

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: P633377

Luminaire Tested: GWS-SA2E-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10005.2 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

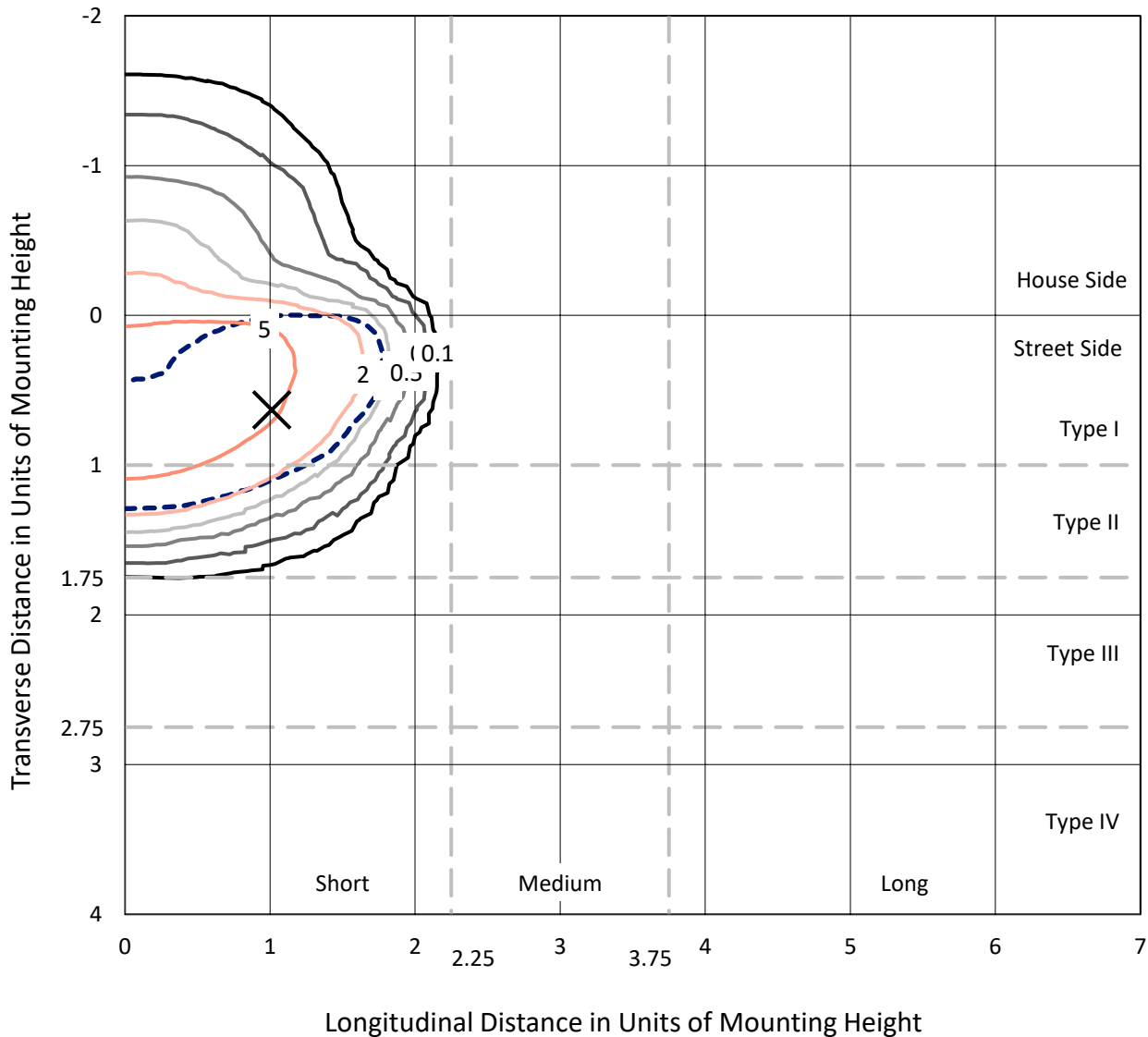
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

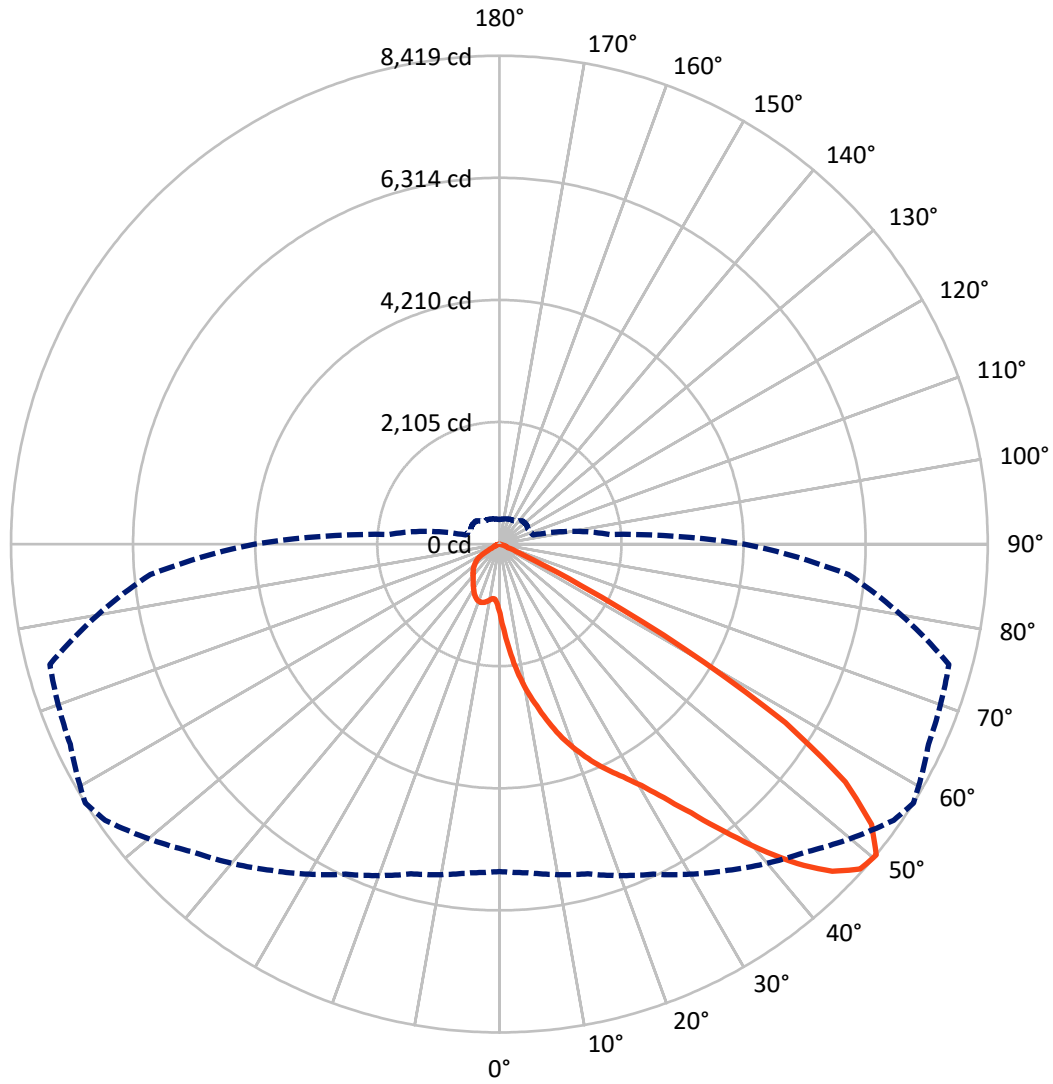
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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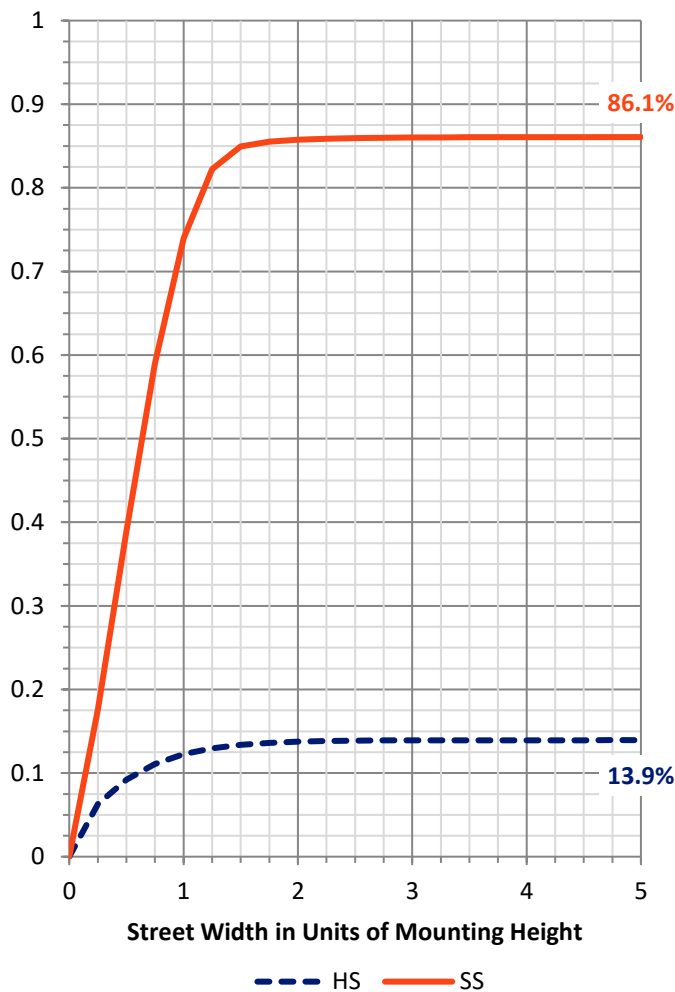
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1401.4 | 0.0 | 1401.4 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 8603.8 | 0.0 | 8603.8 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 10005.2 | 0.0 | 10005.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 148.1 | 1.5 |
| 10°-20° | 586.1 | 5.9 |
| 20°-30° | 1186.0 | 11.9 |
| 30°-40° | 2098.2 | 21.0 |
| 40°-50° | 3058.7 | 30.6 |
| 50°-60° | 2451.6 | 24.5 |
| 60°-70° | 441.7 | 4.4 |
| 70°-80° | 34.8 | 0.3 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 10005.2 | 100.0 |
| 0°-180° | 10005.2 | 100.0 |

Coefficient of Utilization



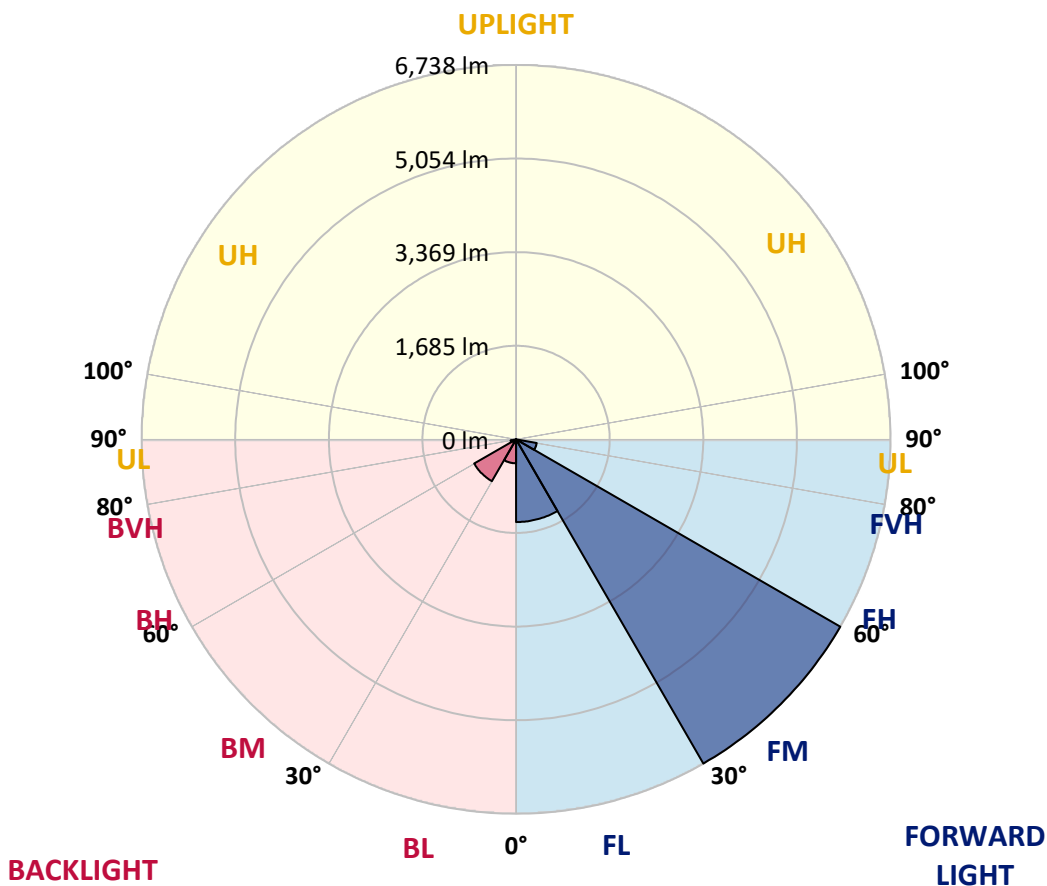
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1488.7 | 14.9 | | | |
| FM (30°-60°) | 6738.2 | 67.3 | | | |
