

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: P386881

Luminaire Tested: GAW-SA2C-750-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-750-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14658 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

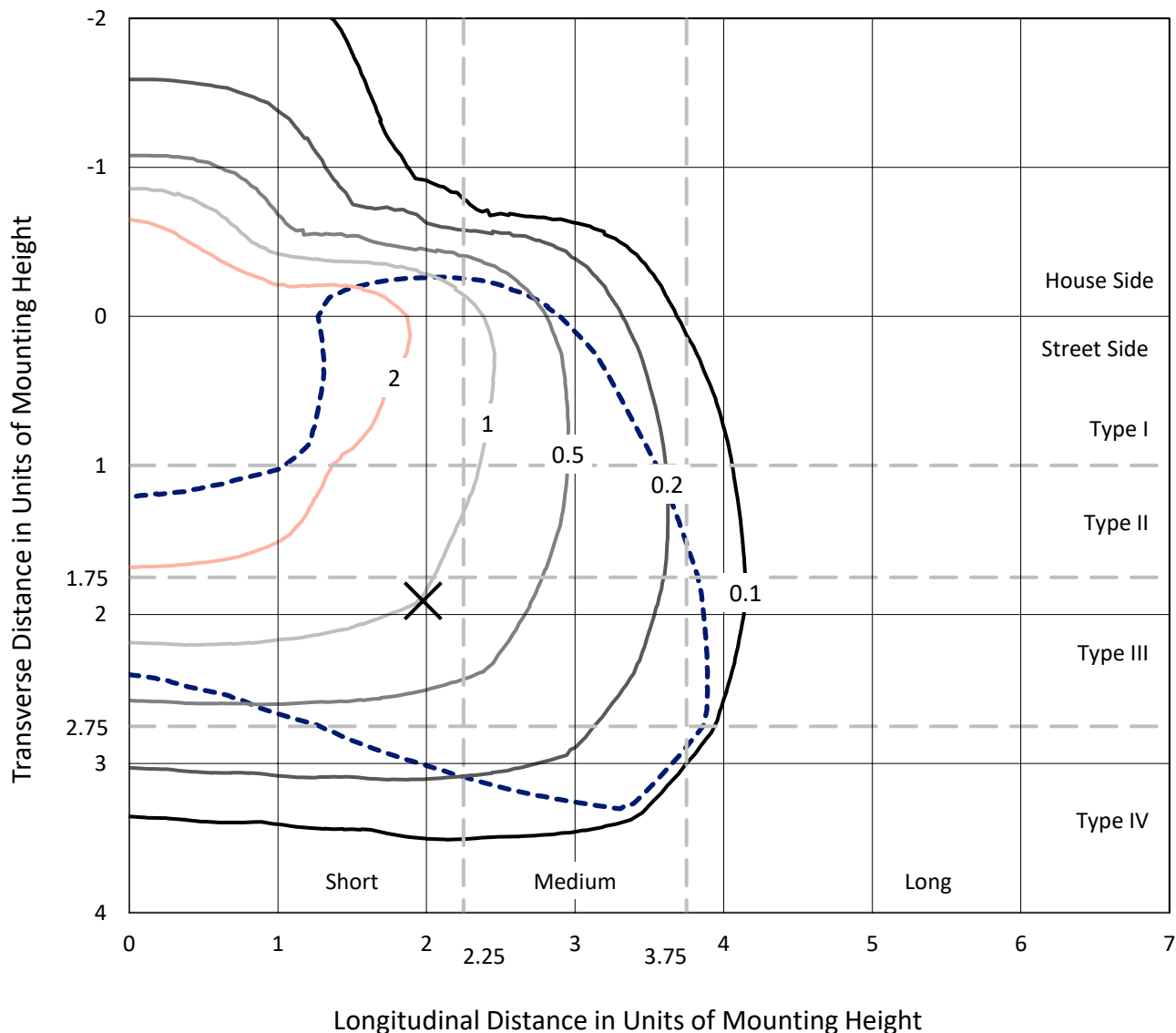
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

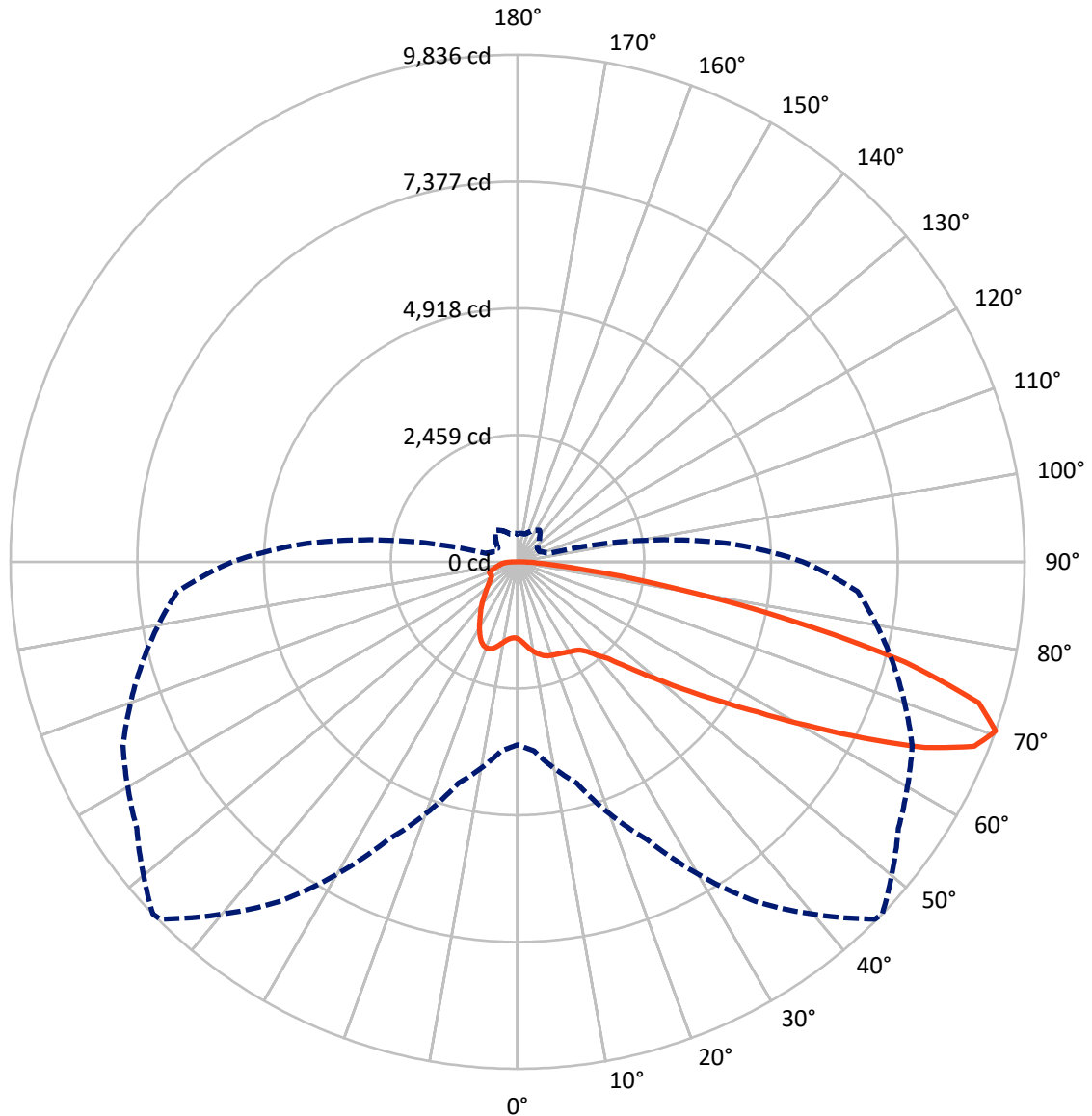
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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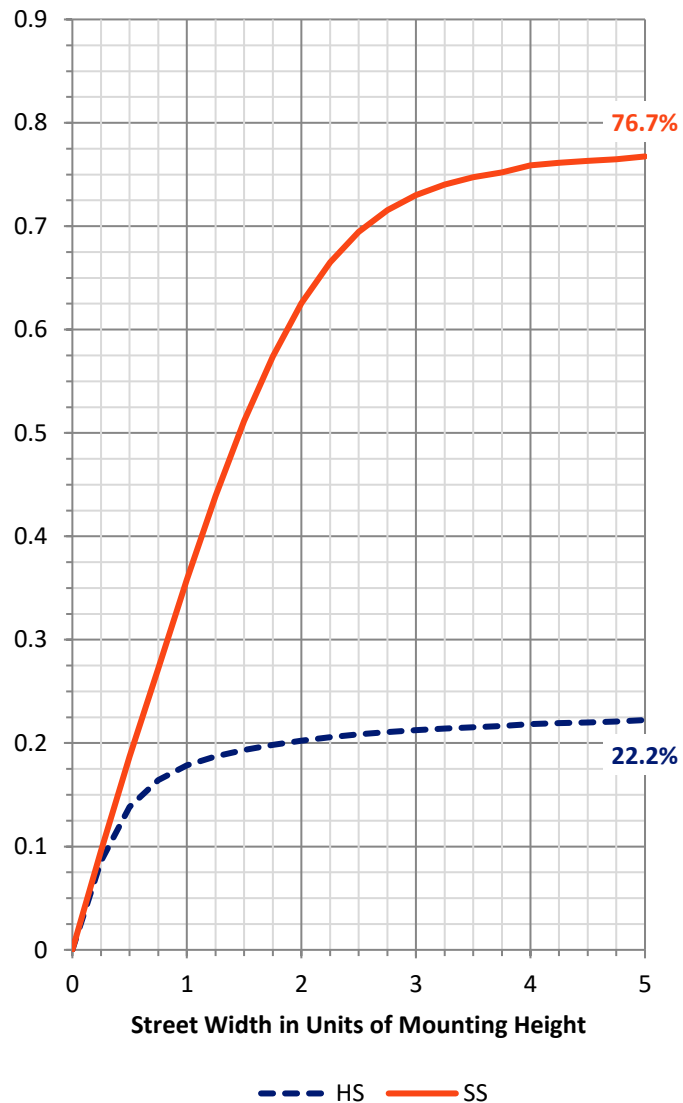
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3359.6   | 0.0    | 3359.6  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 11298.4  | 0.0    | 11298.4 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 14658.0  | 0.0    | 14658.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 152.2   | 1.0       |
| 10°-20°   | 507.2   | 3.5       |
| 20°-30°   | 845.7   | 5.8       |
| 30°-40°   | 1200.1  | 8.2       |
| 40°-50°   | 1765.3  | 12.0      |
| 50°-60°   | 2989.5  | 20.4      |
| 60°-70°   | 4243.6  | 29.0      |
| 70°-80°   | 2578.0  | 17.6      |
| 80°-90°   | 376.2   | 2.6       |
| 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°    | 14658.0 | 100.0     |
| 0°-180°   | 14658.0 | 100.0     |

**Coefficient of Utilization**

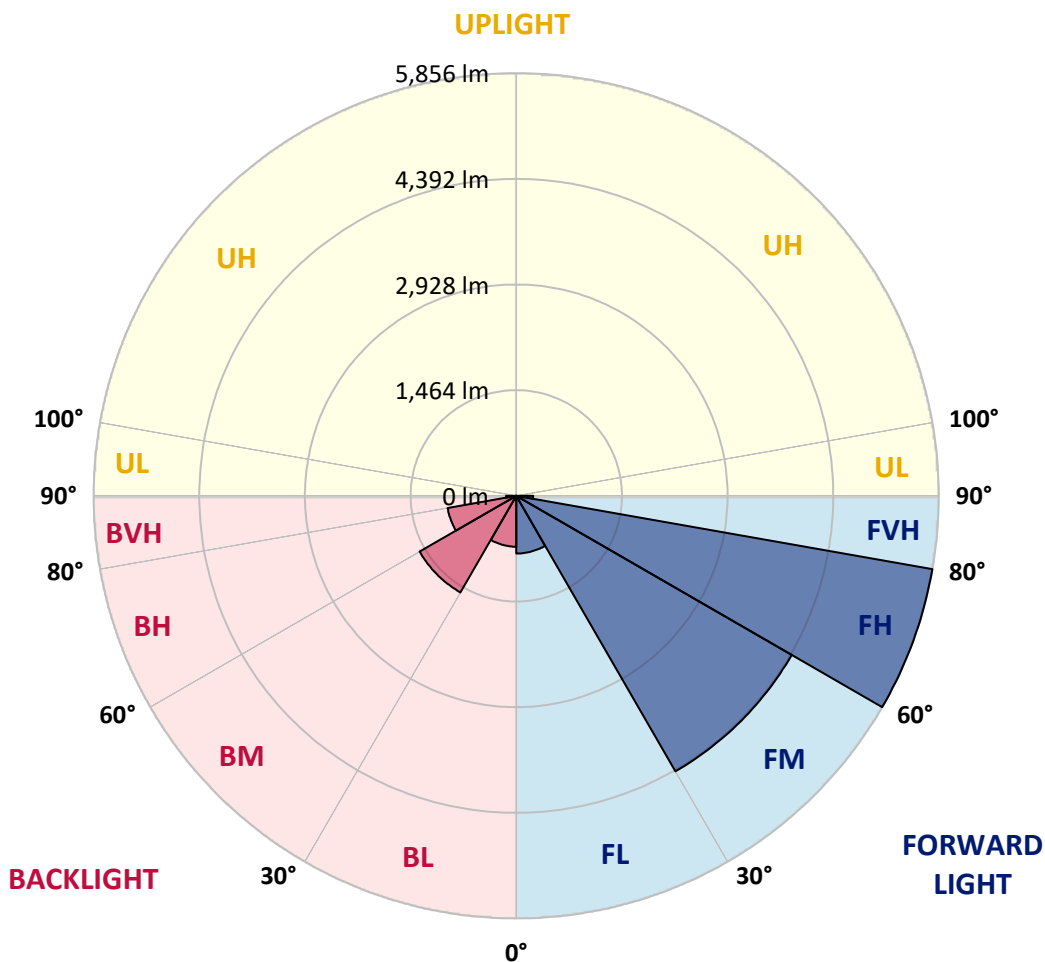


