

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: P635025

Luminaire Tested: GWS-SA3C-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8300.6 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

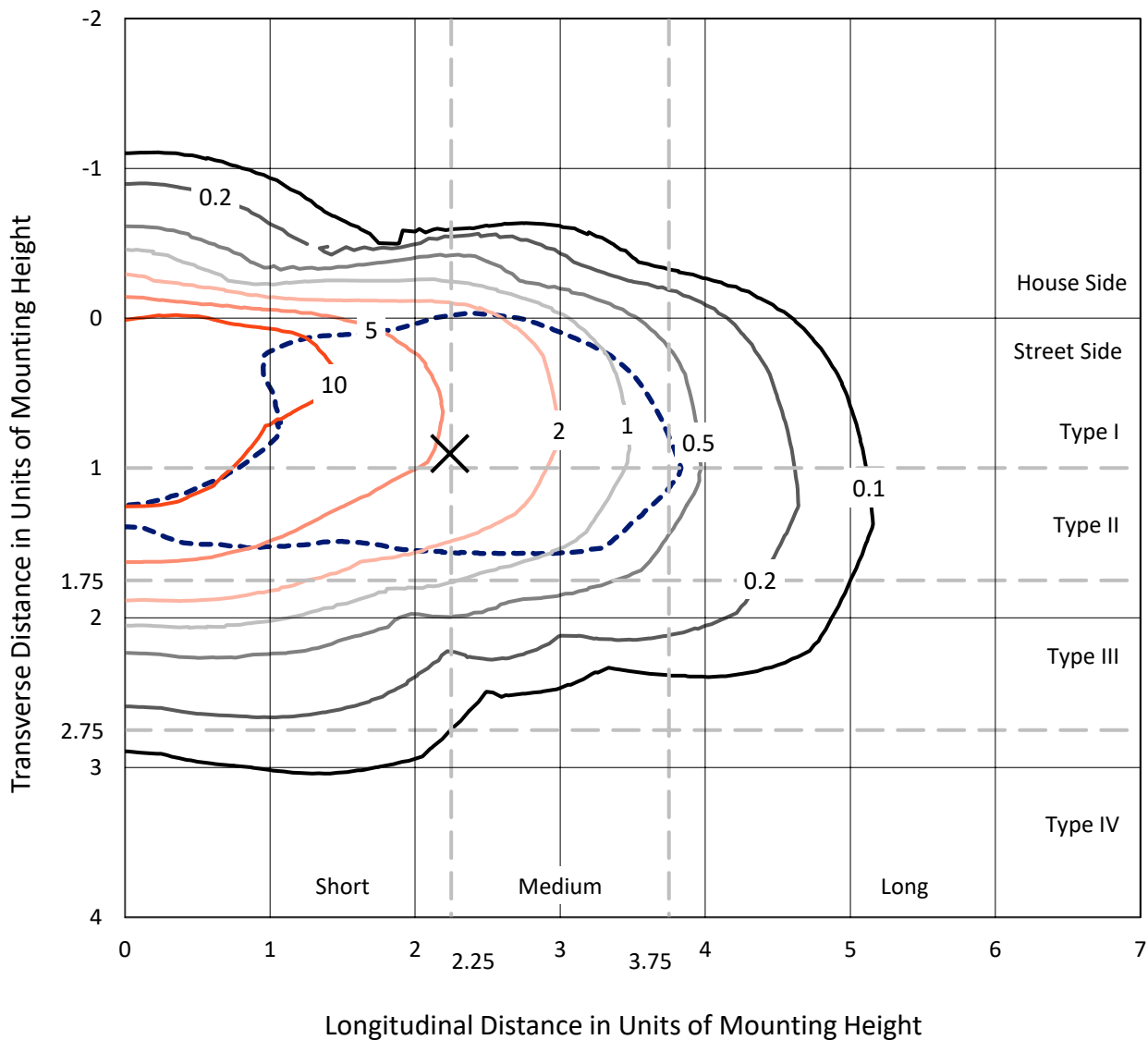
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

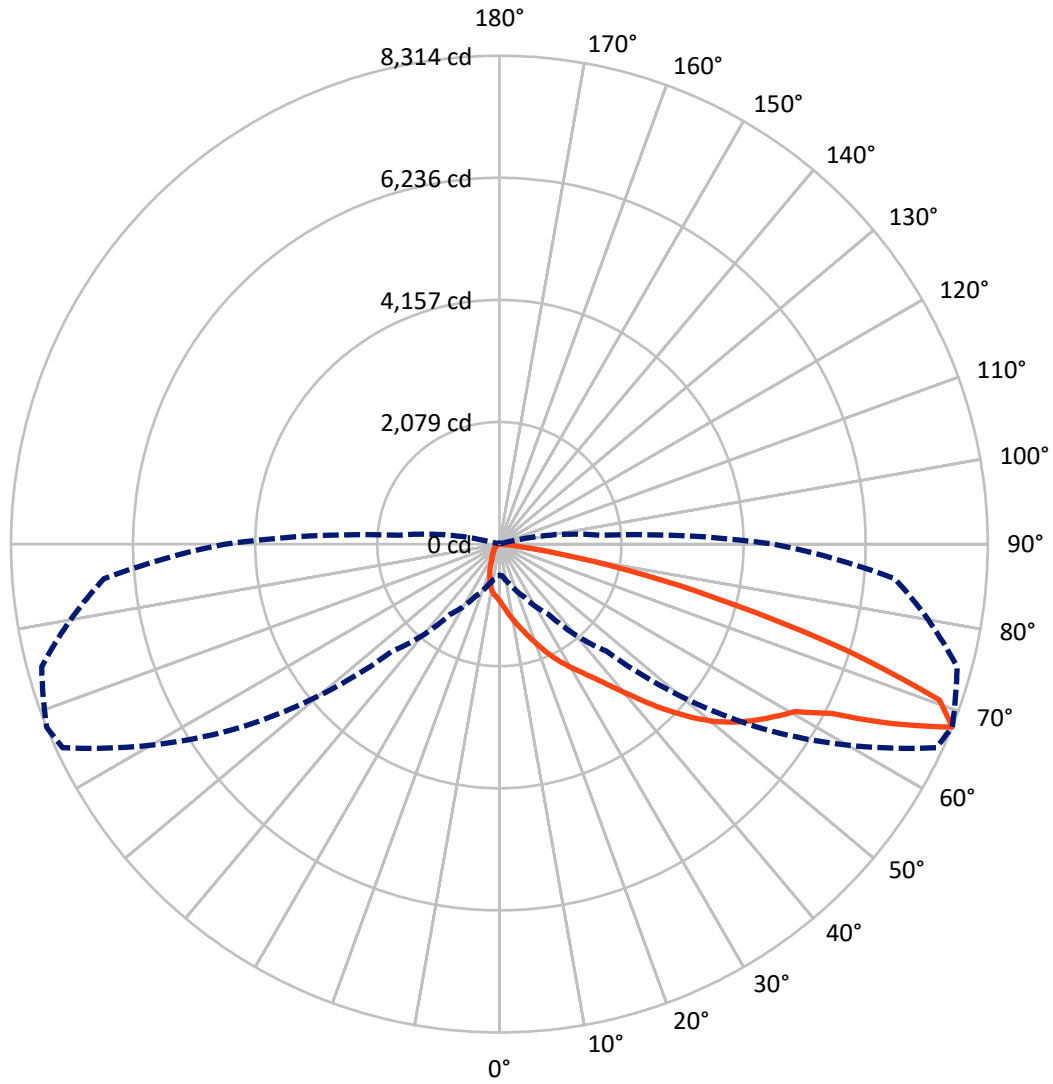
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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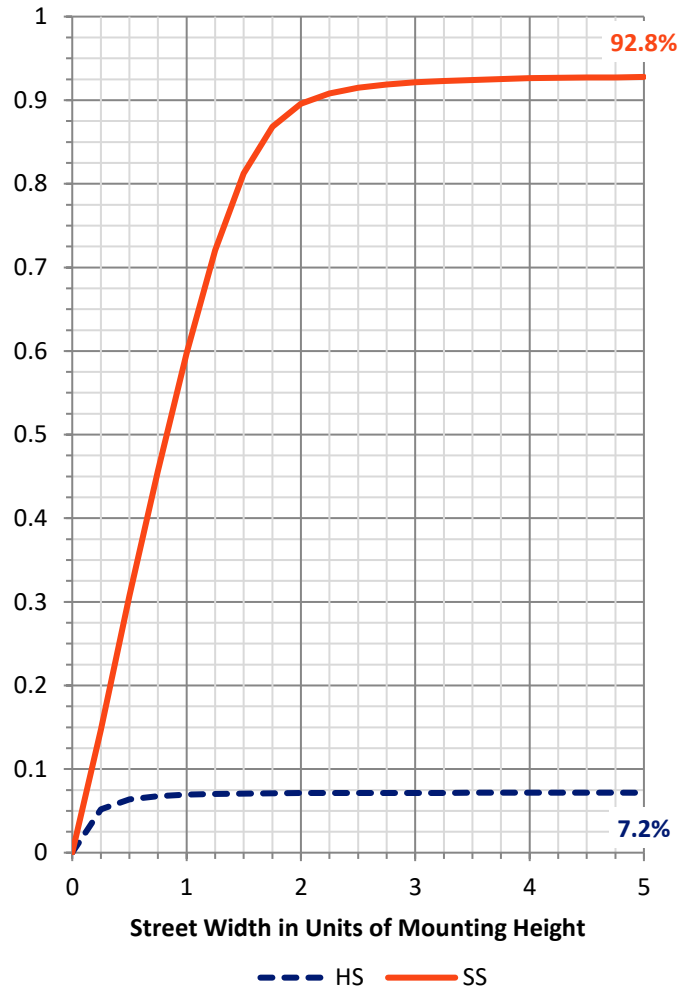
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 599.4 | 0.0 | 599.4 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 7701.2 | 0.0 | 7701.2 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 8300.6 | 0.0 | 8300.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.2 | 1.1 |
| 10°-20° | 270.6 | 3.3 |
| 20°-30° | 464.9 | 5.6 |
| 30°-40° | 808.4 | 9.7 |
| 40°-50° | 1410.5 | 17.0 |
| 50°-60° | 2127.4 | 25.6 |
| 60°-70° | 2133.2 | 25.7 |
| 70°-80° | 941.2 | 11.3 |
| 80°-90° | 50.3 | 0.6 |
| 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° | 8300.6 | 100.0 |
| 0°-180° | 8300.6 | 100.0 |

Coefficient of Utilization



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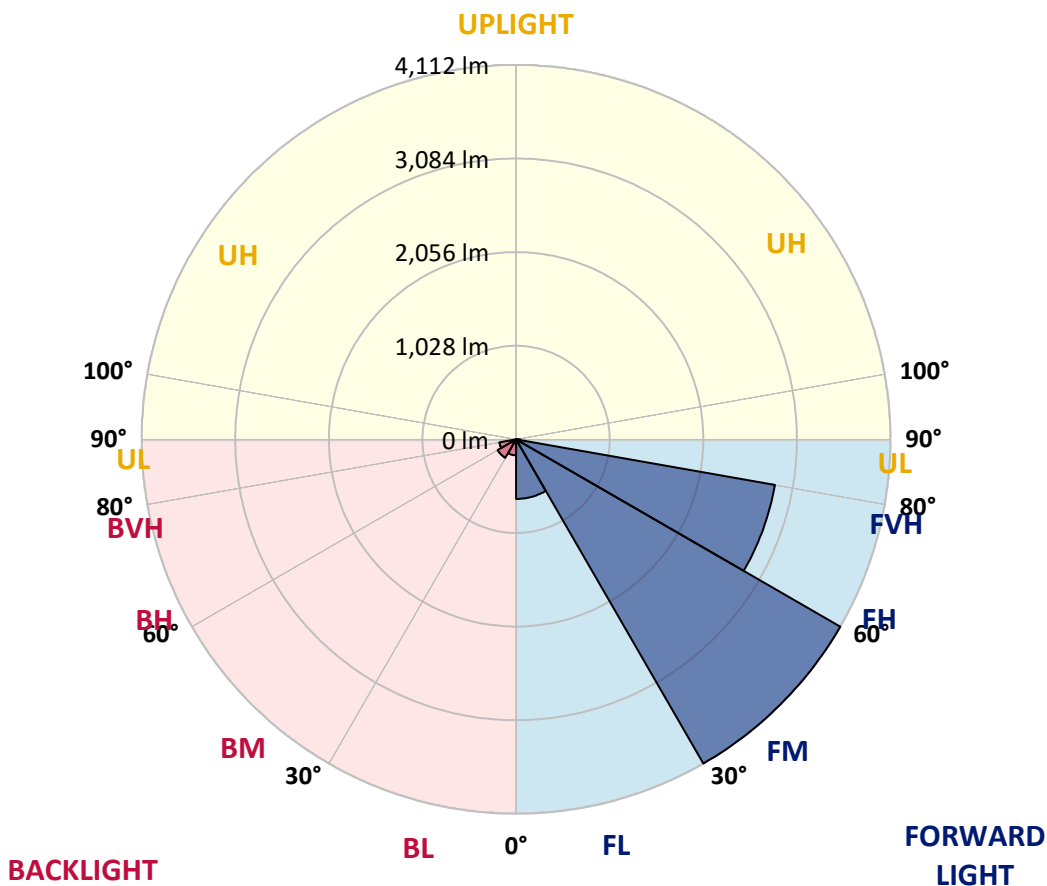
