

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: P482527

Luminaire Tested: **IFLD-S-SA3D-760-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482527  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-760-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

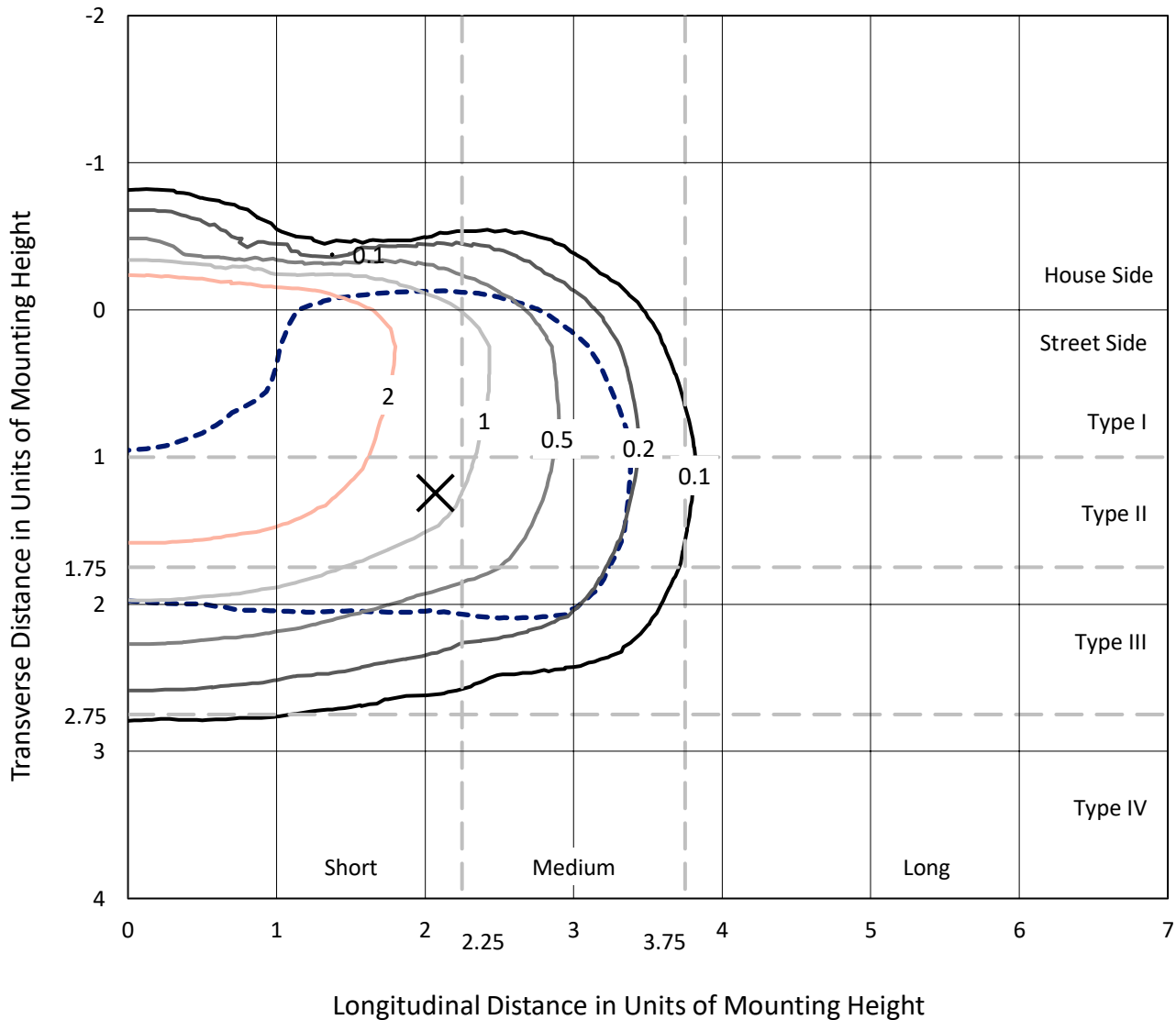
Lumens per Lamp: N/A  
Luminaire Lumens: 17690.4 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
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

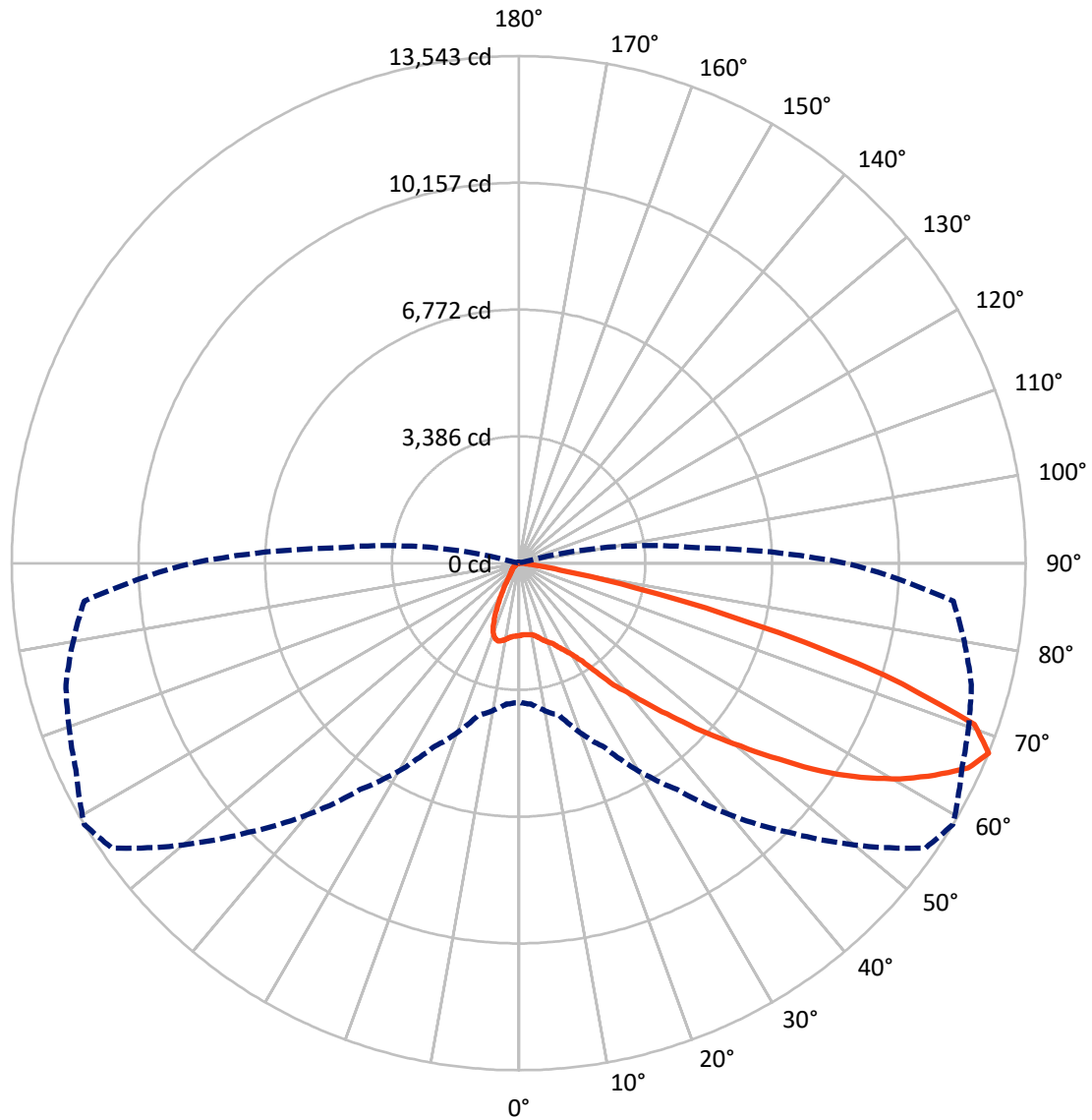
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2078.0   | 0.0    | 2078.0  |
|                    | % Fixture | 11.7     | 0.0    | 11.7    |
| <b>Street Side</b> | Lumens    | 15612.4  | 0.0    | 15612.4 |
|                    | % Fixture | 88.3     | 0.0    | 88.3    |
| <b>Total</b>       | Lumens    | 17690.4  | 0.0    | 17690.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 184.3   | 1.0       |
| 10°-20°   | 532.4   | 3.0       |
| 20°-30°   | 930.5   | 5.3       |
| 30°-40°   | 1638.2  | 9.3       |
| 40°-50°   | 2895.9  | 16.4      |
| 50°-60°   | 4585.2  | 25.9      |
| 60°-70°   | 5086.3  | 28.8      |
| 70°-80°   | 1764.8  | 10.0      |
| 80°-90°   | 72.7    | 0.4       |
| 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°    | 17690.4 | 100.0     |
| 0°-180°   | 17690.4 | 100.0     |

**Coefficient of Utilization**



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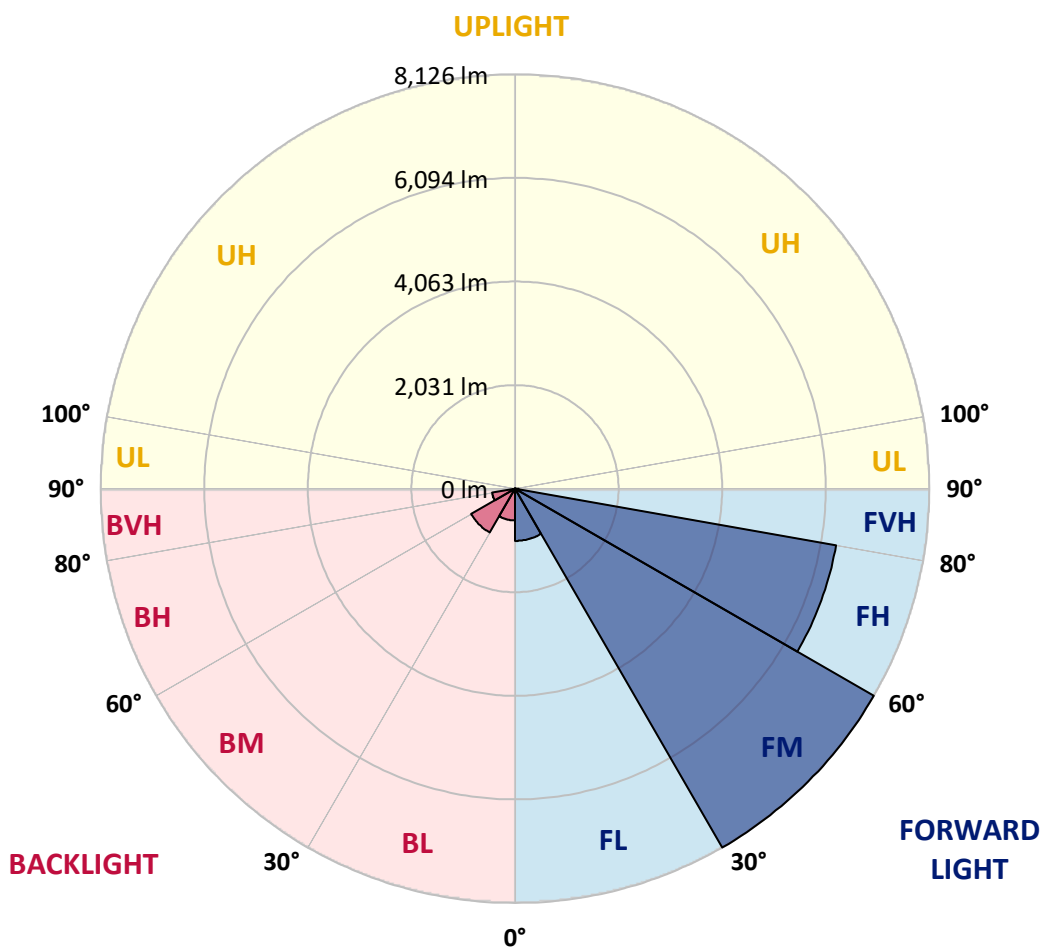
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1024.4 | 5.8       |                         |      |         |
| FM (30°-60°)   | 8125.9 | 45.9      |                         |      |         |