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 799.8  | 5.5       |                         |      |         |
| FM (30°-60°)   | 4408.5 | 30.1      |                         |      |         |
| FH (60°-80°)   | 5855.8 | 39.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 234.4  | 1.6       |                         |      | G3/500  |
| BL (0°-30°)    | 705.4  | 4.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1546.5 | 10.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 965.8  | 6.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 141.9  | 1.0       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 |
| 2.5°  | 1568.1 | 1569.1 | 1571.1 | 1566.1 | 1552.1 | 1548.0 | 1546.5 | 1532.0 | 1522.5 | 1508.4 | 1496.4 |
| 5°    | 1693.5 | 1694.5 | 1691.5 | 1677.5 | 1646.4 | 1623.3 | 1621.3 | 1588.2 | 1558.1 | 1526.0 | 1501.9 |
| 7.5°  | 1824.4 | 1825.9 | 1816.4 | 1789.8 | 1746.2 | 1706.1 | 1703.5 | 1658.4 | 1612.8 | 1564.1 | 1528.0 |
| 10°   | 1940.3 | 1934.3 | 1918.7 | 1881.6 | 1830.0 | 1780.8 | 1778.8 | 1731.6 | 1679.0 | 1620.3 | 1572.1 |
| 12.5° | 2017.6 | 2012.6 | 1992.5 | 1947.3 | 1890.7 | 1845.5 | 1841.5 | 1797.9 | 1746.7 | 1682.5 | 1624.8 |
| 15°   | 2060.2 | 2063.7 | 2036.6 | 1985.5 | 1930.3 | 1892.2 | 1888.7 | 1857.5 | 1811.9 | 1747.2 | 1681.0 |
| 17.5° | 2065.7 | 2068.7 | 2042.7 | 1992.0 | 1946.8 | 1920.8 | 1919.3 | 1898.7 | 1865.6 | 1803.4 | 1734.1 |
