

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: P634261

Luminaire Tested: GWS-SA3B-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6335 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

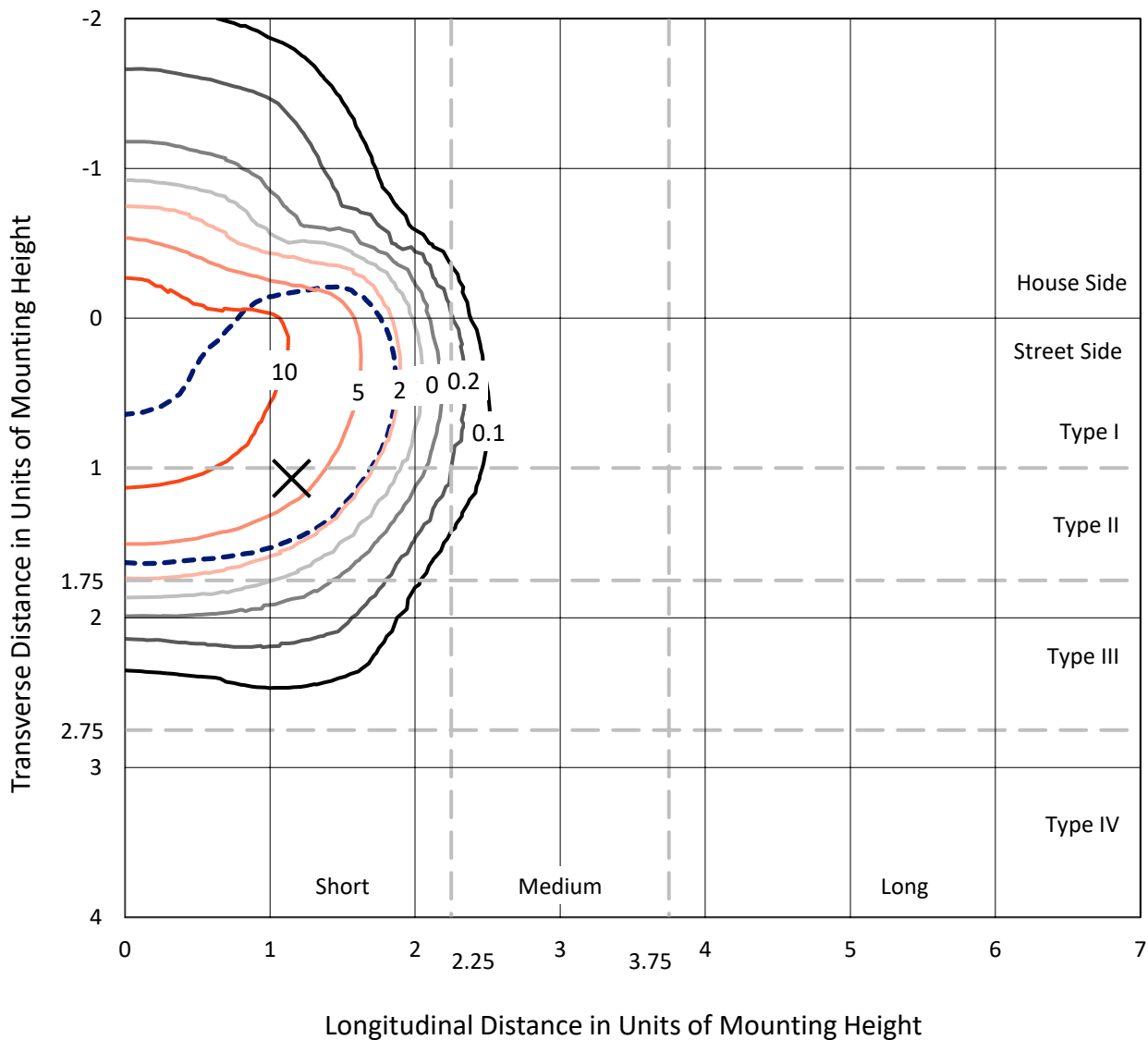
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

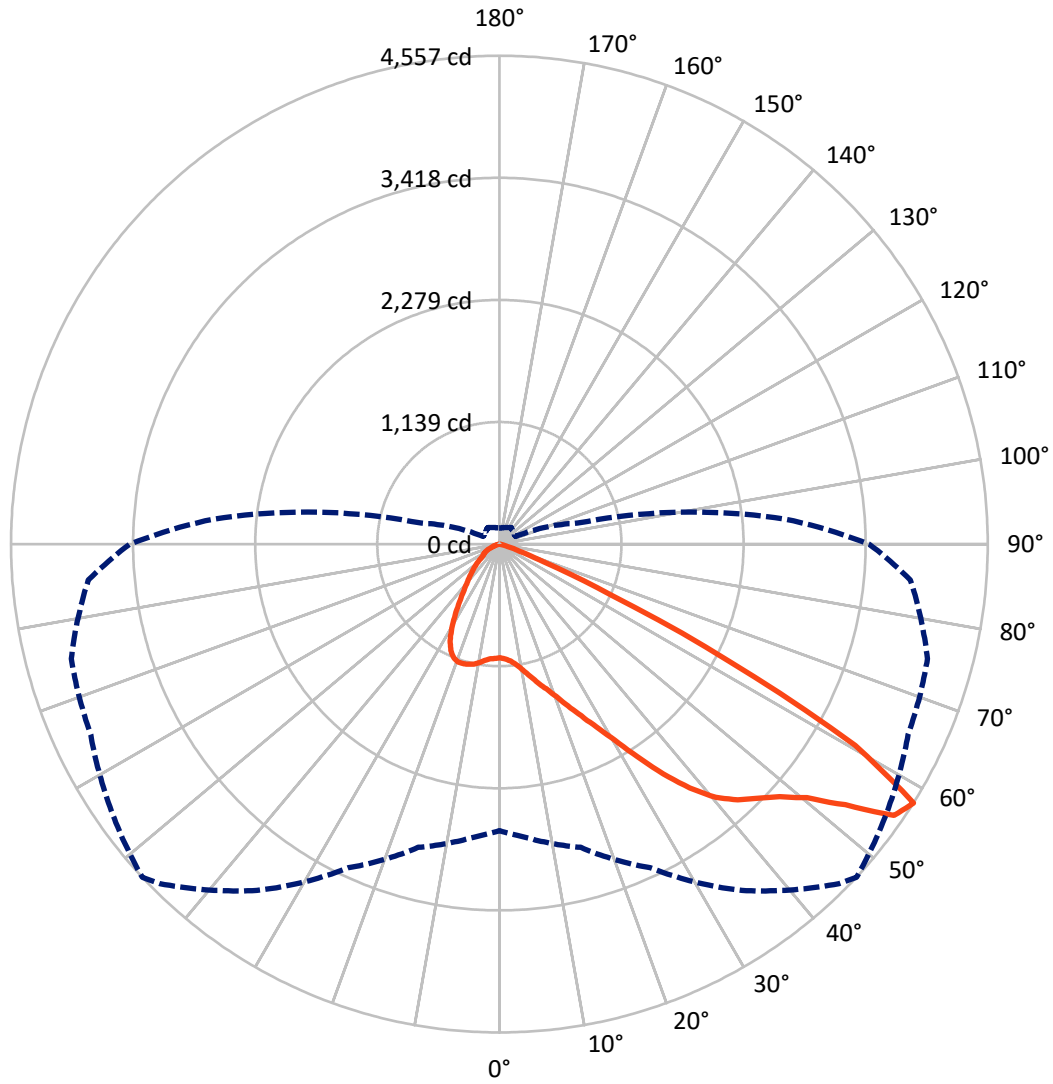
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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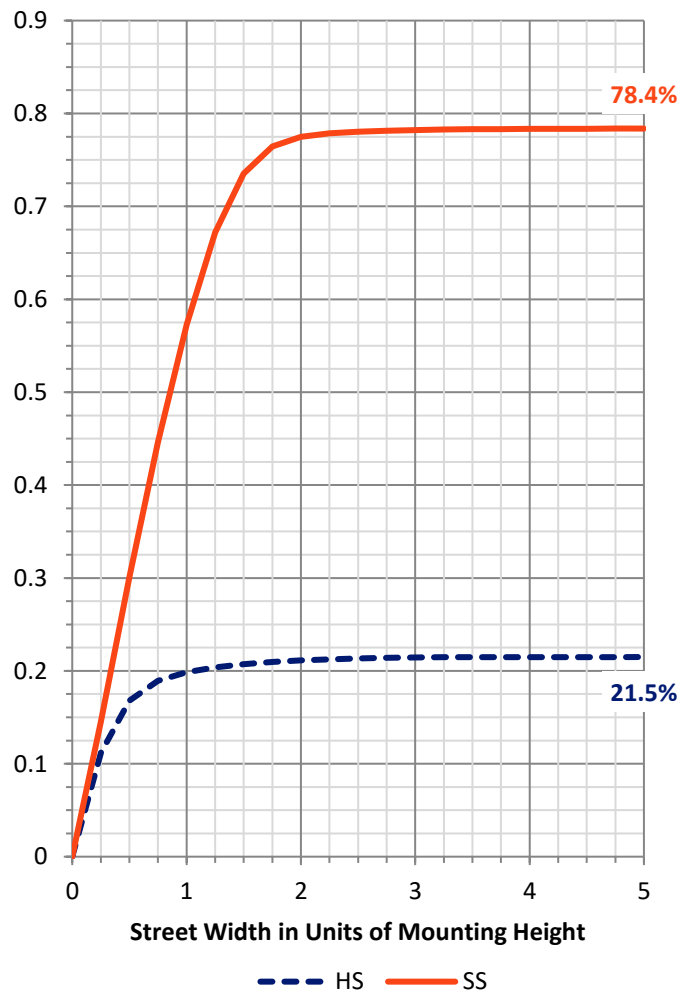
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1374.4 | 0.0 | 1374.4 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 4960.6 | 0.0 | 4960.6 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 6335.0 | 0.0 | 6335.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.5 | 1.7 |
| 10°-20° | 356.0 | 5.6 |
| 20°-30° | 661.0 | 10.4 |
| 30°-40° | 1058.2 | 16.7 |
| 40°-50° | 1546.8 | 24.4 |
| 50°-60° | 1909.0 | 30.1 |
| 60°-70° | 637.9 | 10.1 |
| 70°-80° | 59.4 | 0.9 |
| 80°-90° | 1.2 | 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° | 6335.0 | 100.0 |
| 0°-180° | 6335.0 | 100.0 |

Coefficient of Utilization



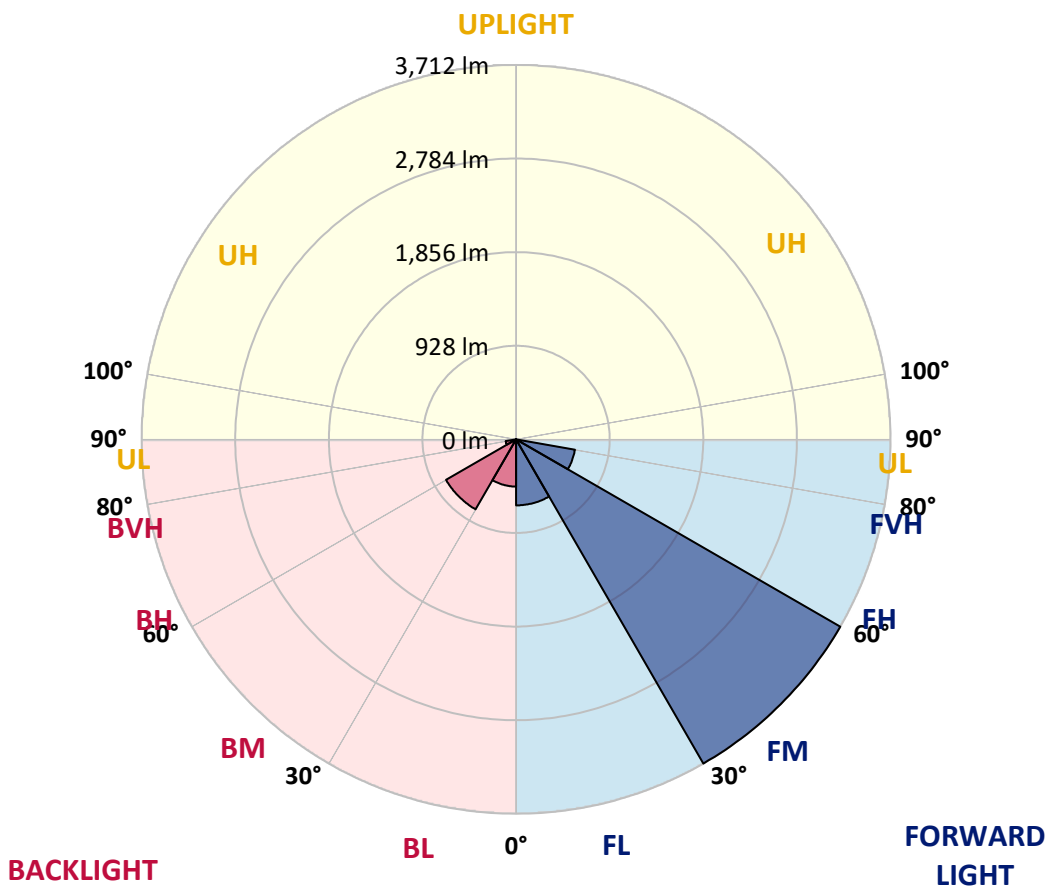