CATALOG NUMBER: GWS-SA3C-830-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 654.3 | 7.9 | | | |
| FM (30°-60°) | 4112.1 | 49.5 | | | |
| FH (60°-80°) | 2887.3 | 34.8 | | | G2/5000 |
| FVH (80°-90°) | 47.4 | 0.6 | | | G1/100 |
| BL (0°-30°) | 175.4 | 2.1 | B1/500 | | |
| BM (30°-60°) | 234.1 | 2.8 | B1/1000 | | |
| BH (60°-80°) | 187.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 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° | 68° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 |
| 2.5° | 1124.9 | 1132.0 | 1124.9 | 1126.4 | 1105.8 | 1096.3 | 1075.6 | 1047.0 | 1039.9 | 1021.6 | 993.8 |
| 5° | 1262.3 | 1268.6 | 1261.5 | 1259.9 | 1236.1 | 1218.6 | 1184.4 | 1135.2 | 1120.9 | 1085.1 | 1030.3 |
| 7.5° | 1337.0 | 1340.9 | 1343.3 | 1347.3 | 1338.5 | 1324.2 | 1293.3 | 1232.1 | 1217.0 | 1159.0 | 1082.0 |
| 10° | 1344.9 | 1348.1 | 1360.0 | 1383.8 | 1401.3 | 1410.0 | 1392.6 | 1336.2 | 1312.3 | 1255.9 | 1145.5 |
| 12.5° | 1322.7 | 1327.4 | 1346.5 | 1386.2 | 1434.7 | 1479.2 | 1490.3 | 1441.0 | 1419.6 | 1347.3 | 1220.2 |
| 15° | 1293.3 | 1297.2 | 1323.5 | 1377.5 | 1450.6 | 1532.4 | 1578.5 | 1557.0 | 1533.2 | 1457.7 | 1302.8 |
| 17.5° | 1248.0 | 1253.5 | 1290.1 | 1363.2 | 1457.7 | 1574.5 | 1673.8 | 1680.9 | 1664.2 | 1582.4 | 1394.2 |