| 20°   | 2033.6 | 2035.6 | 2014.1 | 1972.4 | 1942.8 | 1934.8 | 1934.3 | 1925.3 | 1900.7 | 1845.5 | 1778.3 |
| 22.5° | 1987.0 | 1988.5 | 1972.9 | 1942.8 | 1932.8 | 1945.3 | 1948.8 | 1945.3 | 1927.8 | 1876.1 | 1812.9 |
| 25°   | 1975.4 | 1974.4 | 1958.4 | 1927.8 | 1936.3 | 1962.9 | 1967.4 | 1968.9 | 1956.9 | 1911.7 | 1857.0 |
| 27.5° | 2031.1 | 2027.6 | 1997.0 | 1947.8 | 1953.4 | 1985.5 | 1991.5 | 2006.0 | 1998.5 | 1958.9 | 1907.2 |
| 30°   | 2192.1 | 2186.1 | 2123.4 | 2024.1 | 1997.0 | 2013.6 | 2021.1 | 2044.2 | 2045.7 | 2012.6 | 1973.9 |
| 32.5° | 2464.0 | 2456.5 | 2344.1 | 2166.6 | 2070.7 | 2042.2 | 2049.2 | 2083.8 | 2102.3 | 2076.8 | 2035.1 |
| 35°   | 2807.6 | 2799.1 | 2651.6 | 2408.8 | 2194.1 | 2096.8 | 2101.8 | 2129.4 | 2166.6 | 2130.4 | 2075.3 |
| 37.5° | 3165.8 | 3145.2 | 3003.3 | 2693.8 | 2390.3 | 2213.7 | 2213.7 | 2217.2 | 2234.8 | 2159.5 | 2122.4 |
| 40°   | 3522.0 | 3501.4 | 3373.0 | 3028.9 | 2644.1 | 2397.8 | 2386.3 | 2308.5 | 2294.5 | 2229.8 | 2217.2 |
| 42.5° | 3853.0 | 3847.0 | 3771.3 | 3407.6 | 2942.1 | 2578.9 | 2562.8 | 2430.9 | 2433.9 | 2393.8 | 2394.3 |
| 45°   | 4205.2 | 4205.2 | 4143.5 | 3789.8 | 3289.2 | 2869.8 | 2853.8 | 2659.7 | 2689.8 | 2671.2 | 2715.8 |
| 47.5° | 4492.6 | 4501.7 | 4493.1 | 4188.1 | 3693.0 | 3239.5 | 3210.5 | 2976.7 | 3061.0 | 3124.7 | 3254.6 |
| 50°   | 4786.1 | 4800.1 | 4801.6 | 4625.1 | 4181.1 | 3679.0 | 3645.9 | 3397.6 | 3585.7 | 3768.3 | 4023.6 |
