

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: P509375

Luminaire Tested: **VERD-CA2-80-750-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-80-750-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1100mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11843 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

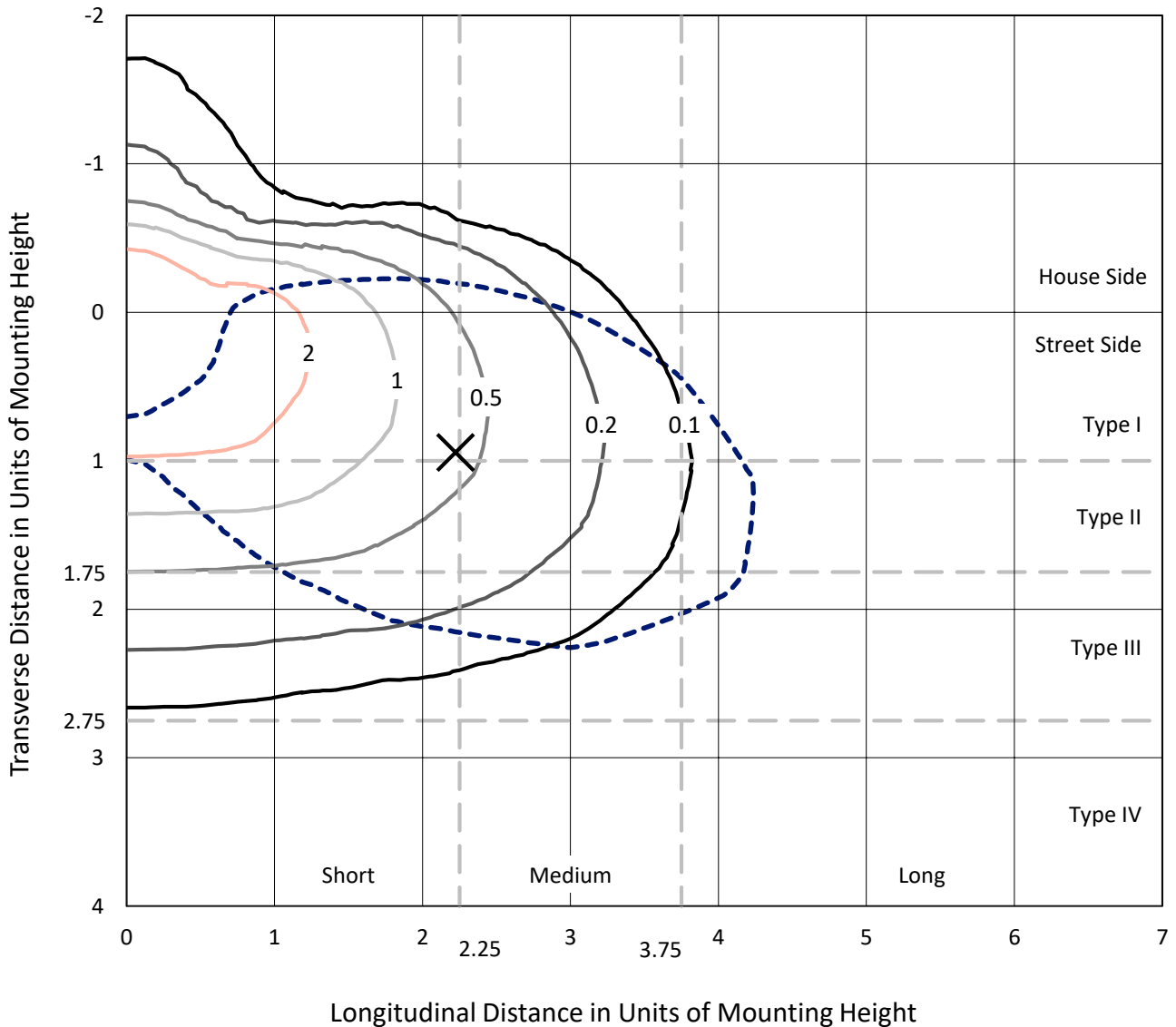
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

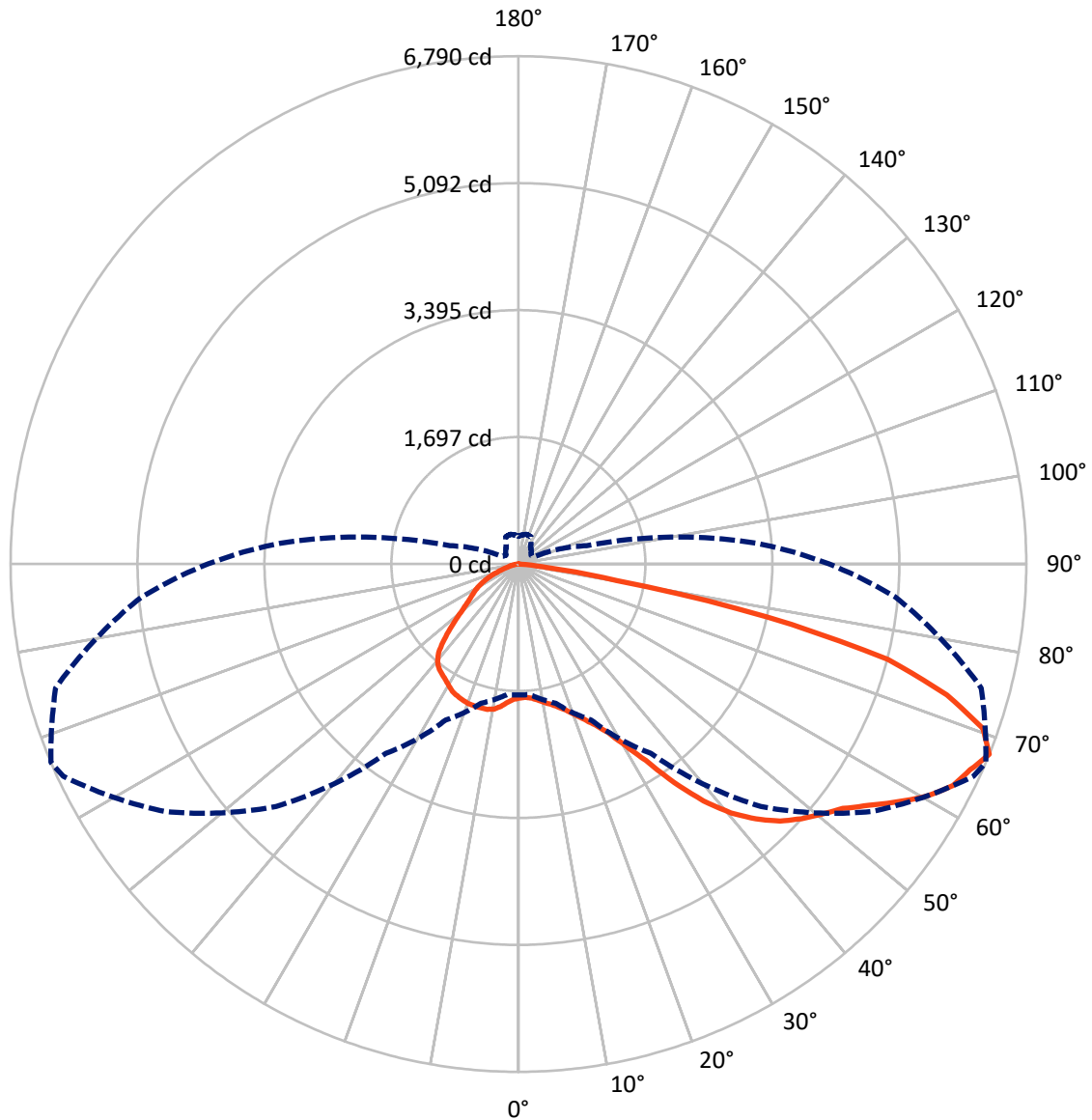
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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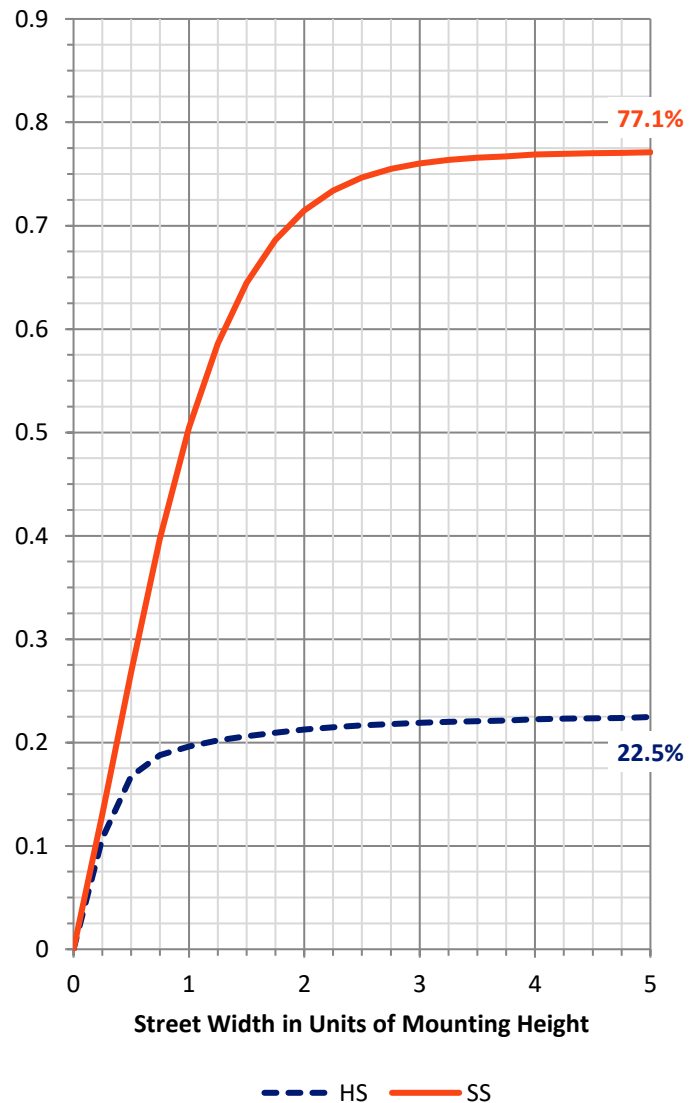
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2708.0   | 0.0    | 2708.0  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 9135.0   | 0.0    | 9135.0  |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 11843.0  | 0.0    | 11843.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 181.4   | 1.5       |
| 10°-20°   | 580.7   | 4.9       |
| 20°-30°   | 1003.4  | 8.5       |
| 30°-40°   | 1523.0  | 12.9      |
| 40°-50°   | 2069.6  | 17.5      |
| 50°-60°   | 2461.3  | 20.8      |
| 60°-70°   | 2532.4  | 21.4      |
| 70°-80°   | 1381.4  | 11.7      |
| 80°-90°   | 109.8   | 0.9       |
| 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°    | 11843.0 | 100.0     |
| 0°-180°   | 11843.0 | 100.0     |



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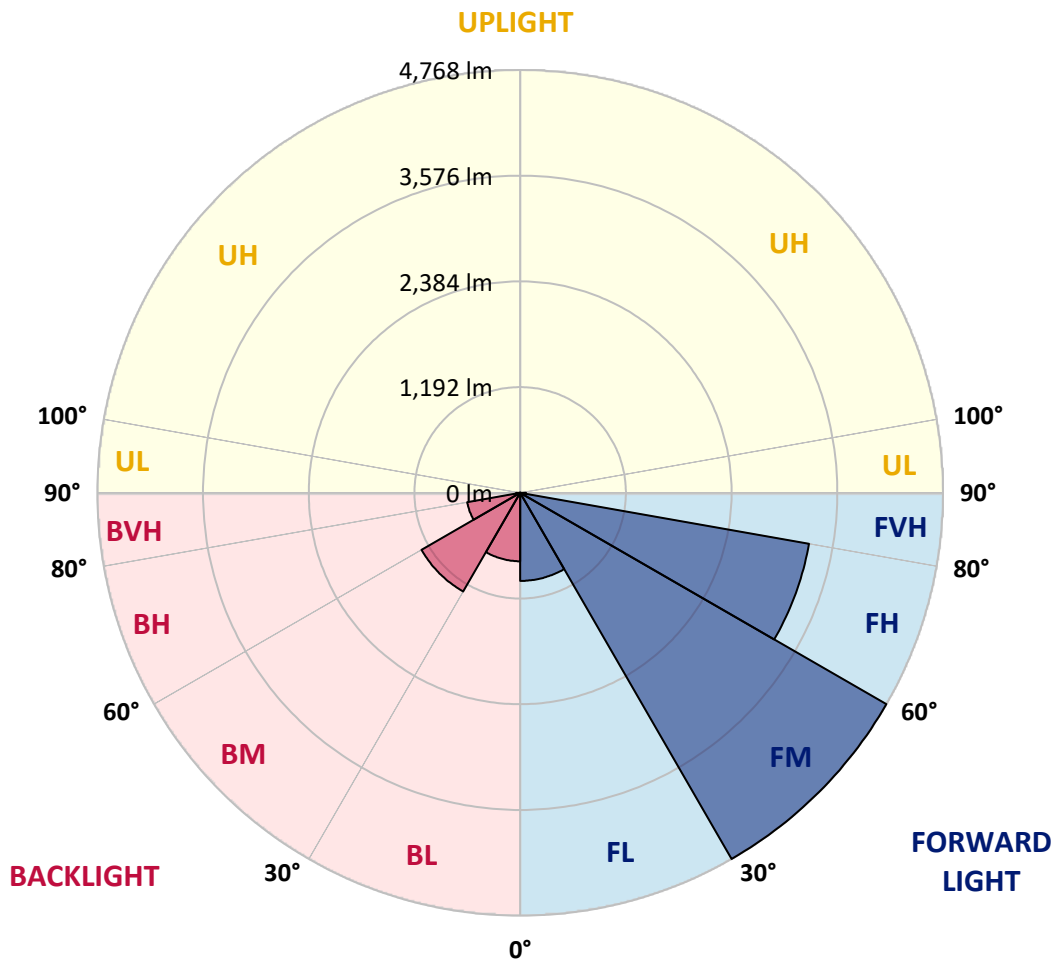
