

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: P632884

Luminaire Tested: GWS-SA2D-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632884
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-SA2D-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9632.3 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

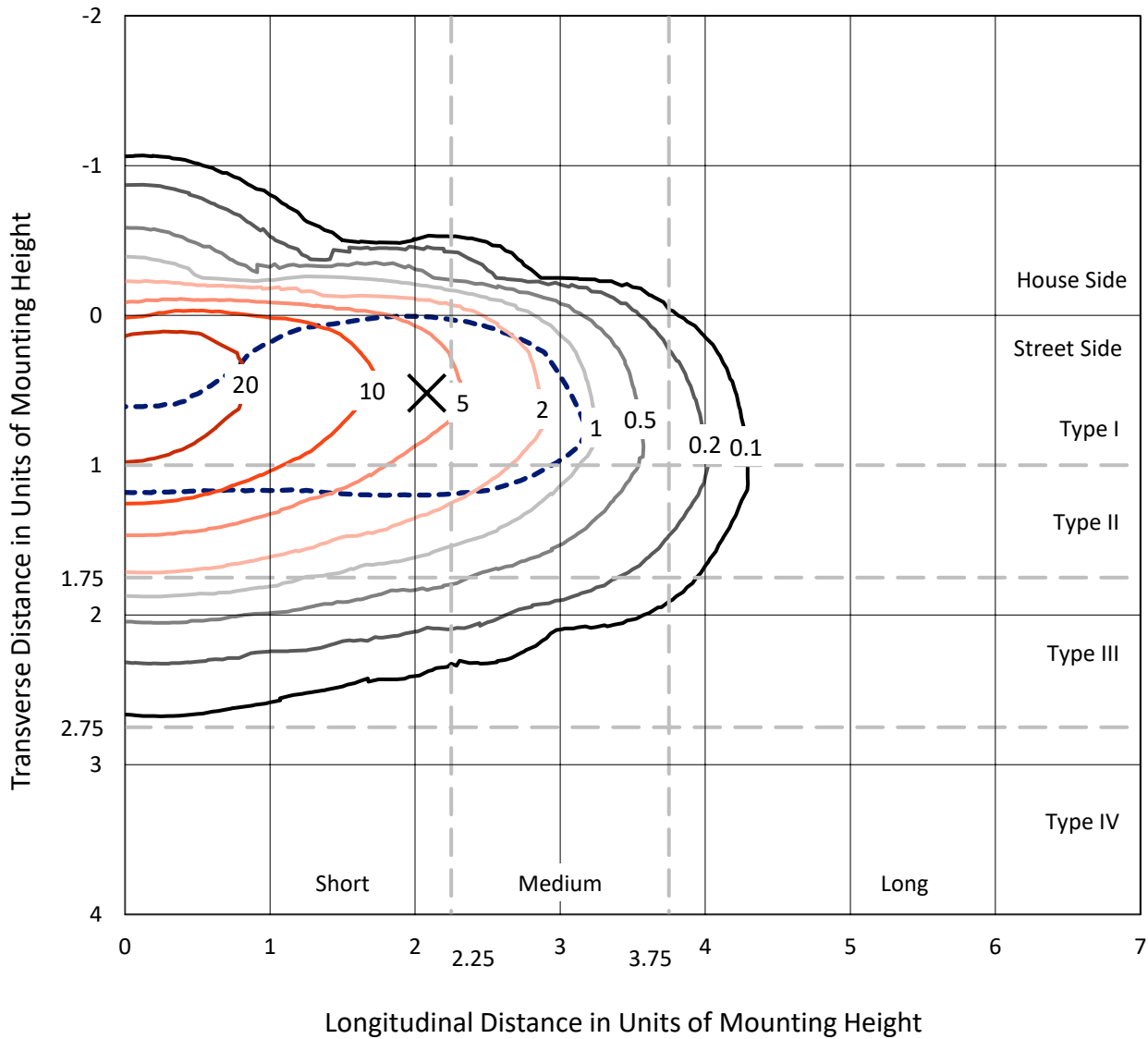
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

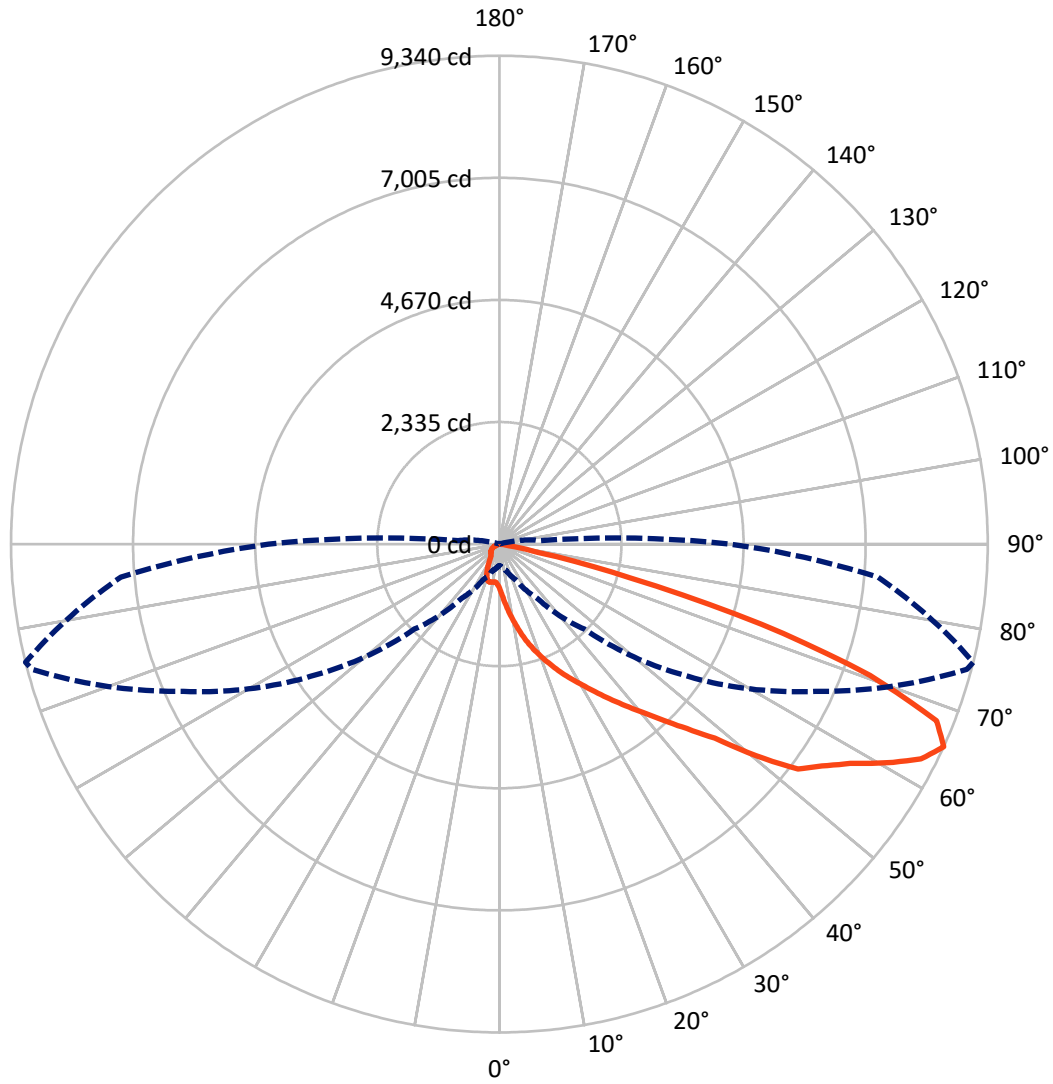
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.9 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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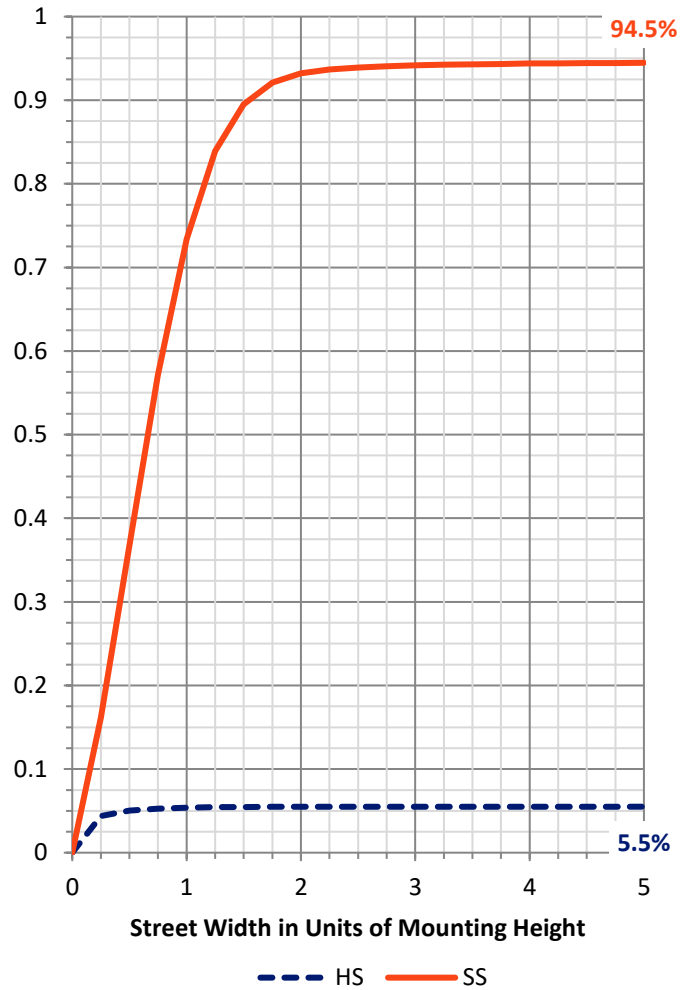
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 532.6 | 0.0 | 532.6 |
| | % Fixture | 5.5 | 0.0 | 5.5 |
| Street Side | Lumens | 9099.7 | 0.0 | 9099.7 |
| | % Fixture | 94.5 | 0.0 | 94.5 |
| Total | Lumens | 9632.3 | 0.0 | 9632.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.7 | 1.1 |
| 10°-20° | 393.7 | 4.1 |
| 20°-30° | 803.1 | 8.3 |
| 30°-40° | 1428.4 | 14.8 |
| 40°-50° | 2111.6 | 21.9 |
| 50°-60° | 2417.6 | 25.1 |
| 60°-70° | 1844.5 | 19.1 |
| 70°-80° | 516.7 | 5.4 |
| 80°-90° | 13.0 | 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° | 9632.3 | 100.0 |
| 0°-180° | 9632.3 | 100.0 |