| 52.5° | 5212.0 | 5243.6 | 5117.7 | 5061.0 | 4779.1 | 4200.7 | 4168.1 | 3938.8 | 4252.8 | 4509.2 | 4949.1 |
| 55°   | 5606.8 | 5579.2 | 5489.4 | 5524.5 | 5419.1 | 4794.6 | 4770.0 | 4568.9 | 4996.3 | 5329.4 | 5900.7 |
| 57.5° | 5820.5 | 5818.4 | 5908.7 | 6059.2 | 6109.4 | 5527.0 | 5506.4 | 5310.8 | 5834.5 | 6084.8 | 6794.1 |
| 60°   | 6071.3 | 6074.8 | 6298.5 | 6640.1 | 6846.8 | 6439.0 | 6429.9 | 6281.5 | 6648.7 | 6790.1 | 7494.9 |
| 62.5° | 6106.4 | 6169.6 | 6554.8 | 7142.8 | 7537.0 | 7504.4 | 7524.5 | 7155.8 | 7377.0 | 7352.9 | 8018.1 |
| 65°   | 5702.6 | 5785.8 | 6483.1 | 7294.8 | 8223.3 | 8669.7 | 8688.3 | 8035.2 | 7951.4 | 7834.0 | 8205.2 |
| 67.5° | 4874.9 | 4998.3 | 5755.7 | 6964.2 | 8449.5 | 9531.0 | 9557.1 | 8716.9 | 8427.9 | 7997.0 | 7754.8 |
| 70°   | 3547.6 | 3684.5 | 4447.0 | 5947.9 | 8046.2 | 9806.4 | 9836.0 | 9018.4 | 8446.0 | 7533.0 | 6620.1 |
| 72.5° | 2143.0 | 2250.3 | 2878.9 | 4378.8 | 6791.1 | 9304.8 | 9357.5 | 8636.1 | 7711.1 | 6380.8 | 4888.4 |
| 75°   | 941.1  | 1011.3 | 1392.0 | 2523.2 | 4861.8 | 7698.6 | 7764.3 | 7392.1 | 6265.4 | 4637.1 | 2889.4 |
| 77.5° | 400.8  | 420.9  | 570.9  | 1096.1 | 2748.5 | 5260.6 | 5350.9 | 5401.1 | 4250.8 | 2523.2 | 1221.0 |
| 80°   | 249.8  | 257.8  | 323.1  | 496.1  | 1286.2 | 2954.6 | 3051.9 | 3177.8 | 2110.9 | 927.5  | 426.4  |
| 82.5° | 152.0  | 161.0  | 214.7  | 300.0  | 669.7  | 1339.4 | 1386.0 | 1474.8 | 819.2  | 400.8  | 220.7  |
