

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: P634517

Luminaire Tested: GWS-SA3B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510.4 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

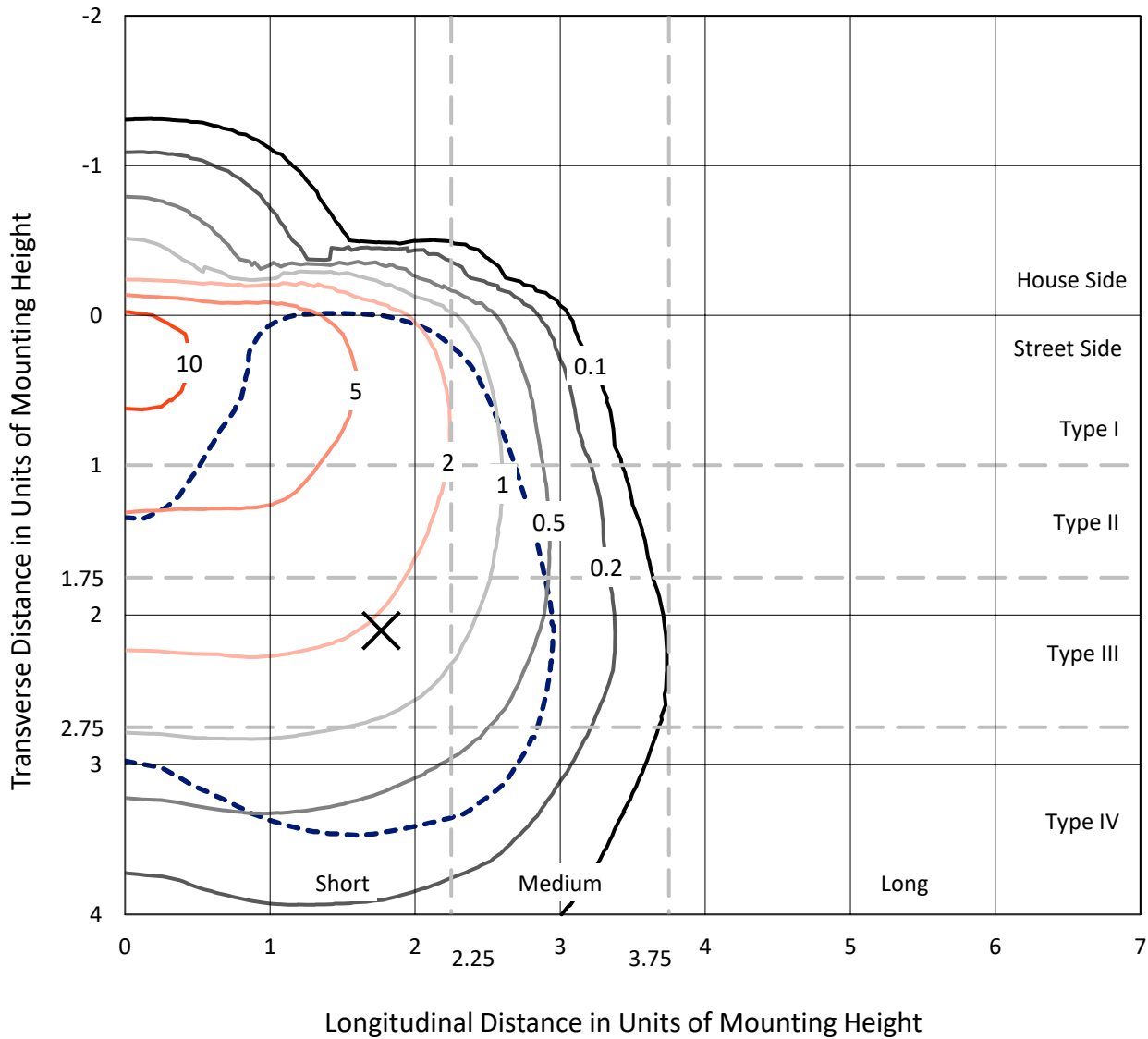
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

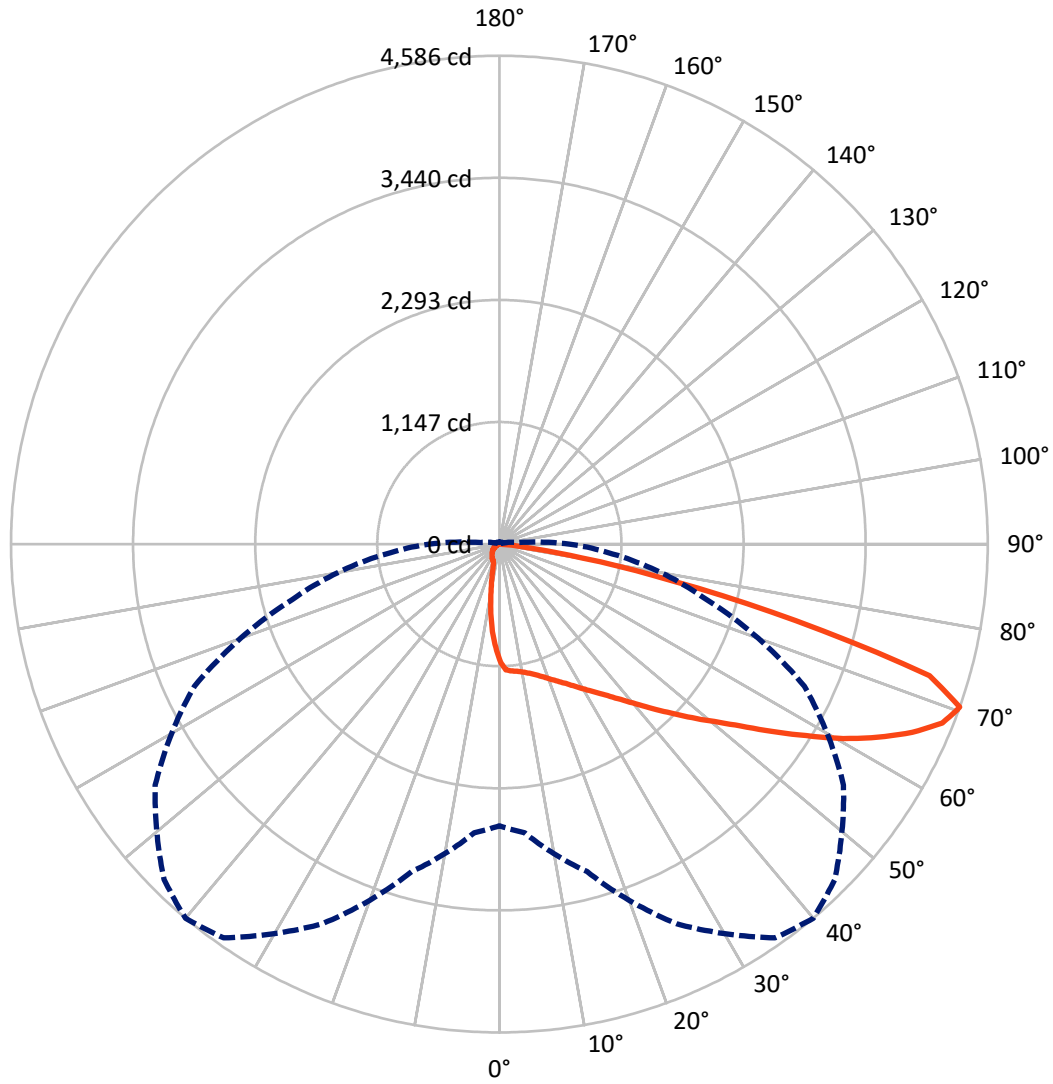
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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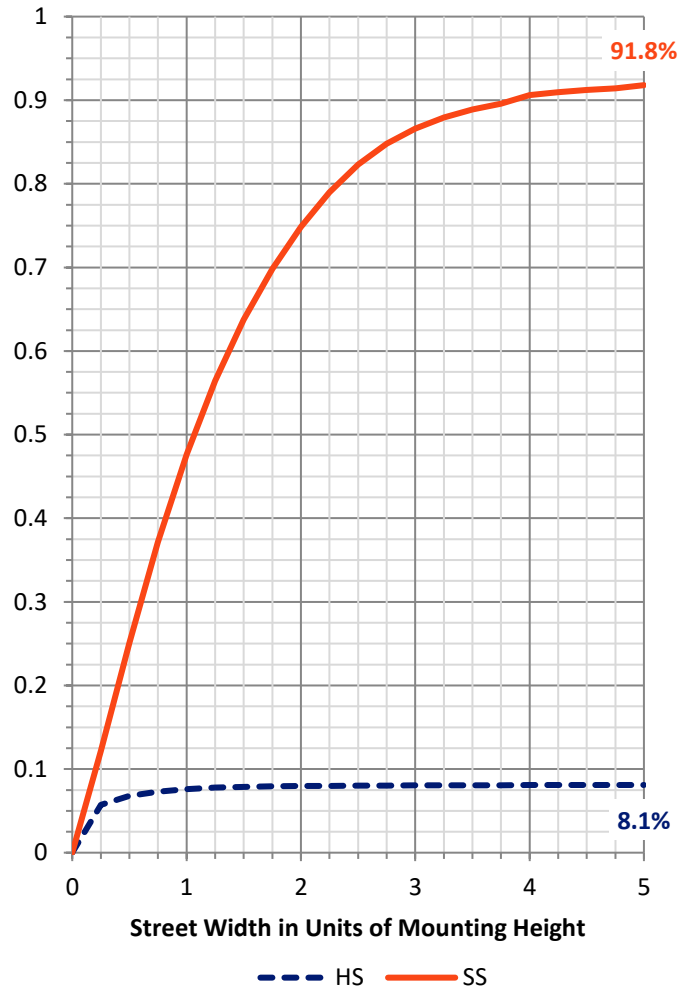
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 532.4 | 0.0 | 532.4 |
| | % Fixture | 8.2 | 0.0 | 8.2 |
| Street Side | Lumens | 5978.0 | 0.0 | 5978.0 |
| | % Fixture | 91.8 | 0.0 | 91.8 |
| Total | Lumens | 6510.4 | 0.0 | 6510.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.4 | 1.4 |
| 10°-20° | 236.8 | 3.6 |
| 20°-30° | 396.4 | 6.1 |
| 30°-40° | 622.5 | 9.6 |
| 40°-50° | 984.7 | 15.1 |
| 50°-60° | 1436.4 | 22.1 |
| 60°-70° | 1780.6 | 27.4 |
| 70°-80° | 900.9 | 13.8 |
| 80°-90° | 58.8 | 0.9 |
| 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° | 6510.4 | 100.0 |
| 0°-180° | 6510.4 | 100.0 |

Coefficient of Utilization



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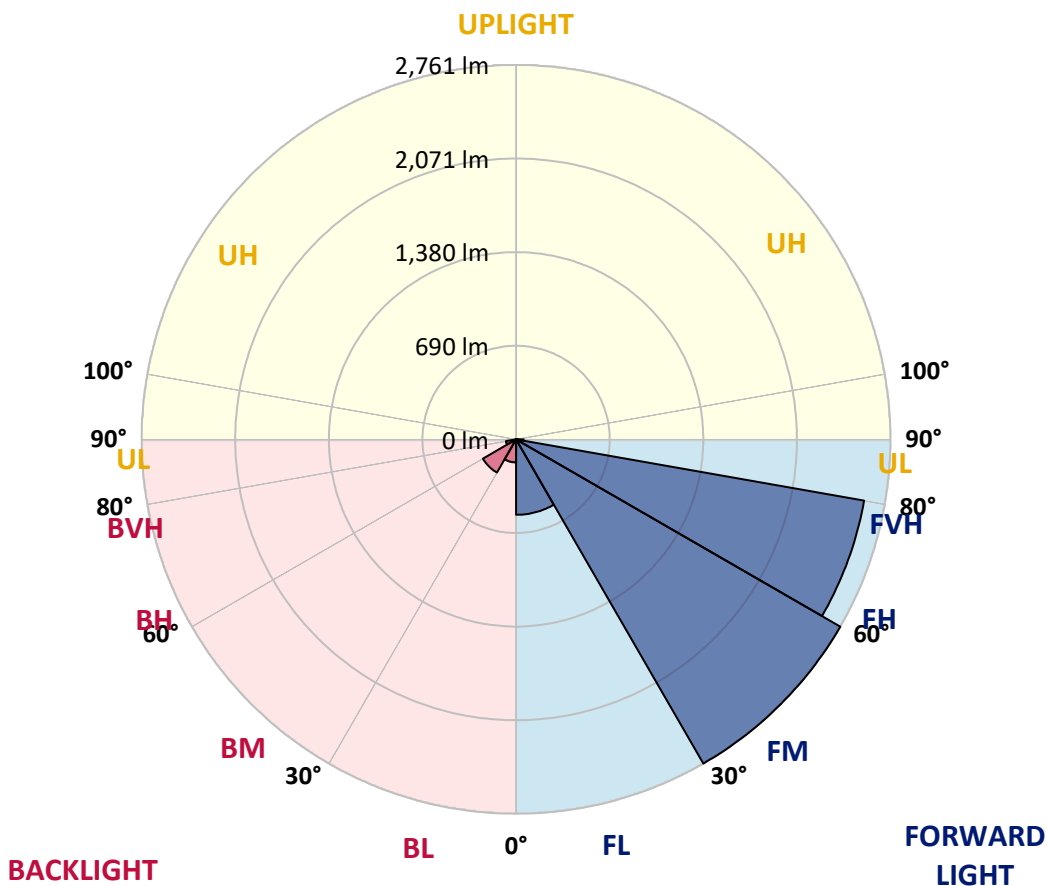
