

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: P481179

Luminaire Tested: **IFLD-M-SA4A-727-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481179  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-727-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

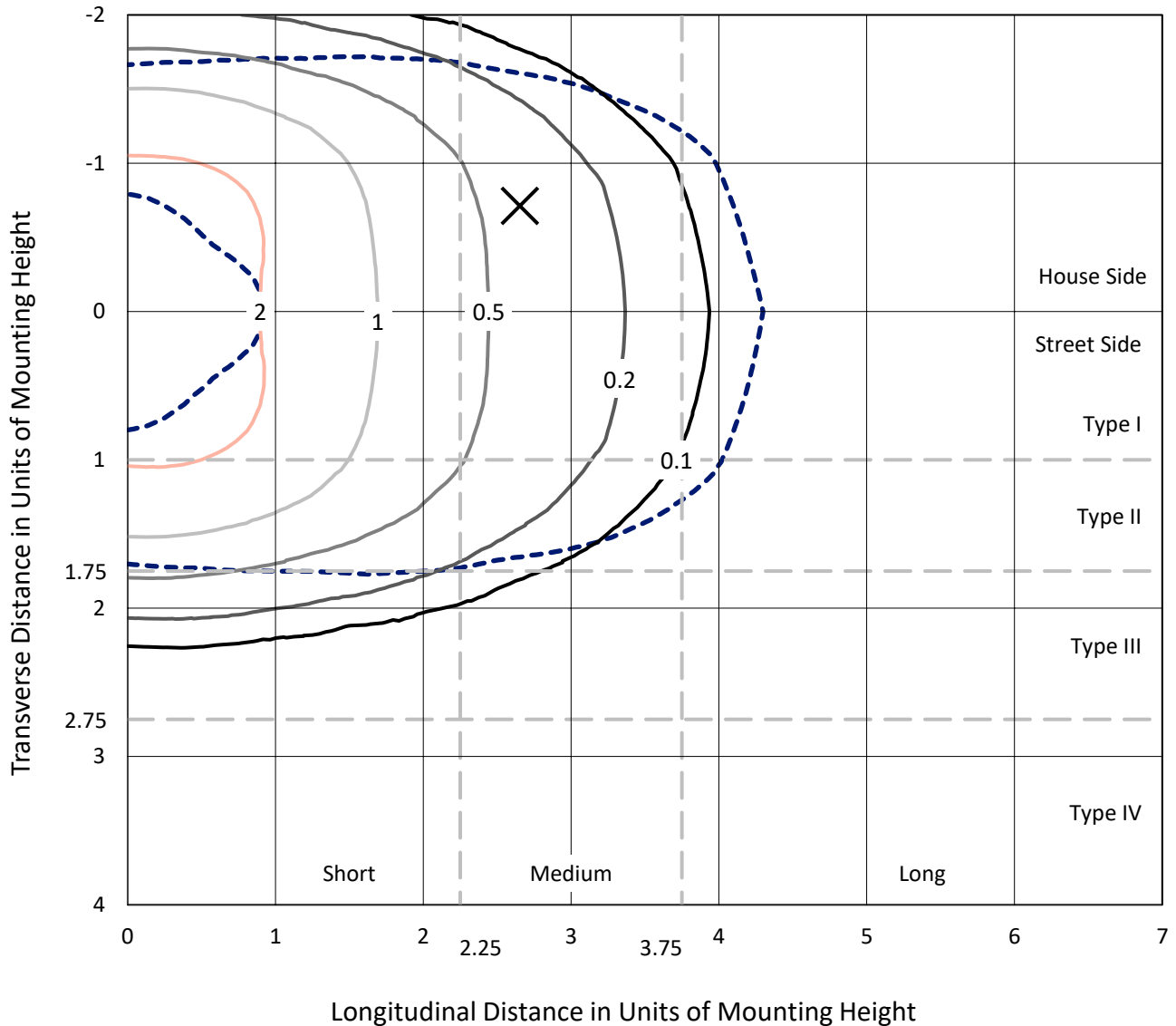
Lumens per Lamp: N/A  
Luminaire Lumens: 15908 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 128.6  
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

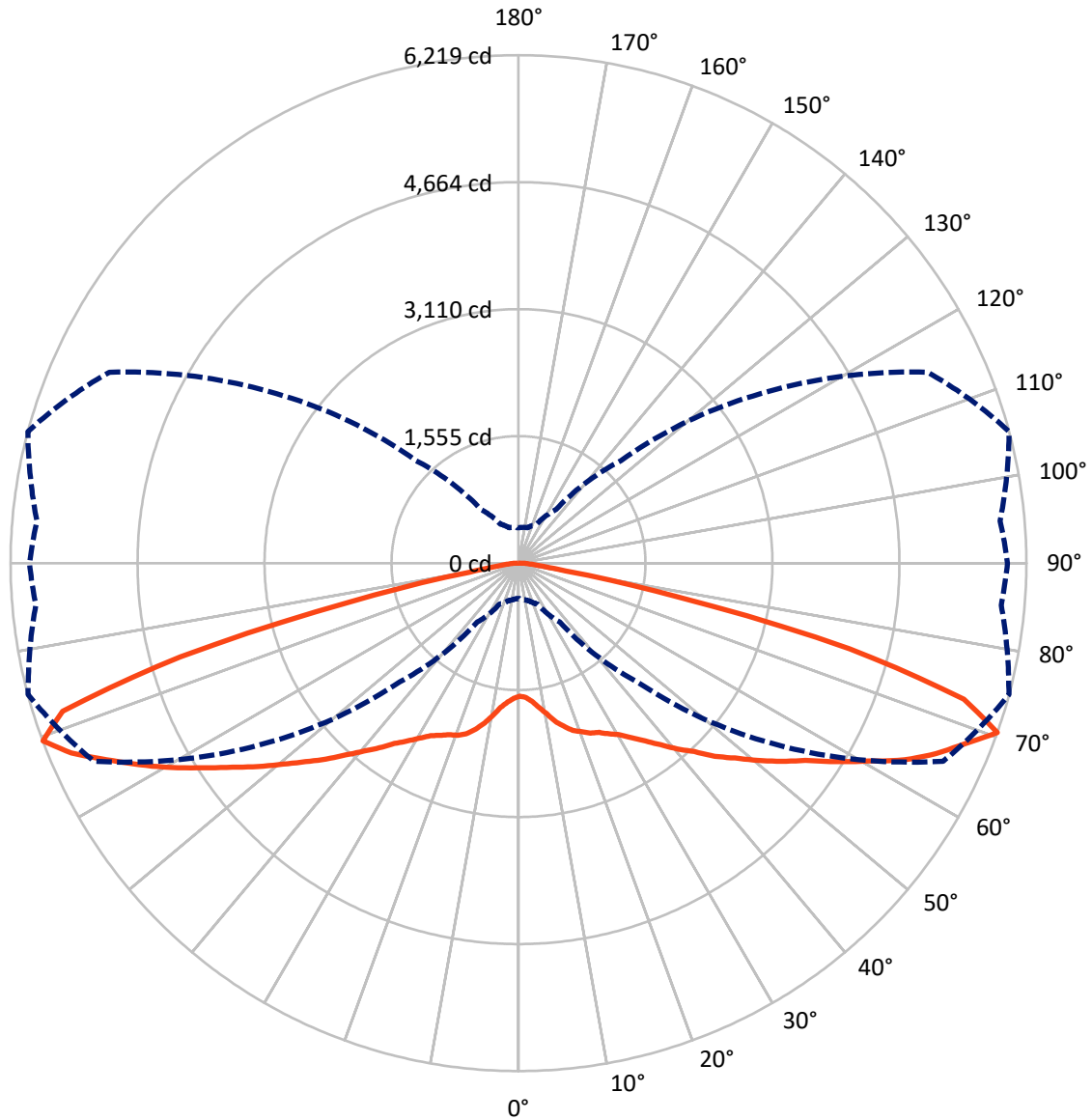
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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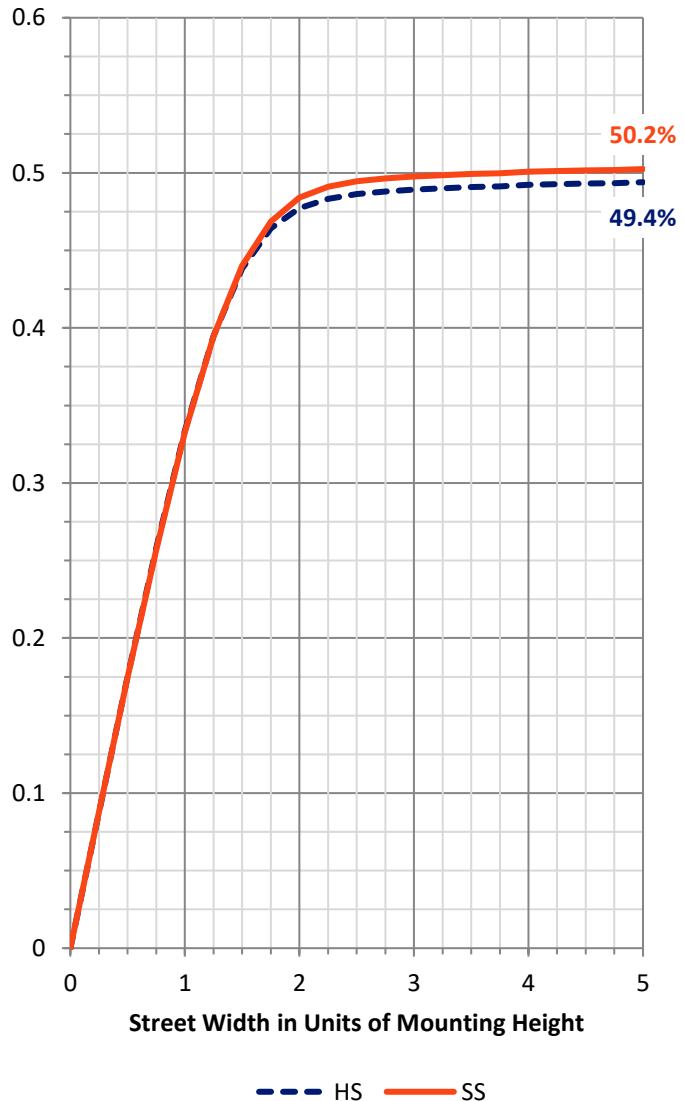
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7897.4   | 0.0    | 7897.4  |
|                    | % Fixture | 49.6     | 0.0    | 49.6    |
| <b>Street Side</b> | Lumens    | 8010.6   | 0.0    | 8010.6  |
|                    | % Fixture | 50.4     | 0.0    | 50.4    |
| <b>Total</b>       | Lumens    | 15908.0  | 0.0    | 15908.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.1   | 1.0       |
| 10°-20°   | 552.1   | 3.5       |
| 20°-30°   | 1069.0  | 6.7       |
| 30°-40°   | 1808.1  | 11.4      |
| 40°-50°   | 2884.4  | 18.1      |
| 50°-60°   | 3948.2  | 24.8      |
| 60°-70°   | 3721.4  | 23.4      |
| 70°-80°   | 1639.4  | 10.3      |
| 80°-90°   | 123.3   | 0.8       |