| FH (60°-80°)   | 6394.1 | 36.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 68.0   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 622.8  | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 993.5  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 457.0  | 2.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3  | 1940.3  | 1940.3  | 1940.3  | 1940.3  | 1940.3  | 1940.3  |
| 2.5°  | 1884.1 | 1857.2 | 1881.7 | 1884.1 | 1886.6  | 1908.6  | 1933.0  | 1915.9  | 1913.4  | 1933.0  | 1950.1  |
| 5°    | 1808.4 | 1796.1 | 1825.5 | 1840.1 | 1864.6  | 1884.1  | 1923.2  | 1925.7  | 1928.1  | 1950.1  | 1979.4  |
| 7.5°  | 1776.6 | 1747.3 | 1781.5 | 1798.6 | 1815.7  | 1862.1  | 1908.6  | 1933.0  | 1967.2  | 1994.1  | 2023.4  |
| 10°   | 1713.1 | 1735.0 | 1744.8 | 1774.1 | 1823.0  | 1876.8  | 1933.0  | 1945.2  | 2021.0  | 2043.0  | 2113.8  |
| 12.5° | 1735.0 | 1749.7 | 1769.3 | 1776.6 | 1830.4  | 1911.0  | 1986.8  | 1991.6  | 2069.8  | 2165.1  | 2201.8  |
| 15°   | 1791.3 | 1781.5 | 1788.8 | 1798.6 | 1862.1  | 1928.1  | 2050.3  | 2072.3  | 2145.6  | 2253.1  | 2343.5  |
| 17.5° | 1911.0 | 1893.9 | 1881.7 | 1879.2 | 1893.9  | 1955.0  | 2099.2  | 2165.1  | 2233.6  | 2380.2  | 2426.6  |
| 20°   | 2211.6 | 2196.9 | 2148.0 | 2021.0 | 1977.0  | 2001.4  | 2157.8  | 2250.7  | 2346.0  | 2509.7  | 2585.5  |
| 22.5° | 2668.6 | 2683.2 | 2568.4 | 2390.0 | 2206.7  | 2111.4  | 2250.7  | 2331.3  | 2482.8  | 2690.5  | 2759.0  |
| 25°   | 3208.6 | 3179.3 | 3040.0 | 2832.3 | 2543.9  | 2319.1  | 2399.7  | 2490.2  | 2675.9  | 2846.9  | 2873.8  |
| 27.5° | 3631.4 | 3597.2 | 3489.6 | 3237.9 | 2988.7  | 2624.6  | 2595.2  | 2651.4  | 2871.4  | 3025.3  | 2996.0  |