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 556.5 | 8.5 | | | |
| FM (30°-60°) | 2761.0 | 42.4 | | | |
| FH (60°-80°) | 2605.6 | 40.0 | | | G2/5000 |
| FVH (80°-90°) | 54.9 | 0.8 | | | G1/100 |
| BL (0°-30°) | 170.0 | 2.6 | B1/500 | | |
| BM (30°-60°) | 282.6 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 75.9 | 1.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.9 | 0.1 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 |
| 2.5° | 1187.7 | 1191.8 | 1191.2 | 1193.0 | 1188.9 | 1182.3 | 1181.2 | 1172.3 | 1156.3 | 1136.1 | 1113.6 |
| 5° | 1212.0 | 1216.7 | 1213.1 | 1211.4 | 1203.7 | 1196.6 | 1194.8 | 1185.3 | 1166.9 | 1139.7 | 1100.6 |
| 7.5° | 1232.7 | 1233.9 | 1231.5 | 1227.4 | 1216.1 | 1206.6 | 1200.1 | 1187.1 | 1165.2 | 1137.9 | 1092.9 |
| 10° | 1236.2 | 1235.6 | 1236.8 | 1237.4 | 1230.3 | 1222.0 | 1216.7 | 1198.9 | 1171.1 | 1142.1 | 1093.5 |
| 12.5° | 1232.1 | 1232.1 | 1239.8 | 1248.7 | 1248.7 | 1244.5 | 1239.2 | 1223.2 | 1190.6 | 1156.3 | 1105.3 |
| 15° | 1237.4 | 1239.2 | 1254.0 | 1270.6 | 1275.9 | 1271.8 | 1269.4 | 1252.8 | 1219.1 | 1181.2 | 1126.7 |
| 17.5° | 1256.4 | 1258.2 | 1281.9 | 1306.7 | 1313.2 | 1308.5 | 1303.8 | 1287.2 | 1251.0 | 1209.6 | 1150.9 |
| 20° | 1284.2 | 1289.0 | 1319.2 | 1351.2 | 1357.1 | 1351.2 | 1341.7 | 1318.6 | 1282.4 | 1240.4 | 1174.0 |