Coefficient of Utilization



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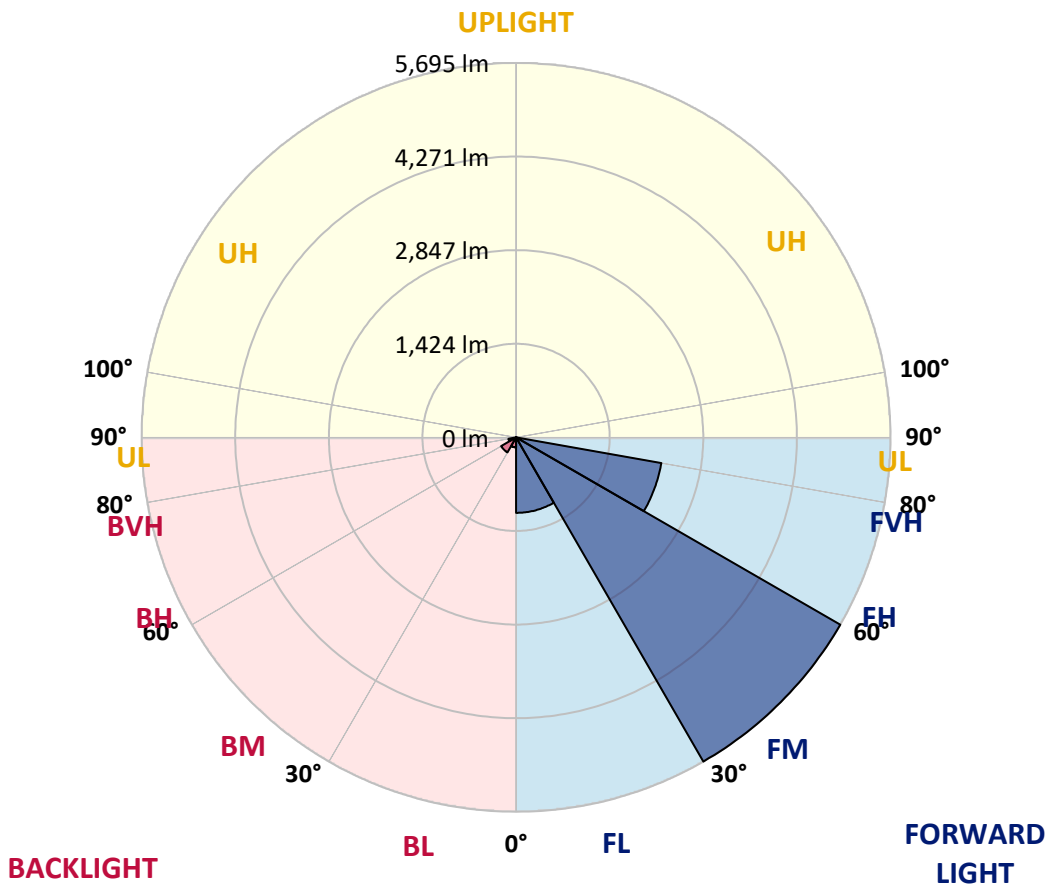
CATALOG NUMBER: GWS-SA2D-750-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1148.6 | 11.9 | | | |
| FM (30°-60°) | 5694.8 | 59.1 | | | |
| FH (60°-80°) | 2244.1 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 12.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 152.0 | 1.6 | B1/500 | | |
| BM (30°-60°) | 262.8 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 117.1 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 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° | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 |
| 2.5° | 1314.3 | 1334.0 | 1318.6 | 1292.9 | 1243.3 | 1195.3 | 1133.7 | 1048.9 | 981.2 | 972.7 | 909.3 |
| 5° | 1775.0 | 1773.3 | 1739.9 | 1706.5 | 1654.2 | 1572.0 | 1447.9 | 1290.3 | 1138.8 | 1125.9 | 983.8 |
| 7.5° | 2049.0 | 2051.5 | 2032.7 | 2007.0 | 1955.6 | 1870.9 | 1741.6 | 1551.5 | 1329.7 | 1304.0 | 1085.7 |
| 10° | 2279.3 | 2278.4 | 2264.7 | 2252.8 | 2206.5 | 2150.0 | 2011.3 | 1802.4 | 1535.2 | 1495.0 | 1199.6 |
| 12.5° | 2452.3 | 2458.3 | 2465.1 | 2477.1 | 2457.4 | 2401.7 | 2270.7 | 2043.0 | 1743.3 | 1698.8 | 1329.7 |
