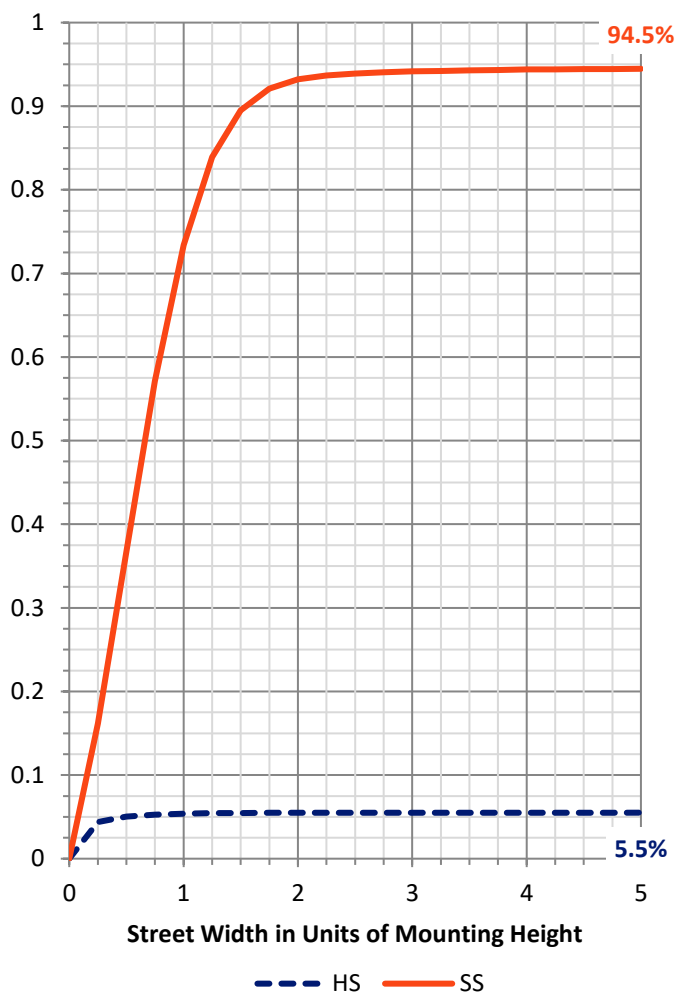
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 637.6 | 0.0 | 637.6 |
| | % Fixture | 5.5 | 0.0 | 5.5 |
| Street Side | Lumens | 10893.9 | 0.0 | 10893.9 |
| | % Fixture | 94.5 | 0.0 | 94.5 |
| Total | Lumens | 11531.5 | 0.0 | 11531.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 124.2 | 1.1 |
| 10°-20° | 471.3 | 4.1 |
| 20°-30° | 961.5 | 8.3 |
| 30°-40° | 1710.1 | 14.8 |
| 40°-50° | 2527.9 | 21.9 |
| 50°-60° | 2894.2 | 25.1 |
| 60°-70° | 2208.2 | 19.1 |
| 70°-80° | 618.6 | 5.4 |
| 80°-90° | 15.6 | 0.1 |
| 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° | 11531.5 | 100.0 |
| 0°-180° | 11531.5 | 100.0 |

Coefficient of Utilization



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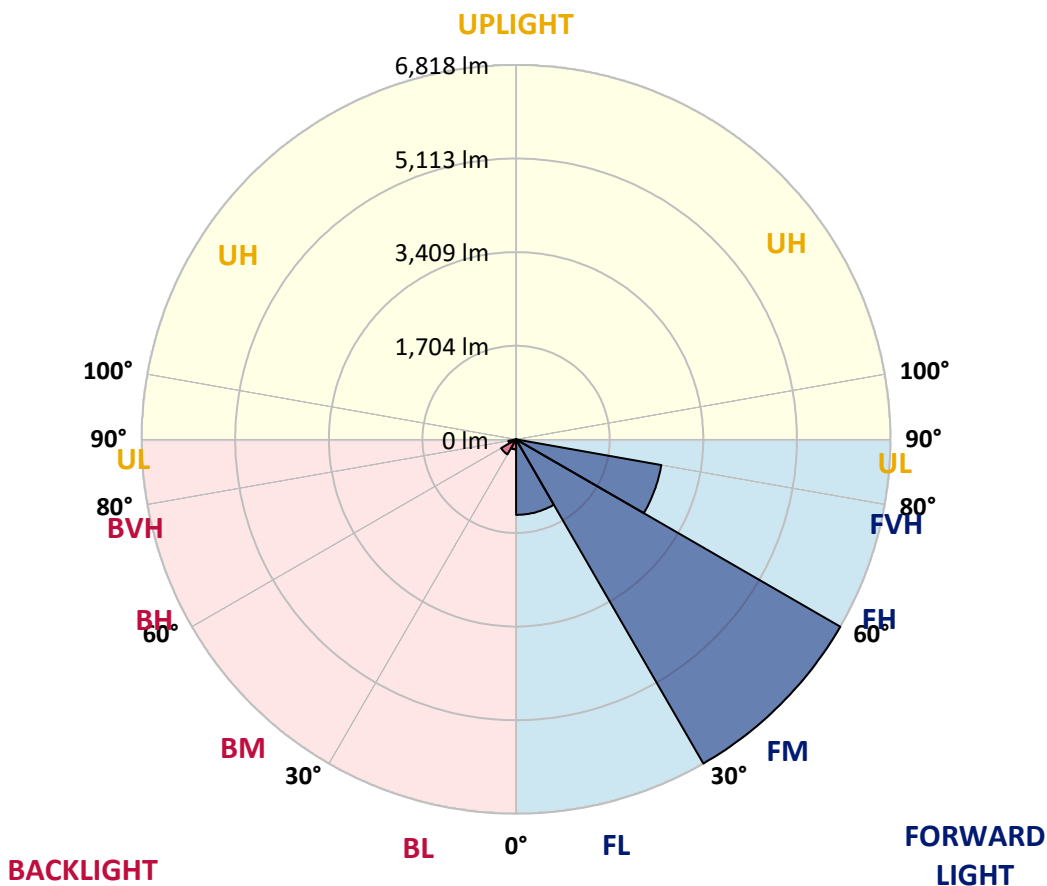
CATALOG NUMBER: GWS-SA4C-722-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1375.0 | 11.9 | | | |
| FM (30°-60°) | 6817.6 | 59.1 | | | |
| FH (60°-80°) | 2686.6 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 14.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 182.0 | 1.6 | B1/500 | | |
| BM (30°-60°) | 314.6 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 140.2 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 |
| 2.5° | 1573.5 | 1597.0 | 1578.6 | 1547.8 | 1488.4 | 1431.0 | 1357.2 | 1255.7 | 1174.7 | 1164.5 | 1088.6 |
| 5° | 2124.9 | 2122.9 | 2082.9 | 2042.9 | 1980.4 | 1882.0 | 1733.4 | 1544.8 | 1363.3 | 1348.0 | 1177.8 |
| 7.5° | 2453.0 | 2456.0 | 2433.5 | 2402.7 | 2341.2 | 2239.8 | 2085.0 | 1857.4 | 1591.9 | 1561.2 | 1299.8 |
| 10° | 2728.7 | 2727.7 | 2711.3 | 2696.9 | 2641.6 | 2573.9 | 2407.9 | 2157.7 | 1837.9 | 1789.8 | 1436.1 |