| 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°    | 15908.0 | 100.0     |
| 0°-180°   | 15908.0 | 100.0     |

**Coefficient of Utilization**



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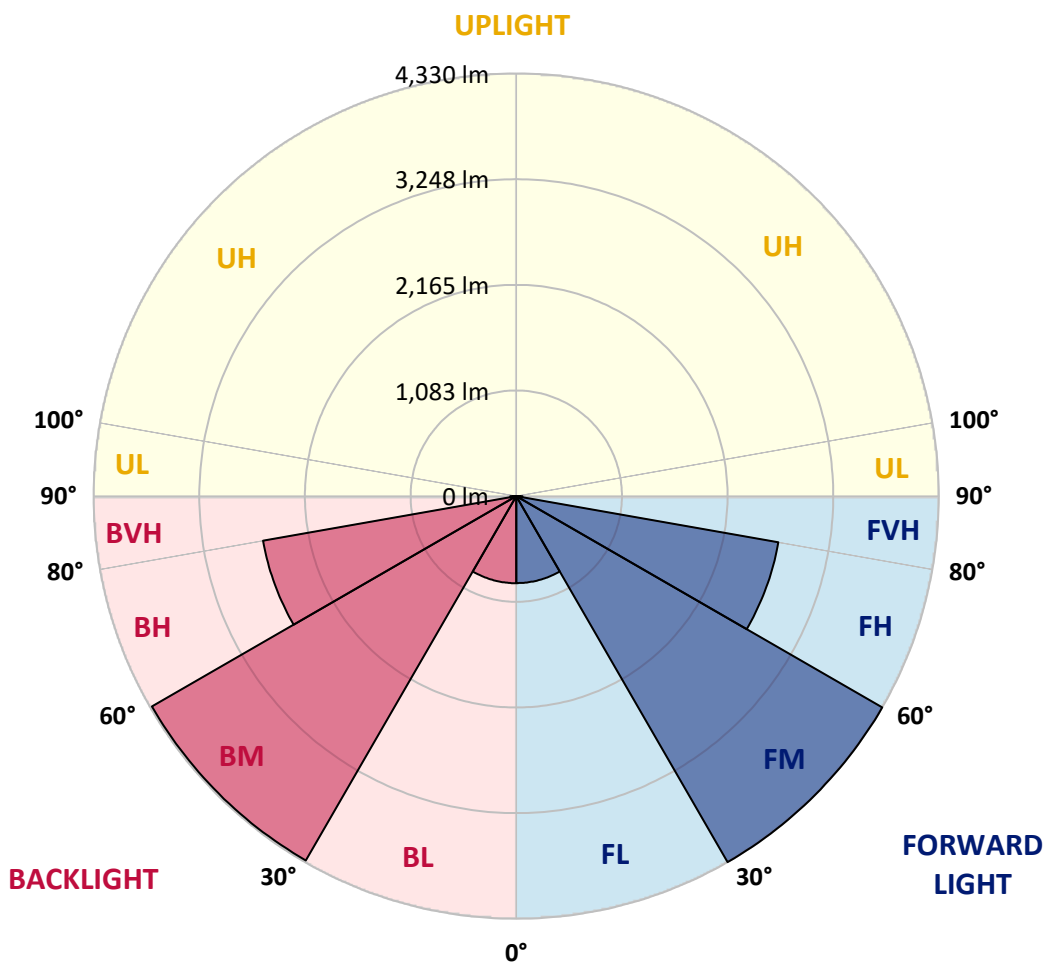
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 891.1  | 5.6       |                         |      |         |
| FM (30°-60°)   | 4330.0 | 27.2      |                         |      |         |
| FH (60°-80°)   | 2726.5 | 17.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 63.0   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 892.1  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 4310.7 | 27.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2634.3 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 60.3   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 |
| 2.5°  | 1618.7 | 1618.7 | 1617.0 | 1625.5 | 1634.1 | 1637.5 | 1644.4 | 1646.1 | 1656.4 | 1647.8 | 1665.0 |
| 5°    | 1613.5 | 1611.8 | 1625.5 | 1646.1 | 1646.1 | 1668.4 | 1682.1 | 1701.0 | 1706.1 | 1716.4 | 1719.8 |
| 7.5°  | 1649.5 | 1646.1 | 1639.3 | 1661.5 | 1680.4 | 1714.7 | 1733.6 | 1766.1 | 1778.1 | 1791.9 | 1807.3 |
| 10°   | 1671.8 | 1671.8 | 1665.0 | 1704.4 | 1721.6 | 1767.9 | 1809.0 | 1841.6 | 1887.9 | 1903.3 | 1905.0 |
| 12.5° | 1675.3 | 1680.4 | 1701.0 | 1752.4 | 1800.4 | 1860.4 | 1891.3 | 1953.0 | 1999.3 | 2028.5 | 2038.8 |
