

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P399330

Luminaire Tested: **ARCH-L-PA3-130-722-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399330  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-722-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15482 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

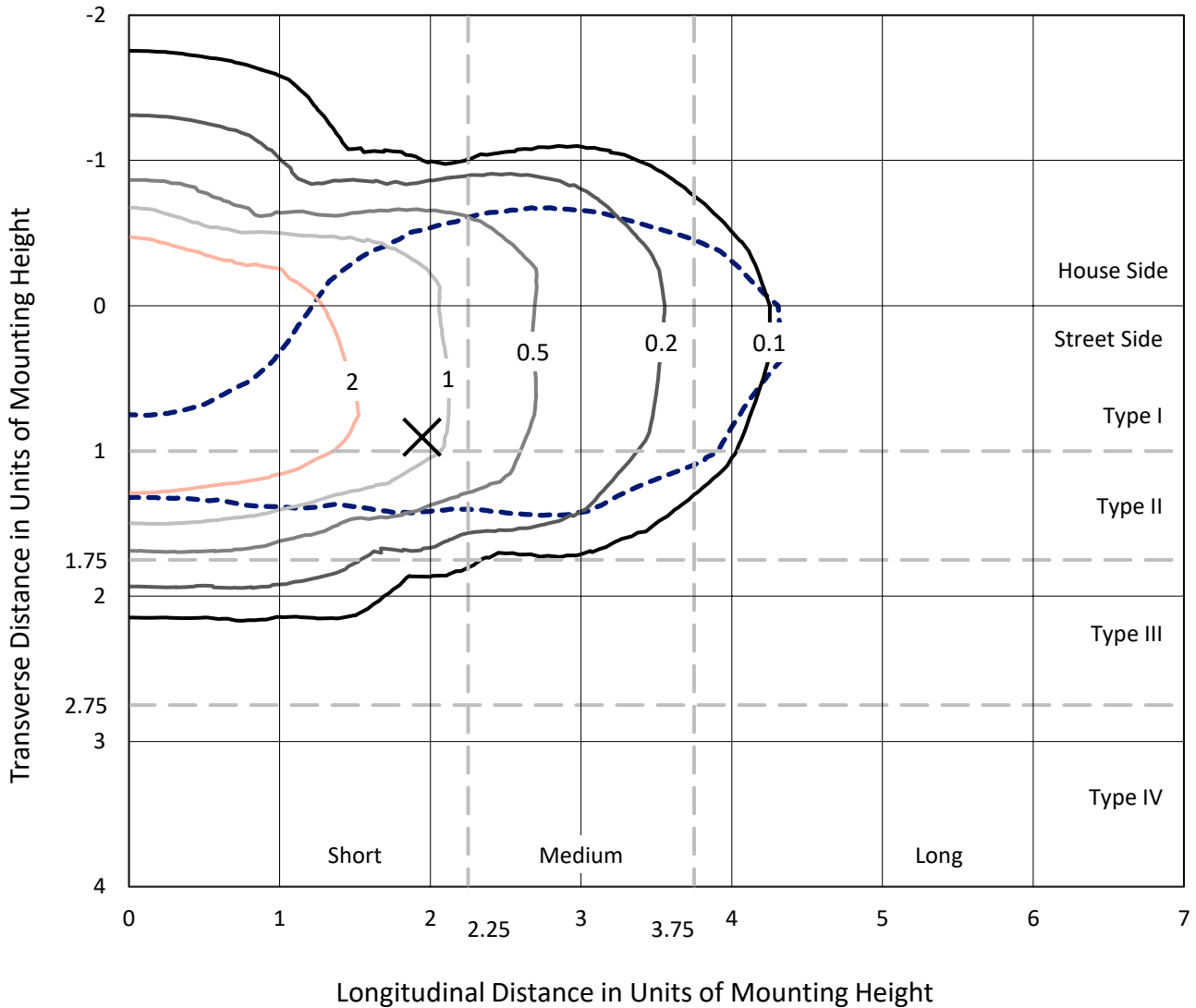
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

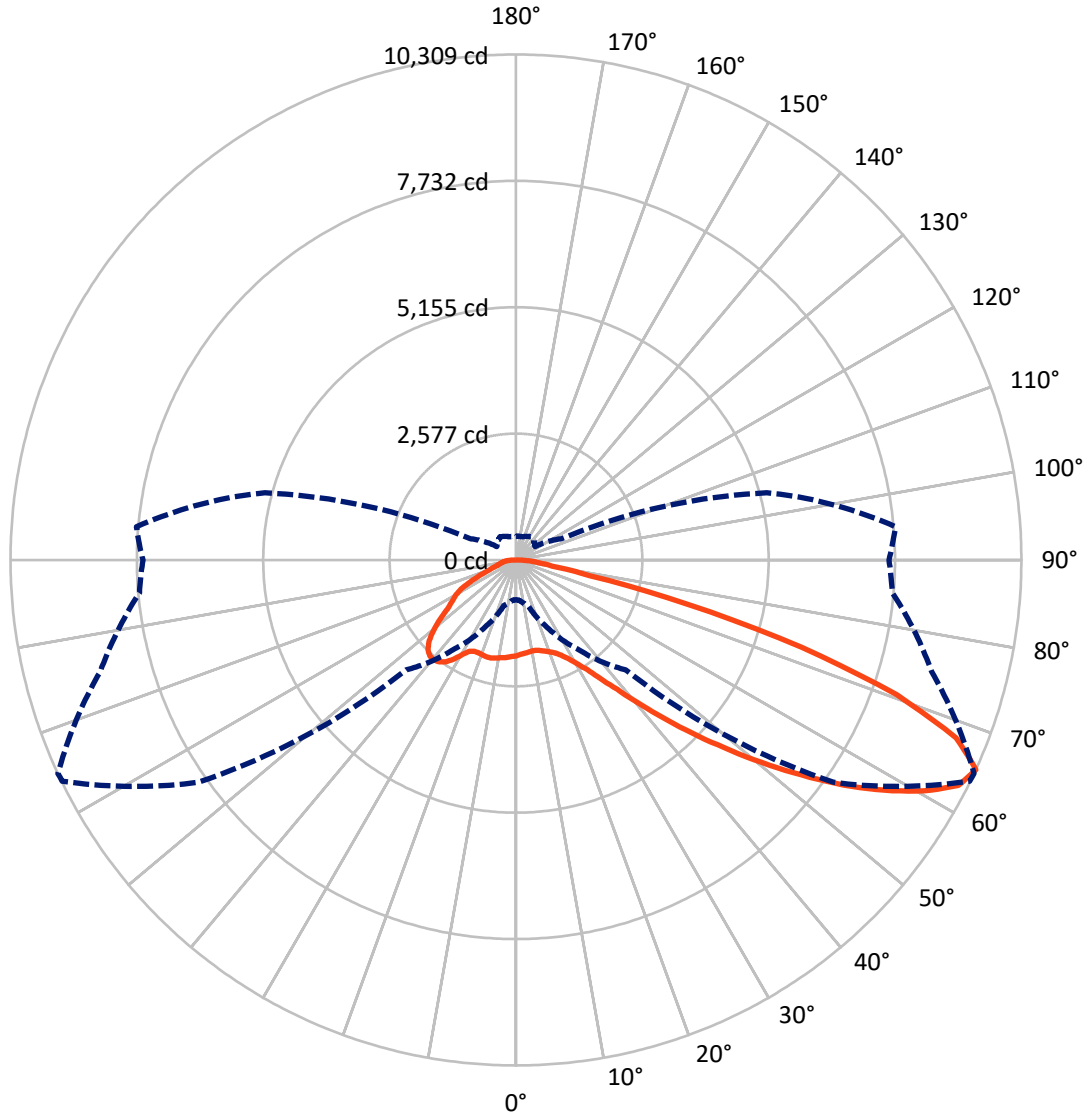
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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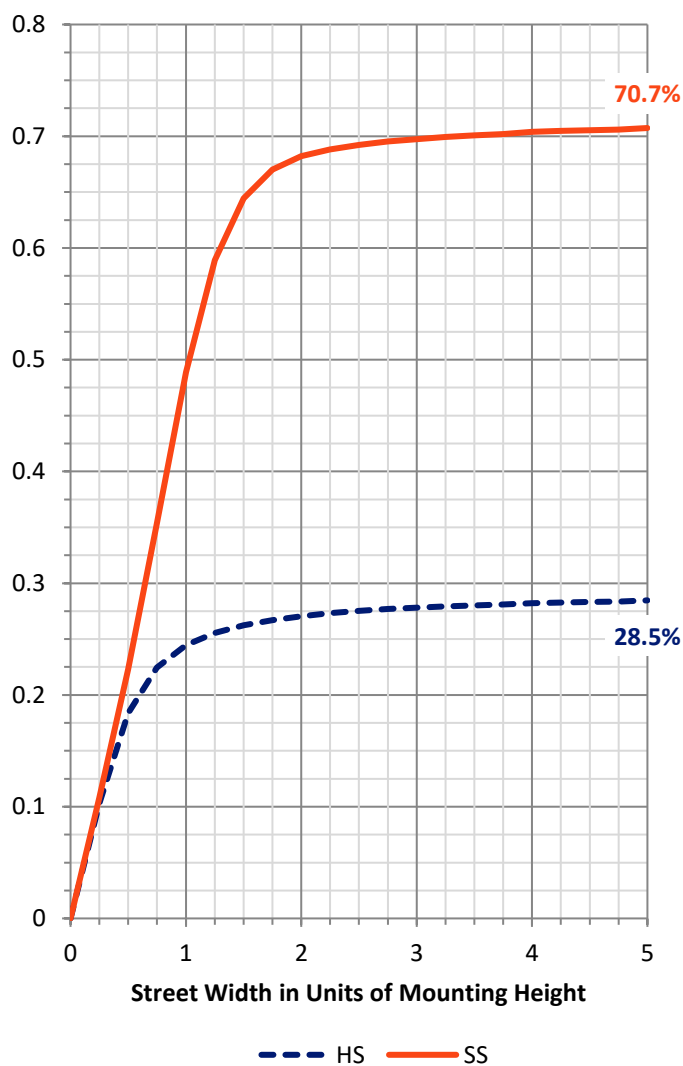
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4476.1   | 0.0    | 4476.1  |
|                    | % Fixture | 28.9     | 0.0    | 28.9    |
| <b>Street Side</b> | Lumens    | 11005.9  | 0.0    | 11005.9 |
|                    | % Fixture | 71.1     | 0.0    | 71.1    |
| <b>Total</b>       | Lumens    | 15482.0  | 0.0    | 15482.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 186.4   | 1.2       |
| 10°-20°   | 556.5   | 3.6       |
| 20°-30°   | 988.4   | 6.4       |
| 30°-40°   | 1672.2  | 10.8      |
| 40°-50°   | 2910.9  | 18.8      |
| 50°-60°   | 3761.8  | 24.3      |
| 60°-70°   | 3291.8  | 21.3      |
| 70°-80°   | 1790.5  | 11.6      |
| 80°-90°   | 323.5   | 2.1       |
| 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°    | 15482.0 | 100.0     |
| 0°-180°   | 15482.0 | 100.0     |