| FH (60°-80°) | 376.9 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 431.4 | 4.3 | B1/500 | | |
| BM (30°-60°) | 870.3 | 8.7 | B1/1000 | | |
| BH (60°-80°) | 99.6 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 |
| 2.5° | 1768.6 | 1740.8 | 1724.7 | 1711.9 | 1655.2 | 1565.3 | 1506.5 | 1475.4 | 1424.1 | 1337.4 | 1262.5 |
| 5° | 2307.8 | 2287.5 | 2250.0 | 2224.4 | 2151.6 | 2024.3 | 1892.7 | 1840.3 | 1723.6 | 1527.9 | 1352.4 |
| 7.5° | 2665.2 | 2650.2 | 2636.3 | 2602.1 | 2533.6 | 2418.0 | 2272.5 | 2218.0 | 2038.2 | 1760.0 | 1472.2 |
| 10° | 2940.1 | 2928.4 | 2912.3 | 2911.3 | 2857.8 | 2754.0 | 2611.7 | 2555.0 | 2360.3 | 2012.5 | 1613.4 |
| 12.5° | 3182.0 | 3172.3 | 3169.1 | 3199.1 | 3164.8 | 3087.8 | 2933.7 | 2863.1 | 2656.6 | 2270.4 | 1769.7 |
| 15° | 3347.8 | 3345.6 | 3359.6 | 3418.4 | 3437.7 | 3402.4 | 3272.9 | 3196.9 | 2959.4 | 2529.3 | 1941.9 |
| 17.5° | 3423.8 | 3430.2 | 3456.9 | 3558.6 | 3644.2 | 3674.1 | 3574.6 | 3510.4 | 3260.1 | 2791.4 | 2125.9 |
| 20° | 3553.2 | 3551.1 | 3567.1 | 3663.4 | 3768.3 | 3875.3 | 3845.3 | 3790.7 | 3563.9 | 3068.5 | 2330.3 |
| 22.5° | 3918.1 | 3887.0 | 3852.8 | 3867.8 | 3905.2 | 4030.4 | 4086.0 | 4058.2 | 3877.4 | 3353.1 | 2541.1 |
| 25° | 4478.7 | 4446.6 | 4336.4 | 4229.4 | 4158.8 | 4215.5 | 4291.5 | 4305.4 | 4188.7 | 3645.2 | 2761.5 |