| 15°   | 1726.7 | 1716.4 | 1738.7 | 1809.0 | 1879.3 | 1932.5 | 1987.3 | 2031.9 | 2098.8 | 2136.5 | 2160.5 |
| 17.5° | 1773.0 | 1762.7 | 1803.9 | 1887.9 | 1959.9 | 2042.2 | 2090.2 | 2138.2 | 2186.2 | 2220.5 | 2222.3 |
| 20°   | 1846.7 | 1855.3 | 1891.3 | 1982.2 | 2076.5 | 2148.5 | 2203.4 | 2212.0 | 2236.0 | 2285.7 | 2277.1 |
| 22.5° | 1937.6 | 1930.8 | 2006.2 | 2105.7 | 2208.5 | 2268.5 | 2299.4 | 2277.1 | 2265.1 | 2318.3 | 2330.3 |
| 25°   | 2028.5 | 2049.1 | 2117.7 | 2210.2 | 2333.7 | 2414.3 | 2422.9 | 2361.1 | 2316.6 | 2335.4 | 2330.3 |
| 27.5° | 2167.4 | 2170.8 | 2242.8 | 2352.6 | 2477.7 | 2548.0 | 2542.9 | 2455.4 | 2369.7 | 2371.4 | 2374.9 |
| 30°   | 2345.7 | 2328.6 | 2407.4 | 2506.9 | 2630.3 | 2693.8 | 2702.4 | 2577.2 | 2462.3 | 2428.0 | 2436.6 |
| 32.5° | 2517.2 | 2537.8 | 2606.3 | 2719.5 | 2810.4 | 2846.4 | 2827.5 | 2716.1 | 2566.9 | 2520.6 | 2525.8 |
| 35°   | 2736.7 | 2733.2 | 2827.5 | 2923.6 | 2992.2 | 2999.0 | 2983.6 | 2820.7 | 2680.1 | 2620.1 | 2596.1 |
| 37.5° | 2971.6 | 3002.4 | 3064.2 | 3143.0 | 3215.1 | 3218.5 | 3134.5 | 3004.2 | 2831.0 | 2731.5 | 2760.7 |
| 40°   | 3233.9 | 3268.2 | 3312.8 | 3427.7 | 3480.8 | 3426.0 | 3340.2 | 3163.6 | 2983.6 | 2896.1 | 2909.8 |
| 42.5° | 3465.4 | 3480.8 | 3571.7 | 3707.2 | 3732.9 | 3708.9 | 3582.0 | 3367.7 | 3158.5 | 3062.5 | 3069.3 |
| 45°   | 3678.0 | 3698.6 | 3816.9 | 3938.7 | 3998.7 | 3957.5 | 3810.1 | 3606.0 | 3362.5 | 3280.2 | 3247.6 |
