

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: P639317

Luminaire Tested: GWS-SA5B-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639317
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-SA5B-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12175.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

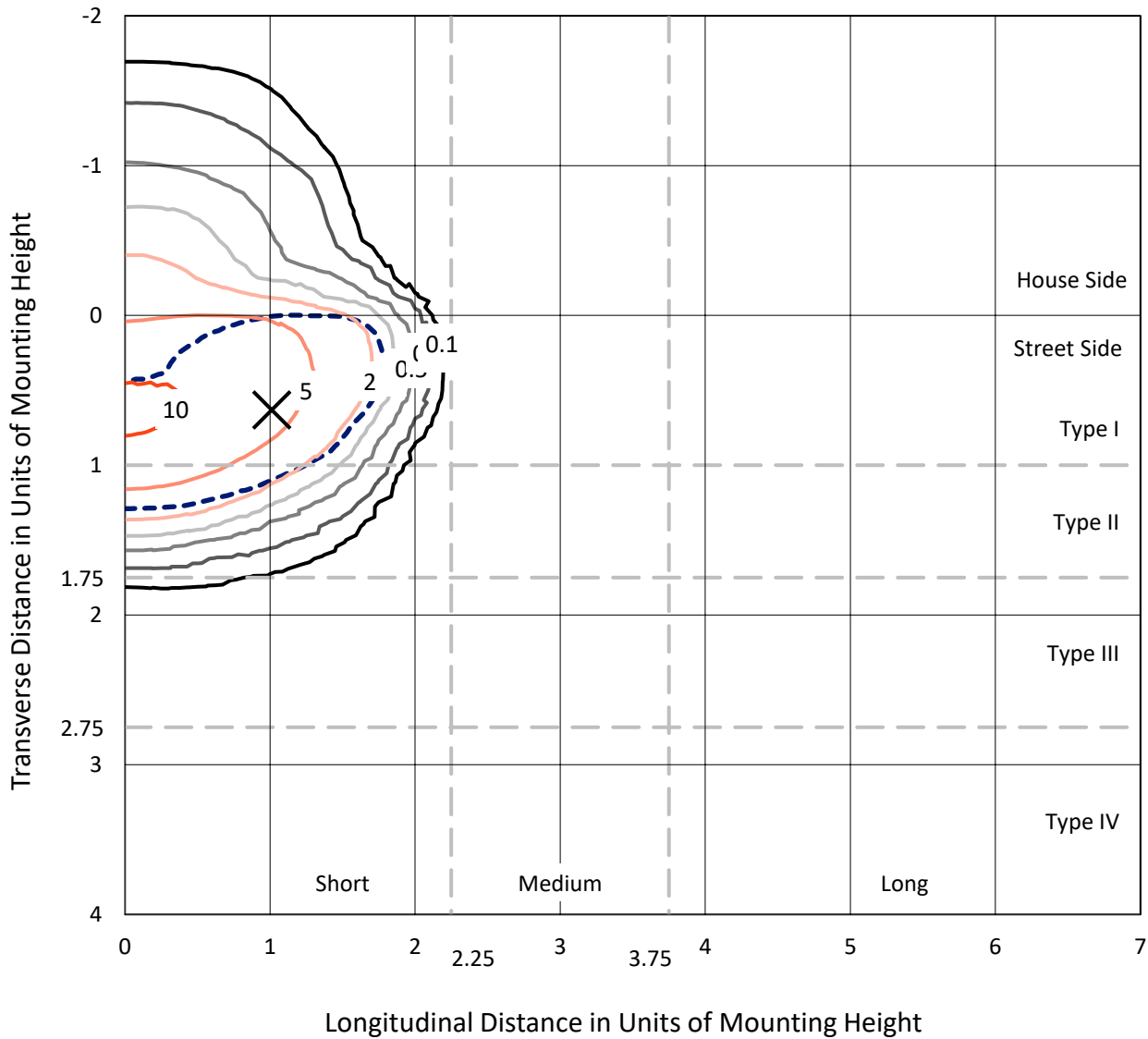
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

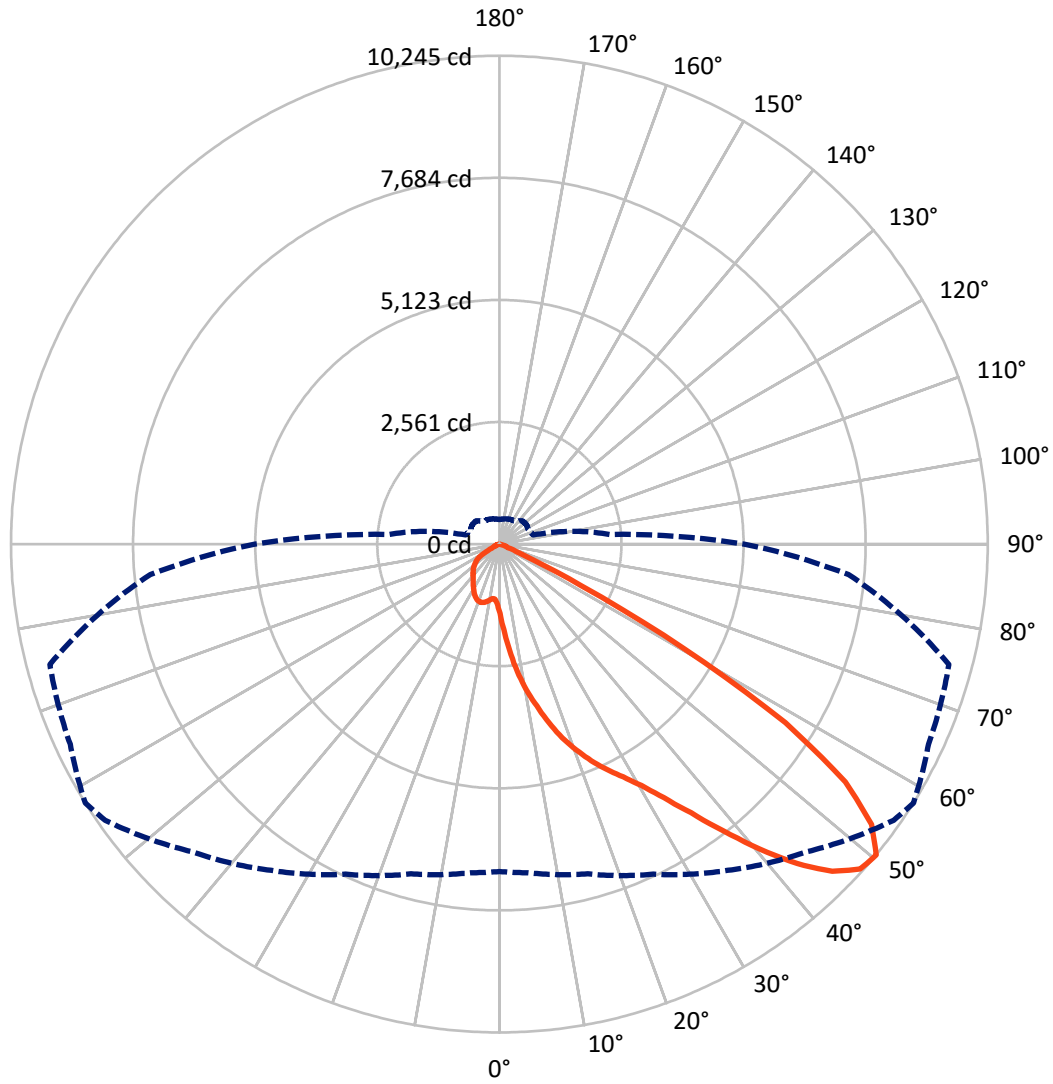
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 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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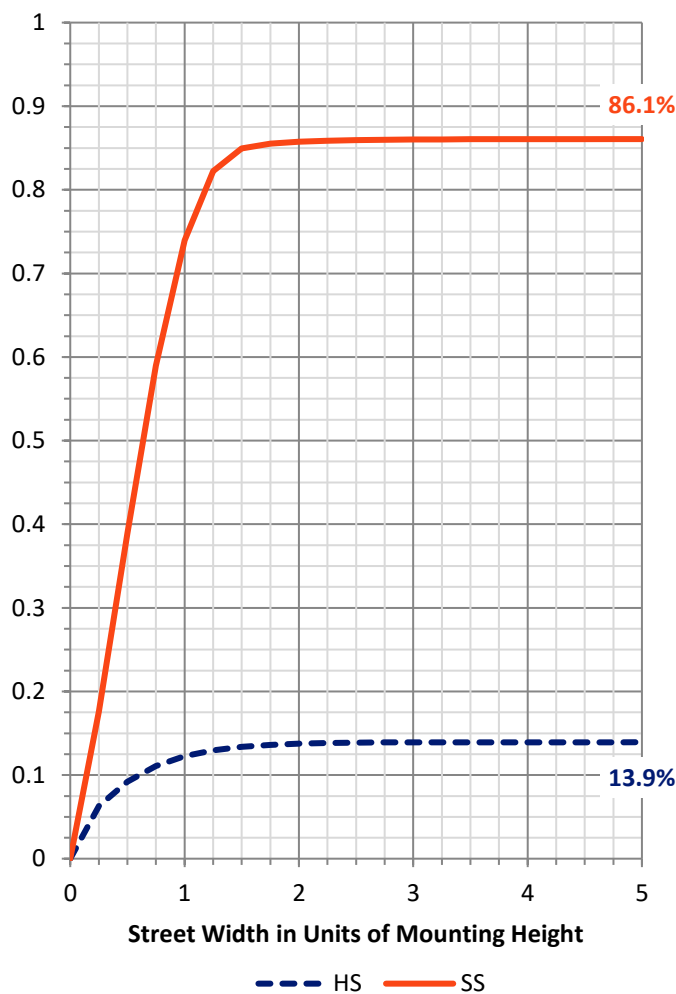
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1705.3 | 0.0 | 1705.3 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 10470.0 | 0.0 | 10470.0 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 12175.3 | 0.0 | 12175.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 180.2 | 1.5 |
| 10°-20° | 713.2 | 5.9 |
| 20°-30° | 1443.3 | 11.9 |
| 30°-40° | 2553.3 | 21.0 |
| 40°-50° | 3722.1 | 30.6 |
| 50°-60° | 2983.4 | 24.5 |
| 60°-70° | 537.5 | 4.4 |
| 70°-80° | 42.4 | 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° | 12175.3 | 100.0 |
| 0°-180° | 12175.3 | 100.0 |

Coefficient of Utilization



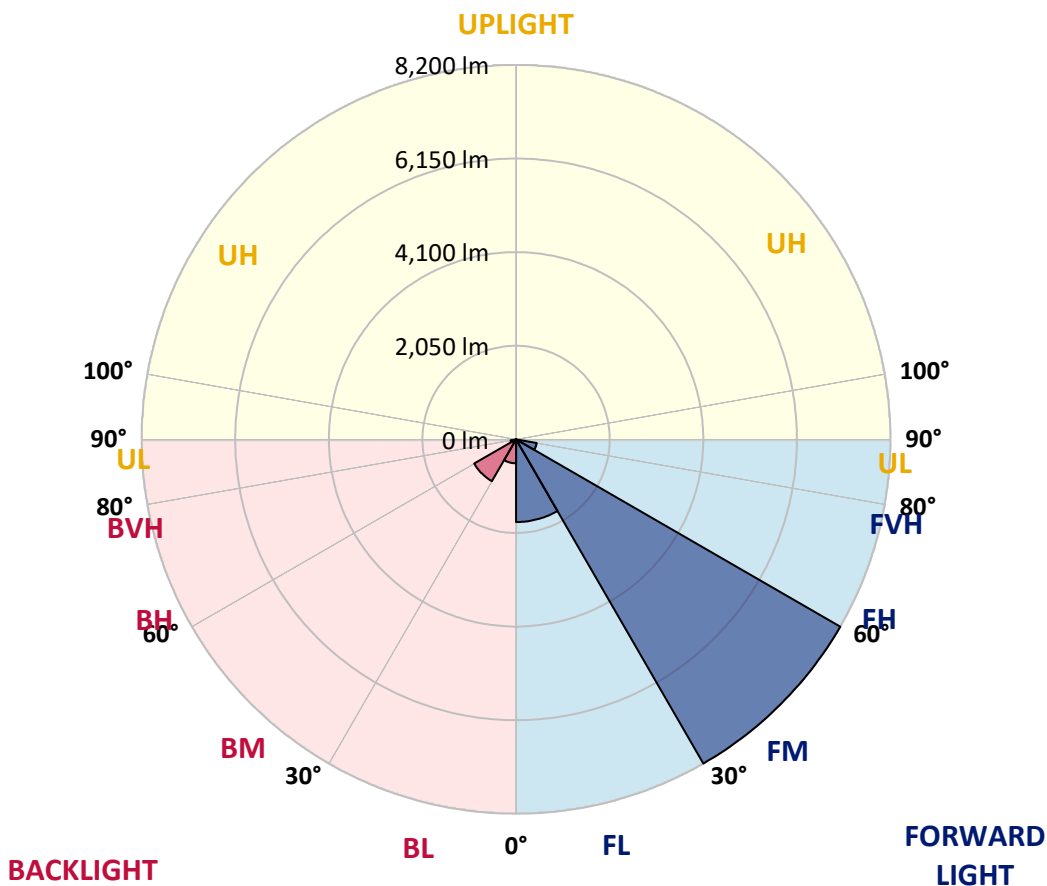
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1811.6 | 14.9 | | | |