| 15° | 2589.3 | 2591.0 | 2616.7 | 2662.9 | 2679.2 | 2650.0 | 2531.0 | 2275.9 | 1948.8 | 1910.3 | 1479.6 |
| 17.5° | 2630.4 | 2633.8 | 2677.4 | 2762.2 | 2847.8 | 2864.1 | 2774.2 | 2510.5 | 2150.9 | 2109.8 | 1625.1 |
| 20° | 2716.8 | 2724.5 | 2757.1 | 2831.6 | 2939.5 | 3026.8 | 2991.7 | 2747.7 | 2352.9 | 2299.0 | 1774.1 |
| 22.5° | 2989.1 | 2993.4 | 2982.3 | 2991.7 | 3047.3 | 3148.4 | 3169.8 | 2977.1 | 2560.1 | 2502.8 | 1935.1 |
| 25° | 3457.5 | 3459.2 | 3381.3 | 3307.6 | 3265.7 | 3284.5 | 3331.6 | 3188.6 | 2765.6 | 2709.1 | 2084.9 |
| 27.5° | 3943.8 | 3949.8 | 3856.5 | 3731.5 | 3581.6 | 3496.0 | 3482.3 | 3382.1 | 2972.8 | 2910.3 | 2233.1 |
| 30° | 4401.9 | 4401.9 | 4303.4 | 4151.0 | 3950.7 | 3783.7 | 3685.2 | 3577.3 | 3194.6 | 3126.1 | 2384.6 |
| 32.5° | 4813.8 | 4810.3 | 4684.5 | 4519.2 | 4321.4 | 4138.2 | 3931.0 | 3781.1 | 3441.2 | 3365.0 | 2559.3 |
| 35° | 5153.7 | 5145.1 | 5002.1 | 4843.7 | 4632.2 | 4496.1 | 4264.9 | 4000.3 | 3708.4 | 3632.1 | 2739.1 |
| 37.5° | 5410.5 | 5401.1 | 5270.1 | 5102.3 | 4906.2 | 4818.0 | 4624.5 | 4263.2 | 3990.1 | 3920.7 | 2938.6 |
| 40° | 5550.1 | 5531.3 | 5440.5 | 5315.5 | 5151.1 | 5074.0 | 4993.6 | 4589.4 | 4321.4 | 4234.9 | 3174.1 |
| 42.5° | 5591.2 | 5569.0 | 5509.0 | 5450.8 | 5351.5 | 5290.7 | 5377.2 | 4957.6 | 4685.3 | 4610.8 | 3442.9 |
