

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: P632533

Luminaire Tested: GWS-SA2C-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.3 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

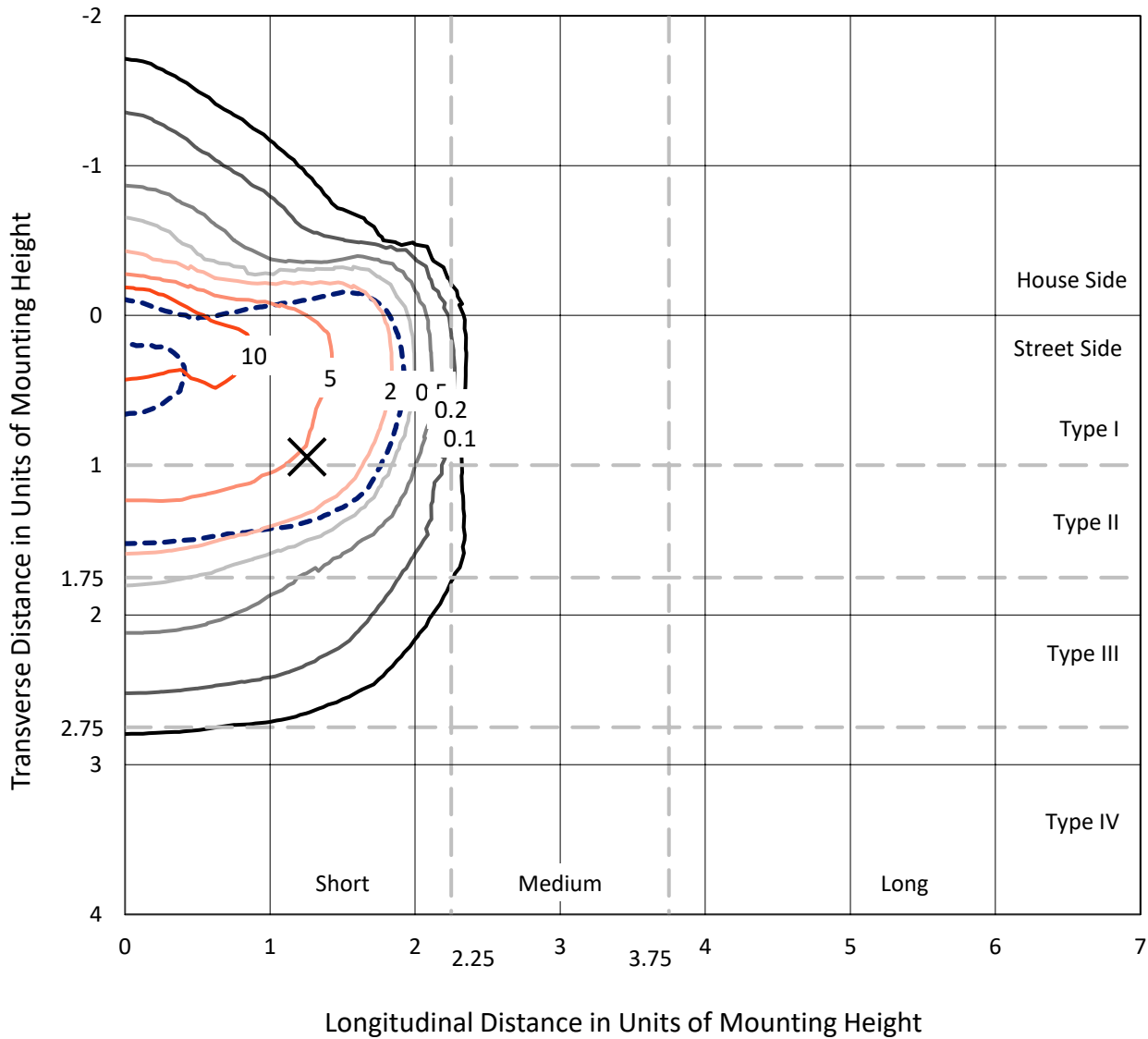
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

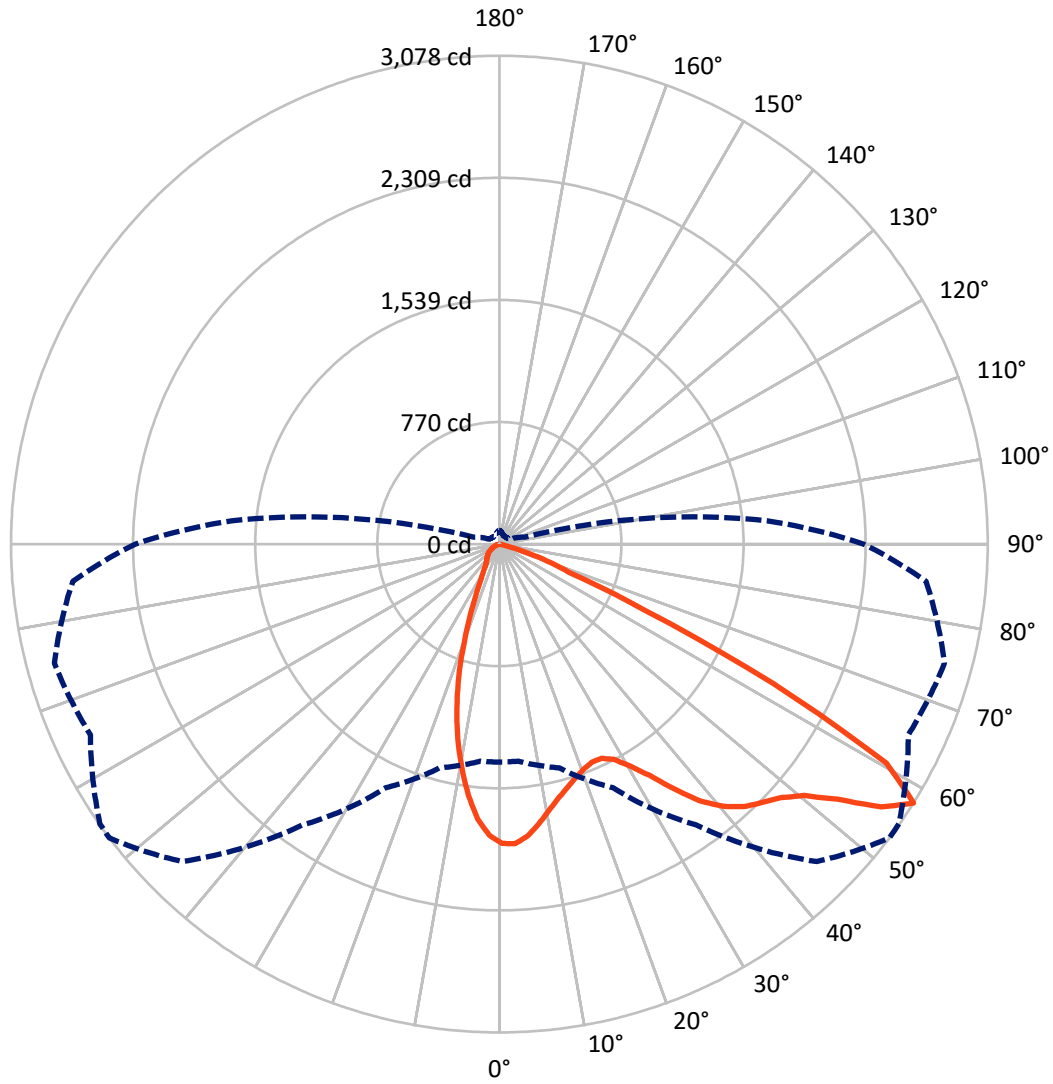
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSBK

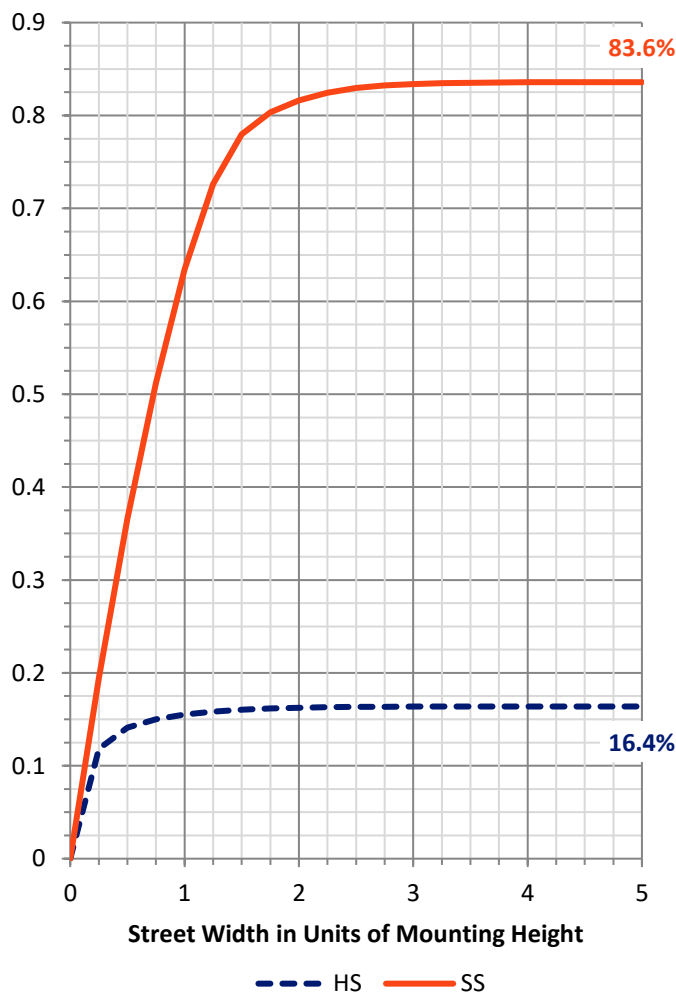
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 710.4 | 0.0 | 710.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 3589.9 | 0.0 | 3589.9 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 4300.3 | 0.0 | 4300.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.4 | 3.8 |
| 10°-20° | 354.3 | 8.2 |
| 20°-30° | 461.6 | 10.7 |
| 30°-40° | 669.5 | 15.6 |
| 40°-50° | 966.1 | 22.5 |
| 50°-60° | 1168.4 | 27.2 |
| 60°-70° | 476.2 | 11.1 |
| 70°-80° | 42.8 | 1.0 |
| 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° | 4300.3 | 100.0 |
| 0°-180° | 4300.3 | 100.0 |

Coefficient of Utilization



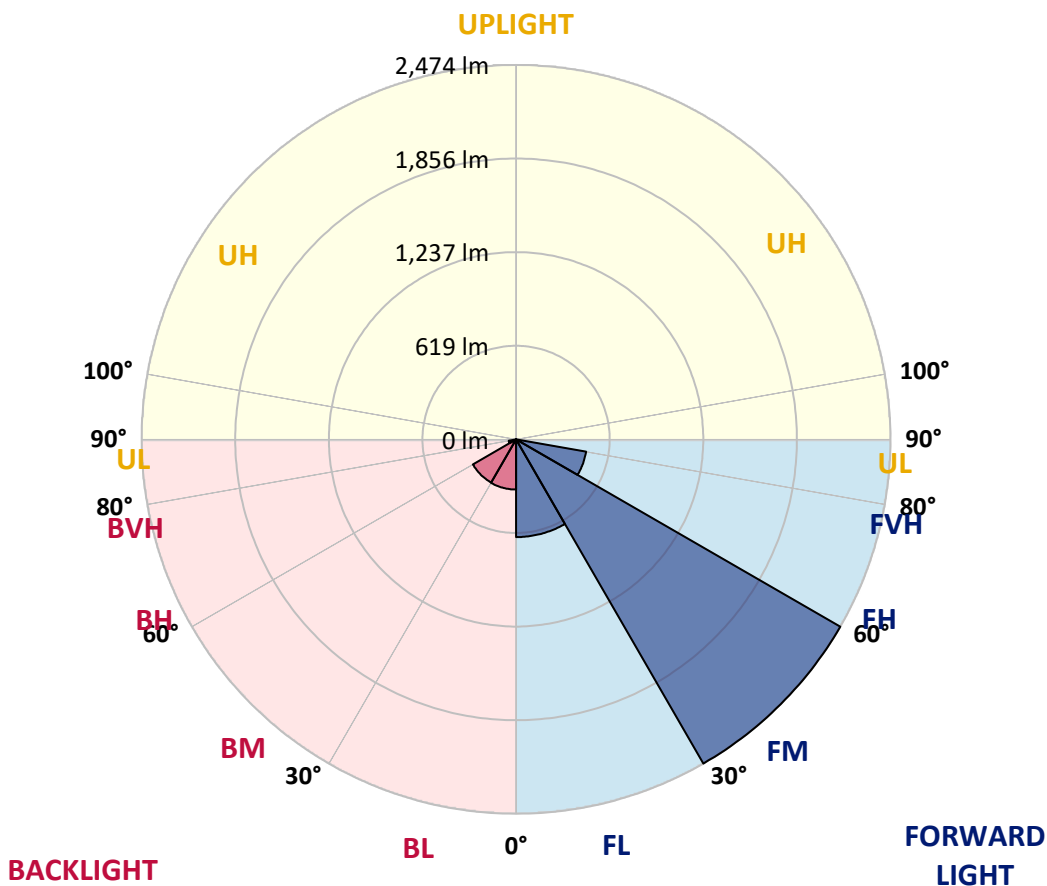
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 645.8 | 15.0 | | | |
| FM (30°-60°) | 2474.3 | 57.5 | | | |
| FH (60°-80°) | 469.9 | 10.9 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 331.5 | 7.7 | B1/500 | | |
