

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: P636546

Luminaire Tested: GWS-SA4B-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8451.7 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

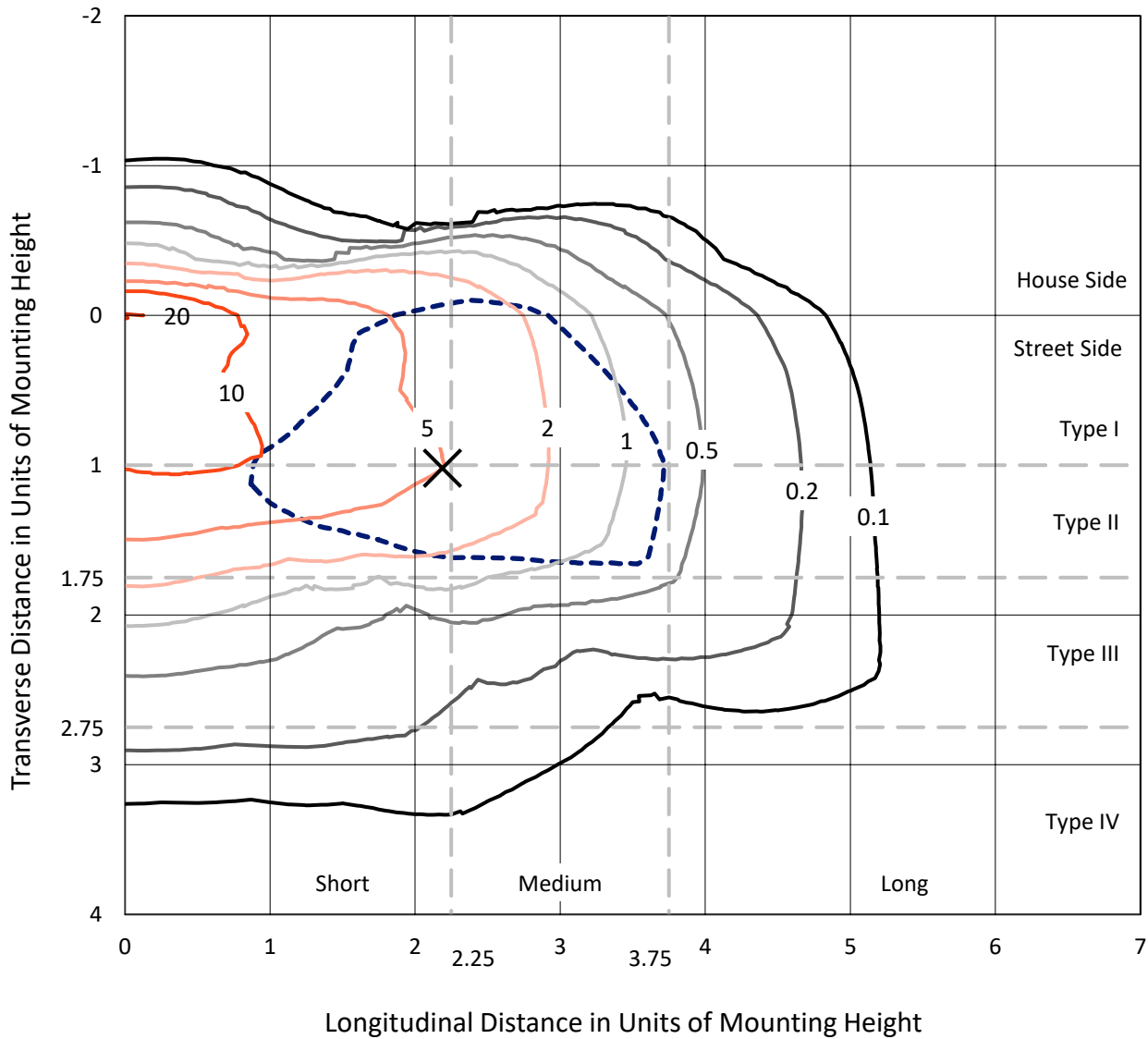
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

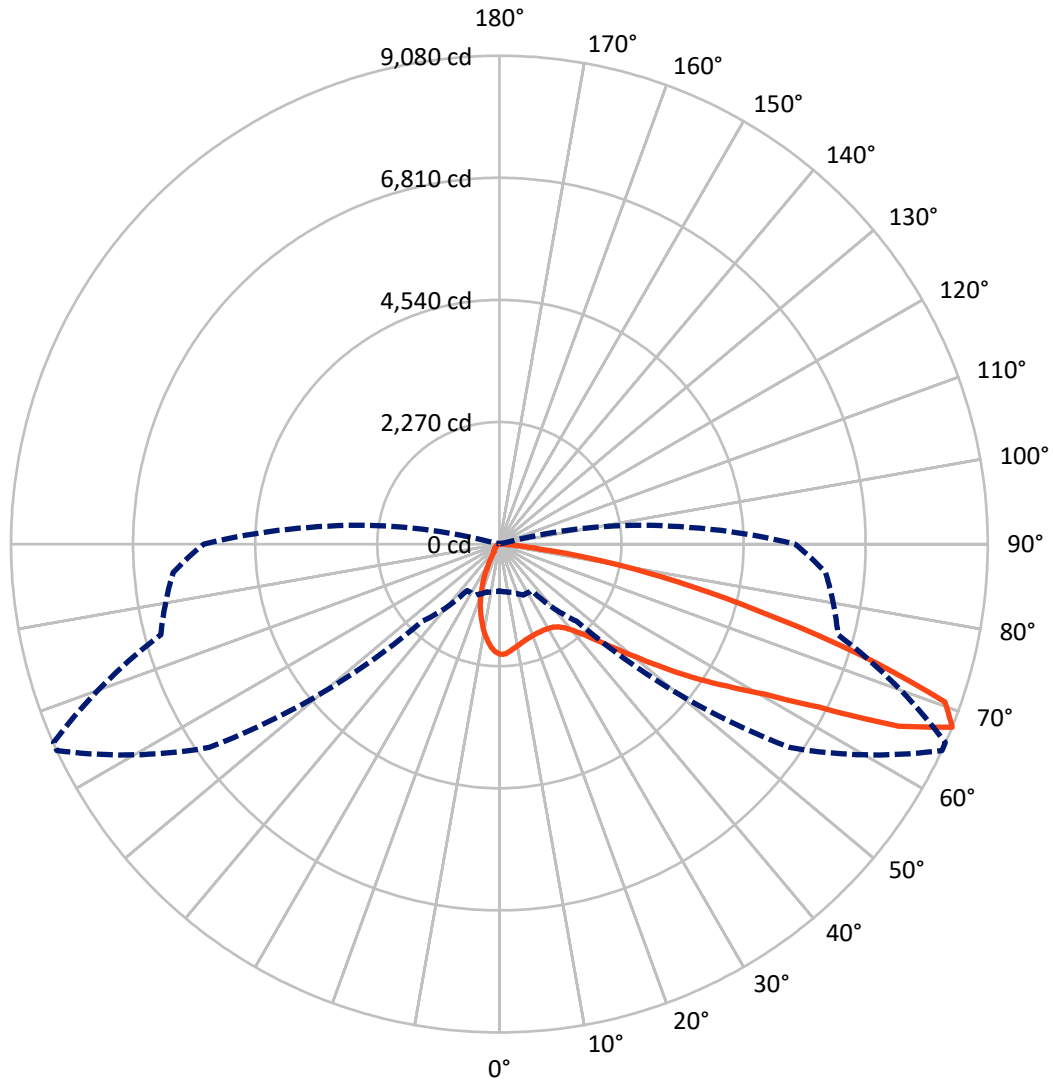
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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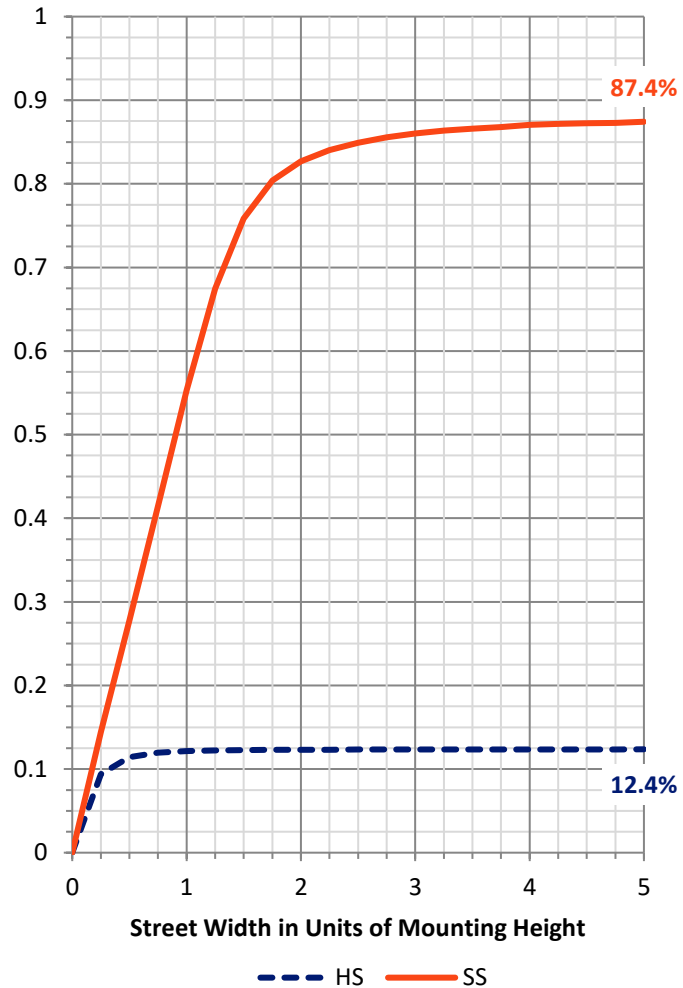
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1055.4 | 0.0 | 1055.4 |
| | % Fixture | 12.5 | 0.0 | 12.5 |
| Street Side | Lumens | 7396.3 | 0.0 | 7396.3 |
| | % Fixture | 87.5 | 0.0 | 87.5 |
| Total | Lumens | 8451.7 | 0.0 | 8451.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.2 | 2.0 |
| 10°-20° | 382.7 | 4.5 |
| 20°-30° | 546.9 | 6.5 |
| 30°-40° | 795.6 | 9.4 |
| 40°-50° | 1246.1 | 14.7 |
| 50°-60° | 1943.9 | 23.0 |
| 60°-70° | 2135.3 | 25.3 |
| 70°-80° | 1136.4 | 13.4 |
| 80°-90° | 94.6 | 1.1 |
| 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° | 8451.7 | 100.0 |
| 0°-180° | 8451.7 | 100.0 |

Coefficient of Utilization

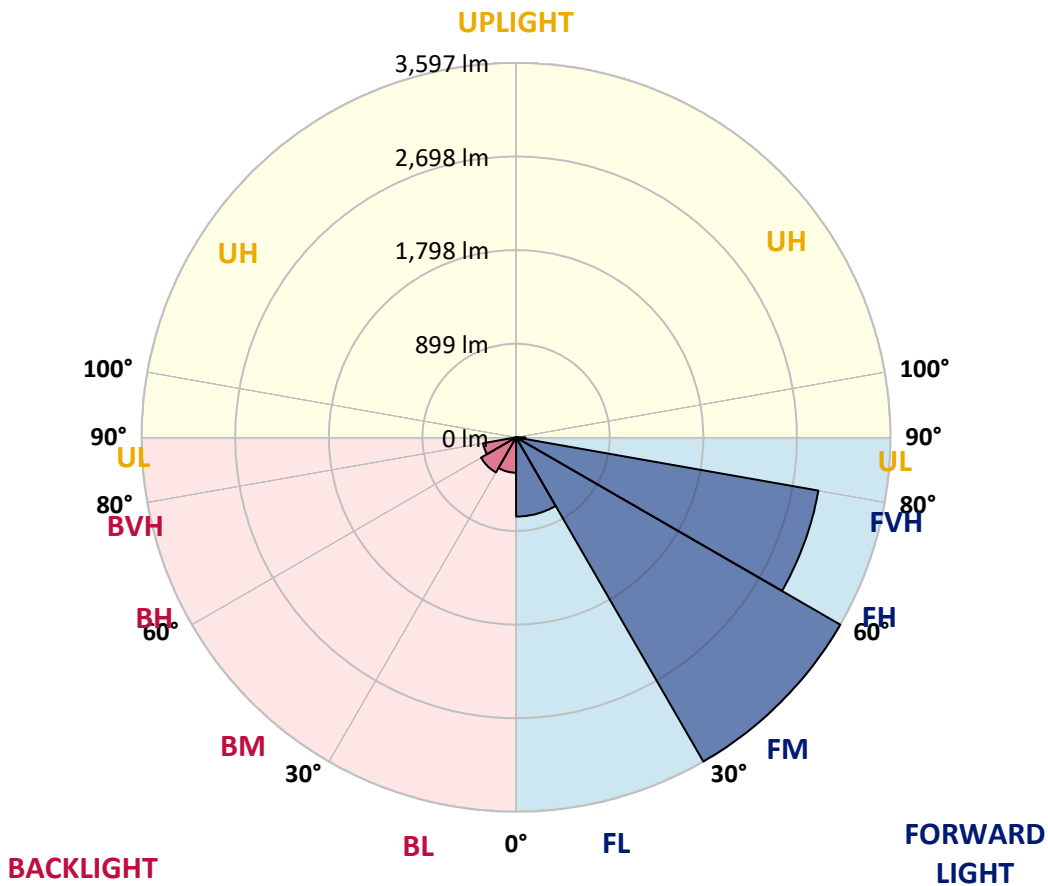


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 760.6 | 9.0 | | | |