| FM (30°-60°) | 8199.7 | 67.3 | | | |
| FH (60°-80°) | 458.6 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 525.0 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1059.1 | 8.7 | B2/2500 | | |
| BH (60°-80°) | 121.2 | 1.0 | B1/500 | | G1/500 |
| 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: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 |
| 2.5° | 2152.2 | 2118.3 | 2098.8 | 2083.2 | 2014.2 | 1904.8 | 1833.2 | 1795.4 | 1732.9 | 1627.5 | 1536.3 |
| 5° | 2808.4 | 2783.6 | 2738.1 | 2706.8 | 2618.3 | 2463.4 | 2303.2 | 2239.4 | 2097.5 | 1859.2 | 1645.7 |
| 7.5° | 3243.2 | 3225.0 | 3208.1 | 3166.4 | 3083.1 | 2942.5 | 2765.4 | 2699.0 | 2480.3 | 2141.8 | 1791.5 |
| 10° | 3577.9 | 3563.5 | 3544.0 | 3542.7 | 3477.6 | 3351.3 | 3178.1 | 3109.1 | 2872.2 | 2449.0 | 1963.4 |
| 12.5° | 3872.1 | 3860.4 | 3856.5 | 3892.9 | 3851.3 | 3757.5 | 3570.0 | 3484.1 | 3232.8 | 2762.8 | 2153.5 |
| 15° | 4073.9 | 4071.3 | 4088.2 | 4159.8 | 4183.3 | 4140.3 | 3982.8 | 3890.3 | 3601.3 | 3077.9 | 2363.1 |
| 17.5° | 4166.4 | 4174.2 | 4206.7 | 4330.4 | 4434.6 | 4471.0 | 4349.9 | 4271.8 | 3967.2 | 3396.9 | 2587.0 |
| 20° | 4323.9 | 4321.3 | 4340.8 | 4458.0 | 4585.6 | 4715.8 | 4679.3 | 4612.9 | 4336.9 | 3734.1 | 2835.7 |
| 22.5° | 4767.9 | 4730.1 | 4688.5 | 4706.7 | 4752.2 | 4904.6 | 4972.3 | 4938.4 | 4718.4 | 4080.4 | 3092.2 |