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 993.3  | 8.4       |                         |      |         |
| FM (30°-60°)   | 4768.5 | 40.3      |                         |      |         |
| FH (60°-80°)   | 3307.5 | 27.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 65.7   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 772.2  | 6.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1285.4 | 10.9      | B2/2500                 |      |         |
| BH (60°-80°)   | 606.3  | 5.1       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 44.1   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 |
| 2.5°  | 1801.9 | 1794.2 | 1784.0 | 1787.8 | 1780.1 | 1792.9 | 1787.8 | 1785.2 | 1785.2 | 1786.5 | 1792.9 |
| 5°    | 1843.0 | 1835.3 | 1827.6 | 1826.3 | 1810.9 | 1816.0 | 1808.3 | 1800.6 | 1800.6 | 1799.3 | 1801.9 |
| 7.5°  | 1914.8 | 1904.5 | 1895.5 | 1894.3 | 1875.0 | 1872.4 | 1849.4 | 1834.0 | 1834.0 | 1832.7 | 1836.5 |
| 10°   | 2009.7 | 2005.8 | 1987.9 | 1976.3 | 1953.2 | 1937.9 | 1909.6 | 1885.3 | 1880.1 | 1872.4 | 1882.7 |
| 12.5° | 2100.7 | 2099.5 | 2082.8 | 2070.0 | 2037.9 | 2011.0 | 1964.8 | 1931.4 | 1925.0 | 1916.1 | 1923.7 |
| 15°   | 2214.9 | 2203.3 | 2185.4 | 2177.7 | 2131.5 | 2090.5 | 2037.9 | 1987.9 | 1981.5 | 1971.2 | 1977.6 |
| 17.5° | 2340.6 | 2334.1 | 2305.9 | 2297.0 | 2239.2 | 2191.8 | 2126.4 | 2062.3 | 2052.0 | 2037.9 | 2036.6 |