| 27.5° | 5073.6 | 5044.7 | 4920.6 | 4760.1 | 4557.9 | 4459.4 | 4516.1 | 4544.0 | 4494.7 | 3993.0 | 2995.8 |
| 30° | 5631.0 | 5592.5 | 5456.6 | 5257.6 | 5023.3 | 4872.4 | 4808.2 | 4827.5 | 4856.4 | 4404.9 | 3270.8 |
| 32.5° | 6114.6 | 6085.7 | 5923.1 | 5713.4 | 5487.6 | 5330.4 | 5180.6 | 5212.7 | 5283.3 | 4908.8 | 3622.8 |
| 35° | 6524.4 | 6509.4 | 6337.2 | 6128.5 | 5889.9 | 5809.7 | 5681.3 | 5687.7 | 5758.3 | 5517.6 | 4051.8 |
| 37.5° | 6880.7 | 6855.0 | 6698.8 | 6505.1 | 6315.8 | 6302.9 | 6267.6 | 6270.8 | 6307.2 | 6227.0 | 4545.0 |
| 40° | 7105.4 | 7081.8 | 6970.5 | 6850.7 | 6715.9 | 6718.0 | 6901.0 | 6914.9 | 6873.2 | 6923.5 | 5066.1 |
| 42.5° | 7189.9 | 7172.8 | 7112.8 | 7113.9 | 7100.0 | 7163.1 | 7506.6 | 7532.3 | 7382.5 | 7470.2 | 5511.2 |
| 45° | 7043.3 | 7035.8 | 7040.1 | 7194.2 | 7361.1 | 7555.8 | 8002.0 | 8046.9 | 7835.0 | 7832.9 | 5858.9 |
| 47.5° | 6570.4 | 6555.4 | 6680.6 | 6942.7 | 7329.0 | 7707.7 | 8301.5 | 8371.1 | 8151.7 | 8040.5 | 6077.2 |
| 50° | 5643.8 | 5686.6 | 5884.6 | 6278.3 | 6865.7 | 7499.1 | 8298.3 | 8419.2 | 8163.5 | 8022.3 | 6040.8 |
| 52.5° | 4088.2 | 4079.6 | 4512.9 | 5054.3 | 5769.0 | 6831.5 | 7857.5 | 8034.1 | 7877.8 | 7843.6 | 5959.5 |
| 55° | 2224.4 | 2302.5 | 2594.6 | 3311.4 | 4203.7 | 5567.9 | 6850.7 | 7235.9 | 7416.7 | 7778.3 | 6106.1 |
| 57.5° | 817.4 | 851.7 | 1034.6 | 1541.8 | 2225.4 | 3462.3 | 5233.0 | 5814.0 | 6372.5 | 7596.5 | 6081.4 |