| 12.5° | 2935.8 | 2942.9 | 2951.1 | 2965.5 | 2941.9 | 2875.3 | 2718.5 | 2445.8 | 2087.0 | 2033.7 | 1591.9 |
| 15° | 3099.8 | 3101.8 | 3132.6 | 3187.9 | 3207.4 | 3172.6 | 3030.1 | 2724.6 | 2333.0 | 2286.9 | 1771.3 |
| 17.5° | 3149.0 | 3153.1 | 3205.4 | 3306.8 | 3409.3 | 3428.8 | 3321.2 | 3005.5 | 2574.9 | 2525.7 | 1945.6 |
| 20° | 3252.5 | 3261.7 | 3300.7 | 3389.9 | 3519.0 | 3623.6 | 3581.6 | 3289.4 | 2816.9 | 2752.3 | 2123.9 |
| 22.5° | 3578.5 | 3583.6 | 3570.3 | 3581.6 | 3648.2 | 3769.1 | 3794.8 | 3564.1 | 3064.9 | 2996.2 | 2316.6 |
| 25° | 4139.2 | 4141.2 | 4048.0 | 3959.8 | 3909.6 | 3932.1 | 3988.5 | 3817.3 | 3310.9 | 3243.3 | 2496.0 |
| 27.5° | 4721.4 | 4728.6 | 4616.9 | 4467.2 | 4287.8 | 4185.3 | 4168.9 | 4049.0 | 3559.0 | 3484.2 | 2673.4 |
| 30° | 5269.8 | 5269.8 | 5151.9 | 4969.5 | 4729.6 | 4529.7 | 4411.9 | 4282.7 | 3824.5 | 3742.5 | 2854.8 |
| 32.5° | 5762.9 | 5758.8 | 5608.1 | 5410.3 | 5173.5 | 4954.1 | 4706.0 | 4526.7 | 4119.7 | 4028.5 | 3063.9 |
| 35° | 6169.8 | 6159.6 | 5988.4 | 5798.8 | 5545.6 | 5382.6 | 5105.8 | 4789.1 | 4439.5 | 4348.3 | 3279.2 |
| 37.5° | 6477.3 | 6466.1 | 6309.2 | 6108.3 | 5873.6 | 5768.0 | 5536.3 | 5103.8 | 4776.8 | 4693.7 | 3518.0 |
| 40° | 6644.4 | 6621.9 | 6513.2 | 6363.6 | 6166.8 | 6074.5 | 5978.1 | 5494.3 | 5173.5 | 5069.9 | 3799.9 |
| 42.5° | 6693.6 | 6667.0 | 6595.2 | 6525.5 | 6406.6 | 6333.8 | 6437.4 | 5935.1 | 5609.1 | 5519.9 | 4121.8 |
| 45° | 6548.1 | 6532.7 | 6526.5 | 6576.8 | 6598.3 | 6618.8 | 6874.0 | 6423.0 | 6089.9 | 6022.2 | 4526.7 |
| 47.5° | 6197.5 | 6193.4 | 6247.7 | 6456.8 | 6684.4 | 6900.7 | 7348.6 | 7024.7 | 6713.1 | 6640.3 | 5092.5 |