| 20°   | 2491.9 | 2480.4 | 2458.6 | 2432.9 | 2376.5 | 2308.5 | 2232.8 | 2159.7 | 2150.8 | 2139.2 | 2114.8 |
| 22.5° | 2654.8 | 2641.9 | 2620.1 | 2593.2 | 2521.4 | 2449.6 | 2354.7 | 2262.3 | 2257.2 | 2249.5 | 2204.6 |
| 25°   | 2810.0 | 2788.2 | 2790.7 | 2765.1 | 2700.9 | 2609.9 | 2498.3 | 2388.0 | 2385.4 | 2384.2 | 2312.3 |
| 27.5° | 2975.4 | 2952.3 | 2944.6 | 2935.6 | 2875.4 | 2789.4 | 2663.8 | 2558.6 | 2549.6 | 2550.9 | 2441.9 |
| 30°   | 3130.6 | 3120.3 | 3113.9 | 3107.5 | 3078.0 | 3001.0 | 2880.5 | 2786.9 | 2815.1 | 2812.5 | 2662.5 |
| 32.5° | 3251.1 | 3243.4 | 3270.4 | 3301.2 | 3293.5 | 3229.3 | 3146.0 | 3103.6 | 3131.9 | 3222.9 | 3092.1 |
| 35°   | 3357.6 | 3353.7 | 3405.0 | 3470.4 | 3516.6 | 3470.4 | 3461.5 | 3526.9 | 3592.3 | 3743.6 | 3667.9 |
| 37.5° | 3473.0 | 3467.9 | 3511.5 | 3623.1 | 3703.9 | 3718.0 | 3785.9 | 3953.9 | 4016.8 | 4168.1 | 4009.1 |
| 40°   | 3471.7 | 3478.1 | 3583.3 | 3725.7 | 3873.1 | 3992.4 | 4132.2 | 4295.1 | 4375.9 | 4447.7 | 4201.5 |
| 42.5° | 3415.3 | 3419.1 | 3551.2 | 3821.8 | 4036.0 | 4270.7 | 4395.1 | 4604.2 | 4659.3 | 4673.4 | 4428.5 |
| 45°   | 3357.6 | 3360.1 | 3503.8 | 3807.7 | 4172.0 | 4531.1 | 4669.6 | 4860.7 | 4903.0 | 4854.3 | 4582.4 |
| 47.5° | 3274.2 | 3290.9 | 3446.1 | 3793.6 | 4288.7 | 4770.9 | 4882.5 | 5072.3 | 5089.0 | 5027.4 | 4710.6 |
| 50°   | 3175.5 | 3184.4 | 3362.7 | 3747.5 | 4365.6 | 4919.7 | 5051.8 | 5223.6 | 5255.7 | 5186.4 | 4869.6 |