| FM (30°-60°) | 3596.9 | 42.6 | | | |
| FH (60°-80°) | 2949.3 | 34.9 | | | G2/5000 |
| FVH (80°-90°) | 89.5 | 1.1 | | | G1/100 |
| BL (0°-30°) | 339.2 | 4.0 | B1/500 | | |
| BM (30°-60°) | 388.7 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 322.3 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.1 | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 |
| 2.5° | 1978.7 | 1984.8 | 1976.4 | 1997.1 | 2000.9 | 2023.8 | 2036.8 | 2046.0 | 2045.2 | 2056.7 | 2056.7 |
| 5° | 1862.6 | 1868.7 | 1864.1 | 1886.2 | 1903.8 | 1939.7 | 1969.6 | 2003.9 | 2005.5 | 2040.6 | 2053.6 |
| 7.5° | 1764.0 | 1764.7 | 1764.7 | 1792.2 | 1815.2 | 1859.5 | 1903.8 | 1956.6 | 1962.7 | 2016.9 | 2051.3 |
| 10° | 1682.9 | 1685.2 | 1686.0 | 1717.3 | 1742.6 | 1796.1 | 1852.6 | 1916.1 | 1922.9 | 1996.3 | 2049.8 |
| 12.5° | 1627.2 | 1627.9 | 1631.0 | 1663.8 | 1691.4 | 1747.1 | 1804.5 | 1877.1 | 1886.2 | 1972.6 | 2042.9 |
| 15° | 1600.4 | 1598.9 | 1600.4 | 1627.9 | 1655.4 | 1708.9 | 1767.8 | 1845.7 | 1855.7 | 1952.7 | 2043.7 |
| 17.5° | 1598.9 | 1596.6 | 1595.1 | 1615.7 | 1633.3 | 1680.7 | 1740.3 | 1825.1 | 1835.8 | 1943.6 | 2052.1 |
| 20° | 1621.0 | 1619.5 | 1611.9 | 1621.0 | 1624.9 | 1663.8 | 1722.7 | 1809.1 | 1819.8 | 1942.0 | 2070.4 |