| 20° | 1222.6 | 1226.5 | 1259.1 | 1334.6 | 1452.9 | 1605.5 | 1762.8 | 1830.3 | 1812.0 | 1726.2 | 1499.0 |
| 22.5° | 1244.0 | 1247.2 | 1268.6 | 1327.4 | 1437.1 | 1622.9 | 1845.4 | 1979.6 | 1969.3 | 1880.3 | 1609.4 |
| 25° | 1356.8 | 1367.1 | 1354.4 | 1364.8 | 1444.2 | 1632.5 | 1912.1 | 2129.0 | 2131.3 | 2041.6 | 1723.8 |
| 27.5° | 1585.6 | 1572.1 | 1541.9 | 1490.3 | 1499.8 | 1657.9 | 1969.3 | 2269.6 | 2290.2 | 2198.9 | 1825.5 |
| 30° | 1818.4 | 1810.4 | 1792.1 | 1711.9 | 1645.2 | 1714.3 | 2017.8 | 2413.4 | 2445.9 | 2353.8 | 1916.1 |
| 32.5° | 2079.7 | 2087.7 | 2055.1 | 1959.0 | 1845.4 | 1828.7 | 2067.8 | 2550.0 | 2611.2 | 2529.3 | 2022.5 |
| 35° | 2391.9 | 2394.3 | 2329.9 | 2223.5 | 2094.8 | 2017.8 | 2157.6 | 2700.9 | 2813.7 | 2753.4 | 2164.7 |
| 37.5° | 2696.2 | 2710.5 | 2675.5 | 2507.9 | 2393.5 | 2252.9 | 2306.1 | 2894.8 | 3053.6 | 3029.8 | 2343.5 |
| 40° | 2965.5 | 2987.7 | 2976.6 | 2814.5 | 2664.4 | 2546.0 | 2536.5 | 3122.0 | 3343.6 | 3370.6 | 2579.4 |
| 42.5° | 3179.9 | 3194.2 | 3203.0 | 3087.8 | 2955.1 | 2888.4 | 2820.9 | 3385.7 | 3686.0 | 3796.4 | 2868.5 |
| 45° | 3406.3 | 3411.1 | 3429.4 | 3351.5 | 3235.6 | 3241.1 | 3156.9 | 3705.8 | 4046.6 | 4268.3 | 3200.6 |
| 47.5° | 3694.7 | 3710.6 | 3701.9 | 3620.0 | 3515.2 | 3577.9 | 3504.1 | 4035.5 | 4402.5 | 4771.9 | 3540.6 |
