

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: STREETWORKS

Report Number: P386412

Luminaire Tested: GAW-SA2A-750-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-750-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8055 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

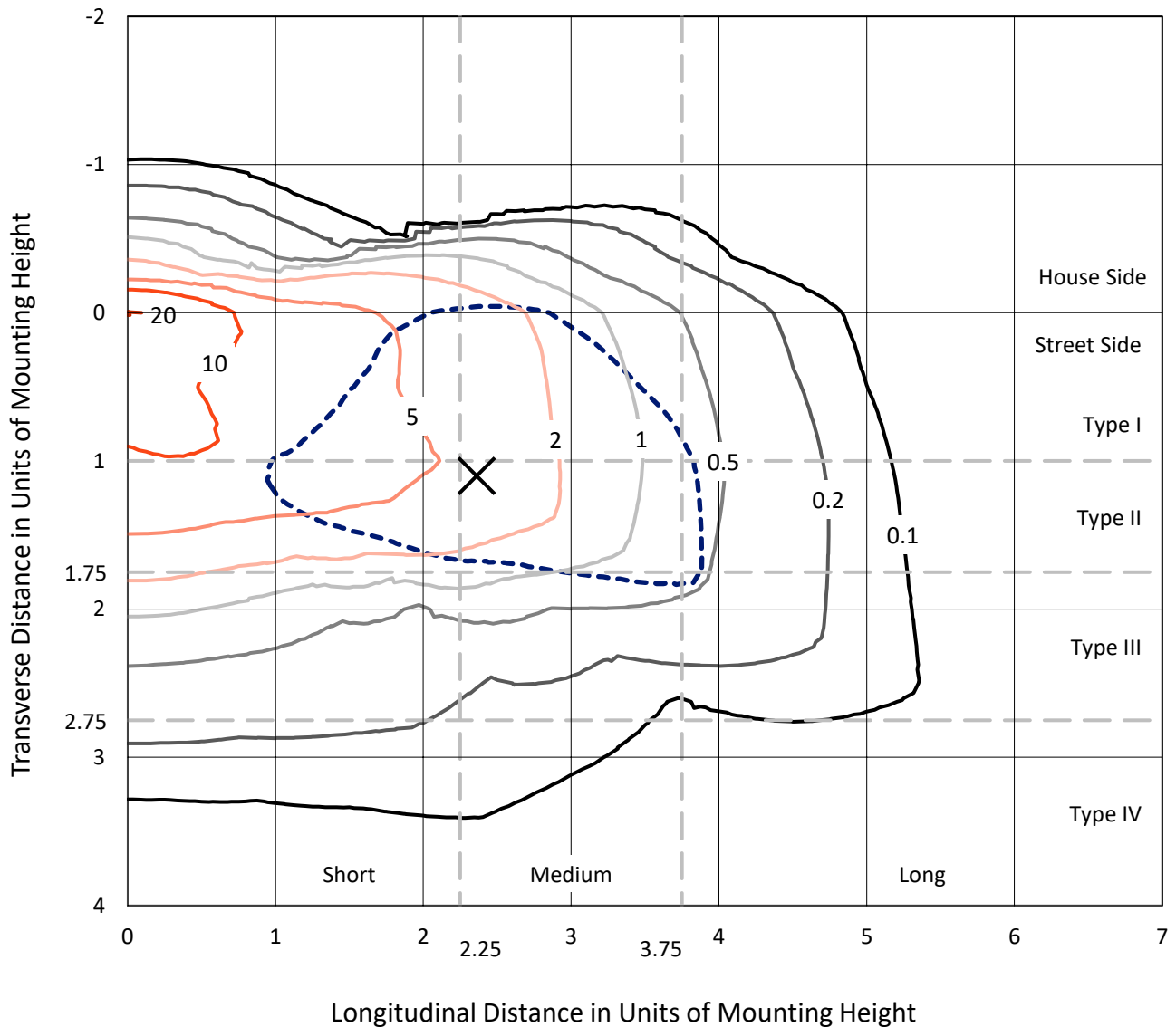
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

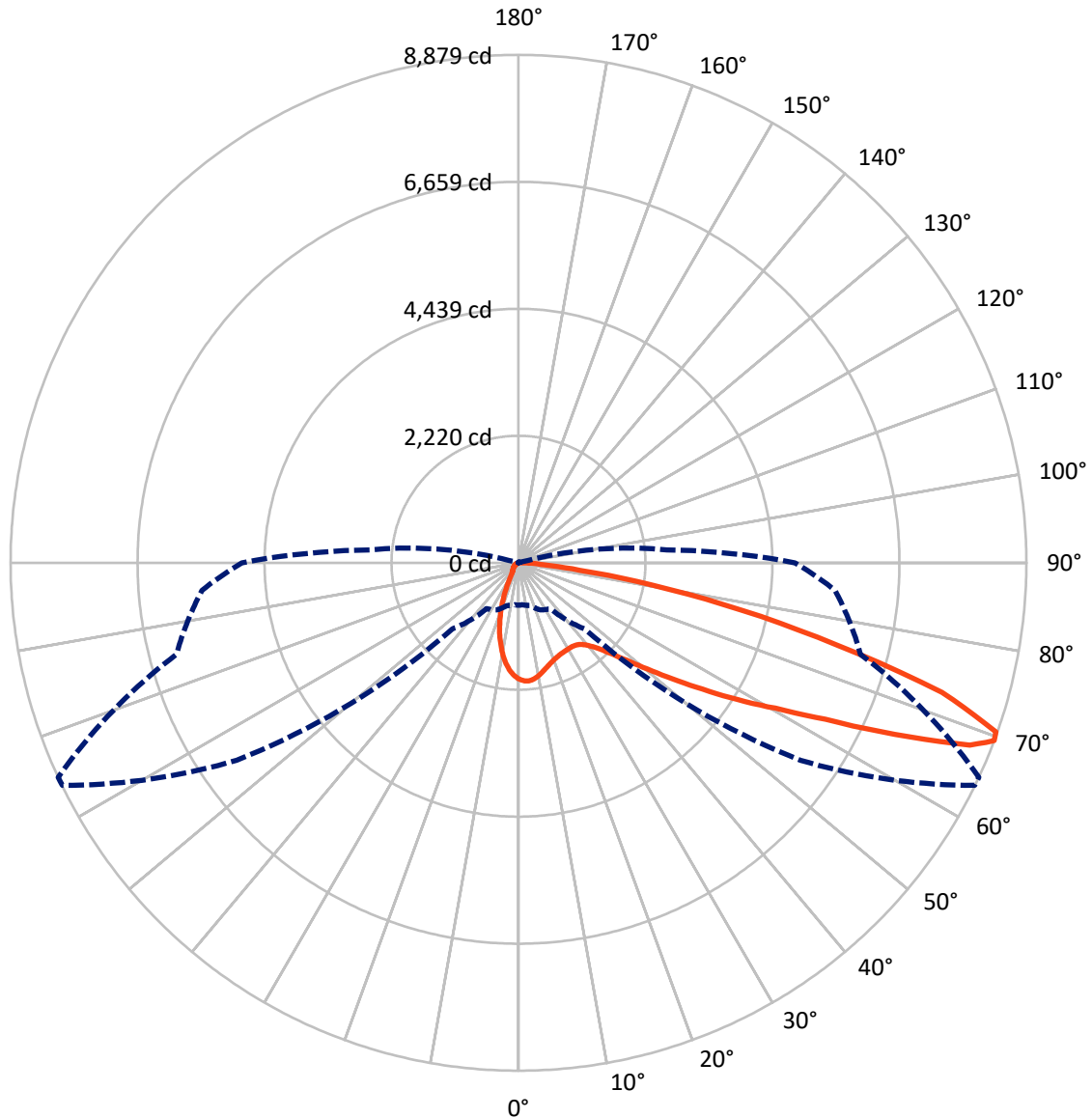
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 949.5 | 0.0 | 949.5 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 7105.5 | 0.0 | 7105.5 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 8055.0 | 0.0 | 8055.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.2 | 2.1 |
| 10°-20° | 372.6 | 4.6 |
| 20°-30° | 516.1 | 6.4 |
| 30°-40° | 719.6 | 8.9 |
| 40°-50° | 1118.4 | 13.9 |
| 50°-60° | 1795.5 | 22.3 |
| 60°-70° | 2031.0 | 25.2 |
| 70°-80° | 1192.8 | 14.8 |
| 80°-90° | 138.8 | 1.7 |
| 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° | 8055.0 | 100.0 |
| 0°-180° | 8055.0 | 100.0 |

Coefficient of Utilization

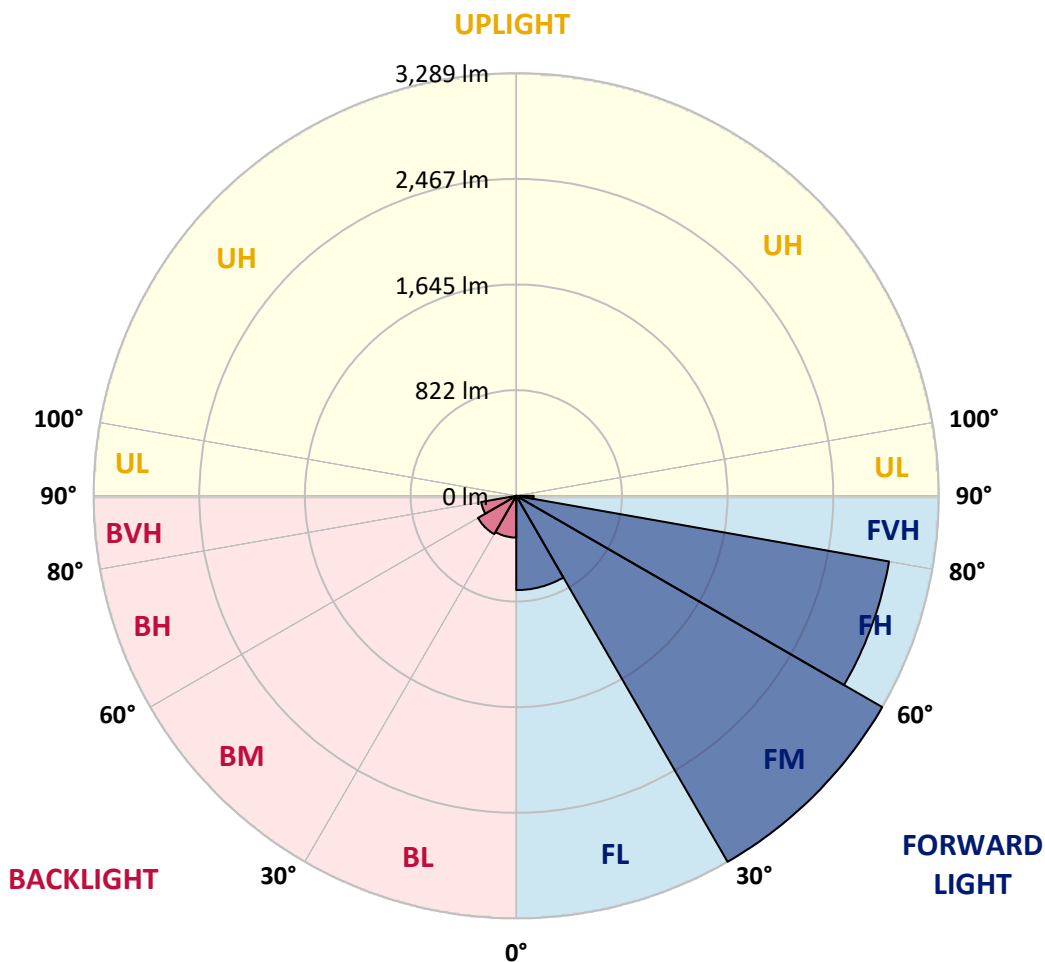


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 734.0 | 9.1 | | | |
| FM (30°-60°) | 3289.4 | 40.8 | | | |
| FH (60°-80°) | 2946.4 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 135.6 | 1.7 | | | G2/225 |
| BL (0°-30°) | 324.9 | 4.0 | B1/500 | | |