| 45° | 5469.6 | 5456.8 | 5451.6 | 5493.6 | 5511.6 | 5528.7 | 5741.9 | 5365.2 | 5086.9 | 5030.4 | 3781.1 |
| 47.5° | 5176.8 | 5173.4 | 5218.8 | 5393.4 | 5583.5 | 5764.2 | 6138.3 | 5867.8 | 5607.5 | 5546.7 | 4253.8 |
| 50° | 4635.7 | 4670.8 | 4797.5 | 5104.0 | 5484.2 | 5897.7 | 6509.1 | 6564.8 | 6450.0 | 6361.0 | 4870.3 |
| 52.5° | 3789.7 | 3857.3 | 4141.6 | 4607.4 | 5153.7 | 5860.1 | 6680.3 | 7123.0 | 7240.3 | 7147.8 | 5312.1 |
| 55° | 2973.7 | 3037.1 | 3290.5 | 3881.3 | 4610.0 | 5573.2 | 6688.1 | 7315.7 | 7571.7 | 7486.1 | 5610.9 |
| 57.5° | 2215.1 | 2273.3 | 2503.6 | 3068.7 | 3870.2 | 5009.0 | 6504.8 | 7422.7 | 7964.7 | 7909.9 | 6082.7 |
| 60° | 1447.9 | 1505.3 | 1713.3 | 2207.4 | 3002.0 | 4187.0 | 6053.6 | 7400.4 | 8499.8 | 8494.7 | 6662.4 |
| 62.5° | 803.1 | 848.5 | 999.2 | 1384.5 | 2095.2 | 3242.6 | 5344.6 | 7177.0 | 9017.9 | 9050.4 | 7140.1 |
| 65° | 411.0 | 440.1 | 531.7 | 761.2 | 1268.1 | 2299.0 | 4412.2 | 6664.9 | 9257.6 | 9339.8 | 7266.0 |
| 67.5° | 268.9 | 278.3 | 300.5 | 395.6 | 679.0 | 1446.2 | 3320.5 | 5843.8 | 8920.3 | 9016.2 | 6843.9 |
| 70° | 218.3 | 226.0 | 238.9 | 263.7 | 350.2 | 768.0 | 2180.8 | 4667.3 | 7453.5 | 7518.6 | 5449.9 |
| 72.5° | 160.1 | 170.4 | 195.2 | 211.5 | 252.6 | 421.3 | 1134.5 | 3063.6 | 5118.6 | 5233.3 | 3424.9 |