| 52.5° | 3054.9 | 3062.6 | 3256.3 | 3685.9 | 4408.0 | 5033.8 | 5181.3 | 5386.5 | 5430.1 | 5399.3 | 5009.4 |
| 55°   | 2916.4 | 2920.3 | 3117.8 | 3585.9 | 4396.4 | 5083.8 | 5294.2 | 5617.3 | 5690.4 | 5614.8 | 5126.1 |
| 57.5° | 2743.3 | 2757.4 | 2981.8 | 3435.8 | 4309.2 | 5146.7 | 5498.1 | 5902.1 | 5995.7 | 5834.1 | 5213.4 |
| 60°   | 2565.0 | 2579.1 | 2783.0 | 3261.4 | 4163.0 | 5174.9 | 5708.4 | 6208.6 | 6290.7 | 6041.9 | 5267.2 |
| 62.5° | 2364.9 | 2384.2 | 2553.5 | 2998.5 | 3901.4 | 5137.7 | 5863.6 | 6476.6 | 6522.8 | 6166.3 | 5253.1 |
| 65°   | 2073.8 | 2084.1 | 2268.7 | 2681.7 | 3560.2 | 4944.0 | 5857.2 | 6620.3 | 6635.7 | 6303.5 | 5191.6 |
| 67.5° | 1750.6 | 1751.9 | 1926.3 | 2299.5 | 3090.8 | 4582.4 | 5767.4 | 6713.9 | 6789.6 | 6404.8 | 5056.9 |
| 70°   | 1331.2 | 1349.2 | 1485.1 | 1762.2 | 2526.5 | 3964.2 | 5471.1 | 6621.5 | 6585.6 | 6127.8 | 4670.9 |
| 72.5° | 950.3  | 940.1  | 1009.3 | 1196.6 | 1768.6 | 3058.8 | 4717.0 | 5982.9 | 5990.6 | 5581.4 | 4064.2 |
| 75°   | 505.3  | 507.9  | 566.9  | 724.6  | 902.9  | 1990.4 | 3773.1 | 5054.3 | 5100.5 | 4786.3 | 3180.6 |
| 77.5° | 112.9  | 128.2  | 194.9  | 277.0  | 392.4  | 637.4  | 2046.9 | 3315.3 | 3402.5 | 3149.8 | 1742.9 |
| 80°   | 87.2   | 88.5   | 128.2  | 157.7  | 173.1  | 305.2  | 650.2  | 1203.0 | 1335.1 | 1260.7 | 655.4  |
| 82.5° | 57.7   | 59.0   | 84.6   | 87.2   | 83.4   | 139.8  | 295.0  | 360.4  | 396.3  | 346.3  | 243.7  |