**Coefficient of Utilization**



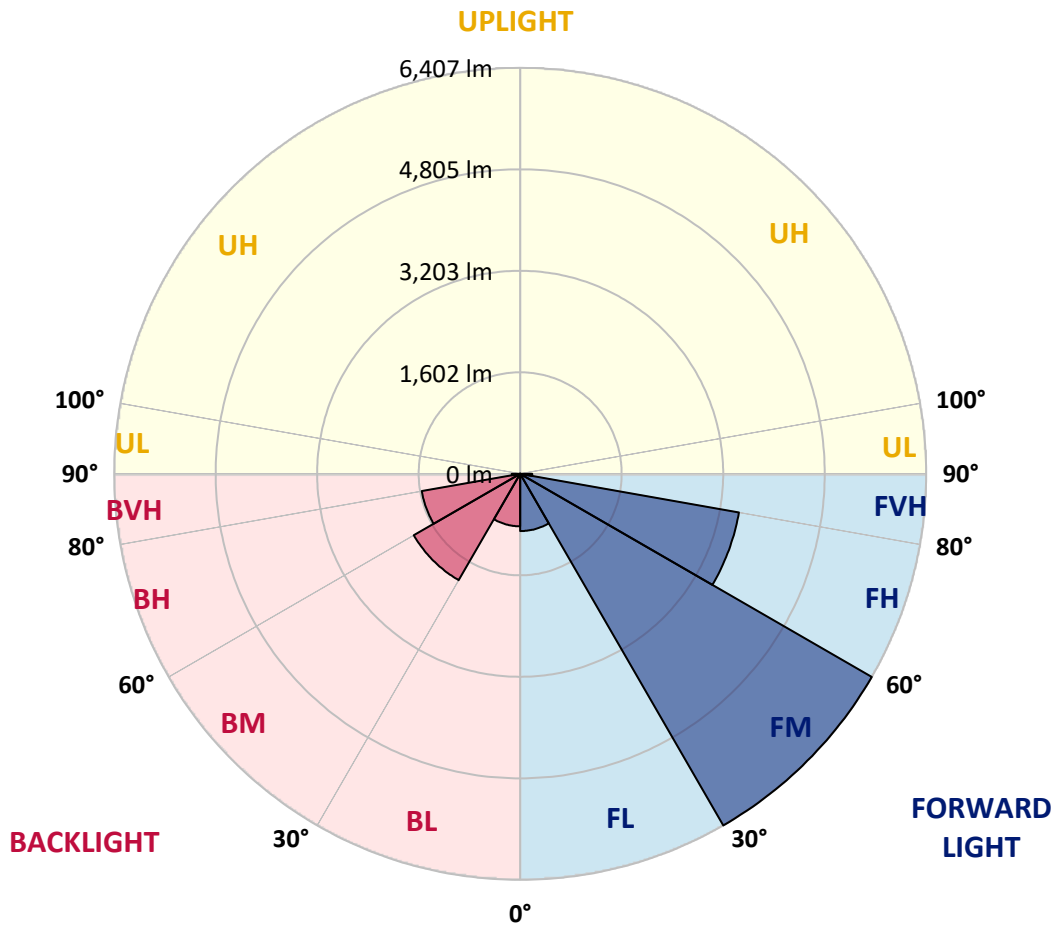
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 903.3  | 5.8       |                         |      |         |
| FM (30°-60°)   | 6406.9 | 41.4      |                         |      |         |
| FH (60°-80°)   | 3505.3 | 22.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 190.4  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 827.9  | 5.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1938.0 | 12.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 1577.0 | 10.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 133.1  | 0.9       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3  | 1956.3  | 1956.3 | 1956.3 |
| 2.5°  | 1921.7 | 1919.6 | 1915.5 | 1919.6 | 1921.7 | 1925.7 | 1923.7 | 1927.8  | 1925.7  | 1931.8 | 1942.0 |
| 5°    | 1872.7 | 1868.7 | 1866.6 | 1876.8 | 1882.9 | 1893.1 | 1897.2 | 1911.5  | 1909.4  | 1919.6 | 1935.9 |
| 7.5°  | 1817.7 | 1817.7 | 1815.7 | 1827.9 | 1836.1 | 1854.4 | 1868.7 | 1893.1  | 1895.2  | 1913.5 | 1931.8 |
| 10°   | 1774.9 | 1777.0 | 1774.9 | 1785.1 | 1797.4 | 1819.8 | 1844.2 | 1878.9  | 1880.9  | 1907.4 | 1925.7 |
| 12.5° | 1758.6 | 1758.6 | 1758.6 | 1772.9 | 1789.2 | 1819.8 | 1848.3 | 1885.0  | 1889.1  | 1917.6 | 1933.9 |
| 15°   | 1781.0 | 1783.1 | 1779.0 | 1793.3 | 1811.6 | 1848.3 | 1874.8 | 1913.5  | 1917.6  | 1944.1 | 1954.3 |