| 60° | 329.5 | 336.0 | 408.7 | 567.1 | 935.1 | 1762.2 | 3139.2 | 3654.9 | 4181.3 | 5815.0 | 4667.0 |
| 62.5° | 239.7 | 248.2 | 277.1 | 331.7 | 472.9 | 770.3 | 1353.5 | 1573.9 | 1720.4 | 2880.2 | 2299.3 |
| 65° | 193.7 | 200.1 | 223.6 | 248.2 | 312.4 | 414.1 | 436.5 | 420.5 | 418.3 | 744.7 | 527.5 |
| 67.5° | 160.5 | 166.9 | 184.0 | 201.1 | 224.7 | 206.5 | 149.8 | 157.3 | 128.4 | 127.3 | 103.8 |
| 70° | 117.7 | 125.2 | 142.3 | 160.5 | 134.8 | 55.6 | 86.7 | 128.4 | 97.4 | 81.3 | 79.2 |
| 72.5° | 88.8 | 94.2 | 110.2 | 104.9 | 39.6 | 21.4 | 57.8 | 93.1 | 74.9 | 59.9 | 58.8 |
| 75° | 66.3 | 69.5 | 55.6 | 17.1 | 4.3 | 5.3 | 21.4 | 38.5 | 41.7 | 34.2 | 34.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 3.2 | 4.3 | 5.3 | 6.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 | 1195.1 |
| 2.5° | 1219.7 | 1174.8 | 1110.6 | 1057.1 | 1016.4 | 976.8 | 946.9 | 916.9 | 915.9 | 900.9 | 897.7 |
| 5° | 1271.1 | 1189.8 | 1072.1 | 987.5 | 936.2 | 905.2 | 883.8 | 873.1 | 867.7 | 862.4 | 860.2 |
| 7.5° | 1344.9 | 1228.3 | 1065.6 | 975.8 | 933.0 | 912.6 | 897.7 | 891.2 | 888.0 | 883.8 | 882.7 |
| 10° | 1435.8 | 1283.9 | 1089.2 | 998.2 | 960.8 | 941.5 | 925.5 | 915.9 | 910.5 | 903.0 | 900.9 |
| 12.5° | 1545.0 | 1352.4 | 1126.6 | 1035.7 | 996.1 | 970.4 | 949.0 | 935.1 | 927.6 | 918.0 | 915.9 |