| 75° | 118.2 | 124.2 | 144.7 | 167.0 | 206.4 | 266.3 | 434.1 | 1610.6 | 2643.2 | 2576.4 | 1438.5 |
| 77.5° | 71.1 | 75.3 | 92.5 | 107.0 | 147.3 | 166.1 | 151.6 | 595.1 | 804.0 | 756.1 | 347.6 |
| 80° | 35.1 | 39.4 | 60.8 | 80.5 | 94.2 | 66.8 | 63.4 | 166.1 | 179.0 | 179.0 | 87.3 |
| 82.5° | 12.0 | 15.4 | 32.5 | 53.1 | 46.2 | 25.7 | 30.0 | 42.8 | 47.9 | 50.5 | 25.7 |
| 85° | 0.0 | 0.0 | 7.7 | 15.4 | 6.8 | 3.4 | 7.7 | 9.4 | 12.0 | 12.8 | 8.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 2.6 | 3.4 | 3.4 |
| 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° | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 |
| 2.5° | 875.1 | 834.8 | 774.0 | 719.2 | 677.3 | 637.9 | 607.9 | 584.0 | 579.7 | 566.0 | 567.7 |
| 5° | 914.5 | 841.7 | 729.5 | 643.0 | 582.2 | 541.1 | 506.9 | 481.2 | 470.1 | 458.9 | 450.4 |
| 7.5° | 975.3 | 869.9 | 712.4 | 607.1 | 536.0 | 472.6 | 419.6 | 376.7 | 356.2 | 343.4 | 334.8 |
| 10° | 1049.7 | 909.3 | 713.2 | 585.7 | 480.3 | 383.6 | 310.8 | 263.7 | 241.5 | 234.6 | 233.8 |
| 12.5° | 1138.8 | 959.0 | 720.1 | 550.6 | 399.9 | 285.1 | 230.3 | 208.9 | 202.1 | 196.1 | 196.1 |
| 15° | 1233.0 | 1014.6 | 720.1 | 486.3 | 304.8 | 222.6 | 199.5 | 185.8 | 177.2 | 173.8 | 172.1 |
| 17.5° | 1332.3 | 1066.9 | 703.0 | 398.1 | 233.8 | 196.1 | 177.2 | 164.4 | 157.5 | 152.4 | 150.7 |
