

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: P632524

Luminaire Tested: GWS-SA2C-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6165.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

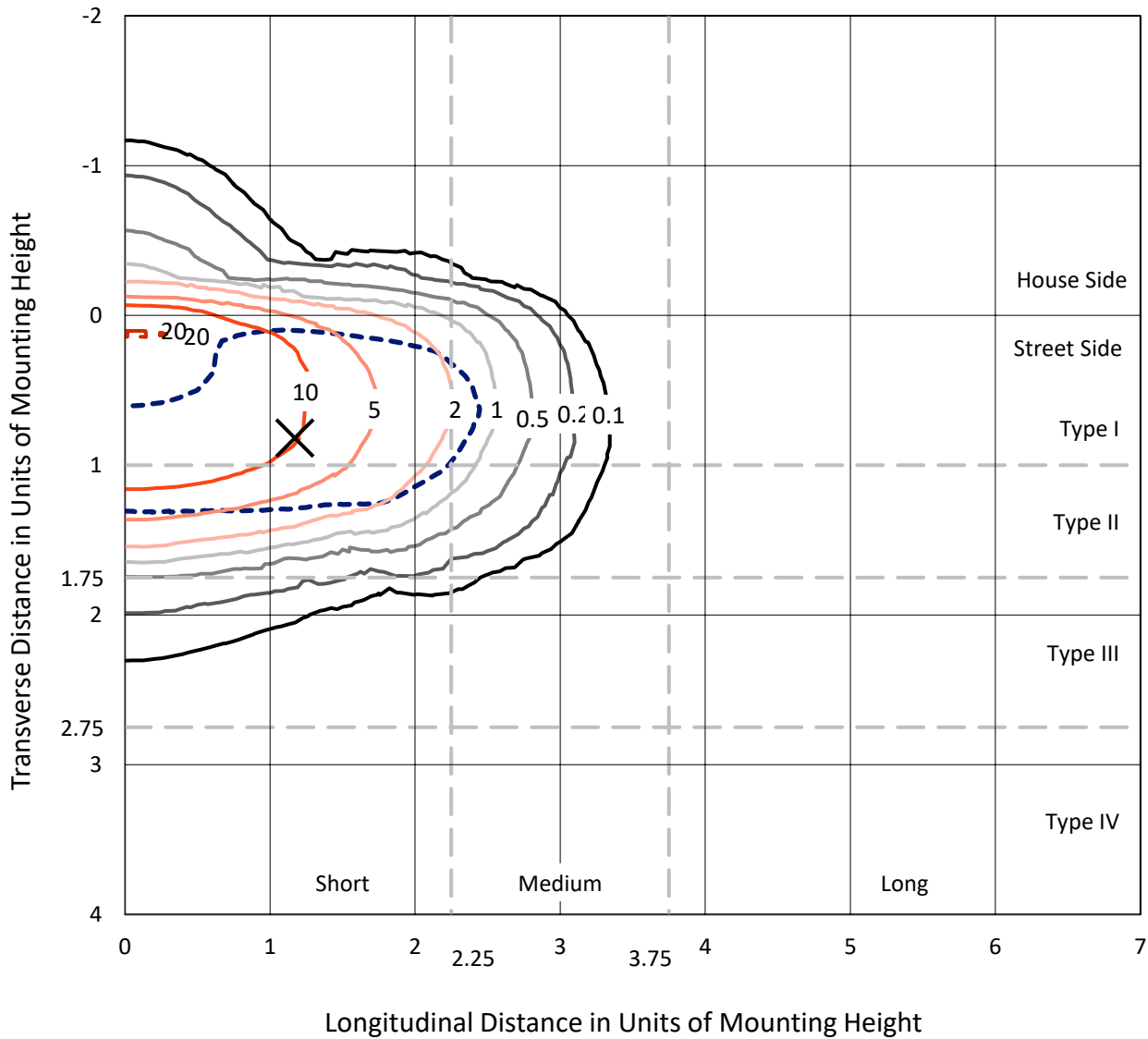
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

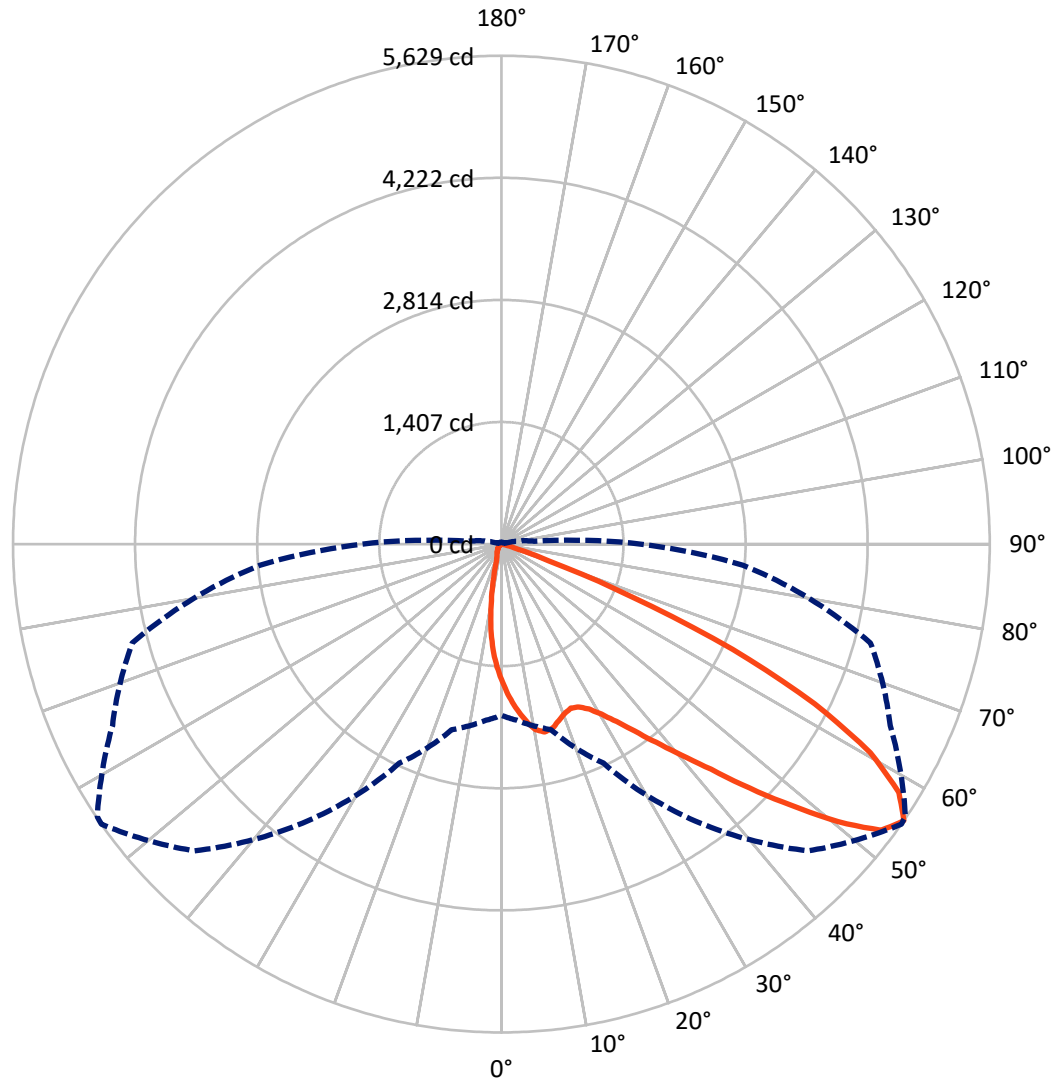
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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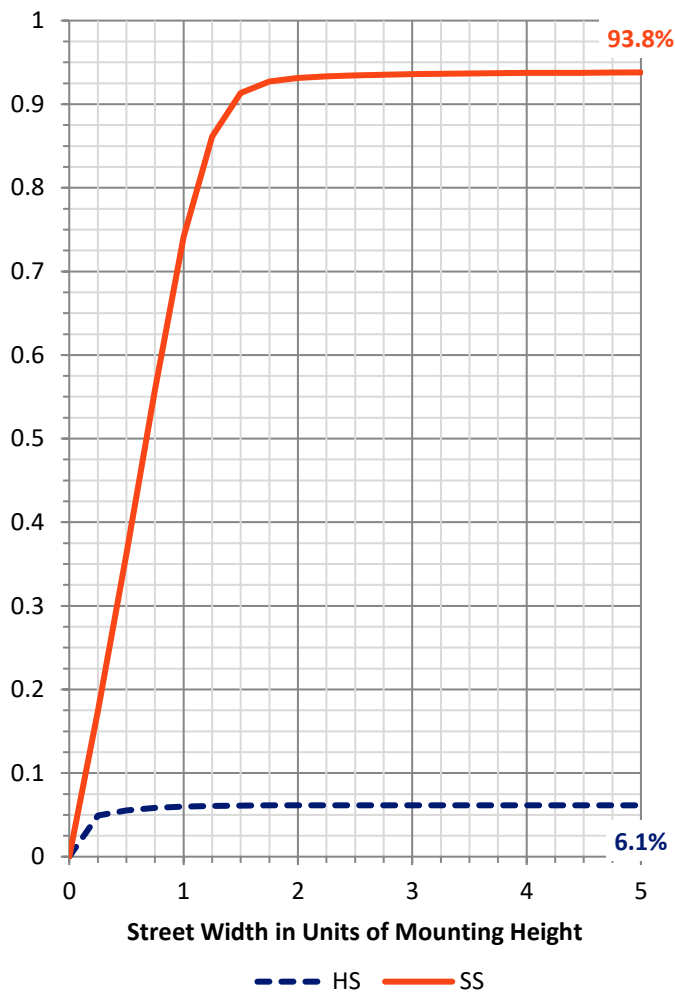
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 380.4 | 0.0 | 380.4 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 5785.2 | 0.0 | 5785.2 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 6165.6 | 0.0 | 6165.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.8 | 2.3 |
| 10°-20° | 339.4 | 5.5 |
| 20°-30° | 565.2 | 9.2 |
| 30°-40° | 963.1 | 15.6 |
| 40°-50° | 1572.1 | 25.5 |
| 50°-60° | 1646.0 | 26.7 |
| 60°-70° | 830.2 | 13.5 |
| 70°-80° | 104.9 | 1.7 |
| 80°-90° | 4.0 | 0.1 |
| 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° | 6165.6 | 100.0 |
| 0°-180° | 6165.6 | 100.0 |

Coefficient of Utilization



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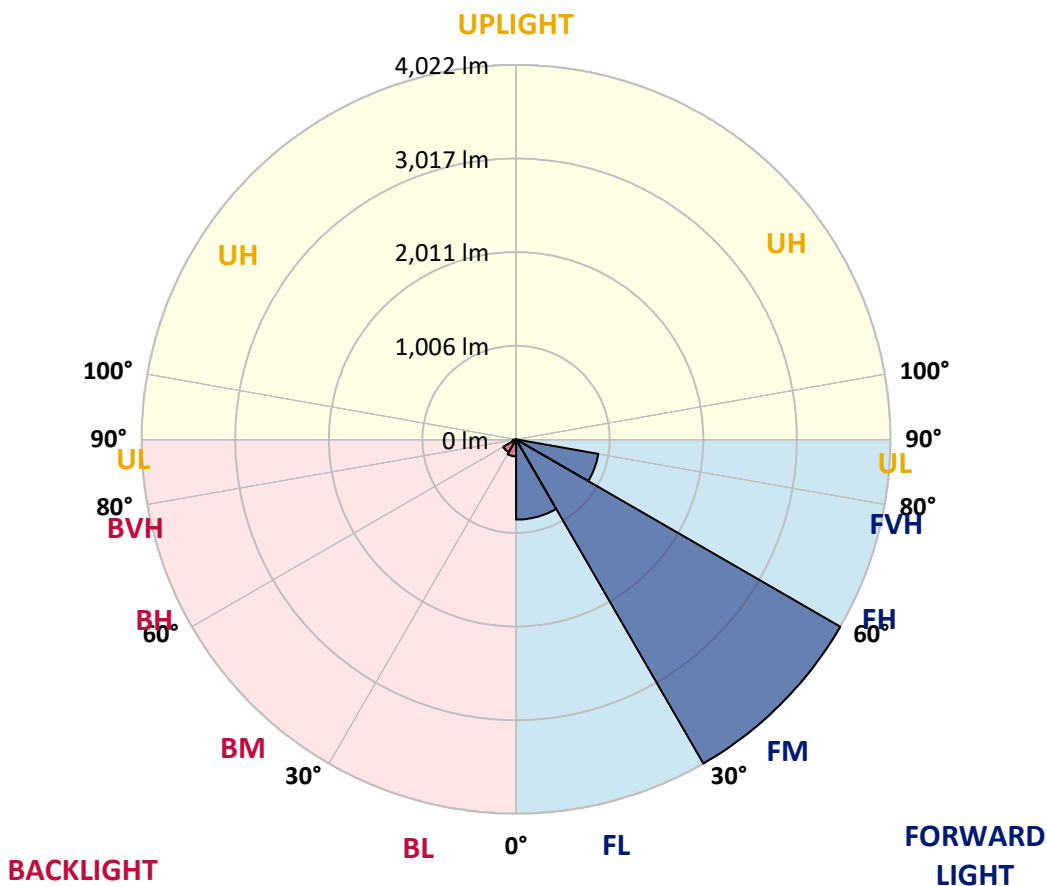
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 862.5 | 14.0 | | | |
| FM (30°-60°) | 4022.2 | 65.2 | | | |
| FH (60°-80°) | 896.9 | 14.5 | | | G1/1800 |