| 17.5° | 1860.5 | 1868.7 | 1858.5 | 1866.6 | 1862.6 | 1891.1 | 1915.5 | 1954.3  | 1956.3  | 1978.7 | 1982.8 |
| 20°   | 2017.4 | 2025.6 | 2009.3 | 1999.1 | 1962.4 | 1960.4 | 1970.6 | 2001.1  | 2001.1  | 2015.4 | 2005.2 |
| 22.5° | 2259.9 | 2268.1 | 2239.6 | 2200.8 | 2113.2 | 2070.4 | 2048.0 | 2062.3  | 2060.2  | 2066.3 | 2039.9 |
| 25°   | 2581.9 | 2579.9 | 2545.2 | 2473.9 | 2333.3 | 2229.4 | 2174.3 | 2151.9  | 2151.9  | 2139.7 | 2107.1 |
| 27.5° | 2981.3 | 2950.8 | 2889.6 | 2804.0 | 2608.4 | 2463.7 | 2345.5 | 2288.5  | 2278.3  | 2241.6 | 2180.5 |
| 30°   | 3407.2 | 3384.8 | 3297.2 | 3172.9 | 2946.7 | 2761.2 | 2565.6 | 2451.5  | 2445.4  | 2365.9 | 2274.2 |
| 32.5° | 3908.5 | 3871.8 | 3774.0 | 3625.3 | 3354.2 | 3093.4 | 2848.9 | 2675.6  | 2665.5  | 2539.1 | 2412.8 |
| 35°   | 4552.5 | 4521.9 | 4332.4 | 4183.6 | 3835.2 | 3492.8 | 3203.4 | 2973.2  | 2965.0  | 2810.1 | 2649.2 |
| 37.5° | 5324.8 | 5245.3 | 5061.9 | 4782.7 | 4415.9 | 4010.4 | 3643.6 | 3354.2  | 3344.1  | 3172.9 | 2969.1 |
| 40°   | 6013.6 | 5942.3 | 5779.2 | 5522.5 | 5129.2 | 4678.8 | 4181.6 | 3831.1  | 3820.9  | 3613.0 | 3356.3 |
| 42.5° | 6523.0 | 6474.1 | 6368.2 | 6219.4 | 5938.2 | 5665.1 | 4868.3 | 4407.8  | 4389.4  | 4120.5 | 3800.5 |
| 45°   | 6818.5 | 6779.8 | 6718.7 | 6755.3 | 6751.3 | 6700.3 | 5687.5 | 5094.5  | 5035.4  | 4687.0 | 4295.7 |
| 47.5° | 6747.2 | 6712.6 | 6737.0 | 7022.3 | 7415.6 | 7711.1 | 6641.2 | 5797.6  | 5718.1  | 5263.7 | 4823.5 |