| 85°   | 91.3   | 97.8   | 131.4  | 189.6  | 381.2  | 526.7  | 526.2  | 581.9  | 385.8  | 257.8  | 116.4  |
| 87.5° | 43.6   | 48.7   | 70.2   | 98.3   | 192.1  | 197.6  | 185.1  | 209.7  | 234.3  | 169.1  | 58.7   |
| 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°    | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 | 1493.4 |
| 2.5°  | 1492.4 | 1490.4 | 1483.8 | 1478.8 | 1477.8 | 1474.8 | 1472.3 | 1473.8 | 1475.8 | 1476.3 | 1476.3 |
| 5°    | 1491.9 | 1486.3 | 1477.8 | 1474.3 | 1478.8 | 1484.8 | 1492.4 | 1502.4 | 1508.4 | 1512.9 | 1515.9 |
| 7.5°  | 1515.9 | 1505.4 | 1495.9 | 1493.9 | 1502.9 | 1518.9 | 1536.0 | 1557.1 | 1571.6 | 1581.7 | 1583.7 |
| 10°   | 1556.1 | 1543.0 | 1533.5 | 1535.5 | 1551.6 | 1574.6 | 1598.7 | 1625.8 | 1647.9 | 1661.4 | 1662.4 |
| 12.5° | 1602.2 | 1589.7 | 1580.6 | 1589.2 | 1615.8 | 1643.9 | 1668.9 | 1692.5 | 1712.6 | 1726.1 | 1726.1 |
| 15°   | 1655.4 | 1646.4 | 1635.8 | 1655.4 | 1691.5 | 1716.6 | 1727.1 | 1738.7 | 1749.7 | 1759.7 | 1757.7 |
| 17.5° | 1706.6 | 1698.0 | 1692.5 | 1715.6 | 1753.2 | 1764.7 | 1757.7 | 1749.2 | 1749.2 | 1754.7 | 1755.7 |
| 20°   | 1750.7 | 1743.2 | 1746.7 | 1769.3 | 1788.8 | 1776.8 | 1750.7 | 1723.6 | 1712.6 | 1715.6 | 1718.6 |
| 22.5° | 1789.3 | 1785.8 | 1796.4 | 1806.9 | 1792.8 | 1750.7 | 1702.5 | 1665.9 | 1652.4 | 1651.4 | 1652.4 |
| 25°   | 1834.5 | 1834.0 | 1847.0 | 1828.0 | 1765.8 | 1688.0 | 1623.3 | 1587.7 | 1580.1 | 1586.2 | 1596.2 |