| FVH (80°-90°) | 3.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 182.9 | 3.0 | B1/500 | | |
| BM (30°-60°) | 159.1 | 2.6 | B0/220 | | |
| BH (60°-80°) | 38.2 | 0.6 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 |
| 2.5° | 1856.9 | 1847.9 | 1861.6 | 1845.8 | 1818.9 | 1796.3 | 1766.8 | 1756.2 | 1708.8 | 1664.0 | 1620.8 |
| 5° | 2082.5 | 2085.1 | 2080.9 | 2058.8 | 2020.8 | 1978.7 | 1919.1 | 1905.9 | 1823.2 | 1737.8 | 1645.5 |
| 7.5° | 2138.4 | 2136.8 | 2145.7 | 2154.2 | 2147.8 | 2126.8 | 2061.9 | 2048.8 | 1946.0 | 1817.9 | 1683.5 |
| 10° | 1966.0 | 1967.1 | 1985.5 | 2042.4 | 2113.1 | 2186.3 | 2176.3 | 2168.9 | 2068.3 | 1908.5 | 1725.7 |
| 12.5° | 1722.5 | 1732.0 | 1751.5 | 1832.7 | 1952.3 | 2118.9 | 2222.2 | 2229.5 | 2180.5 | 2008.2 | 1775.2 |
| 15° | 1617.1 | 1619.2 | 1635.0 | 1684.0 | 1773.1 | 1978.7 | 2202.7 | 2223.2 | 2274.3 | 2108.3 | 1829.0 |
| 17.5° | 1614.4 | 1617.1 | 1623.9 | 1645.5 | 1703.5 | 1868.5 | 2139.9 | 2175.8 | 2345.0 | 2215.8 | 1893.3 |
| 20° | 1713.5 | 1711.9 | 1707.2 | 1695.6 | 1720.9 | 1832.1 | 2082.0 | 2121.5 | 2383.4 | 2320.7 | 1958.1 |
| 22.5° | 1893.3 | 1891.2 | 1870.1 | 1822.1 | 1801.6 | 1865.3 | 2053.5 | 2089.3 | 2406.6 | 2414.0 | 2011.3 |
| 25° | 2100.4 | 2115.2 | 2075.6 | 2002.9 | 1952.3 | 1950.2 | 2078.8 | 2104.1 | 2426.7 | 2496.8 | 2047.7 |
| 27.5° | 2327.6 | 2332.3 | 2298.6 | 2216.9 | 2143.6 | 2086.2 | 2152.1 | 2171.0 | 2448.8 | 2570.6 | 2068.3 |