| 30°   | 4049.3 | 4061.5 | 3988.2 | 3690.0 | 3382.1  | 2998.5  | 2812.7  | 2837.2  | 3005.8  | 3203.7  | 3137.7  |
| 32.5° | 4582.0 | 4552.7 | 4511.1 | 4249.6 | 3885.5  | 3475.0  | 3157.3  | 3118.2  | 3191.5  | 3453.0  | 3374.8  |
| 35°   | 5078.1 | 5061.0 | 5004.8 | 4740.8 | 4423.1  | 3975.9  | 3665.6  | 3577.6  | 3560.5  | 3851.3  | 3714.5  |
| 37.5° | 5510.6 | 5481.3 | 5395.8 | 5227.1 | 4919.2  | 4542.9  | 4203.2  | 4125.0  | 4122.6  | 4323.0  | 4059.0  |
| 40°   | 5874.7 | 5896.7 | 5886.9 | 5701.2 | 5532.6  | 5232.0  | 4711.5  | 4586.9  | 4577.1  | 4684.6  | 4530.7  |
| 42.5° | 6346.4 | 6397.7 | 6370.8 | 6334.1 | 6131.3  | 6014.0  | 5425.1  | 5234.5  | 5148.9  | 5368.9  | 5229.6  |
| 45°   | 7059.9 | 7079.5 | 7096.6 | 7006.2 | 6803.3  | 6827.8  | 6163.1  | 5935.8  | 5913.8  | 6241.3  | 5928.5  |
| 47.5° | 7727.1 | 7675.7 | 7795.5 | 7800.4 | 7790.6  | 7678.2  | 6959.7  | 6791.1  | 6820.4  | 7069.7  | 6747.1  |
| 50°   | 7893.2 | 8025.2 | 8355.1 | 8416.2 | 8575.0  | 8677.7  | 7844.4  | 7675.7  | 7724.6  | 8008.1  | 7639.1  |
| 52.5° | 8022.8 | 8223.1 | 8553.0 | 9000.2 | 9427.9  | 9672.3  | 8834.1  | 8697.2  | 8694.8  | 8868.3  | 8360.0  |
| 55°   | 8250.0 | 8372.2 | 8658.1 | 9273.9 | 10087.7 | 10488.5 | 10026.6 | 9806.7  | 9608.7  | 9730.9  | 9107.8  |
| 57.5° | 8228.0 | 8274.5 | 8719.2 | 9479.2 | 10610.7 | 11338.9 | 11006.6 | 10796.4 | 10542.2 | 10471.4 | 9968.0  |
| 60°   | 7841.9 | 7951.9 | 8450.4 | 9339.9 | 10933.2 | 12001.1 | 11920.5 | 11705.5 | 11268.0 | 11101.9 | 10627.8 |
| 62.5° | 7077.0 | 7223.7 | 7614.7 | 8851.2 | 10464.0 | 12035.4 | 12551.0 | 12470.3 | 11981.6 | 11683.5 | 11488.0 |
| 65°   | 5735.4 | 5803.9 | 6253.5 | 7609.8 | 9403.5  | 11510.0 | 13296.3 | 13196.1 | 12746.5 | 12301.7 | 11930.3 |