| BM (30°-60°) | 344.1 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 277.4 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.1 | 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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 |
| 2.5° | 2053.6 | 2048.5 | 2052.6 | 2061.4 | 2065.8 | 2065.8 | 2069.3 | 2065.2 | 2066.5 | 2056.6 | 2042.3 |
| 5° | 1925.1 | 1917.2 | 1928.5 | 1953.4 | 1984.0 | 2010.3 | 2049.1 | 2069.6 | 2071.6 | 2072.0 | 2055.3 |
| 7.5° | 1786.7 | 1779.5 | 1796.2 | 1825.6 | 1865.1 | 1913.8 | 1981.7 | 2041.0 | 2044.4 | 2076.4 | 2064.1 |
| 10° | 1674.2 | 1669.1 | 1688.5 | 1719.9 | 1766.2 | 1820.8 | 1903.9 | 1986.4 | 1996.3 | 2067.2 | 2062.8 |
| 12.5° | 1584.9 | 1580.8 | 1599.2 | 1635.4 | 1682.7 | 1743.1 | 1830.0 | 1925.8 | 1939.1 | 2046.4 | 2056.0 |
| 15° | 1519.8 | 1519.1 | 1534.5 | 1569.2 | 1621.7 | 1678.0 | 1766.9 | 1869.5 | 1884.9 | 2023.9 | 2054.9 |
| 17.5° | 1485.7 | 1486.8 | 1498.0 | 1527.7 | 1572.6 | 1628.5 | 1713.8 | 1822.1 | 1838.8 | 2003.8 | 2060.1 |
| 20° | 1482.3 | 1483.3 | 1489.5 | 1506.2 | 1542.7 | 1592.1 | 1670.5 | 1782.3 | 1799.6 | 1988.8 | 2068.2 |
| 22.5° | 1512.3 | 1511.6 | 1513.3 | 1511.6 | 1532.1 | 1569.6 | 1641.8 | 1751.6 | 1771.7 | 1978.9 | 2074.7 |
| 25° | 1569.9 | 1568.9 | 1568.2 | 1555.6 | 1542.0 | 1562.1 | 1629.9 | 1734.2 | 1753.3 | 1971.8 | 2078.5 |
| 27.5° | 1650.0 | 1649.3 | 1648.3 | 1627.5 | 1586.6 | 1574.0 | 1631.3 | 1727.7 | 1743.8 | 1966.0 | 2077.8 |
| 30° | 1755.3 | 1760.1 | 1758.7 | 1729.8 | 1666.0 | 1610.5 | 1645.6 | 1724.3 | 1738.3 | 1954.7 | 2070.6 |