| 20° | 1438.5 | 1116.5 | 660.2 | 304.8 | 200.4 | 175.5 | 157.5 | 144.7 | 137.9 | 132.7 | 132.7 |
| 22.5° | 1546.4 | 1162.8 | 590.8 | 234.6 | 177.2 | 155.8 | 138.7 | 126.7 | 119.9 | 114.7 | 114.7 |
| 25° | 1646.5 | 1193.6 | 501.8 | 193.5 | 160.1 | 138.7 | 123.3 | 111.3 | 103.6 | 100.2 | 98.5 |
| 27.5° | 1739.9 | 1213.3 | 403.3 | 170.4 | 143.8 | 124.2 | 107.9 | 96.8 | 90.8 | 88.2 | 86.5 |
| 30° | 1836.6 | 1218.4 | 308.2 | 155.0 | 130.1 | 109.6 | 94.2 | 85.6 | 80.5 | 77.1 | 77.1 |
| 32.5° | 1930.8 | 1212.4 | 235.5 | 142.1 | 118.2 | 96.8 | 83.9 | 76.2 | 71.9 | 69.4 | 68.5 |
| 35° | 2026.7 | 1185.0 | 190.9 | 131.0 | 106.2 | 84.8 | 74.5 | 68.5 | 65.9 | 62.5 | 62.5 |
| 37.5° | 2131.2 | 1148.2 | 166.1 | 119.9 | 94.2 | 76.2 | 66.8 | 62.5 | 59.1 | 56.5 | 55.7 |
| 40° | 2261.3 | 1105.4 | 152.4 | 110.5 | 83.1 | 68.5 | 59.9 | 55.7 | 53.1 | 50.5 | 49.7 |
| 42.5° | 2415.4 | 1063.4 | 145.6 | 100.2 | 74.5 | 60.8 | 53.9 | 48.8 | 46.2 | 42.8 | 42.0 |
| 45° | 2633.8 | 1054.0 | 137.9 | 89.0 | 66.8 | 54.8 | 47.1 | 42.0 | 38.5 | 36.0 | 35.1 |
| 47.5° | 2984.8 | 1080.6 | 125.0 | 77.1 | 59.1 | 47.9 | 40.2 | 36.0 | 31.7 | 29.1 | 27.4 |
| 50° | 3333.3 | 1073.7 | 112.2 | 66.8 | 52.2 | 41.1 | 34.2 | 30.0 | 25.7 | 23.1 | 22.3 |