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 654.7 | 10.3 | | | |
| FM (30°-60°) | 3712.3 | 58.6 | | | |
| FH (60°-80°) | 592.8 | 9.4 | | | G0/660 |
| FVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 467.8 | 7.4 | B1/500 | | |
| BM (30°-60°) | 801.7 | 12.7 | B1/1000 | | |
| BH (60°-80°) | 104.5 | 1.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 |
| 2.5° | 1071.5 | 1070.8 | 1070.0 | 1074.5 | 1073.0 | 1072.3 | 1073.7 | 1073.7 | 1073.7 | 1069.3 | 1060.5 |
| 5° | 1097.3 | 1097.3 | 1096.5 | 1100.9 | 1097.3 | 1095.1 | 1095.8 | 1095.8 | 1092.8 | 1084.8 | 1073.7 |
| 7.5° | 1137.7 | 1136.2 | 1134.8 | 1139.2 | 1135.5 | 1134.8 | 1136.2 | 1131.8 | 1126.7 | 1113.4 | 1098.0 |
| 10° | 1195.8 | 1195.8 | 1193.6 | 1198.0 | 1195.1 | 1193.6 | 1193.6 | 1190.7 | 1181.1 | 1160.5 | 1137.7 |
| 12.5° | 1276.0 | 1272.3 | 1267.1 | 1263.5 | 1262.0 | 1261.3 | 1262.0 | 1257.6 | 1247.3 | 1220.8 | 1189.2 |
| 15° | 1363.5 | 1360.5 | 1352.5 | 1346.6 | 1338.5 | 1337.0 | 1341.4 | 1337.7 | 1327.4 | 1291.4 | 1246.5 |
| 17.5° | 1473.8 | 1477.5 | 1456.9 | 1444.4 | 1420.8 | 1419.4 | 1420.8 | 1426.7 | 1419.4 | 1373.0 | 1307.6 |
| 20° | 1567.9 | 1570.9 | 1555.4 | 1546.6 | 1525.3 | 1515.7 | 1518.7 | 1528.2 | 1520.1 | 1465.7 | 1374.5 |