| 22.5° | 1335.2 | 1338.1 | 1370.7 | 1404.5 | 1407.4 | 1398.0 | 1383.7 | 1351.7 | 1313.8 | 1273.0 | 1200.1 |
| 25° | 1402.7 | 1406.8 | 1439.4 | 1472.0 | 1464.3 | 1450.1 | 1430.5 | 1394.4 | 1351.2 | 1311.5 | 1233.3 |
| 27.5° | 1483.2 | 1488.0 | 1520.0 | 1548.4 | 1528.3 | 1511.7 | 1489.8 | 1444.7 | 1400.9 | 1364.8 | 1275.9 |
| 30° | 1570.3 | 1574.5 | 1602.9 | 1628.4 | 1601.7 | 1582.2 | 1556.1 | 1509.9 | 1465.5 | 1438.2 | 1336.3 |
| 32.5° | 1654.4 | 1653.8 | 1681.1 | 1701.8 | 1674.6 | 1659.2 | 1635.5 | 1588.7 | 1553.1 | 1541.3 | 1426.4 |
| 35° | 1732.6 | 1732.6 | 1755.1 | 1775.9 | 1756.3 | 1748.0 | 1726.1 | 1688.8 | 1668.7 | 1682.9 | 1546.6 |
| 37.5° | 1811.4 | 1807.3 | 1828.6 | 1851.7 | 1849.9 | 1850.5 | 1838.1 | 1820.3 | 1821.5 | 1871.8 | 1711.9 |
| 40° | 1876.6 | 1874.8 | 1899.7 | 1929.9 | 1953.6 | 1972.5 | 1964.8 | 1971.3 | 2008.7 | 2102.9 | 1923.4 |
| 42.5° | 1928.7 | 1932.8 | 1964.8 | 2012.8 | 2072.6 | 2111.1 | 2116.5 | 2143.1 | 2239.1 | 2384.8 | 2162.1 |
| 45° | 1988.5 | 1989.1 | 2033.5 | 2107.0 | 2202.4 | 2263.4 | 2284.7 | 2353.4 | 2489.7 | 2677.4 | 2423.9 |
| 47.5° | 2062.0 | 2054.9 | 2104.6 | 2207.7 | 2345.7 | 2435.8 | 2473.7 | 2559.6 | 2770.4 | 2962.9 | 2637.2 |