| 50°   | 6231.6 | 6245.9 | 6374.3 | 6920.4 | 7802.8 | 8459.0 | 7698.9 | 6598.4  | 6492.5  | 5844.4 | 5324.8 |
| 52.5° | 5292.2 | 5326.8 | 5638.6 | 6402.8 | 7760.0 | 8944.0 | 8654.6 | 7425.8  | 7285.2  | 6411.0 | 5781.3 |
| 55°   | 4204.0 | 4291.6 | 4695.1 | 5498.0 | 7201.6 | 8978.6 | 9376.0 | 8257.2  | 8102.3  | 6942.8 | 6178.6 |
| 57.5° | 3109.7 | 3240.1 | 3706.8 | 4444.5 | 6131.8 | 8430.4 | 9736.7 | 9052.0  | 8864.5  | 7470.6 | 6598.4 |
| 60°   | 1972.6 | 2052.1 | 2590.1 | 3460.2 | 4693.1 | 7089.5 | 9689.8 | 9728.5  | 9565.5  | 7996.4 | 7036.6 |
| 62.5° | 1259.4 | 1298.1 | 1569.1 | 2467.8 | 3280.9 | 5249.4 | 9178.3 | 10240.0 | 10130.0 | 8475.3 | 7452.3 |
| 65°   | 809.0  | 825.3  | 963.9  | 1518.2 | 2233.4 | 3168.8 | 7904.7 | 10295.0 | 10309.3 | 8774.8 | 7709.0 |
| 67.5° | 658.2  | 666.4  | 717.3  | 937.4  | 1579.3 | 1750.5 | 5506.2 | 9512.5  | 9685.7  | 8697.4 | 7621.4 |
| 70°   | 599.1  | 609.3  | 662.3  | 747.9  | 1222.7 | 1208.4 | 2665.5 | 7959.7  | 8243.0  | 8251.1 | 7232.2 |
| 72.5° | 505.4  | 519.6  | 591.0  | 707.1  | 945.5  | 953.7  | 1128.9 | 5669.2  | 6086.9  | 7374.8 | 6647.3 |
| 75°   | 421.8  | 430.0  | 491.1  | 623.6  | 800.9  | 762.1  | 792.7  | 3005.8  | 3609.0  | 5913.7 | 6025.8 |
| 77.5° | 342.4  | 350.5  | 395.3  | 497.2  | 711.2  | 593.0  | 623.6  | 1245.1  | 1538.5  | 4014.5 | 4925.4 |
| 80°   | 244.5  | 252.7  | 303.6  | 387.2  | 538.0  | 533.9  | 462.6  | 686.7   | 745.8   | 2170.3 | 3199.4 |