| 67.5° | 3714.5 | 3780.4 | 4213.0 | 5432.4 | 7384.9  | 10153.7 | 13267.0 | 13543.1 | 13056.8 | 12521.7 | 11654.1 |
| 70°   | 1754.6 | 1737.5 | 2140.7 | 3018.0 | 4731.1  | 7753.9  | 12370.2 | 12915.1 | 12502.1 | 11351.1 | 9679.6  |
| 72.5° | 535.2  | 581.6  | 889.5  | 1336.7 | 2429.1  | 4836.1  | 9696.7  | 10207.5 | 10077.9 | 9068.7  | 6461.2  |
| 75°   | 237.0  | 256.6  | 349.5  | 547.4  | 984.8   | 1984.3  | 5989.6  | 6444.1  | 6387.9  | 5349.3  | 2949.6  |
| 77.5° | 151.5  | 166.2  | 219.9  | 312.8  | 447.2   | 630.5   | 2759.0  | 3201.3  | 3103.5  | 1879.2  | 772.2   |
| 80°   | 107.5  | 114.9  | 156.4  | 215.0  | 281.0   | 259.0   | 950.6   | 1129.0  | 1082.6  | 510.7   | 207.7   |
| 82.5° | 58.6   | 63.5   | 114.9  | 158.8  | 188.2   | 132.0   | 266.4   | 332.3   | 347.0   | 227.3   | 100.2   |
| 85°   | 22.0   | 26.9   | 70.9   | 112.4  | 97.7    | 61.1    | 78.2    | 95.3    | 124.6   | 124.6   | 46.4    |
| 87.5° | 0.0    | 2.4    | 29.3   | 48.9   | 24.4    | 17.1    | 22.0    | 26.9    | 34.2    | 58.6    | 17.1    |
| 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°    | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 | 1940.3 |
| 2.5°  | 1962.3 | 1945.2 | 1952.5 | 1964.8 | 1937.9 | 1952.5 | 1923.2 | 1945.2 | 1952.5 | 1923.2 | 1937.9 |
| 5°    | 1986.8 | 2003.9 | 1994.1 | 1974.5 | 1957.4 | 1962.3 | 1955.0 | 1937.9 | 1952.5 | 1957.4 | 1947.7 |
| 7.5°  | 2057.6 | 2038.1 | 2043.0 | 2021.0 | 1986.8 | 1984.3 | 1937.9 | 1925.7 | 1930.5 | 1935.4 | 1918.3 |
| 10°   | 2123.6 | 2135.8 | 2111.4 | 2094.3 | 2038.1 | 2001.4 | 1937.9 | 1869.5 | 1862.1 | 1832.8 | 1857.2 |