| 50° | 2143.1 | 2130.1 | 2186.4 | 2326.8 | 2506.2 | 2618.8 | 2695.8 | 2821.4 | 3048.8 | 3197.5 | 2795.9 |
| 52.5° | 2237.3 | 2224.9 | 2288.8 | 2463.6 | 2698.8 | 2835.6 | 2934.5 | 3061.3 | 3287.6 | 3376.4 | 2890.7 |
| 55° | 2357.0 | 2344.5 | 2412.1 | 2627.7 | 2926.2 | 3103.9 | 3207.6 | 3314.2 | 3509.7 | 3508.5 | 2959.4 |
| 57.5° | 2489.7 | 2472.5 | 2566.1 | 2835.0 | 3210.0 | 3394.8 | 3500.2 | 3552.3 | 3678.5 | 3611.0 | 3005.6 |
| 60° | 2641.9 | 2626.5 | 2756.2 | 3082.0 | 3537.5 | 3708.7 | 3775.1 | 3753.7 | 3817.1 | 3671.4 | 2989.6 |
| 62.5° | 2779.3 | 2772.2 | 2933.3 | 3343.8 | 3849.7 | 3994.2 | 4012.6 | 3919.6 | 3919.0 | 3672.6 | 2881.8 |
| 65° | 2922.1 | 2935.7 | 3175.0 | 3645.3 | 4163.6 | 4260.8 | 4229.4 | 4084.3 | 3959.9 | 3527.5 | 2563.1 |
| 67.5° | 2975.4 | 3015.1 | 3334.4 | 3917.8 | 4411.2 | 4487.1 | 4432.0 | 4166.6 | 3789.9 | 3039.4 | 1951.8 |
| 70° | 2646.0 | 2720.7 | 3183.9 | 3933.2 | 4513.7 | 4586.0 | 4453.9 | 3945.1 | 3159.6 | 2013.4 | 1069.2 |
| 72.5° | 2012.2 | 2099.3 | 2653.1 | 3220.6 | 4059.4 | 4224.1 | 3998.4 | 3214.1 | 2036.5 | 882.0 | 359.0 |
| 75° | 1126.1 | 1220.2 | 1976.1 | 2425.1 | 2725.4 | 2875.9 | 2792.9 | 2062.0 | 902.2 | 230.4 | 107.2 |
| 77.5° | 380.9 | 412.3 | 919.3 | 1500.4 | 1799.0 | 1663.9 | 1408.6 | 1024.2 | 331.7 | 87.7 | 56.9 |