| 82.5° | 175.3  | 181.4  | 230.3  | 277.1  | 372.9  | 535.9  | 348.5  | 466.7   | 489.1   | 961.8  | 1289.9 |
| 85°   | 118.2  | 118.2  | 158.9  | 183.4  | 240.5  | 338.3  | 281.2  | 315.9   | 330.1   | 456.5  | 348.5  |
| 87.5° | 50.9   | 50.9   | 85.6   | 93.7   | 126.3  | 156.9  | 209.9  | 158.9   | 163.0   | 246.6  | 142.6  |
| 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°    | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 | 1956.3 |
| 2.5°  | 1948.1 | 1950.2 | 1954.3 | 1966.5 | 1974.6 | 1986.9 | 1993.0 | 2001.1 | 2001.1 | 1997.1 | 1999.1 |
| 5°    | 1944.1 | 1950.2 | 1964.5 | 1986.9 | 2001.1 | 2023.5 | 2039.9 | 2052.1 | 2056.2 | 2052.1 | 2054.1 |
| 7.5°  | 1942.0 | 1952.2 | 1976.7 | 2009.3 | 2029.7 | 2058.2 | 2080.6 | 2094.9 | 2105.1 | 2101.0 | 2103.0 |
| 10°   | 1935.9 | 1952.2 | 1982.8 | 2023.5 | 2054.1 | 2082.6 | 2103.0 | 2109.1 | 2115.2 | 2111.2 | 2109.1 |
| 12.5° | 1944.1 | 1962.4 | 1995.0 | 2043.9 | 2078.6 | 2101.0 | 2107.1 | 2096.9 | 2082.6 | 2074.5 | 2072.5 |
| 15°   | 1960.4 | 1978.7 | 2011.3 | 2062.3 | 2092.8 | 2101.0 | 2086.7 | 2054.1 | 2021.5 | 2003.2 | 2001.1 |
| 17.5° | 1982.8 | 1995.0 | 2021.5 | 2066.3 | 2090.8 | 2080.6 | 2052.1 | 2013.4 | 1988.9 | 1974.6 | 1976.7 |
| 20°   | 1997.1 | 1997.1 | 2017.4 | 2052.1 | 2072.5 | 2064.3 | 2029.7 | 1986.9 | 1948.1 | 1929.8 | 1923.7 |
| 22.5° | 2017.4 | 2007.2 | 2009.3 | 2039.9 | 2068.4 | 2056.2 | 1982.8 | 1907.4 | 1852.4 | 1832.0 | 1830.0 |