| 50° | 4045.8 | 4062.5 | 4054.6 | 3959.2 | 3842.5 | 3868.7 | 3822.6 | 4355.6 | 4745.7 | 5246.9 | 3823.4 |
| 52.5° | 4227.0 | 4240.5 | 4339.0 | 4381.9 | 4320.7 | 4153.9 | 4094.3 | 4707.6 | 5035.6 | 5637.8 | 4083.2 |
| 55° | 4139.6 | 4149.1 | 4363.6 | 4544.7 | 4768.7 | 4601.9 | 4367.6 | 4979.2 | 5291.4 | 5942.8 | 4276.2 |
| 57.5° | 3777.3 | 3829.0 | 4120.5 | 4427.1 | 4898.2 | 5044.4 | 4810.8 | 5274.8 | 5537.7 | 6154.9 | 4466.1 |
| 60° | 3034.6 | 3032.2 | 3450.0 | 4000.6 | 4645.6 | 5165.9 | 5436.8 | 5674.3 | 5784.8 | 6317.8 | 4720.3 |
| 62.5° | 1677.0 | 1692.1 | 2248.1 | 2973.4 | 3943.4 | 4851.3 | 5906.3 | 6364.7 | 6348.0 | 6602.2 | 5118.3 |
| 65° | 834.9 | 865.1 | 1167.0 | 1703.2 | 2623.9 | 4009.3 | 5987.3 | 7418.0 | 7370.4 | 7271.9 | 5940.5 |
| 67.5° | 529.9 | 541.8 | 708.6 | 989.8 | 1458.5 | 2577.0 | 5482.9 | 8203.7 | 8314.1 | 8066.2 | 6756.3 |
| 70° | 343.2 | 363.0 | 492.5 | 676.8 | 880.2 | 1328.2 | 4016.4 | 7694.5 | 7947.9 | 7978.9 | 6247.9 |
| 72.5° | 186.7 | 201.0 | 314.6 | 483.0 | 635.5 | 664.1 | 2256.1 | 5774.4 | 6181.9 | 6768.2 | 4887.9 |
| 75° | 106.4 | 116.8 | 172.4 | 328.1 | 466.3 | 404.3 | 1000.1 | 3865.5 | 4125.3 | 4837.0 | 3502.5 |