| 80° | 225.7 | 237.5 | 342.4 | 747.0 | 946.6 | 784.9 | 619.6 | 378.5 | 168.8 | 46.8 | 39.7 |
| 82.5° | 67.5 | 80.0 | 189.0 | 277.2 | 370.8 | 231.0 | 195.5 | 216.2 | 87.7 | 25.5 | 33.2 |
| 85° | 0.0 | 0.0 | 40.3 | 85.9 | 97.1 | 37.9 | 37.9 | 122.6 | 16.0 | 10.7 | 24.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 3.0 | 1.8 | 2.4 | 5.3 |
| 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° | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 | 1104.7 |
| 2.5° | 1097.6 | 1076.9 | 1052.6 | 1029.5 | 1007.6 | 979.2 | 965.5 | 948.9 | 934.7 | 927.0 | 931.2 |
| 5° | 1075.7 | 1043.1 | 993.4 | 943.0 | 892.1 | 844.1 | 800.9 | 771.8 | 745.8 | 732.1 | 735.1 |
| 7.5° | 1056.8 | 1012.9 | 935.3 | 853.0 | 771.2 | 688.9 | 622.0 | 569.8 | 529.6 | 513.0 | 510.0 |
| 10° | 1048.5 | 993.4 | 883.8 | 765.3 | 639.7 | 529.0 | 434.2 | 376.7 | 335.9 | 315.7 | 319.3 |
| 12.5° | 1052.6 | 983.3 | 840.0 | 679.4 | 516.5 | 387.4 | 296.8 | 242.9 | 213.8 | 202.0 | 199.0 |
| 15° | 1064.5 | 980.9 | 800.9 | 591.8 | 398.7 | 270.7 | 205.0 | 183.0 | 177.1 | 175.9 | 175.9 |
| 17.5° | 1078.1 | 981.5 | 760.6 | 502.9 | 302.7 | 200.8 | 175.3 | 171.2 | 169.4 | 168.2 | 168.8 |
| 20° | 1091.7 | 981.5 | 714.4 | 412.9 | 227.5 | 173.6 | 167.0 | 164.1 | 162.3 | 161.7 | 161.7 |