| 25° | 5450.1 | 5411.1 | 5277.0 | 5146.8 | 5060.8 | 5129.8 | 5222.3 | 5239.2 | 5097.3 | 4435.9 | 3360.4 |
| 27.5° | 6174.0 | 6138.9 | 5987.8 | 5792.5 | 5546.5 | 5426.7 | 5495.7 | 5529.5 | 5469.6 | 4859.0 | 3645.6 |
| 30° | 6852.4 | 6805.5 | 6640.1 | 6398.0 | 6112.8 | 5929.2 | 5851.1 | 5874.6 | 5909.7 | 5360.3 | 3980.2 |
| 32.5° | 7440.9 | 7405.7 | 7207.8 | 6952.6 | 6677.9 | 6486.5 | 6304.2 | 6343.3 | 6429.2 | 5973.5 | 4408.5 |
| 35° | 7939.5 | 7921.3 | 7711.7 | 7457.8 | 7167.4 | 7069.8 | 6913.5 | 6921.4 | 7007.3 | 6714.3 | 4930.6 |
| 37.5° | 8373.1 | 8341.8 | 8151.7 | 7916.1 | 7685.6 | 7670.0 | 7627.0 | 7630.9 | 7675.2 | 7577.6 | 5530.8 |
| 40° | 8646.5 | 8617.8 | 8482.4 | 8336.6 | 8172.6 | 8175.2 | 8397.8 | 8414.7 | 8364.0 | 8425.2 | 6164.9 |
| 42.5° | 8749.3 | 8728.5 | 8655.6 | 8656.9 | 8640.0 | 8716.8 | 9134.7 | 9166.0 | 8983.7 | 9090.5 | 6706.5 |
| 45° | 8571.0 | 8561.9 | 8567.1 | 8754.6 | 8957.7 | 9194.6 | 9737.6 | 9792.2 | 9534.4 | 9531.8 | 7129.7 |
| 47.5° | 7995.5 | 7977.3 | 8129.6 | 8448.6 | 8918.6 | 9379.5 | 10102.1 | 10186.7 | 9919.8 | 9784.4 | 7395.3 |
| 50° | 6868.0 | 6920.1 | 7160.9 | 7640.1 | 8354.8 | 9125.6 | 10098.2 | 10245.3 | 9934.2 | 9762.3 | 7351.0 |
| 52.5° | 4974.9 | 4964.5 | 5491.8 | 6150.6 | 7020.3 | 8313.2 | 9561.8 | 9776.6 | 9586.5 | 9544.9 | 7252.1 |
| 55° | 2706.8 | 2801.9 | 3157.3 | 4029.6 | 5115.5 | 6775.5 | 8336.6 | 8805.3 | 9025.4 | 9465.4 | 7430.4 |