| 77.5° | 64.3 | 73.1 | 96.9 | 159.7 | 292.3 | 270.1 | 378.1 | 2353.0 | 2518.2 | 2886.0 | 1838.2 |
| 80° | 29.4 | 35.0 | 61.2 | 88.2 | 159.7 | 127.9 | 144.6 | 1097.1 | 1132.8 | 1184.4 | 608.5 |
| 82.5° | 13.5 | 15.9 | 27.8 | 52.4 | 90.6 | 73.9 | 55.6 | 253.4 | 356.7 | 337.6 | 154.9 |
| 85° | 1.6 | 1.6 | 10.3 | 21.4 | 25.4 | 19.1 | 23.0 | 57.2 | 72.3 | 101.7 | 44.5 |
| 87.5° | 0.0 | 0.0 | 0.8 | 0.8 | 1.6 | 2.4 | 4.8 | 7.1 | 10.3 | 16.7 | 11.1 |
| 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° | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 | 966.0 |
| 2.5° | 981.1 | 958.8 | 939.0 | 909.6 | 889.7 | 867.5 | 852.4 | 834.1 | 827.0 | 821.4 | 813.5 |
| 5° | 1003.3 | 967.6 | 919.1 | 865.1 | 820.6 | 778.5 | 739.6 | 714.2 | 691.9 | 688.7 | 677.6 |
| 7.5° | 1039.9 | 986.6 | 904.8 | 816.6 | 741.2 | 671.3 | 616.4 | 572.0 | 549.7 | 542.6 | 529.9 |
| 10° | 1088.3 | 1015.2 | 883.4 | 748.3 | 639.5 | 556.1 | 494.1 | 444.1 | 409.1 | 396.4 | 386.9 |
| 12.5° | 1142.3 | 1041.4 | 849.2 | 664.1 | 540.2 | 444.9 | 366.2 | 313.0 | 290.7 | 282.8 | 275.7 |
| 15° | 1204.3 | 1066.1 | 795.2 | 579.9 | 443.3 | 327.3 | 271.7 | 248.6 | 239.1 | 236.7 | 234.3 |
| 17.5° | 1263.9 | 1082.0 | 730.8 | 492.5 | 340.8 | 254.2 | 228.0 | 219.3 | 216.9 | 214.5 | 212.9 |