| 22.5° | 1668.7 | 1672.4 | 1656.2 | 1637.8 | 1628.2 | 1628.2 | 1639.3 | 1652.5 | 1641.5 | 1570.1 | 1451.0 |
| 25° | 1789.3 | 1792.2 | 1779.0 | 1754.7 | 1737.8 | 1759.1 | 1775.3 | 1810.6 | 1792.2 | 1695.2 | 1541.5 |
| 27.5° | 1927.6 | 1928.3 | 1909.2 | 1884.2 | 1875.3 | 1915.1 | 1931.2 | 1985.7 | 1978.3 | 1835.6 | 1637.1 |
| 30° | 2075.4 | 2076.1 | 2071.7 | 2054.8 | 2046.7 | 2098.9 | 2121.0 | 2199.7 | 2194.5 | 2009.9 | 1767.2 |
| 32.5° | 2229.1 | 2229.1 | 2237.2 | 2235.7 | 2245.3 | 2330.6 | 2365.9 | 2455.6 | 2450.4 | 2223.2 | 1929.0 |
| 35° | 2383.5 | 2384.3 | 2398.2 | 2433.5 | 2473.2 | 2586.5 | 2632.8 | 2741.7 | 2729.9 | 2478.4 | 2135.7 |
| 37.5° | 2559.3 | 2551.9 | 2571.1 | 2624.0 | 2712.3 | 2843.2 | 2887.3 | 2991.0 | 2977.7 | 2739.5 | 2405.6 |
| 40° | 2771.1 | 2757.9 | 2757.9 | 2819.6 | 2919.6 | 3070.4 | 3107.9 | 3159.4 | 3114.5 | 2950.5 | 2670.3 |
| 42.5° | 3005.0 | 2992.5 | 2976.3 | 3030.7 | 3114.5 | 3232.2 | 3263.1 | 3249.1 | 3212.3 | 3149.8 | 2971.9 |
| 45° | 3241.8 | 3222.6 | 3233.7 | 3266.8 | 3315.3 | 3371.2 | 3383.0 | 3318.2 | 3301.3 | 3319.0 | 3221.2 |
| 47.5° | 3421.9 | 3408.7 | 3435.9 | 3482.2 | 3522.0 | 3530.0 | 3522.0 | 3432.2 | 3430.8 | 3493.3 | 3394.0 |