| 30° | 2576.9 | 2575.3 | 2536.8 | 2442.0 | 2352.9 | 2270.1 | 2275.4 | 2282.8 | 2500.5 | 2654.9 | 2090.9 |
| 32.5° | 2888.4 | 2895.2 | 2826.7 | 2697.6 | 2590.6 | 2476.2 | 2436.7 | 2437.7 | 2593.8 | 2763.5 | 2125.2 |
| 35° | 3311.6 | 3294.8 | 3204.1 | 3020.2 | 2837.8 | 2714.5 | 2647.0 | 2641.2 | 2737.6 | 2909.5 | 2184.7 |
| 37.5° | 3714.8 | 3716.4 | 3621.6 | 3419.2 | 3188.8 | 2994.3 | 2898.9 | 2883.1 | 2940.0 | 3111.9 | 2283.8 |
| 40° | 3994.7 | 4000.0 | 3960.5 | 3854.5 | 3610.5 | 3335.4 | 3195.1 | 3178.8 | 3202.5 | 3368.0 | 2413.5 |
| 42.5° | 4142.8 | 4157.6 | 4168.7 | 4193.4 | 4008.4 | 3761.2 | 3545.7 | 3544.1 | 3519.3 | 3660.0 | 2563.7 |
| 45° | 4148.6 | 4170.8 | 4238.2 | 4407.4 | 4428.5 | 4247.2 | 4012.6 | 3977.3 | 3881.9 | 3972.6 | 2698.1 |
| 47.5° | 3919.4 | 3970.5 | 4113.8 | 4449.1 | 4670.4 | 4730.5 | 4498.1 | 4476.5 | 4208.7 | 4219.8 | 2798.8 |
| 50° | 3384.9 | 3438.1 | 3702.2 | 4235.6 | 4731.6 | 5114.2 | 5031.0 | 4986.2 | 4481.7 | 4383.2 | 2847.3 |
| 52.5° | 2836.7 | 2885.2 | 3064.4 | 3727.5 | 4478.1 | 5234.9 | 5480.0 | 5426.8 | 4726.8 | 4440.1 | 2827.2 |
| 55° | 1973.9 | 2038.7 | 2213.7 | 2786.1 | 3894.1 | 4999.9 | 5628.7 | 5617.6 | 4945.6 | 4404.3 | 2796.1 |
| 57.5° | 967.7 | 1032.0 | 1206.5 | 1717.7 | 2884.7 | 4365.3 | 5401.5 | 5460.0 | 5076.3 | 4365.8 | 2770.8 |
| 60° | 404.3 | 430.6 | 490.7 | 753.7 | 1613.9 | 3299.0 | 4888.6 | 4969.8 | 4996.2 | 4313.6 | 2768.2 |