| 20° | 1331.4 | 1093.1 | 655.4 | 409.9 | 264.5 | 215.3 | 202.6 | 196.2 | 191.4 | 186.7 | 185.9 |
| 22.5° | 1400.5 | 1093.1 | 573.5 | 328.9 | 221.6 | 193.0 | 178.7 | 166.8 | 158.1 | 153.3 | 151.7 |
| 25° | 1466.4 | 1078.0 | 492.5 | 262.9 | 195.4 | 171.6 | 153.3 | 139.8 | 127.9 | 122.3 | 120.7 |
| 27.5° | 1513.3 | 1039.1 | 421.8 | 222.4 | 177.1 | 152.5 | 130.3 | 115.2 | 105.7 | 100.1 | 99.3 |
| 30° | 1542.7 | 981.1 | 356.7 | 198.6 | 161.3 | 132.7 | 110.4 | 97.7 | 90.6 | 86.6 | 85.0 |
| 32.5° | 1564.9 | 909.6 | 298.7 | 181.9 | 146.2 | 115.2 | 96.1 | 85.8 | 79.4 | 76.3 | 75.5 |
| 35° | 1609.4 | 842.1 | 255.8 | 166.8 | 130.3 | 100.9 | 84.2 | 76.3 | 71.5 | 67.5 | 66.7 |
| 37.5° | 1671.4 | 785.7 | 221.6 | 153.3 | 115.2 | 89.8 | 76.3 | 69.1 | 65.1 | 61.2 | 60.4 |
| 40° | 1762.8 | 749.9 | 196.2 | 139.8 | 101.7 | 81.0 | 69.9 | 63.6 | 58.0 | 54.0 | 53.2 |
| 42.5° | 1903.4 | 733.2 | 179.5 | 126.3 | 89.8 | 73.1 | 64.3 | 56.4 | 50.8 | 46.9 | 46.1 |
| 45° | 2071.0 | 742.0 | 165.2 | 112.8 | 81.8 | 67.5 | 57.2 | 49.3 | 43.7 | 39.7 | 38.9 |
| 47.5° | 2250.5 | 772.9 | 153.3 | 100.1 | 73.9 | 62.0 | 50.8 | 42.1 | 37.3 | 33.4 | 32.6 |
| 50° | 2438.0 | 823.8 | 143.0 | 88.2 | 67.5 | 55.6 | 43.7 | 36.5 | 31.8 | 28.6 | 27.8 |
| 52.5° | 2600.8 | 892.9 | 132.7 | 79.4 | 62.0 | 49.3 | 38.1 | 31.8 | 27.0 | 23.8 | 23.0 |