| BM (30°-60°) | 329.7 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 49.1 | 1.1 | 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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CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 |
| 2.5° | 1860.0 | 1864.2 | 1871.6 | 1881.1 | 1887.4 | 1890.6 | 1890.6 | 1899.5 | 1893.7 | 1889.0 | 1883.7 |
| 5° | 1780.4 | 1784.6 | 1794.6 | 1809.9 | 1825.2 | 1836.3 | 1848.9 | 1858.4 | 1862.1 | 1862.1 | 1853.2 |
| 7.5° | 1668.2 | 1674.0 | 1680.3 | 1701.4 | 1734.6 | 1759.3 | 1780.9 | 1794.6 | 1814.7 | 1821.0 | 1808.4 |
| 10° | 1547.5 | 1553.3 | 1567.5 | 1596.5 | 1634.4 | 1671.3 | 1708.2 | 1725.6 | 1759.9 | 1777.8 | 1763.6 |
| 12.5° | 1445.2 | 1447.8 | 1466.8 | 1501.6 | 1550.1 | 1600.7 | 1645.5 | 1663.4 | 1711.9 | 1738.8 | 1721.9 |
| 15° | 1360.9 | 1362.5 | 1381.4 | 1419.9 | 1475.8 | 1538.0 | 1594.4 | 1612.8 | 1672.4 | 1713.0 | 1687.7 |
| 17.5° | 1297.1 | 1297.6 | 1314.0 | 1355.6 | 1414.1 | 1483.2 | 1550.1 | 1572.8 | 1649.7 | 1698.7 | 1660.8 |
| 20° | 1265.0 | 1263.4 | 1275.0 | 1311.3 | 1366.7 | 1435.7 | 1514.8 | 1542.7 | 1637.1 | 1696.6 | 1640.2 |
| 22.5° | 1265.5 | 1261.8 | 1266.5 | 1292.4 | 1339.3 | 1404.1 | 1492.6 | 1524.3 | 1638.1 | 1705.6 | 1622.8 |
| 25° | 1295.5 | 1290.2 | 1291.3 | 1305.0 | 1338.2 | 1397.2 | 1495.8 | 1529.5 | 1659.2 | 1735.6 | 1616.5 |