| 15° | 1662.7 | 1426.2 | 1168.4 | 1069.9 | 1022.8 | 989.7 | 962.9 | 941.5 | 927.6 | 915.9 | 912.6 |
| 17.5° | 1784.6 | 1501.1 | 1205.8 | 1093.5 | 1035.7 | 996.1 | 957.6 | 928.7 | 911.6 | 896.6 | 892.3 |
| 20° | 1921.6 | 1578.1 | 1230.4 | 1097.7 | 1031.4 | 979.0 | 934.0 | 897.7 | 880.5 | 860.2 | 855.9 |
| 22.5° | 2065.0 | 1649.8 | 1241.1 | 1088.1 | 1007.9 | 946.9 | 898.7 | 861.3 | 836.7 | 815.3 | 808.9 |
| 25° | 2204.0 | 1714.0 | 1235.8 | 1061.4 | 972.6 | 901.9 | 852.7 | 814.2 | 787.5 | 766.1 | 760.7 |
| 27.5° | 2351.7 | 1767.5 | 1216.5 | 1021.8 | 924.4 | 852.7 | 805.7 | 772.5 | 747.9 | 724.3 | 719.0 |
| 30° | 2517.5 | 1816.7 | 1185.5 | 973.6 | 867.7 | 802.4 | 766.1 | 743.6 | 716.8 | 692.2 | 684.8 |
| 32.5° | 2717.6 | 1860.6 | 1140.5 | 915.9 | 817.4 | 758.6 | 738.2 | 721.1 | 690.1 | 664.4 | 659.1 |
| 35° | 2946.6 | 1897.0 | 1083.8 | 855.9 | 768.2 | 730.8 | 726.5 | 704.0 | 663.4 | 633.4 | 627.0 |
| 37.5° | 3211.9 | 1932.3 | 1016.4 | 797.1 | 731.8 | 717.9 | 719.0 | 680.5 | 631.3 | 594.9 | 590.6 |
| 40° | 3497.6 | 1967.6 | 941.5 | 745.7 | 698.7 | 710.4 | 700.8 | 646.2 | 566.0 | 530.7 | 526.4 |
| 42.5° | 3795.0 | 2006.1 | 865.6 | 697.6 | 670.8 | 681.5 | 667.6 | 577.8 | 520.0 | 501.8 | 499.7 |
| 45° | 4063.6 | 2052.1 | 783.2 | 649.4 | 643.0 | 639.8 | 616.3 | 523.2 | 498.6 | 485.7 | 484.7 |