| 47.5° | 3873.5 | 3914.7 | 4029.5 | 4154.7 | 4247.3 | 4250.7 | 4069.0 | 3822.1 | 3564.9 | 3456.8 | 3455.1 |
| 50°   | 4005.5 | 4065.6 | 4178.7 | 4321.0 | 4456.5 | 4509.7 | 4327.9 | 4062.1 | 3786.1 | 3671.2 | 3659.2 |
| 52.5° | 4077.6 | 4139.3 | 4252.5 | 4473.7 | 4624.5 | 4706.8 | 4621.1 | 4286.7 | 4045.0 | 3924.9 | 3906.1 |
| 55°   | 3990.1 | 4031.3 | 4216.4 | 4526.8 | 4760.0 | 4895.5 | 4838.9 | 4597.1 | 4302.2 | 4204.4 | 4221.6 |
| 57.5° | 3618.0 | 3703.8 | 3931.8 | 4319.3 | 4756.6 | 5089.2 | 5084.1 | 4890.3 | 4598.8 | 4506.2 | 4509.7 |
| 60°   | 2978.4 | 3050.5 | 3331.7 | 3873.5 | 4564.5 | 5168.1 | 5349.9 | 5175.0 | 4931.5 | 4823.4 | 4820.0 |
| 62.5° | 2102.2 | 2193.1 | 2518.9 | 3110.5 | 3998.7 | 5058.4 | 5655.1 | 5533.3 | 5257.3 | 5178.4 | 5207.5 |
| 65°   | 1176.3 | 1231.2 | 1532.9 | 2067.9 | 3047.0 | 4454.8 | 5709.9 | 5905.4 | 5588.2 | 5468.2 | 5473.3 |
| 67.5° | 629.3  | 649.9  | 790.5  | 1085.4 | 1863.9 | 3434.5 | 5156.1 | 6119.8 | 5946.6 | 5739.1 | 5706.5 |
| 70°   | 432.1  | 439.0  | 475.0  | 555.6  | 881.4  | 2054.2 | 3888.9 | 5737.4 | 6215.8 | 5932.9 | 5987.7 |
| 72.5° | 365.2  | 361.8  | 370.4  | 378.9  | 461.3  | 919.1  | 2282.3 | 4415.4 | 5867.7 | 5761.4 | 5740.8 |
| 75°   | 317.2  | 315.5  | 318.9  | 310.4  | 320.6  | 404.7  | 1010.0 | 2752.1 | 4295.3 | 4794.3 | 4871.5 |