| 52.5° | 3523.4 | 1041.2 | 100.2 | 59.1 | 45.4 | 35.1 | 29.1 | 24.0 | 21.4 | 18.8 | 18.0 |
| 55° | 3695.5 | 1028.3 | 88.2 | 51.4 | 38.5 | 30.8 | 24.0 | 19.7 | 18.0 | 15.4 | 14.6 |
| 57.5° | 4032.9 | 1058.3 | 77.9 | 44.5 | 33.4 | 26.5 | 20.5 | 16.3 | 14.6 | 12.0 | 11.1 |
| 60° | 4385.6 | 1061.7 | 66.8 | 38.5 | 29.1 | 22.3 | 16.3 | 12.8 | 11.1 | 8.6 | 7.7 |
| 62.5° | 4569.7 | 975.3 | 54.8 | 32.5 | 24.0 | 18.8 | 13.7 | 10.3 | 8.6 | 5.1 | 5.1 |
| 65° | 4415.6 | 788.6 | 46.2 | 26.5 | 18.8 | 14.6 | 10.3 | 7.7 | 5.1 | 2.6 | 0.9 |
| 67.5° | 3907.9 | 560.8 | 38.5 | 21.4 | 13.7 | 10.3 | 7.7 | 5.1 | 0.9 | 0.0 | 0.0 |
| 70° | 2861.5 | 320.2 | 30.0 | 15.4 | 10.3 | 6.8 | 5.1 | 2.6 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1758.7 | 171.2 | 22.3 | 10.3 | 7.7 | 5.1 | 4.3 | 1.7 | 0.0 | 0.0 | 0.0 |
| 75° | 667.0 | 82.2 | 13.7 | 6.8 | 6.0 | 4.3 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 180.7 | 40.2 | 7.7 | 5.1 | 4.3 | 2.6 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 47.1 | 18.8 | 5.1 | 3.4 | 2.6 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 16.3 | 8.6 | 2.6 | 2.6 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.8 | 3.4 | 1.7 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.6 | 0.9 | 0.9 | 0.9 | 0.9 | 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)