| 25°   | 2072.5 | 2043.9 | 2025.6 | 2043.9 | 2111.2 | 2011.3 | 1864.6 | 1777.0 | 1726.0 | 1707.7 | 1709.7 |
| 27.5° | 2139.7 | 2101.0 | 2062.3 | 2092.8 | 2145.8 | 1909.4 | 1713.8 | 1613.9 | 1583.4 | 1569.1 | 1575.2 |
| 30°   | 2207.0 | 2156.0 | 2105.1 | 2215.1 | 2121.4 | 1750.5 | 1520.2 | 1422.4 | 1395.9 | 1385.7 | 1393.9 |
| 32.5° | 2331.3 | 2247.7 | 2186.6 | 2378.1 | 2046.0 | 1569.1 | 1310.3 | 1220.6 | 1196.2 | 1184.0 | 1179.9 |
| 35°   | 2539.1 | 2433.1 | 2372.0 | 2520.8 | 1940.0 | 1367.4 | 1118.8 | 1055.6 | 1029.1 | 1002.6 | 998.5  |
| 37.5° | 2838.7 | 2710.3 | 2655.3 | 2602.3 | 1791.2 | 1167.7 | 972.0  | 929.2  | 890.5  | 849.8  | 847.7  |
| 40°   | 3197.3 | 3030.2 | 2989.5 | 2639.0 | 1585.4 | 980.2  | 870.1  | 829.4  | 780.5  | 741.8  | 743.8  |
| 42.5° | 3611.0 | 3397.0 | 3309.4 | 2628.8 | 1330.7 | 880.3  | 796.8  | 752.0  | 709.2  | 674.5  | 672.5  |
| 45°   | 4053.2 | 3810.7 | 3609.0 | 2557.5 | 1078.0 | 811.0  | 752.0  | 699.0  | 656.2  | 617.5  | 613.4  |
| 47.5° | 4542.3 | 4271.3 | 3886.1 | 2418.9 | 890.5  | 762.1  | 725.5  | 650.1  | 611.3  | 586.9  | 586.9  |
| 50°   | 5035.4 | 4711.4 | 4140.8 | 2209.0 | 780.5  | 725.5  | 686.7  | 623.6  | 593.0  | 572.6  | 572.6  |
| 52.5° | 5457.3 | 5169.9 | 4350.7 | 1958.3 | 711.2  | 694.9  | 660.3  | 611.3  | 578.7  | 560.4  | 558.4  |
| 55°   | 5866.9 | 5595.8 | 4538.2 | 1709.7 | 654.1  | 654.1  | 654.1  | 601.2  | 564.5  | 548.2  | 546.1  |