| 22.5° | 1108.3 | 981.5 | 662.8 | 329.3 | 182.4 | 164.7 | 159.3 | 157.6 | 155.8 | 155.2 | 154.6 |
| 25° | 1128.4 | 982.1 | 606.0 | 257.7 | 165.9 | 157.0 | 152.8 | 151.0 | 149.3 | 148.1 | 148.1 |
| 27.5° | 1157.5 | 986.9 | 543.2 | 200.8 | 156.4 | 149.9 | 146.3 | 144.5 | 142.8 | 141.0 | 141.0 |
| 30° | 1199.5 | 998.7 | 472.7 | 165.9 | 147.5 | 142.2 | 138.6 | 137.4 | 135.6 | 133.9 | 133.3 |
| 32.5° | 1262.3 | 1019.4 | 399.8 | 148.7 | 139.2 | 133.9 | 129.7 | 128.5 | 126.8 | 125.0 | 124.4 |
| 35° | 1350.0 | 1057.3 | 328.8 | 138.0 | 128.5 | 123.2 | 120.8 | 120.2 | 117.9 | 116.1 | 116.1 |
| 37.5° | 1478.5 | 1119.0 | 260.6 | 127.4 | 119.7 | 115.5 | 112.5 | 111.4 | 109.0 | 107.2 | 106.6 |
| 40° | 1635.5 | 1198.9 | 202.6 | 119.1 | 111.4 | 107.2 | 104.3 | 102.5 | 99.5 | 97.1 | 96.0 |
| 42.5° | 1835.7 | 1296.7 | 159.9 | 110.2 | 103.7 | 99.5 | 97.1 | 93.6 | 89.4 | 85.9 | 85.3 |
| 45° | 2044.2 | 1397.4 | 132.1 | 101.9 | 96.6 | 93.0 | 90.0 | 85.3 | 79.4 | 75.2 | 74.0 |
| 47.5° | 2204.1 | 1460.1 | 115.5 | 93.0 | 88.9 | 85.9 | 82.3 | 76.4 | 69.3 | 64.6 | 63.4 |
| 50° | 2318.5 | 1469.6 | 103.1 | 84.7 | 82.3 | 79.4 | 74.0 | 66.9 | 59.2 | 54.5 | 53.3 |
| 52.5° | 2374.7 | 1427.0 | 93.0 | 77.0 | 75.2 | 72.3 | 65.8 | 58.1 | 49.8 | 45.0 | 43.8 |