| 50° | 3482.2 | 3483.7 | 3558.7 | 3660.2 | 3724.2 | 3730.8 | 3719.8 | 3616.8 | 3602.9 | 3621.2 | 3487.4 |
| 52.5° | 3488.1 | 3494.0 | 3603.6 | 3797.0 | 3971.3 | 4050.7 | 4041.9 | 3930.9 | 3794.1 | 3774.2 | 3628.6 |
| 55° | 3346.2 | 3380.8 | 3533.7 | 3816.1 | 4186.8 | 4440.5 | 4469.9 | 4257.4 | 4054.4 | 4037.5 | 3932.3 |
| 57.5° | 2674.7 | 2745.3 | 2929.9 | 3332.2 | 3946.3 | 4481.0 | 4557.4 | 4404.5 | 4208.1 | 4136.0 | 3850.7 |
| 60° | 1598.8 | 1686.3 | 1863.6 | 2357.0 | 3003.5 | 3683.0 | 3814.7 | 3836.0 | 3745.5 | 3537.4 | 2954.2 |
| 62.5° | 686.2 | 678.8 | 897.2 | 1275.2 | 1786.4 | 2340.9 | 2400.4 | 2493.1 | 2571.8 | 2354.1 | 1793.0 |
| 65° | 235.3 | 255.9 | 355.9 | 575.1 | 894.3 | 1087.0 | 1139.9 | 1223.0 | 1334.8 | 1101.7 | 656.7 |
| 67.5° | 145.6 | 154.4 | 205.2 | 339.8 | 482.4 | 475.1 | 451.6 | 438.3 | 426.5 | 292.0 | 180.2 |
| 70° | 105.9 | 113.3 | 144.1 | 233.9 | 324.3 | 228.0 | 197.8 | 160.3 | 178.0 | 164.0 | 128.0 |
| 72.5° | 71.3 | 77.2 | 99.3 | 141.9 | 166.2 | 111.0 | 103.0 | 116.9 | 141.2 | 134.6 | 104.4 |
| 75° | 42.7 | 46.3 | 56.6 | 69.1 | 67.7 | 57.4 | 58.1 | 82.4 | 108.1 | 100.8 | 74.3 |
| 77.5° | 29.4 | 30.9 | 37.5 | 44.9 | 33.1 | 17.7 | 16.2 | 22.8 | 36.8 | 36.8 | 25.0 |