| 27.5° | 1890.7 | 1896.2 | 1902.7 | 1833.0 | 1710.6 | 1593.2 | 1527.5 | 1502.9 | 1510.4 | 1525.0 | 1534.5 |
| 30°   | 1962.4 | 1977.4 | 1963.4 | 1820.4 | 1631.3 | 1484.8 | 1422.1 | 1415.1 | 1435.7 | 1456.2 | 1466.3 |
| 32.5° | 2032.1 | 2055.7 | 2021.6 | 1787.8 | 1529.0 | 1370.0 | 1321.3 | 1319.3 | 1344.4 | 1364.4 | 1378.5 |
| 35°   | 2088.3 | 2135.0 | 2065.2 | 1723.1 | 1410.6 | 1264.1 | 1228.5 | 1215.0 | 1224.0 | 1247.6 | 1263.6 |
| 37.5° | 2161.5 | 2239.3 | 2095.3 | 1624.3 | 1282.2 | 1176.8 | 1135.2 | 1104.1 | 1096.1 | 1105.6 | 1113.6 |
| 40°   | 2295.5 | 2398.3 | 2109.4 | 1486.3 | 1156.8 | 1089.5 | 1047.4 | 1001.8 | 970.2  | 947.1  | 947.6  |
| 42.5° | 2514.2 | 2605.5 | 2100.3 | 1318.8 | 1040.9 | 1004.3 | 956.6  | 903.9  | 852.8  | 800.6  | 796.6  |
| 45°   | 2869.3 | 2913.5 | 2073.3 | 1141.2 | 939.1  | 915.0  | 870.3  | 817.7  | 749.4  | 690.2  | 684.7  |
| 47.5° | 3437.7 | 3339.9 | 2031.1 | 986.2  | 849.3  | 839.2  | 798.1  | 737.4  | 665.2  | 617.5  | 613.5  |
| 50°   | 4212.7 | 3955.4 | 2010.5 | 862.8  | 770.0  | 773.0  | 739.4  | 675.2  | 607.0  | 571.9  | 567.8  |
| 52.5° | 5139.7 | 4672.2 | 2050.2 | 767.5  | 706.3  | 716.8  | 691.8  | 631.6  | 574.4  | 546.8  | 542.8  |
| 55°   | 6101.4 | 5414.6 | 2092.8 | 698.3  | 646.1  | 666.7  | 658.1  | 608.5  | 556.8  | 531.2  | 527.7  |
| 57.5° | 6924.6 | 5968.9 | 2007.5 | 642.1  | 592.4  | 624.5  | 632.1  | 593.9  | 547.8  | 524.7  | 520.7  |