| 22.5° | 1679.1 | 1675.3 | 1663.8 | 1655.4 | 1634.8 | 1657.7 | 1710.5 | 1797.6 | 1809.8 | 1945.9 | 2094.1 |
| 25° | 1765.5 | 1764.0 | 1749.4 | 1728.8 | 1676.1 | 1666.9 | 1711.2 | 1797.6 | 1809.1 | 1950.4 | 2119.4 |
| 27.5° | 1895.4 | 1886.2 | 1867.9 | 1832.0 | 1756.3 | 1702.8 | 1726.5 | 1802.2 | 1813.6 | 1956.6 | 2140.0 |
| 30° | 2027.6 | 2026.9 | 2020.8 | 1984.1 | 1871.7 | 1771.6 | 1758.6 | 1814.4 | 1825.1 | 1961.9 | 2159.1 |
| 32.5° | 2164.4 | 2166.7 | 2182.0 | 2153.7 | 2030.7 | 1874.0 | 1816.7 | 1839.6 | 1847.3 | 1972.6 | 2175.9 |
| 35° | 2294.4 | 2299.0 | 2339.5 | 2349.4 | 2224.1 | 2029.2 | 1911.5 | 1890.1 | 1890.8 | 1996.3 | 2198.1 |
| 37.5° | 2419.0 | 2434.2 | 2499.2 | 2547.4 | 2464.8 | 2217.2 | 2048.3 | 1975.7 | 1969.6 | 2043.7 | 2231.7 |
| 40° | 2560.3 | 2589.4 | 2671.2 | 2752.9 | 2727.0 | 2465.6 | 2234.8 | 2107.1 | 2094.1 | 2130.8 | 2292.1 |
| 42.5° | 2717.0 | 2748.4 | 2856.9 | 2971.5 | 2983.8 | 2765.9 | 2467.9 | 2299.0 | 2276.8 | 2277.6 | 2405.2 |
| 45° | 2885.2 | 2927.2 | 3053.3 | 3218.4 | 3292.5 | 3100.7 | 2755.2 | 2558.1 | 2535.9 | 2503.0 | 2587.1 |
| 47.5° | 3106.0 | 3142.7 | 3264.2 | 3454.6 | 3596.7 | 3459.9 | 3132.0 | 2891.3 | 2850.8 | 2802.6 | 2869.9 |
| 50° | 3296.3 | 3328.4 | 3433.2 | 3671.6 | 3967.4 | 3923.1 | 3559.3 | 3307.8 | 3268.8 | 3187.1 | 3242.8 |