| 50° | 5549.7 | 5591.7 | 5743.4 | 6110.4 | 6565.5 | 7060.6 | 7792.5 | 7859.1 | 7721.8 | 7615.2 | 5830.5 |
| 52.5° | 4536.9 | 4617.9 | 4958.2 | 5515.8 | 6169.8 | 7015.5 | 7997.5 | 8527.5 | 8667.9 | 8557.2 | 6359.5 |
| 55° | 3560.0 | 3635.9 | 3939.3 | 4646.6 | 5518.9 | 6672.1 | 8006.7 | 8758.1 | 9064.6 | 8962.1 | 6717.2 |
| 57.5° | 2651.8 | 2721.5 | 2997.3 | 3673.8 | 4633.3 | 5996.6 | 7787.4 | 8886.2 | 9535.1 | 9469.5 | 7282.0 |
| 60° | 1733.4 | 1802.1 | 2051.1 | 2642.6 | 3593.9 | 5012.5 | 7247.2 | 8859.6 | 10175.8 | 10169.6 | 7976.0 |
| 62.5° | 961.5 | 1015.8 | 1196.2 | 1657.5 | 2508.3 | 3881.9 | 6398.4 | 8592.0 | 10795.9 | 10834.9 | 8548.0 |
| 65° | 492.0 | 526.9 | 636.6 | 911.3 | 1518.1 | 2752.3 | 5282.1 | 7979.1 | 11082.9 | 11181.3 | 8698.6 |
| 67.5° | 321.9 | 333.1 | 359.8 | 473.6 | 812.9 | 1731.3 | 3975.2 | 6996.0 | 10679.1 | 10793.9 | 8193.3 |
| 70° | 261.4 | 270.6 | 286.0 | 315.7 | 419.2 | 919.5 | 2610.8 | 5587.6 | 8923.1 | 9001.0 | 6524.5 |
| 72.5° | 191.7 | 204.0 | 233.7 | 253.2 | 302.4 | 504.3 | 1358.2 | 3667.7 | 6127.8 | 6265.2 | 4100.2 |
| 75° | 141.5 | 148.6 | 173.2 | 199.9 | 247.0 | 318.8 | 519.7 | 1928.1 | 3164.4 | 3084.4 | 1722.1 |
| 77.5° | 85.1 | 90.2 | 110.7 | 128.1 | 176.3 | 198.9 | 181.4 | 712.4 | 962.5 | 905.1 | 416.2 |
| 80° | 42.0 | 47.2 | 72.8 | 96.4 | 112.8 | 80.0 | 75.9 | 198.9 | 214.2 | 214.2 | 104.6 |
| 82.5° | 14.4 | 18.5 | 39.0 | 63.6 | 55.4 | 30.8 | 35.9 | 51.3 | 57.4 | 60.5 | 30.8 |
| 85° | 0.0 | 0.0 | 9.2 | 18.5 | 8.2 | 4.1 | 9.2 | 11.3 | 14.4 | 15.4 | 10.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 3.1 | 4.1 | 4.1 |
| 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° | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 | 1021.0 |