| 55° | 2400.2 | 1346.4 | 83.5 | 70.5 | 68.1 | 64.6 | 57.5 | 49.2 | 40.9 | 36.7 | 35.5 |
| 57.5° | 2390.1 | 1227.4 | 75.2 | 64.0 | 61.0 | 56.9 | 49.2 | 40.3 | 33.8 | 29.6 | 29.0 |
| 60° | 2315.5 | 1060.3 | 66.9 | 57.5 | 53.9 | 49.2 | 41.5 | 33.2 | 27.2 | 24.3 | 23.7 |
| 62.5° | 2154.4 | 853.0 | 58.6 | 49.8 | 47.4 | 42.6 | 35.5 | 27.2 | 22.5 | 20.7 | 20.1 |
| 65° | 1824.4 | 603.0 | 50.3 | 42.1 | 40.9 | 36.1 | 29.6 | 22.5 | 19.5 | 18.4 | 17.8 |
| 67.5° | 1311.5 | 366.7 | 42.6 | 36.1 | 34.9 | 30.8 | 24.9 | 19.5 | 17.8 | 17.2 | 17.2 |
| 70° | 659.3 | 173.6 | 33.8 | 29.6 | 29.6 | 25.5 | 21.3 | 17.8 | 17.2 | 16.6 | 16.6 |
| 72.5° | 223.9 | 74.0 | 25.5 | 23.1 | 24.3 | 21.9 | 18.4 | 16.6 | 16.6 | 16.6 | 16.6 |
| 75° | 76.4 | 39.1 | 17.8 | 16.6 | 17.8 | 17.8 | 16.0 | 16.0 | 16.6 | 16.6 | 16.6 |
| 77.5° | 49.8 | 26.1 | 12.4 | 11.3 | 13.6 | 13.6 | 13.6 | 14.8 | 16.0 | 16.0 | 16.0 |
| 80° | 40.9 | 14.2 | 8.3 | 7.7 | 10.1 | 10.1 | 11.3 | 13.6 | 14.8 | 14.8 | 14.8 |
| 82.5° | 34.9 | 8.9 | 4.7 | 5.3 | 7.1 | 7.7 | 9.5 | 11.3 | 13.0 | 13.6 | 13.6 |
| 85° | 23.7 | 4.7 | 3.6 | 4.1 | 4.7 | 5.9 | 7.7 | 9.5 | 10.7 | 11.8 | 11.8 |
| 87.5° | 6.5 | 1.8 | 2.4 | 3.0 | 3.0 | 4.1 | 5.9 | 7.1 | 8.3 | 8.9 | 8.9 |
| 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)