| 52.5° | 3338.4 | 3363.6 | 3459.9 | 3728.2 | 4250.9 | 4507.7 | 4082.8 | 3811.5 | 3784.0 | 3632.6 | 3654.0 |
| 55° | 3149.6 | 3187.8 | 3274.2 | 3572.3 | 4325.1 | 5079.4 | 4762.2 | 4379.3 | 4322.0 | 4080.5 | 4118.7 |
| 57.5° | 2672.7 | 2740.7 | 2821.7 | 3209.2 | 4124.1 | 5383.6 | 5711.5 | 4980.8 | 4928.9 | 4511.6 | 4512.3 |
| 60° | 1958.9 | 2013.9 | 2068.1 | 2422.8 | 3647.2 | 5363.0 | 6572.8 | 5656.4 | 5561.7 | 4863.9 | 4850.9 |
| 62.5° | 1424.6 | 1452.9 | 1452.1 | 1578.2 | 2504.6 | 5009.9 | 7025.3 | 6674.5 | 6453.6 | 5240.7 | 5166.5 |
| 65° | 1120.4 | 1119.7 | 1152.5 | 1193.8 | 1398.6 | 3867.3 | 7081.1 | 8161.0 | 7922.5 | 5745.9 | 5591.5 |
| 67.5° | 872.0 | 888.9 | 921.7 | 1043.2 | 1050.9 | 2023.8 | 6590.4 | 9080.4 | 9075.8 | 6517.0 | 6089.0 |
| 70° | 672.6 | 695.5 | 742.1 | 919.4 | 970.6 | 1132.7 | 4931.1 | 8789.2 | 8863.4 | 6861.7 | 5736.7 |
| 72.5° | 431.8 | 430.3 | 499.1 | 742.9 | 932.4 | 943.9 | 2727.0 | 6981.7 | 7065.8 | 6215.1 | 4638.4 |
| 75° | 241.5 | 243.0 | 282.0 | 454.7 | 869.0 | 888.1 | 1350.5 | 4978.5 | 5045.0 | 4845.5 | 3563.8 |
| 77.5° | 94.8 | 97.8 | 132.2 | 239.2 | 573.2 | 793.3 | 802.5 | 3394.9 | 3404.9 | 3002.9 | 2185.8 |