| 12.5° | 2240.9 | 2211.6 | 2201.8 | 2145.6 | 2089.4 | 1967.2 | 1830.4 | 1725.3 | 1637.3 | 1605.5 | 1573.8 |
| 15°   | 2338.6 | 2333.8 | 2316.7 | 2231.1 | 2101.6 | 1879.2 | 1620.2 | 1375.8 | 1207.2 | 1102.1 | 1087.5 |
| 17.5° | 2473.1 | 2451.1 | 2419.3 | 2284.9 | 2011.2 | 1649.5 | 1207.2 | 899.3  | 730.7  | 664.7  | 640.3  |
| 20°   | 2575.7 | 2558.6 | 2514.6 | 2272.7 | 1847.5 | 1229.2 | 747.8  | 571.8  | 530.3  | 518.1  | 520.5  |
| 22.5° | 2724.8 | 2671.0 | 2587.9 | 2211.6 | 1549.3 | 818.6  | 537.6  | 510.7  | 503.4  | 493.6  | 496.1  |
| 25°   | 2854.3 | 2805.4 | 2631.9 | 2106.5 | 1104.6 | 542.5  | 498.5  | 483.9  | 471.6  | 459.4  | 457.0  |
| 27.5° | 2969.1 | 2908.0 | 2678.3 | 1891.4 | 691.6  | 466.8  | 461.9  | 444.8  | 420.3  | 400.8  | 393.4  |
| 30°   | 3081.5 | 3010.7 | 2690.5 | 1488.2 | 466.8  | 422.8  | 410.5  | 383.7  | 351.9  | 325.0  | 320.1  |
| 32.5° | 3269.7 | 3184.2 | 2673.4 | 1063.0 | 403.2  | 376.3  | 349.5  | 317.7  | 271.3  | 249.3  | 244.4  |
| 35°   | 3563.0 | 3433.4 | 2651.4 | 625.6  | 361.7  | 332.3  | 290.8  | 249.3  | 215.0  | 193.1  | 188.2  |
| 37.5° | 3900.2 | 3675.4 | 2587.9 | 417.9  | 332.3  | 293.2  | 239.5  | 197.9  | 168.6  | 151.5  | 146.6  |
| 40°   | 4401.2 | 4029.7 | 2343.5 | 342.1  | 295.7  | 249.3  | 193.1  | 156.4  | 134.4  | 122.2  | 117.3  |
| 42.5° | 4953.4 | 4435.4 | 1967.2 | 307.9  | 261.5  | 212.6  | 154.0  | 127.1  | 110.0  | 97.7   | 97.7   |
| 45°   | 5615.7 | 4858.1 | 1517.6 | 281.0  | 232.2  | 175.9  | 127.1  | 102.6  | 88.0   | 78.2   | 73.3   |
| 47.5° | 6353.7 | 5241.8 | 1023.9 | 254.1  | 195.5  | 144.2  | 105.1  | 78.2   | 63.5   | 56.2   | 56.2   |
| 50°   | 7013.5 | 5581.5 | 652.5  | 222.4  | 171.1  | 119.7  | 85.5   | 63.5   | 51.3   | 41.5   | 39.1   |