| 80° | 7.4 | 9.6 | 9.6 | 5.9 | 5.1 | 4.4 | 4.4 | 6.6 | 10.3 | 7.4 | 3.7 |
| 82.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.5 | 1.5 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.5 | 1.5 |
| 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° | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 | 1060.5 |
| 2.5° | 1065.6 | 1056.8 | 1062.7 | 1061.2 | 1065.6 | 1067.1 | 1060.5 | 1059.0 | 1059.8 | 1050.9 | 1048.0 |
| 5° | 1075.9 | 1065.6 | 1068.6 | 1065.6 | 1070.8 | 1075.2 | 1073.0 | 1075.9 | 1079.6 | 1073.0 | 1070.0 |
| 7.5° | 1098.0 | 1087.7 | 1087.0 | 1082.5 | 1089.9 | 1092.8 | 1092.1 | 1100.2 | 1107.6 | 1103.1 | 1098.7 |
| 10° | 1136.2 | 1122.3 | 1120.8 | 1117.1 | 1119.3 | 1121.5 | 1113.4 | 1114.9 | 1121.5 | 1116.4 | 1114.2 |
| 12.5° | 1183.3 | 1166.4 | 1162.7 | 1153.9 | 1153.9 | 1142.9 | 1125.2 | 1121.5 | 1126.7 | 1123.0 | 1119.3 |
| 15° | 1234.0 | 1211.2 | 1205.4 | 1189.9 | 1175.2 | 1154.6 | 1136.2 | 1131.8 | 1135.5 | 1131.1 | 1128.1 |
| 17.5° | 1290.7 | 1264.9 | 1245.8 | 1218.6 | 1186.2 | 1162.0 | 1141.4 | 1131.8 | 1125.9 | 1117.1 | 1116.4 |
| 20° | 1346.6 | 1312.7 | 1280.4 | 1237.0 | 1194.3 | 1157.6 | 1123.7 | 1098.7 | 1077.4 | 1064.2 | 1059.0 |