| 57.5° | 6274.4 | 6044.2 | 4733.8 | 1546.7 | 603.2  | 619.5  | 641.9  | 588.9  | 552.2  | 538.0  | 535.9  |
| 60°   | 6735.0 | 6582.1 | 4960.0 | 1432.6 | 558.4  | 582.8  | 625.6  | 574.7  | 531.9  | 519.6  | 517.6  |
| 62.5° | 7224.0 | 7224.0 | 5165.9 | 1271.6 | 517.6  | 552.2  | 601.2  | 556.3  | 513.5  | 503.3  | 501.3  |
| 65°   | 7607.2 | 7772.2 | 5298.3 | 1031.1 | 476.8  | 521.7  | 572.6  | 531.9  | 489.1  | 487.0  | 483.0  |
| 67.5° | 7652.0 | 7910.8 | 5214.8 | 778.4  | 440.2  | 489.1  | 544.1  | 505.4  | 464.6  | 464.6  | 458.5  |
| 70°   | 7330.0 | 7592.9 | 4953.9 | 582.8  | 413.7  | 456.5  | 507.4  | 472.8  | 434.1  | 438.1  | 427.9  |
| 72.5° | 6792.0 | 6857.2 | 4305.9 | 460.5  | 383.1  | 421.8  | 462.6  | 436.1  | 401.4  | 401.4  | 387.2  |
| 75°   | 6082.9 | 5720.1 | 3128.0 | 385.1  | 346.4  | 381.1  | 417.8  | 395.3  | 364.8  | 354.6  | 346.4  |
| 77.5° | 4841.8 | 4144.9 | 1817.7 | 332.2  | 315.9  | 342.4  | 366.8  | 350.5  | 324.0  | 301.6  | 301.6  |
| 80°   | 2950.8 | 2429.1 | 802.9  | 287.3  | 279.2  | 299.6  | 315.9  | 297.5  | 275.1  | 252.7  | 246.6  |
| 82.5° | 1122.8 | 937.4  | 389.2  | 246.6  | 244.5  | 256.8  | 269.0  | 250.7  | 234.3  | 224.2  | 193.6  |
| 85°   | 307.7  | 283.3  | 267.0  | 205.8  | 201.7  | 199.7  | 214.0  | 205.8  | 183.4  | 150.8  | 134.5  |
| 87.5° | 116.2  | 132.5  | 144.7  | 126.3  | 134.5  | 124.3  | 142.6  | 130.4  | 116.2  | 75.4   | 67.2   |
| 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)