| 80° | 38.2 | 40.5 | 67.3 | 148.3 | 349.3 | 534.2 | 573.2 | 2000.1 | 1959.6 | 1162.5 | 635.9 |
| 82.5° | 11.5 | 12.2 | 26.7 | 84.1 | 182.7 | 379.8 | 386.7 | 767.3 | 724.5 | 249.9 | 162.0 |
| 85° | 0.8 | 0.8 | 6.1 | 26.0 | 65.0 | 95.5 | 257.6 | 249.9 | 221.6 | 62.7 | 71.8 |
| 87.5° | 0.0 | 0.0 | 0.8 | 0.8 | 1.5 | 3.1 | 27.5 | 45.9 | 46.6 | 11.5 | 32.1 |
| 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° | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 | 2049.8 |
| 2.5° | 2056.7 | 2029.2 | 2026.9 | 2005.5 | 1984.1 | 1957.3 | 1926.0 | 1903.1 | 1887.0 | 1858.7 | 1853.4 |
| 5° | 2053.6 | 2016.9 | 1982.5 | 1921.4 | 1853.4 | 1780.0 | 1715.8 | 1656.2 | 1618.7 | 1593.5 | 1582.8 |
| 7.5° | 2047.5 | 2000.9 | 1921.4 | 1806.0 | 1692.1 | 1563.7 | 1463.6 | 1371.9 | 1309.2 | 1272.5 | 1256.5 |
| 10° | 2042.9 | 1980.3 | 1851.1 | 1676.1 | 1499.5 | 1322.2 | 1170.1 | 1034.1 | 958.4 | 898.8 | 888.9 |
| 12.5° | 2033.8 | 1950.4 | 1760.9 | 1524.0 | 1296.2 | 1060.8 | 866.7 | 700.1 | 584.7 | 532.7 | 514.4 |
| 15° | 2024.6 | 1919.1 | 1670.7 | 1363.5 | 1074.6 | 784.2 | 548.8 | 388.3 | 308.8 | 284.3 | 282.8 |
| 17.5° | 2023.1 | 1890.8 | 1572.9 | 1211.4 | 842.2 | 513.6 | 312.6 | 251.4 | 234.6 | 228.5 | 228.5 |
| 20° | 2027.6 | 1867.1 | 1476.6 | 1036.4 | 613.7 | 312.6 | 233.1 | 217.8 | 207.9 | 202.5 | 202.5 |