| 32.5° | 1879.1 | 1888.6 | 1896.1 | 1865.1 | 1785.3 | 1682.7 | 1678.7 | 1728.1 | 1738.3 | 1946.2 | 2057.7 |
| 35° | 2007.6 | 2019.8 | 2047.4 | 2036.5 | 1931.6 | 1791.5 | 1735.6 | 1750.6 | 1759.1 | 1951.0 | 2051.5 |
| 37.5° | 2134.0 | 2148.7 | 2208.7 | 2240.4 | 2123.1 | 1935.3 | 1824.2 | 1806.1 | 1810.6 | 1980.0 | 2058.3 |
| 40° | 2280.9 | 2303.1 | 2394.1 | 2445.2 | 2351.8 | 2127.9 | 1956.8 | 1901.6 | 1903.3 | 2043.7 | 2090.0 |
| 42.5° | 2473.8 | 2496.7 | 2595.2 | 2675.3 | 2609.5 | 2371.2 | 2136.7 | 2047.4 | 2045.7 | 2163.0 | 2164.7 |
| 45° | 2709.0 | 2732.9 | 2834.8 | 2923.7 | 2894.1 | 2659.6 | 2367.2 | 2260.5 | 2258.4 | 2351.1 | 2306.1 |
| 47.5° | 2975.6 | 2999.1 | 3090.1 | 3181.8 | 3213.8 | 2996.3 | 2660.6 | 2551.2 | 2546.4 | 2612.6 | 2524.6 |
| 50° | 3204.3 | 3219.6 | 3303.4 | 3426.8 | 3571.3 | 3410.1 | 3025.7 | 2920.3 | 2915.2 | 2959.9 | 2845.4 |
| 52.5° | 3287.4 | 3296.3 | 3381.5 | 3554.3 | 3914.9 | 3970.5 | 3505.2 | 3369.6 | 3365.8 | 3385.2 | 3272.4 |
| 55° | 3119.1 | 3135.1 | 3239.7 | 3496.0 | 4101.0 | 4603.8 | 4110.6 | 3925.8 | 3897.5 | 3855.6 | 3718.9 |
| 57.5° | 2660.3 | 2685.8 | 2798.3 | 3139.2 | 4014.1 | 5106.2 | 5000.2 | 4555.0 | 4513.4 | 4257.1 | 4081.9 |
| 60° | 1993.2 | 2024.6 | 2118.0 | 2485.8 | 3550.2 | 5285.1 | 5972.2 | 5256.1 | 5162.4 | 4576.8 | 4415.6 |
| 62.5° | 1367.8 | 1383.5 | 1446.9 | 1686.5 | 2614.6 | 4992.0 | 6785.5 | 6195.2 | 6024.1 | 4924.5 | 4776.6 |
| 65° | 1044.7 | 1050.1 | 1076.0 | 1158.5 | 1557.0 | 4055.0 | 7109.0 | 7434.1 | 7227.2 | 5340.3 | 5151.2 |