| 2.5° | 1047.6 | 999.4 | 926.7 | 861.0 | 810.8 | 763.7 | 727.8 | 699.1 | 694.0 | 677.6 | 679.6 |
| 5° | 1094.8 | 1007.6 | 873.3 | 769.8 | 697.0 | 647.8 | 606.8 | 576.1 | 562.8 | 549.4 | 539.2 |
| 7.5° | 1167.5 | 1041.5 | 852.8 | 726.8 | 641.7 | 565.8 | 502.3 | 451.0 | 426.4 | 411.0 | 400.8 |
| 10° | 1256.7 | 1088.6 | 853.9 | 701.1 | 575.1 | 459.2 | 372.1 | 315.7 | 289.1 | 280.9 | 279.8 |
| 12.5° | 1363.3 | 1148.1 | 862.1 | 659.1 | 478.7 | 341.3 | 275.7 | 250.1 | 241.9 | 234.7 | 234.7 |
| 15° | 1476.1 | 1214.7 | 862.1 | 582.2 | 364.9 | 266.5 | 238.8 | 222.4 | 212.2 | 208.1 | 206.0 |
| 17.5° | 1595.0 | 1277.2 | 841.6 | 476.7 | 279.8 | 234.7 | 212.2 | 196.8 | 188.6 | 182.5 | 180.4 |
| 20° | 1722.1 | 1336.7 | 790.3 | 364.9 | 239.9 | 210.1 | 188.6 | 173.2 | 165.0 | 158.9 | 158.9 |
| 22.5° | 1851.3 | 1392.0 | 707.3 | 280.9 | 212.2 | 186.6 | 166.1 | 151.7 | 143.5 | 137.4 | 137.4 |
| 25° | 1971.2 | 1428.9 | 600.7 | 231.7 | 191.7 | 166.1 | 147.6 | 133.3 | 124.0 | 119.9 | 117.9 |
| 27.5° | 2082.9 | 1452.5 | 482.8 | 204.0 | 172.2 | 148.6 | 129.2 | 115.8 | 108.7 | 105.6 | 103.5 |
| 30° | 2198.8 | 1458.7 | 369.0 | 185.5 | 155.8 | 131.2 | 112.8 | 102.5 | 96.4 | 92.3 | 92.3 |
| 32.5° | 2311.5 | 1451.5 | 281.9 | 170.2 | 141.5 | 115.8 | 100.5 | 91.2 | 86.1 | 83.0 | 82.0 |
| 35° | 2426.3 | 1418.7 | 228.6 | 156.8 | 127.1 | 101.5 | 89.2 | 82.0 | 78.9 | 74.8 | 74.8 |
| 37.5° | 2551.4 | 1374.6 | 198.9 | 143.5 | 112.8 | 91.2 | 80.0 | 74.8 | 70.7 | 67.7 | 66.6 |
| 40° | 2707.2 | 1323.4 | 182.5 | 132.2 | 99.4 | 82.0 | 71.8 | 66.6 | 63.6 | 60.5 | 59.5 |