| 22.5° | 2032.2 | 1842.7 | 1384.1 | 859.8 | 407.4 | 228.5 | 205.6 | 192.6 | 181.1 | 175.0 | 172.0 |
| 25° | 2035.3 | 1815.9 | 1281.7 | 682.5 | 266.0 | 198.7 | 180.4 | 163.6 | 149.8 | 142.2 | 142.2 |
| 27.5° | 2034.5 | 1783.8 | 1178.5 | 509.0 | 206.4 | 176.5 | 154.4 | 136.8 | 123.0 | 114.6 | 115.4 |
| 30° | 2028.4 | 1748.7 | 1071.5 | 355.4 | 180.4 | 154.4 | 132.2 | 113.9 | 100.1 | 93.2 | 92.5 |
| 32.5° | 2023.8 | 1711.2 | 947.7 | 249.9 | 162.0 | 135.3 | 112.3 | 94.8 | 83.3 | 78.0 | 77.2 |
| 35° | 2018.5 | 1674.5 | 830.0 | 190.3 | 146.0 | 116.9 | 94.8 | 80.2 | 71.1 | 66.5 | 66.5 |
| 37.5° | 2020.0 | 1636.3 | 702.4 | 163.6 | 129.9 | 101.6 | 81.0 | 68.8 | 61.1 | 56.6 | 55.8 |
| 40° | 2043.7 | 1613.4 | 577.0 | 148.3 | 115.4 | 87.9 | 70.3 | 59.6 | 52.0 | 47.4 | 46.6 |
| 42.5° | 2102.5 | 1614.2 | 457.0 | 136.8 | 102.4 | 74.9 | 61.1 | 51.2 | 44.3 | 39.0 | 38.2 |
| 45° | 2220.2 | 1646.3 | 350.8 | 124.6 | 88.7 | 65.0 | 52.7 | 43.6 | 36.7 | 32.1 | 31.3 |
| 47.5° | 2412.8 | 1741.8 | 266.0 | 113.9 | 77.2 | 56.6 | 45.1 | 36.7 | 30.6 | 26.7 | 26.0 |
| 50° | 2719.3 | 1914.5 | 209.4 | 100.9 | 65.0 | 48.9 | 38.2 | 30.6 | 25.2 | 21.4 | 20.6 |
| 52.5° | 3087.7 | 2173.6 | 179.6 | 89.4 | 55.8 | 42.8 | 32.9 | 25.2 | 20.6 | 17.6 | 16.8 |