| 67.5° | 841.9 | 837.5 | 873.2 | 991.2 | 1042.6 | 2473.8 | 6731.6 | 8606.3 | 8509.5 | 5896.2 | 5528.1 |
| 69° | 742.4 | 736.2 | 772.7 | 909.7 | 979.2 | 1635.4 | 6017.9 | 8872.5 | 8878.6 | 6189.7 | 5554.0 |
| 70° | 668.1 | 672.1 | 708.3 | 861.3 | 957.8 | 1283.6 | 5336.2 | 8804.6 | 8853.0 | 6299.5 | 5398.6 |
| 72.5° | 446.2 | 457.1 | 529.7 | 715.1 | 921.0 | 971.4 | 3222.0 | 7555.5 | 7741.6 | 6052.3 | 4631.7 |
| 75° | 251.5 | 259.7 | 346.0 | 539.2 | 867.8 | 925.0 | 1701.8 | 5566.3 | 5746.3 | 5061.2 | 3571.7 |
| 77.5° | 123.4 | 127.8 | 195.6 | 348.0 | 725.7 | 881.4 | 965.3 | 3781.0 | 3986.5 | 3303.4 | 2020.2 |
| 80° | 52.1 | 54.5 | 97.8 | 214.7 | 518.8 | 841.2 | 716.8 | 2326.9 | 2352.5 | 1294.2 | 538.2 |
| 82.5° | 20.1 | 20.8 | 41.2 | 134.0 | 329.6 | 655.8 | 599.5 | 1103.3 | 1076.7 | 243.7 | 122.7 |
| 85° | 2.4 | 2.7 | 15.0 | 80.4 | 183.4 | 337.4 | 487.1 | 475.5 | 440.0 | 48.4 | 63.1 |
| 87.5° | 0.0 | 0.0 | 1.0 | 24.5 | 54.5 | 158.2 | 253.2 | 197.3 | 177.9 | 15.7 | 32.7 |
| 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° | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 | 2035.5 |
| 2.5° | 2030.4 | 2027.0 | 2008.6 | 1982.0 | 1956.8 | 1925.4 | 1895.4 | 1877.4 | 1863.0 | 1853.5 | 1864.8 |
| 5° | 2035.9 | 2020.9 | 1965.0 | 1893.4 | 1823.2 | 1744.1 | 1670.5 | 1608.1 | 1583.6 | 1556.3 | 1568.6 |
| 7.5° | 2034.1 | 2005.9 | 1905.3 | 1777.8 | 1649.0 | 1515.7 | 1389.6 | 1292.5 | 1242.0 | 1192.6 | 1205.2 |
| 10° | 2025.6 | 1977.9 | 1825.6 | 1636.7 | 1443.8 | 1252.3 | 1073.3 | 937.3 | 861.3 | 792.5 | 802.3 |