| 62.5° | 234.5 | 238.8 | 245.1 | 312.6 | 627.7 | 1891.2 | 4055.3 | 4170.8 | 4575.0 | 4244.6 | 2726.6 |
| 65° | 177.1 | 178.7 | 176.0 | 191.9 | 259.3 | 717.4 | 2930.0 | 3087.1 | 3818.7 | 3974.7 | 2562.1 |
| 67.5° | 145.5 | 145.5 | 138.6 | 141.8 | 162.9 | 268.8 | 1617.6 | 1836.9 | 2825.7 | 3266.8 | 2115.7 |
| 70° | 116.0 | 118.6 | 115.4 | 111.2 | 116.5 | 148.6 | 575.6 | 713.7 | 1645.5 | 1929.1 | 1233.9 |
| 72.5° | 88.0 | 88.0 | 93.3 | 90.1 | 86.4 | 93.3 | 200.8 | 225.6 | 660.4 | 804.3 | 445.4 |
| 75° | 68.0 | 70.1 | 73.8 | 70.6 | 65.4 | 55.3 | 96.5 | 102.3 | 199.2 | 187.1 | 99.6 |
| 77.5° | 34.8 | 35.3 | 46.9 | 51.7 | 48.5 | 33.7 | 42.2 | 46.4 | 64.8 | 58.0 | 36.9 |
| 80° | 21.1 | 22.1 | 26.4 | 40.6 | 32.2 | 17.9 | 17.4 | 18.4 | 30.6 | 26.4 | 15.3 |
| 82.5° | 9.0 | 9.5 | 14.8 | 14.8 | 13.2 | 6.9 | 6.9 | 6.9 | 14.8 | 13.7 | 6.3 |
| 85° | 0.0 | 0.0 | 2.6 | 2.1 | 2.1 | 2.6 | 2.6 | 2.6 | 3.7 | 5.3 | 3.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.6 | 1.6 |
| 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° | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 | 1592.8 |
| 2.5° | 1592.8 | 1559.1 | 1513.8 | 1472.7 | 1417.3 | 1386.2 | 1343.0 | 1307.7 | 1277.6 | 1268.1 | 1263.9 |
| 5° | 1593.4 | 1535.4 | 1438.4 | 1341.4 | 1222.3 | 1128.5 | 1032.0 | 955.6 | 892.9 | 872.8 | 867.6 |
| 7.5° | 1603.9 | 1518.5 | 1361.4 | 1185.4 | 986.2 | 821.7 | 674.7 | 542.9 | 481.7 | 461.2 | 457.0 |