| 42.5° | 2891.7 | 1273.1 | 174.3 | 119.9 | 89.2 | 72.8 | 64.6 | 58.4 | 55.4 | 51.3 | 50.2 |
| 45° | 3153.1 | 1261.8 | 165.0 | 106.6 | 80.0 | 65.6 | 56.4 | 50.2 | 46.1 | 43.1 | 42.0 |
| 47.5° | 3573.4 | 1293.6 | 149.7 | 92.3 | 70.7 | 57.4 | 48.2 | 43.1 | 37.9 | 34.9 | 32.8 |
| 50° | 3990.6 | 1285.4 | 134.3 | 80.0 | 62.5 | 49.2 | 41.0 | 35.9 | 30.8 | 27.7 | 26.7 |
| 52.5° | 4218.1 | 1246.5 | 119.9 | 70.7 | 54.3 | 42.0 | 34.9 | 28.7 | 25.6 | 22.6 | 21.5 |
| 55° | 4424.2 | 1231.1 | 105.6 | 61.5 | 46.1 | 36.9 | 28.7 | 23.6 | 21.5 | 18.5 | 17.4 |
| 57.5° | 4828.0 | 1267.0 | 93.3 | 53.3 | 40.0 | 31.8 | 24.6 | 19.5 | 17.4 | 14.4 | 13.3 |
| 60° | 5250.4 | 1271.1 | 80.0 | 46.1 | 34.9 | 26.7 | 19.5 | 15.4 | 13.3 | 10.3 | 9.2 |
| 62.5° | 5470.7 | 1167.5 | 65.6 | 39.0 | 28.7 | 22.6 | 16.4 | 12.3 | 10.3 | 6.2 | 6.2 |
| 65° | 5286.2 | 944.1 | 55.4 | 31.8 | 22.6 | 17.4 | 12.3 | 9.2 | 6.2 | 3.1 | 1.0 |
| 67.5° | 4678.4 | 671.4 | 46.1 | 25.6 | 16.4 | 12.3 | 9.2 | 6.2 | 1.0 | 0.0 | 0.0 |
| 70° | 3425.7 | 383.4 | 35.9 | 18.5 | 12.3 | 8.2 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2105.5 | 205.0 | 26.7 | 12.3 | 9.2 | 6.2 | 5.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 75° | 798.5 | 98.4 | 16.4 | 8.2 | 7.2 | 5.1 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 216.3 | 48.2 | 9.2 | 6.2 | 5.1 | 3.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 56.4 | 22.6 | 6.2 | 4.1 | 3.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 19.5 | 10.3 | 3.1 | 3.1 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.2 | 4.1 | 2.1 | 2.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.1 | 1.0 | 1.0 | 1.0 | 1.0 | 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)