| 60°   | 7442.7 | 6192.2 | 1783.8 | 589.4  | 549.8  | 590.9  | 617.0  | 589.9  | 551.3  | 549.3  | 546.3  |
| 62.5° | 7688.5 | 6172.6 | 1448.2 | 547.8  | 523.2  | 576.4  | 628.0  | 612.5  | 591.4  | 609.5  | 611.0  |
| 65°   | 7578.2 | 5877.6 | 1078.5 | 520.2  | 504.1  | 581.9  | 661.2  | 655.1  | 603.0  | 621.0  | 623.5  |
| 67.5° | 6851.8 | 5173.8 | 798.6  | 496.1  | 483.1  | 597.4  | 721.3  | 669.2  | 580.4  | 593.4  | 585.4  |
| 70°   | 5538.0 | 4101.9 | 616.0  | 469.0  | 461.5  | 595.4  | 748.4  | 660.7  | 555.8  | 558.8  | 537.2  |
| 72.5° | 3818.9 | 2797.1 | 501.1  | 443.9  | 430.4  | 542.8  | 729.4  | 639.6  | 535.2  | 512.2  | 483.6  |
| 75°   | 2076.8 | 1501.4 | 425.9  | 417.9  | 375.7  | 476.6  | 694.3  | 624.5  | 516.7  | 486.1  | 470.0  |
| 77.5° | 817.2  | 623.0  | 369.7  | 382.2  | 328.6  | 420.9  | 655.1  | 595.9  | 491.1  | 451.0  | 442.9  |
| 80°   | 333.6  | 318.0  | 306.5  | 330.6  | 282.4  | 368.2  | 608.0  | 562.3  | 460.5  | 418.4  | 402.3  |
| 82.5° | 189.1  | 197.6  | 238.3  | 260.8  | 229.2  | 339.1  | 585.4  | 535.2  | 423.9  | 374.7  | 355.7  |
| 85°   | 96.8   | 115.9  | 166.0  | 187.1  | 168.5  | 288.4  | 539.3  | 468.5  | 340.1  | 286.9  | 288.4  |
| 87.5° | 46.7   | 64.7   | 104.8  | 117.4  | 109.4  | 208.7  | 402.8  | 339.6  | 264.9  | 209.7  | 203.2  |
| 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)