| 10° | 1618.1 | 1504.3 | 1272.4 | 998.3 | 712.1 | 500.7 | 354.7 | 270.4 | 230.3 | 208.2 | 211.4 |
| 12.5° | 1636.6 | 1492.7 | 1173.8 | 795.9 | 471.2 | 275.1 | 195.0 | 163.4 | 155.0 | 150.7 | 148.6 |
| 15° | 1661.4 | 1479.0 | 1051.5 | 595.1 | 288.8 | 177.1 | 150.2 | 141.8 | 138.6 | 136.5 | 136.0 |
| 17.5° | 1686.6 | 1463.2 | 927.1 | 418.5 | 191.9 | 147.1 | 134.9 | 130.7 | 128.6 | 127.0 | 126.5 |
| 20° | 1713.5 | 1436.3 | 781.1 | 288.3 | 151.3 | 132.3 | 124.4 | 119.6 | 117.0 | 114.4 | 113.8 |
| 22.5° | 1725.1 | 1393.1 | 641.5 | 201.9 | 134.4 | 121.8 | 111.7 | 105.9 | 102.8 | 100.7 | 100.7 |
| 25° | 1714.1 | 1323.0 | 497.0 | 153.4 | 122.3 | 110.2 | 100.1 | 93.8 | 91.2 | 89.1 | 89.1 |
| 27.5° | 1684.5 | 1232.8 | 362.6 | 127.0 | 109.1 | 98.0 | 88.5 | 82.8 | 80.6 | 79.6 | 79.6 |
| 30° | 1651.9 | 1119.0 | 255.6 | 109.1 | 94.3 | 85.4 | 77.5 | 73.8 | 73.3 | 72.2 | 72.2 |
| 32.5° | 1623.9 | 1012.5 | 176.0 | 95.9 | 83.3 | 74.3 | 69.0 | 67.5 | 68.0 | 66.9 | 67.5 |
| 35° | 1608.6 | 908.2 | 130.7 | 85.4 | 74.3 | 65.9 | 63.2 | 63.2 | 63.2 | 62.7 | 62.7 |
| 37.5° | 1615.0 | 805.4 | 106.5 | 78.0 | 66.4 | 60.1 | 57.5 | 58.5 | 59.6 | 59.6 | 59.6 |
| 40° | 1646.6 | 714.2 | 94.3 | 71.2 | 59.6 | 54.8 | 52.7 | 54.3 | 55.9 | 56.9 | 56.9 |
| 42.5° | 1686.6 | 640.4 | 85.4 | 65.4 | 54.8 | 49.5 | 48.5 | 50.1 | 51.7 | 52.7 | 52.7 |
| 45° | 1711.9 | 566.1 | 76.4 | 58.0 | 50.1 | 43.7 | 43.7 | 45.9 | 45.3 | 45.9 | 45.9 |