| 77.5° | 262.3  | 264.1  | 265.8  | 257.2  | 253.8  | 267.5  | 406.4  | 1208.9 | 2114.2 | 2333.7 | 2517.2 |
| 80°   | 198.9  | 202.3  | 216.1  | 207.5  | 193.8  | 195.5  | 240.1  | 404.7  | 607.0  | 550.4  | 567.6  |
| 82.5° | 135.5  | 137.2  | 166.3  | 156.0  | 145.7  | 132.0  | 154.3  | 209.2  | 236.6  | 180.0  | 157.8  |
| 85°   | 96.0   | 94.3   | 108.0  | 99.5   | 92.6   | 66.9   | 92.6   | 118.3  | 142.3  | 89.2   | 80.6   |
| 87.5° | 22.3   | 22.3   | 44.6   | 36.0   | 34.3   | 27.4   | 36.0   | 46.3   | 61.7   | 39.4   | 36.0   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 | 1629.0 |
| 2.5°  | 1659.8 | 1644.4 | 1644.4 | 1641.0 | 1627.2 | 1623.8 | 1611.8 | 1615.2 | 1606.7 | 1598.1 |
| 5°    | 1718.1 | 1697.6 | 1697.6 | 1668.4 | 1641.0 | 1637.5 | 1623.8 | 1623.8 | 1610.1 | 1613.5 |
| 7.5°  | 1798.7 | 1779.9 | 1749.0 | 1723.3 | 1685.5 | 1670.1 | 1644.4 | 1641.0 | 1637.5 | 1630.7 |
| 10°   | 1894.7 | 1870.7 | 1839.9 | 1786.7 | 1755.9 | 1726.7 | 1701.0 | 1665.0 | 1656.4 | 1658.1 |
| 12.5° | 2025.1 | 1987.3 | 1920.5 | 1874.2 | 1834.7 | 1797.0 | 1759.3 | 1706.1 | 1694.1 | 1699.3 |
| 15°   | 2117.7 | 2069.6 | 2002.8 | 1985.6 | 1932.5 | 1886.2 | 1824.4 | 1764.4 | 1743.8 | 1738.7 |
| 17.5° | 2193.1 | 2153.7 | 2114.2 | 2088.5 | 2045.6 | 1989.1 | 1903.3 | 1834.7 | 1788.4 | 1783.3 |
| 20°   | 2254.8 | 2203.4 | 2194.8 | 2210.2 | 2157.1 | 2119.4 | 2014.8 | 1930.8 | 1869.0 | 1843.3 |