| 57.5° | 994.7 | 1036.4 | 1259.0 | 1876.2 | 2708.1 | 4213.2 | 6368.0 | 7075.0 | 7754.6 | 9244.1 | 7400.5 |
| 60° | 401.0 | 408.8 | 497.4 | 690.1 | 1137.9 | 2144.4 | 3820.0 | 4447.6 | 5088.2 | 7076.3 | 5679.3 |
| 62.5° | 291.6 | 302.1 | 337.2 | 403.6 | 575.5 | 937.4 | 1647.0 | 1915.2 | 2093.6 | 3504.9 | 2798.0 |
| 65° | 235.7 | 243.5 | 272.1 | 302.1 | 380.2 | 503.9 | 531.2 | 511.7 | 509.1 | 906.2 | 641.9 |
| 67.5° | 195.3 | 203.1 | 223.9 | 244.8 | 273.4 | 251.3 | 182.3 | 191.4 | 156.2 | 154.9 | 126.3 |
| 70° | 143.2 | 152.3 | 173.2 | 195.3 | 164.1 | 67.7 | 105.5 | 156.2 | 118.5 | 99.0 | 96.3 |
| 72.5° | 108.1 | 114.6 | 134.1 | 127.6 | 48.2 | 26.0 | 70.3 | 113.3 | 91.1 | 72.9 | 71.6 |
| 75° | 80.7 | 84.6 | 67.7 | 20.8 | 5.2 | 6.5 | 26.0 | 46.9 | 50.8 | 41.7 | 41.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 3.9 | 5.2 | 6.5 | 7.8 |
| 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° | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 | 1454.3 |
| 2.5° | 1484.3 | 1429.6 | 1351.5 | 1286.4 | 1236.9 | 1188.7 | 1152.3 | 1115.8 | 1114.5 | 1096.3 | 1092.4 |
| 5° | 1546.8 | 1447.8 | 1304.6 | 1201.7 | 1139.2 | 1101.5 | 1075.4 | 1062.4 | 1055.9 | 1049.4 | 1046.8 |
| 7.5° | 1636.6 | 1494.7 | 1296.8 | 1187.4 | 1135.3 | 1110.6 | 1092.4 | 1084.6 | 1080.6 | 1075.4 | 1074.1 |
| 10° | 1747.3 | 1562.4 | 1325.4 | 1214.8 | 1169.2 | 1145.7 | 1126.2 | 1114.5 | 1108.0 | 1098.9 | 1096.3 |