| 27.5° | 1346.1 | 1340.3 | 1340.3 | 1347.2 | 1365.1 | 1418.9 | 1535.3 | 1573.8 | 1715.6 | 1794.1 | 1629.7 |
| 30° | 1411.5 | 1405.7 | 1403.6 | 1410.4 | 1425.2 | 1474.7 | 1623.4 | 1663.4 | 1812.0 | 1890.0 | 1671.8 |
| 32.5° | 1486.3 | 1479.5 | 1483.2 | 1492.6 | 1506.9 | 1575.4 | 1736.7 | 1789.9 | 1932.7 | 2019.2 | 1747.7 |
| 35° | 1565.4 | 1559.6 | 1576.4 | 1597.0 | 1619.1 | 1715.1 | 1893.2 | 1939.6 | 2080.8 | 2179.9 | 1863.7 |
| 37.5° | 1640.7 | 1638.1 | 1673.4 | 1716.6 | 1762.5 | 1882.7 | 2052.4 | 2088.2 | 2207.9 | 2354.9 | 2005.5 |
| 40° | 1716.1 | 1715.6 | 1776.2 | 1852.1 | 1925.4 | 2049.7 | 2173.1 | 2202.6 | 2285.3 | 2490.9 | 2141.5 |
| 42.5° | 1800.4 | 1800.4 | 1884.2 | 1985.4 | 2083.0 | 2191.0 | 2261.6 | 2274.8 | 2320.1 | 2569.4 | 2243.7 |
| 45° | 1881.1 | 1885.8 | 1982.8 | 2100.3 | 2215.8 | 2301.2 | 2322.8 | 2323.8 | 2334.4 | 2615.8 | 2328.6 |
| 47.5° | 1944.9 | 1949.1 | 2065.0 | 2200.5 | 2324.9 | 2385.0 | 2388.1 | 2383.4 | 2371.8 | 2660.1 | 2393.9 |
| 50° | 1996.5 | 2002.8 | 2124.1 | 2267.4 | 2399.7 | 2465.6 | 2489.8 | 2485.1 | 2455.6 | 2707.5 | 2439.8 |
| 52.5° | 2021.8 | 2030.8 | 2144.6 | 2300.6 | 2483.0 | 2603.7 | 2671.2 | 2682.2 | 2581.0 | 2733.9 | 2483.5 |
| 55° | 1819.4 | 1832.6 | 1937.5 | 2150.9 | 2529.4 | 2817.1 | 2923.1 | 2921.0 | 2717.0 | 2812.4 | 2590.0 |
| 57.5° | 1374.1 | 1373.0 | 1460.0 | 1693.5 | 2160.4 | 2829.3 | 3078.0 | 3073.8 | 2844.0 | 2903.6 | 2699.1 |