| 22.5° | 2292.6 | 2260.0 | 2284.0 | 2297.7 | 2294.3 | 2230.8 | 2122.8 | 2025.1 | 1947.9 | 1923.9 |
| 25°   | 2333.7 | 2296.0 | 2381.7 | 2428.0 | 2440.0 | 2335.4 | 2251.4 | 2122.8 | 2047.4 | 2031.9 |
| 27.5° | 2354.3 | 2368.0 | 2467.5 | 2565.2 | 2556.6 | 2476.0 | 2362.9 | 2248.0 | 2188.0 | 2160.5 |
| 30°   | 2414.3 | 2436.6 | 2587.5 | 2697.2 | 2698.9 | 2620.1 | 2534.3 | 2404.0 | 2337.1 | 2325.1 |
| 32.5° | 2522.3 | 2549.8 | 2710.9 | 2827.5 | 2848.1 | 2788.1 | 2702.4 | 2621.8 | 2553.2 | 2525.8 |
| 35°   | 2604.6 | 2674.9 | 2856.7 | 2963.0 | 3017.9 | 2981.9 | 2933.9 | 2849.8 | 2777.8 | 2753.8 |
| 37.5° | 2722.9 | 2820.7 | 2995.6 | 3139.6 | 3201.3 | 3197.9 | 3161.9 | 3071.0 | 3011.0 | 2990.4 |
| 40°   | 2892.7 | 2990.4 | 3149.9 | 3340.2 | 3455.1 | 3450.0 | 3429.4 | 3359.1 | 3269.9 | 3259.6 |
| 42.5° | 3072.7 | 3153.3 | 3360.8 | 3578.6 | 3743.2 | 3726.0 | 3671.2 | 3588.9 | 3527.1 | 3513.4 |
| 45°   | 3247.6 | 3372.8 | 3564.9 | 3844.4 | 3967.8 | 4010.7 | 3945.5 | 3804.9 | 3734.6 | 3726.0 |
| 47.5° | 3467.1 | 3566.6 | 3806.6 | 4057.0 | 4240.5 | 4247.3 | 4135.9 | 4005.5 | 3876.9 | 3904.4 |
| 50°   | 3662.6 | 3794.6 | 4038.1 | 4312.5 | 4532.0 | 4453.1 | 4310.8 | 4147.9 | 4055.3 | 4019.3 |
| 52.5° | 3871.8 | 4033.0 | 4315.9 | 4595.4 | 4717.1 | 4638.3 | 4406.8 | 4225.0 | 4084.4 | 4069.0 |
| 55°   | 4177.0 | 4261.0 | 4631.4 | 4845.7 | 4885.2 | 4718.9 | 4377.6 | 4120.4 | 3938.7 | 3894.1 |