| 12.5° | 2006.9 | 1940.4 | 1731.5 | 1475.2 | 1217.1 | 964.6 | 755.0 | 580.8 | 487.4 | 446.2 | 451.3 |
| 15° | 1995.6 | 1903.9 | 1632.0 | 1311.6 | 975.2 | 671.8 | 461.5 | 343.2 | 300.6 | 287.0 | 288.7 |
| 17.5° | 1990.2 | 1868.8 | 1529.0 | 1124.4 | 727.7 | 427.8 | 298.2 | 263.1 | 253.9 | 251.5 | 252.2 |
| 20° | 1984.7 | 1833.4 | 1423.0 | 939.4 | 501.4 | 287.7 | 245.1 | 234.8 | 231.4 | 228.4 | 229.0 |
| 22.5° | 1975.5 | 1799.3 | 1309.2 | 751.9 | 338.1 | 233.5 | 220.9 | 211.0 | 203.8 | 200.1 | 200.8 |
| 25° | 1964.3 | 1763.5 | 1192.9 | 560.0 | 246.8 | 208.3 | 196.3 | 182.4 | 173.8 | 167.0 | 167.4 |
| 27.5° | 1946.2 | 1719.6 | 1073.0 | 407.6 | 207.2 | 186.4 | 170.4 | 155.1 | 140.8 | 132.9 | 132.9 |
| 30° | 1921.0 | 1669.8 | 939.7 | 291.8 | 185.8 | 165.0 | 145.5 | 126.5 | 111.1 | 104.0 | 103.3 |
| 32.5° | 1893.0 | 1618.0 | 805.1 | 221.2 | 168.7 | 144.9 | 122.7 | 102.6 | 89.0 | 83.2 | 82.8 |
| 35° | 1869.2 | 1562.1 | 670.8 | 185.4 | 151.7 | 125.4 | 101.2 | 84.2 | 73.3 | 68.5 | 68.2 |
| 37.5° | 1853.8 | 1506.2 | 539.9 | 165.6 | 136.3 | 107.4 | 84.9 | 69.5 | 61.7 | 57.9 | 57.6 |
| 40° | 1851.5 | 1464.6 | 420.3 | 150.7 | 122.0 | 91.3 | 70.9 | 59.0 | 51.8 | 47.7 | 47.4 |
| 42.5° | 1882.5 | 1440.7 | 322.4 | 138.0 | 107.4 | 77.4 | 60.3 | 50.4 | 42.9 | 38.9 | 38.5 |
| 45° | 1963.9 | 1448.2 | 248.1 | 126.8 | 92.7 | 65.4 | 51.1 | 41.9 | 35.1 | 32.0 | 31.4 |
| 47.5° | 2112.5 | 1500.0 | 197.3 | 115.5 | 78.7 | 55.6 | 43.6 | 34.8 | 29.0 | 25.9 | 25.6 |