| 12.5° | 1880.1 | 1645.7 | 1371.0 | 1260.3 | 1212.1 | 1180.9 | 1154.9 | 1137.9 | 1128.8 | 1117.1 | 1114.5 |
| 15° | 2023.3 | 1735.5 | 1421.8 | 1302.0 | 1244.7 | 1204.3 | 1171.8 | 1145.7 | 1128.8 | 1114.5 | 1110.6 |
| 17.5° | 2171.7 | 1826.7 | 1467.3 | 1330.6 | 1260.3 | 1212.1 | 1165.3 | 1130.1 | 1109.3 | 1091.1 | 1085.9 |
| 20° | 2338.4 | 1920.4 | 1497.3 | 1335.8 | 1255.1 | 1191.3 | 1136.6 | 1092.4 | 1071.5 | 1046.8 | 1041.6 |
| 22.5° | 2512.8 | 2007.7 | 1510.3 | 1324.1 | 1226.5 | 1152.3 | 1093.7 | 1048.1 | 1018.2 | 992.1 | 984.3 |
| 25° | 2682.1 | 2085.8 | 1503.8 | 1291.6 | 1183.5 | 1097.6 | 1037.7 | 990.8 | 958.3 | 932.2 | 925.7 |
| 27.5° | 2861.8 | 2150.9 | 1480.4 | 1243.4 | 1124.9 | 1037.7 | 980.4 | 940.0 | 910.1 | 881.4 | 874.9 |
| 30° | 3063.6 | 2210.8 | 1442.6 | 1184.8 | 1055.9 | 976.5 | 932.2 | 904.9 | 872.3 | 842.4 | 833.3 |
| 32.5° | 3307.0 | 2264.2 | 1387.9 | 1114.5 | 994.7 | 923.1 | 898.4 | 877.5 | 839.8 | 808.5 | 802.0 |
| 35° | 3585.7 | 2308.4 | 1318.9 | 1041.6 | 934.8 | 889.3 | 884.0 | 856.7 | 807.2 | 770.8 | 763.0 |
| 37.5° | 3908.6 | 2351.4 | 1236.9 | 970.0 | 890.6 | 873.6 | 874.9 | 828.1 | 768.2 | 723.9 | 718.7 |
| 40° | 4256.2 | 2394.4 | 1145.7 | 907.5 | 850.2 | 864.5 | 852.8 | 786.4 | 688.8 | 645.8 | 640.6 |
| 42.5° | 4618.1 | 2441.2 | 1053.3 | 848.9 | 816.3 | 829.4 | 812.4 | 703.1 | 632.8 | 610.6 | 608.0 |