| 57.5° | 4487.4 | 4585.1 | 4909.2 | 5094.4 | 5053.2 | 4674.3 | 4189.0 | 3791.2 | 3552.9 | 3489.4 |
| 60°   | 4801.2 | 4921.2 | 5193.8 | 5363.6 | 5151.0 | 4367.3 | 3655.7 | 3143.0 | 2865.3 | 2808.7 |
| 62.5° | 5151.0 | 5307.0 | 5550.5 | 5610.5 | 4861.2 | 3760.3 | 2901.3 | 2268.5 | 1987.3 | 1893.0 |
| 65°   | 5461.3 | 5620.8 | 5920.9 | 5559.1 | 4245.6 | 2805.2 | 1875.9 | 1296.3 | 1088.8 | 1013.4 |
| 67.5° | 5716.8 | 5896.9 | 6044.3 | 4919.5 | 3108.7 | 1642.7 | 977.4  | 682.5  | 605.3  | 577.9  |
| 70°   | 5919.1 | 6219.2 | 5529.9 | 3616.3 | 1776.4 | 800.8  | 528.1  | 449.3  | 439.0  | 432.1  |
| 72.5° | 5742.5 | 5703.1 | 4129.0 | 2086.8 | 778.5  | 440.7  | 382.4  | 370.4  | 368.7  | 370.4  |
| 75°   | 4696.6 | 4189.0 | 2469.2 | 907.1  | 391.0  | 318.9  | 317.2  | 312.1  | 320.6  | 320.6  |
| 77.5° | 2278.8 | 1992.5 | 1032.2 | 389.2  | 257.2  | 250.3  | 258.9  | 258.9  | 258.9  | 258.9  |
| 80°   | 528.1  | 584.7  | 368.7  | 236.6  | 186.9  | 186.9  | 205.8  | 207.5  | 198.9  | 195.5  |
| 82.5° | 180.0  | 240.1  | 202.3  | 149.2  | 123.5  | 138.9  | 156.0  | 159.5  | 132.0  | 133.7  |
| 85°   | 89.2   | 140.6  | 109.7  | 85.7   | 63.4   | 85.7   | 101.2  | 106.3  | 90.9   | 87.4   |
| 87.5° | 41.2   | 61.7   | 41.2   | 29.1   | 22.3   | 30.9   | 29.1   | 24.0   | 13.7   | 13.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)