| 60° | 935.5 | 929.2 | 952.4 | 1065.2 | 1510.6 | 2304.8 | 2801.3 | 2858.3 | 2753.9 | 2682.2 | 2291.7 |
| 62.5° | 770.0 | 764.2 | 756.9 | 725.8 | 867.5 | 1435.7 | 1935.4 | 2021.8 | 2008.1 | 1864.2 | 1437.3 |
| 65° | 630.4 | 635.1 | 655.7 | 642.5 | 603.5 | 736.3 | 1004.6 | 1055.7 | 965.1 | 812.2 | 502.3 |
| 67.5° | 464.9 | 467.0 | 493.9 | 563.4 | 542.3 | 490.2 | 472.8 | 481.2 | 282.0 | 129.7 | 83.8 |
| 70° | 274.6 | 276.2 | 301.0 | 394.2 | 440.1 | 376.3 | 319.4 | 314.7 | 111.7 | 34.8 | 37.9 |
| 72.5° | 155.5 | 152.3 | 157.1 | 187.6 | 239.8 | 199.8 | 164.4 | 149.7 | 33.7 | 19.5 | 19.5 |
| 75° | 73.8 | 71.7 | 61.7 | 58.0 | 52.7 | 33.7 | 21.1 | 17.9 | 8.4 | 7.9 | 7.9 |
| 77.5° | 0.5 | 1.6 | 1.1 | 1.6 | 1.6 | 1.1 | 0.5 | 0.5 | 1.6 | 1.6 | 2.1 |
| 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° | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 | 1886.4 |
| 2.5° | 1874.2 | 1858.4 | 1854.7 | 1853.7 | 1838.9 | 1823.1 | 1806.8 | 1800.4 | 1791.0 | 1785.2 | 1789.9 |
| 5° | 1838.9 | 1816.3 | 1796.2 | 1777.8 | 1745.1 | 1709.3 | 1678.2 | 1658.1 | 1639.2 | 1626.5 | 1629.7 |
| 7.5° | 1788.9 | 1759.3 | 1713.5 | 1666.6 | 1606.5 | 1552.7 | 1492.6 | 1455.7 | 1421.5 | 1402.5 | 1411.5 |
| 10° | 1735.6 | 1696.6 | 1623.4 | 1543.8 | 1449.4 | 1365.1 | 1279.2 | 1209.1 | 1168.5 | 1130.0 | 1134.2 |