| 45° | 4944.9 | 2497.2 | 953.1 | 790.3 | 782.5 | 778.6 | 749.9 | 636.7 | 606.7 | 591.1 | 589.8 |
| 47.5° | 5180.6 | 2488.1 | 846.3 | 734.3 | 746.0 | 733.0 | 645.8 | 605.4 | 580.7 | 559.9 | 554.6 |
| 50° | 5137.6 | 2329.3 | 735.6 | 671.8 | 699.2 | 687.4 | 580.7 | 569.0 | 546.8 | 524.7 | 516.9 |
| 52.5° | 5028.3 | 2113.1 | 639.3 | 605.4 | 648.4 | 621.0 | 536.4 | 524.7 | 505.2 | 476.5 | 467.4 |
| 55° | 5086.9 | 1910.0 | 563.8 | 552.0 | 596.3 | 514.3 | 486.9 | 468.7 | 447.9 | 416.6 | 412.7 |
| 57.5° | 4898.1 | 1558.5 | 453.1 | 460.9 | 527.3 | 438.8 | 427.1 | 398.4 | 363.3 | 342.4 | 339.8 |
| 60° | 3390.4 | 837.2 | 283.8 | 292.9 | 381.5 | 368.5 | 382.8 | 356.7 | 313.8 | 294.2 | 290.3 |
| 62.5° | 1557.2 | 335.9 | 154.9 | 148.4 | 200.5 | 250.0 | 328.1 | 325.5 | 272.1 | 240.9 | 238.3 |
| 65° | 377.6 | 153.6 | 110.7 | 104.2 | 113.3 | 149.7 | 213.5 | 256.5 | 220.0 | 183.6 | 179.7 |
| 67.5° | 122.4 | 125.0 | 101.6 | 95.0 | 100.3 | 112.0 | 127.6 | 141.9 | 140.6 | 128.9 | 126.3 |
| 70° | 97.6 | 113.3 | 93.7 | 85.9 | 85.9 | 89.8 | 85.9 | 69.0 | 59.9 | 65.1 | 67.7 |
| 72.5° | 72.9 | 85.9 | 74.2 | 66.4 | 63.8 | 62.5 | 53.4 | 39.1 | 27.3 | 24.7 | 23.4 |
| 75° | 43.0 | 48.2 | 45.6 | 39.1 | 36.5 | 32.5 | 26.0 | 16.9 | 9.1 | 6.5 | 3.9 |
| 77.5° | 7.8 | 9.1 | 10.4 | 7.8 | 6.5 | 5.2 | 3.9 | 1.3 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 1.3 | 1.3 | 1.3 | 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)