| 85°   | 30.8   | 32.1   | 38.5   | 42.3   | 33.3   | 41.0   | 38.5   | 30.8   | 32.1   | 28.2   | 28.2   |
| 87.5° | 6.4    | 3.8    | 5.1    | 3.8    | 3.8    | 2.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 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°    | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 | 1791.7 |
| 2.5°  | 1792.9 | 1795.5 | 1801.9 | 1812.2 | 1817.3 | 1828.8 | 1836.5 | 1855.8 | 1882.7 | 1873.7 | 1862.2 |
| 5°    | 1803.2 | 1810.9 | 1832.7 | 1859.6 | 1880.1 | 1910.9 | 1926.3 | 1963.5 | 1994.3 | 1991.7 | 1971.2 |
| 7.5°  | 1841.7 | 1858.3 | 1885.3 | 1925.0 | 1959.7 | 1990.4 | 2012.2 | 2052.0 | 2080.2 | 2068.7 | 2049.4 |
| 10°   | 1890.4 | 1907.1 | 1936.6 | 1972.5 | 1998.1 | 2031.5 | 2045.6 | 2077.6 | 2095.6 | 2081.5 | 2064.8 |
| 12.5° | 1935.3 | 1944.3 | 1964.8 | 1991.7 | 2005.8 | 2027.6 | 2034.0 | 2057.1 | 2073.8 | 2067.4 | 2046.9 |
| 15°   | 1978.9 | 1977.6 | 1981.5 | 1989.2 | 1994.3 | 1999.4 | 2000.7 | 2017.4 | 2028.9 | 2016.1 | 2002.0 |
| 17.5° | 2027.6 | 2014.8 | 1998.1 | 1985.3 | 1966.1 | 1957.1 | 1940.4 | 1948.1 | 1946.8 | 1936.6 | 1925.0 |
| 20°   | 2089.2 | 2066.1 | 2014.8 | 1975.0 | 1925.0 | 1885.3 | 1850.6 | 1844.2 | 1844.2 | 1816.0 | 1814.7 |
| 22.5° | 2162.3 | 2123.8 | 2037.9 | 1950.7 | 1869.9 | 1807.0 | 1742.9 | 1705.7 | 1678.8 | 1658.3 | 1649.3 |
| 25°   | 2257.2 | 2186.7 | 2058.4 | 1917.3 | 1798.1 | 1683.9 | 1587.7 | 1536.4 | 1485.1 | 1451.8 | 1446.7 |