| 22.5° | 1411.3 | 1361.3 | 1309.1 | 1248.0 | 1187.0 | 1131.1 | 1071.5 | 1028.9 | 992.1 | 979.6 | 973.7 |
| 25° | 1480.4 | 1415.7 | 1337.7 | 1258.3 | 1162.0 | 1072.3 | 991.4 | 928.1 | 879.6 | 863.4 | 856.8 |
| 27.5° | 1556.9 | 1467.9 | 1367.2 | 1256.1 | 1110.5 | 988.4 | 881.0 | 802.4 | 754.5 | 739.8 | 745.0 |
| 30° | 1654.0 | 1535.6 | 1403.9 | 1233.3 | 1033.3 | 870.7 | 745.0 | 678.8 | 642.8 | 628.8 | 629.5 |
| 32.5° | 1783.4 | 1632.6 | 1457.6 | 1184.8 | 934.0 | 736.9 | 626.6 | 578.0 | 553.8 | 535.4 | 533.9 |
| 35° | 1968.7 | 1780.5 | 1507.6 | 1106.8 | 813.4 | 617.8 | 537.6 | 499.4 | 465.5 | 444.2 | 447.9 |
| 37.5° | 2190.8 | 1966.5 | 1534.8 | 1001.7 | 678.1 | 525.1 | 470.7 | 431.7 | 393.5 | 361.8 | 365.5 |
| 40° | 2454.1 | 2210.0 | 1532.6 | 863.4 | 554.5 | 461.8 | 414.8 | 369.2 | 321.4 | 292.7 | 295.6 |
| 42.5° | 2747.6 | 2440.1 | 1484.8 | 717.0 | 459.6 | 410.4 | 361.1 | 303.7 | 257.4 | 239.7 | 240.5 |
| 45° | 3002.0 | 2626.9 | 1401.0 | 565.5 | 386.8 | 360.4 | 305.2 | 246.4 | 225.8 | 213.3 | 212.5 |
| 47.5° | 3190.3 | 2763.7 | 1281.1 | 444.9 | 328.0 | 314.8 | 250.8 | 220.6 | 204.4 | 194.2 | 192.7 |
| 50° | 3295.4 | 2811.5 | 1148.7 | 348.6 | 277.3 | 267.0 | 224.3 | 200.0 | 189.0 | 182.4 | 180.9 |