| 12.5° | 1683.4 | 1631.8 | 1522.2 | 1401.5 | 1282.3 | 1158.0 | 1028.3 | 931.3 | 864.9 | 816.9 | 809.6 |
| 15° | 1634.9 | 1568.5 | 1423.6 | 1264.4 | 1102.1 | 936.6 | 771.1 | 632.5 | 555.5 | 508.1 | 504.9 |
| 17.5° | 1591.7 | 1509.5 | 1321.3 | 1121.1 | 917.6 | 705.7 | 515.5 | 411.6 | 367.4 | 346.8 | 344.7 |
| 20° | 1550.1 | 1449.9 | 1217.0 | 975.6 | 716.3 | 495.4 | 355.8 | 307.8 | 293.6 | 285.1 | 286.2 |
| 22.5° | 1510.0 | 1385.1 | 1107.4 | 814.3 | 537.1 | 347.9 | 275.7 | 257.2 | 255.6 | 256.7 | 257.2 |
| 25° | 1476.3 | 1325.6 | 994.6 | 658.8 | 383.2 | 265.1 | 230.3 | 225.1 | 229.8 | 236.7 | 237.7 |
| 27.5° | 1458.9 | 1277.1 | 884.4 | 502.3 | 277.2 | 215.6 | 199.8 | 201.9 | 210.3 | 217.7 | 218.7 |
| 30° | 1463.7 | 1240.7 | 770.6 | 364.2 | 213.5 | 181.8 | 176.6 | 180.8 | 189.2 | 196.1 | 197.1 |
| 32.5° | 1497.4 | 1222.3 | 654.1 | 265.1 | 175.5 | 158.6 | 156.5 | 159.7 | 167.1 | 172.3 | 172.9 |
| 35° | 1564.3 | 1226.5 | 543.4 | 202.9 | 150.7 | 141.3 | 140.7 | 142.8 | 146.5 | 150.2 | 150.7 |
| 37.5° | 1662.9 | 1260.7 | 434.3 | 168.7 | 136.5 | 129.7 | 127.5 | 127.5 | 130.2 | 131.8 | 132.8 |
| 40° | 1768.8 | 1312.4 | 347.9 | 149.2 | 126.5 | 119.1 | 114.9 | 113.3 | 115.4 | 117.5 | 118.1 |
| 42.5° | 1856.3 | 1364.0 | 282.5 | 135.5 | 118.6 | 108.6 | 103.3 | 102.3 | 104.9 | 108.6 | 109.6 |