| 27.5° | 2358.5 | 2281.6 | 2071.2 | 1887.8 | 1699.3 | 1542.8 | 1409.5 | 1304.3 | 1256.8 | 1235.0 | 1214.5 |
| 30°   | 2524.0 | 2388.0 | 2094.3 | 1825.0 | 1574.9 | 1369.7 | 1192.7 | 1069.6 | 1023.4 | 1008.0 | 995.2  |
| 32.5° | 2925.4 | 2663.8 | 2116.1 | 1760.9 | 1441.5 | 1178.6 | 945.2  | 841.3  | 801.6  | 817.0  | 822.1  |
| 35°   | 3428.1 | 3074.2 | 2220.0 | 1686.5 | 1303.0 | 961.9  | 727.2  | 657.9  | 660.5  | 683.6  | 691.3  |
| 37.5° | 3769.3 | 3435.8 | 2431.6 | 1592.9 | 1104.2 | 713.1  | 563.0  | 541.2  | 560.5  | 581.0  | 584.8  |
| 40°   | 3969.3 | 3601.3 | 2580.4 | 1477.4 | 869.5  | 533.5  | 423.2  | 407.8  | 448.9  | 495.0  | 523.3  |
| 42.5° | 4182.2 | 3742.3 | 2657.3 | 1327.4 | 610.5  | 386.0  | 324.5  | 336.0  | 401.4  | 441.2  | 459.1  |
| 45°   | 4296.4 | 3852.6 | 2622.7 | 1113.2 | 415.5  | 300.1  | 291.1  | 323.2  | 388.6  | 424.5  | 429.6  |
| 47.5° | 4419.5 | 3962.9 | 2539.3 | 890.1  | 318.1  | 284.7  | 286.0  | 324.5  | 391.2  | 429.6  | 429.6  |
| 50°   | 4525.9 | 4054.0 | 2390.6 | 697.7  | 302.7  | 274.5  | 287.3  | 330.9  | 395.0  | 428.4  | 427.1  |
| 52.5° | 4649.1 | 4095.0 | 2179.0 | 564.3  | 287.3  | 265.5  | 288.6  | 336.0  | 388.6  | 407.8  | 405.3  |
| 55°   | 4687.5 | 4065.5 | 2077.6 | 472.0  | 275.7  | 260.3  | 293.7  | 343.7  | 386.0  | 389.9  | 383.5  |
| 57.5° | 4687.5 | 3986.0 | 1962.2 | 402.7  | 265.5  | 260.3  | 296.3  | 342.4  | 400.1  | 424.5  | 421.9  |