| 55° | 3511.1 | 2483.2 | 165.8 | 78.0 | 47.4 | 36.7 | 26.7 | 20.6 | 16.8 | 14.5 | 13.0 |
| 57.5° | 3899.4 | 2762.1 | 165.1 | 66.5 | 40.5 | 31.3 | 22.2 | 17.6 | 14.5 | 11.5 | 10.7 |
| 60° | 4277.7 | 2995.2 | 155.1 | 55.0 | 35.2 | 26.0 | 19.1 | 14.5 | 12.2 | 9.9 | 9.2 |
| 62.5° | 4620.8 | 3184.8 | 129.9 | 44.3 | 29.8 | 21.4 | 16.0 | 13.0 | 10.7 | 8.4 | 8.4 |
| 65° | 5051.9 | 3426.3 | 99.4 | 35.9 | 24.5 | 17.6 | 13.8 | 11.5 | 9.9 | 7.6 | 7.6 |
| 67.5° | 5497.5 | 3553.9 | 71.1 | 29.8 | 19.9 | 15.3 | 12.2 | 10.7 | 8.4 | 6.9 | 6.9 |
| 70° | 4979.3 | 3002.9 | 51.2 | 24.5 | 16.8 | 13.0 | 10.7 | 9.9 | 8.4 | 6.9 | 6.1 |
| 72.5° | 3888.7 | 2165.2 | 38.2 | 19.1 | 14.5 | 12.2 | 9.9 | 9.2 | 7.6 | 6.1 | 6.1 |
| 75° | 2883.6 | 1262.6 | 29.0 | 15.3 | 11.5 | 9.9 | 9.9 | 9.2 | 7.6 | 6.1 | 5.3 |
| 77.5° | 1567.5 | 440.2 | 22.2 | 12.2 | 9.2 | 7.6 | 8.4 | 8.4 | 6.9 | 5.3 | 4.6 |
| 80° | 415.0 | 120.8 | 15.3 | 9.2 | 7.6 | 6.1 | 6.1 | 7.6 | 6.1 | 4.6 | 4.6 |
| 82.5° | 120.8 | 35.2 | 10.7 | 7.6 | 6.1 | 5.3 | 5.3 | 5.3 | 4.6 | 3.8 | 3.1 |
| 85° | 58.8 | 13.0 | 7.6 | 6.1 | 5.3 | 4.6 | 3.8 | 3.8 | 3.1 | 2.3 | 2.3 |
| 87.5° | 26.0 | 5.3 | 6.1 | 5.3 | 5.3 | 3.8 | 3.1 | 2.3 | 2.3 | 1.5 | 0.8 |
| 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)