| 47.5° | 4257.2 | 2044.6 | 695.4 | 603.4 | 613.1 | 602.4 | 530.7 | 497.5 | 477.2 | 460.1 | 455.8 |
| 50° | 4221.9 | 1914.1 | 604.5 | 552.1 | 574.5 | 564.9 | 477.2 | 467.6 | 449.4 | 431.2 | 424.8 |
| 52.5° | 4132.0 | 1736.5 | 525.3 | 497.5 | 532.8 | 510.4 | 440.8 | 431.2 | 415.1 | 391.6 | 384.1 |
| 55° | 4180.2 | 1569.6 | 463.3 | 453.6 | 490.0 | 422.6 | 400.2 | 385.2 | 368.1 | 342.4 | 339.2 |
| 57.5° | 4025.1 | 1280.7 | 372.3 | 378.8 | 433.3 | 360.6 | 350.9 | 327.4 | 298.5 | 281.4 | 279.2 |
| 60° | 2786.1 | 688.0 | 233.2 | 240.7 | 313.5 | 302.8 | 314.6 | 293.2 | 257.9 | 241.8 | 238.6 |
| 62.5° | 1279.6 | 276.0 | 127.3 | 122.0 | 164.8 | 205.4 | 269.6 | 267.5 | 223.6 | 197.9 | 195.8 |
| 65° | 310.3 | 126.3 | 90.9 | 85.6 | 93.1 | 123.0 | 175.5 | 210.8 | 180.8 | 150.9 | 147.6 |
| 67.5° | 100.6 | 102.7 | 83.5 | 78.1 | 82.4 | 92.0 | 104.9 | 116.6 | 115.6 | 105.9 | 103.8 |
| 70° | 80.2 | 93.1 | 77.0 | 70.6 | 70.6 | 73.8 | 70.6 | 56.7 | 49.2 | 53.5 | 55.6 |
| 72.5° | 59.9 | 70.6 | 61.0 | 54.6 | 52.4 | 51.4 | 43.9 | 32.1 | 22.5 | 20.3 | 19.3 |
| 75° | 35.3 | 39.6 | 37.4 | 32.1 | 30.0 | 26.7 | 21.4 | 13.9 | 7.5 | 5.3 | 3.2 |
| 77.5° | 6.4 | 7.5 | 8.6 | 6.4 | 5.3 | 4.3 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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)