| 60°   | 4667.0 | 3902.6 | 1785.2 | 360.4  | 251.4  | 257.8  | 297.5  | 361.7  | 475.8  | 502.7  | 501.5  |
| 62.5° | 4601.6 | 3768.0 | 1567.2 | 318.1  | 237.3  | 259.1  | 293.7  | 388.6  | 543.8  | 532.2  | 504.0  |
| 65°   | 4446.4 | 3514.0 | 1271.0 | 279.6  | 221.9  | 259.1  | 288.6  | 427.1  | 483.5  | 461.7  | 451.4  |
| 67.5° | 4154.0 | 3194.7 | 945.2  | 239.8  | 203.9  | 242.4  | 280.9  | 400.1  | 410.4  | 386.0  | 370.6  |
| 70°   | 3768.0 | 2706.1 | 606.6  | 202.6  | 184.7  | 228.3  | 275.7  | 375.8  | 396.3  | 366.8  | 347.6  |
| 72.5° | 3139.6 | 2149.5 | 351.4  | 165.4  | 156.5  | 210.3  | 265.5  | 364.2  | 389.9  | 350.1  | 323.2  |
| 75°   | 2214.9 | 1356.9 | 230.8  | 121.8  | 125.7  | 179.5  | 246.2  | 341.1  | 365.5  | 316.8  | 278.3  |
| 77.5° | 1128.6 | 509.2  | 164.2  | 89.8   | 84.6   | 137.2  | 212.9  | 314.2  | 360.4  | 319.3  | 273.2  |
| 80°   | 398.9  | 256.5  | 107.7  | 59.0   | 55.1   | 84.6   | 162.9  | 266.8  | 338.6  | 311.6  | 302.7  |
| 82.5° | 170.6  | 128.2  | 59.0   | 37.2   | 33.3   | 42.3   | 92.3   | 210.3  | 297.5  | 282.1  | 341.1  |
| 85°   | 24.4   | 21.8   | 16.7   | 14.1   | 14.1   | 19.2   | 29.5   | 103.9  | 201.4  | 229.6  | 278.3  |
| 87.5° | 3.8    | 3.8    | 3.8    | 2.6    | 2.6    | 2.6    | 1.3    | 15.4   | 66.7   | 100.0  | 138.5  |
| 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)