| 45° | 1923.3 | 1404.1 | 235.6 | 124.4 | 109.6 | 98.6 | 92.8 | 92.8 | 97.5 | 103.8 | 104.9 |
| 47.5° | 1984.4 | 1436.2 | 200.8 | 114.4 | 101.2 | 89.6 | 83.8 | 84.9 | 92.8 | 101.2 | 102.8 |
| 50° | 2026.0 | 1462.1 | 175.0 | 105.4 | 94.3 | 82.2 | 77.0 | 79.1 | 88.5 | 98.6 | 100.1 |
| 52.5° | 2070.8 | 1493.7 | 158.1 | 97.5 | 88.0 | 76.4 | 71.7 | 73.3 | 83.8 | 94.9 | 97.0 |
| 55° | 2194.7 | 1599.6 | 157.6 | 87.0 | 77.0 | 68.5 | 66.4 | 66.9 | 77.5 | 90.1 | 92.8 |
| 57.5° | 2295.9 | 1692.9 | 168.1 | 73.3 | 64.3 | 60.1 | 59.0 | 59.6 | 69.0 | 83.3 | 86.4 |
| 60° | 1899.5 | 1315.5 | 139.1 | 60.6 | 53.8 | 52.7 | 51.1 | 52.2 | 61.1 | 73.8 | 76.4 |
| 62.5° | 1124.2 | 752.1 | 66.4 | 46.4 | 45.9 | 44.8 | 43.2 | 45.3 | 53.8 | 64.8 | 66.4 |
| 65° | 384.2 | 222.9 | 42.2 | 37.9 | 39.0 | 37.4 | 35.8 | 37.9 | 45.3 | 51.7 | 52.2 |
| 67.5° | 73.8 | 59.0 | 33.7 | 31.6 | 32.2 | 29.0 | 28.5 | 30.6 | 34.8 | 35.8 | 35.3 |
| 70° | 38.5 | 34.3 | 25.8 | 25.8 | 24.8 | 20.6 | 20.6 | 22.7 | 22.7 | 21.1 | 20.6 |
| 72.5° | 20.0 | 19.0 | 16.9 | 19.0 | 15.8 | 12.6 | 12.6 | 13.7 | 12.6 | 10.5 | 10.5 |
| 75° | 7.9 | 7.9 | 7.4 | 9.5 | 6.9 | 5.8 | 5.3 | 6.3 | 4.7 | 3.7 | 3.7 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.6 | 1.6 | 1.6 | 1.1 | 1.1 | 0.5 | 0.0 | 0.0 |
| 80° | 0.0 | 0.5 | 0.0 | 0.5 | 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)