| 52.5° | 3436.7 | 2868.9 | 1053.9 | 275.0 | 232.4 | 218.4 | 206.7 | 186.1 | 178.7 | 173.6 | 171.4 |
| 55° | 3660.2 | 2980.0 | 971.5 | 218.4 | 193.4 | 190.5 | 194.9 | 178.0 | 173.6 | 165.5 | 162.5 |
| 57.5° | 3449.9 | 2677.0 | 754.5 | 169.1 | 163.3 | 174.3 | 188.3 | 169.9 | 158.9 | 151.5 | 148.6 |
| 60° | 2427.6 | 1779.7 | 379.5 | 136.1 | 145.6 | 163.3 | 177.2 | 153.7 | 142.7 | 144.1 | 142.7 |
| 62.5° | 1338.5 | 890.6 | 170.6 | 114.0 | 126.5 | 144.1 | 151.5 | 133.1 | 125.8 | 138.3 | 140.5 |
| 65° | 437.6 | 303.0 | 98.5 | 88.3 | 100.0 | 117.7 | 130.9 | 126.5 | 125.0 | 139.7 | 144.1 |
| 67.5° | 134.6 | 100.0 | 66.9 | 63.2 | 69.1 | 86.8 | 110.3 | 136.8 | 147.1 | 151.5 | 153.7 |
| 70° | 100.8 | 78.7 | 57.4 | 53.7 | 56.6 | 66.2 | 93.4 | 114.0 | 107.4 | 108.1 | 106.6 |
| 72.5° | 80.9 | 62.5 | 49.3 | 47.1 | 47.1 | 45.6 | 49.3 | 61.8 | 69.9 | 73.5 | 73.5 |
| 75° | 56.6 | 44.1 | 37.5 | 34.6 | 27.2 | 22.1 | 19.9 | 19.9 | 17.7 | 16.9 | 16.2 |
| 77.5° | 19.1 | 16.2 | 14.7 | 11.8 | 8.1 | 6.6 | 5.9 | 5.1 | 3.7 | 2.2 | 1.5 |
| 80° | 2.9 | 2.2 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.5 | 1.5 | 1.5 | 1.5 | 0.7 | 0.7 | 0.7 | 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)