| 47.5° | 1723.5 | 507.0 | 67.5 | 50.1 | 42.7 | 37.9 | 38.5 | 39.5 | 38.5 | 39.5 | 39.5 |
| 50° | 1695.1 | 447.5 | 59.6 | 41.6 | 35.3 | 33.2 | 34.3 | 33.7 | 33.7 | 35.8 | 35.8 |
| 52.5° | 1642.9 | 403.2 | 52.7 | 35.3 | 30.0 | 29.5 | 30.6 | 28.5 | 29.0 | 29.0 | 28.5 |
| 55° | 1604.4 | 377.9 | 46.9 | 30.6 | 25.8 | 26.4 | 25.8 | 22.1 | 20.0 | 17.9 | 17.4 |
| 57.5° | 1585.5 | 367.9 | 42.7 | 27.4 | 23.2 | 23.2 | 21.1 | 15.3 | 11.6 | 9.0 | 7.9 |
| 60° | 1581.2 | 355.8 | 38.5 | 23.7 | 20.6 | 19.5 | 15.3 | 9.0 | 5.8 | 4.2 | 3.7 |
| 62.5° | 1541.2 | 326.3 | 34.8 | 19.0 | 17.9 | 15.8 | 9.5 | 5.3 | 3.2 | 2.1 | 1.6 |
| 65° | 1409.9 | 268.3 | 31.1 | 14.8 | 13.7 | 11.6 | 5.8 | 3.2 | 1.6 | 0.5 | 0.0 |
| 67.5° | 1121.6 | 190.3 | 27.4 | 11.1 | 9.5 | 7.4 | 3.7 | 2.1 | 0.5 | 0.0 | 0.0 |
| 70° | 646.7 | 102.8 | 22.7 | 7.9 | 6.3 | 4.7 | 2.6 | 1.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 216.1 | 48.0 | 17.4 | 5.3 | 4.7 | 3.7 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 |
| 75° | 47.4 | 28.5 | 11.6 | 3.7 | 3.2 | 2.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 17.9 | 20.0 | 5.8 | 2.6 | 2.1 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 6.9 | 13.2 | 2.6 | 1.6 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.7 | 5.3 | 1.6 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.1 | 2.6 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.1 | 0.5 | 0.5 | 0.5 | 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)