| 55° | 2756.5 | 958.0 | 124.7 | 71.5 | 55.6 | 42.9 | 33.4 | 27.0 | 23.0 | 19.9 | 19.1 |
| 57.5° | 2925.7 | 1027.1 | 115.2 | 64.3 | 50.0 | 38.1 | 29.4 | 23.0 | 19.9 | 16.7 | 15.9 |
| 60° | 3172.0 | 1129.6 | 100.9 | 58.8 | 43.7 | 33.4 | 25.4 | 20.7 | 17.5 | 13.5 | 12.7 |
| 62.5° | 3527.1 | 1316.3 | 85.0 | 50.8 | 37.3 | 28.6 | 21.4 | 17.5 | 14.3 | 11.1 | 9.5 |
| 65° | 4191.2 | 1634.1 | 69.9 | 42.1 | 30.2 | 23.8 | 18.3 | 14.3 | 11.1 | 7.9 | 7.1 |
| 67.5° | 4669.4 | 1716.7 | 56.4 | 34.2 | 24.6 | 18.3 | 15.1 | 11.1 | 7.9 | 5.6 | 4.8 |
| 70° | 4082.4 | 1232.9 | 43.7 | 27.8 | 20.7 | 14.3 | 11.9 | 8.7 | 5.6 | 4.0 | 3.2 |
| 72.5° | 3075.9 | 805.5 | 32.6 | 21.4 | 15.9 | 11.9 | 8.7 | 7.1 | 4.8 | 3.2 | 2.4 |
| 75° | 2167.9 | 465.5 | 23.8 | 15.9 | 11.1 | 8.7 | 7.1 | 5.6 | 4.0 | 2.4 | 2.4 |
| 77.5° | 1111.4 | 192.2 | 16.7 | 11.1 | 7.9 | 5.6 | 4.8 | 3.2 | 3.2 | 2.4 | 1.6 |
| 80° | 337.6 | 63.6 | 9.5 | 7.1 | 5.6 | 4.0 | 2.4 | 2.4 | 2.4 | 1.6 | 0.8 |
| 82.5° | 77.1 | 20.7 | 5.6 | 5.6 | 4.0 | 3.2 | 2.4 | 0.8 | 0.8 | 0.0 | 0.0 |
| 85° | 19.9 | 6.4 | 4.8 | 4.0 | 4.0 | 3.2 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.1 | 4.0 | 4.0 | 4.0 | 3.2 | 2.4 | 1.6 | 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)