| 52.5° | 7612.2 | 5840.5 | 449.6  | 195.5  | 146.6  | 97.7   | 70.9   | 51.3   | 39.1   | 31.8   | 31.8   |
| 55°   | 8225.6 | 5972.5 | 332.3  | 168.6  | 127.1  | 83.1   | 58.6   | 46.4   | 34.2   | 26.9   | 24.4   |
| 57.5° | 8729.0 | 6028.7 | 254.1  | 146.6  | 107.5  | 66.0   | 51.3   | 39.1   | 29.3   | 22.0   | 19.5   |
| 60°   | 9159.1 | 6001.8 | 197.9  | 122.2  | 85.5   | 56.2   | 44.0   | 31.8   | 24.4   | 17.1   | 14.7   |
| 62.5° | 9410.8 | 5840.5 | 156.4  | 105.1  | 68.4   | 48.9   | 36.7   | 26.9   | 17.1   | 12.2   | 9.8    |
| 65°   | 9415.7 | 5498.4 | 122.2  | 78.2   | 51.3   | 41.5   | 31.8   | 22.0   | 12.2   | 4.9    | 2.4    |
| 67.5° | 8741.2 | 4757.9 | 97.7   | 61.1   | 41.5   | 31.8   | 24.4   | 17.1   | 4.9    | 0.0    | 0.0    |
| 70°   | 6837.6 | 3599.6 | 80.6   | 48.9   | 34.2   | 26.9   | 17.1   | 9.8    | 2.4    | 0.0    | 0.0    |
| 72.5° | 4357.2 | 2155.4 | 66.0   | 39.1   | 29.3   | 19.5   | 12.2   | 7.3    | 0.0    | 0.0    | 0.0    |
| 75°   | 1823.0 | 664.7  | 51.3   | 34.2   | 22.0   | 14.7   | 9.8    | 2.4    | 0.0    | 0.0    | 0.0    |
| 77.5° | 469.2  | 210.2  | 41.5   | 29.3   | 22.0   | 12.2   | 7.3    | 2.4    | 0.0    | 0.0    | 0.0    |
| 80°   | 139.3  | 78.2   | 34.2   | 24.4   | 17.1   | 9.8    | 4.9    | 2.4    | 0.0    | 0.0    | 0.0    |
| 82.5° | 63.5   | 46.4   | 29.3   | 22.0   | 14.7   | 9.8    | 4.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.4   | 14.7   | 14.7   | 12.2   | 12.2   | 7.3    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.8    | 4.9    | 4.9    | 4.9    | 2.4    | 2.4    | 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)