| 50° | 2377.0 | 1621.7 | 165.0 | 103.3 | 65.8 | 47.4 | 36.1 | 28.3 | 23.5 | 20.8 | 20.5 |
| 52.5° | 2728.1 | 1838.5 | 147.2 | 91.3 | 54.5 | 40.2 | 29.7 | 22.5 | 18.4 | 16.4 | 16.0 |
| 55° | 3115.3 | 2101.0 | 135.7 | 78.4 | 44.7 | 33.4 | 23.5 | 17.7 | 14.3 | 12.6 | 11.9 |
| 57.5° | 3493.3 | 2328.3 | 124.7 | 65.8 | 37.2 | 27.3 | 18.7 | 14.0 | 11.2 | 9.5 | 9.2 |
| 60° | 3840.6 | 2537.2 | 112.1 | 52.8 | 30.3 | 21.5 | 14.7 | 10.9 | 8.9 | 7.2 | 7.2 |
| 62.5° | 4212.5 | 2698.8 | 94.8 | 41.2 | 24.9 | 16.4 | 11.9 | 9.9 | 7.2 | 6.1 | 5.8 |
| 65° | 4606.5 | 2818.8 | 74.3 | 32.0 | 19.4 | 12.3 | 9.9 | 10.2 | 5.8 | 4.4 | 4.1 |
| 67.5° | 4897.6 | 2794.9 | 54.9 | 25.2 | 15.0 | 9.5 | 9.5 | 10.9 | 5.1 | 3.4 | 3.1 |
| 69° | 4833.5 | 2601.0 | 46.0 | 21.8 | 13.0 | 8.2 | 8.9 | 10.9 | 4.8 | 3.1 | 2.7 |
| 70° | 4647.7 | 2386.2 | 40.6 | 19.4 | 11.6 | 7.5 | 8.5 | 10.6 | 4.4 | 3.1 | 2.7 |
| 72.5° | 3870.6 | 1797.3 | 31.7 | 14.7 | 9.2 | 6.1 | 7.2 | 9.2 | 4.4 | 3.1 | 2.4 |
| 75° | 2911.5 | 1150.3 | 24.2 | 10.6 | 6.8 | 4.8 | 5.5 | 6.8 | 4.4 | 2.7 | 2.4 |
| 77.5° | 1584.2 | 414.8 | 17.4 | 7.2 | 4.8 | 3.7 | 3.7 | 5.1 | 4.1 | 2.0 | 1.4 |
| 80° | 407.3 | 104.3 | 10.9 | 4.8 | 3.7 | 2.7 | 2.4 | 3.4 | 2.4 | 0.3 | 0.0 |
| 82.5° | 100.5 | 23.5 | 5.8 | 3.4 | 2.7 | 1.0 | 1.0 | 1.7 | 1.0 | 0.0 | 0.0 |
| 85° | 55.2 | 11.6 | 3.7 | 2.4 | 1.4 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 28.3 | 3.4 | 1.0 | 0.7 | 0.3 | 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)