

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: P478820

Luminaire Tested: **IFLD-S-SA3B-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478820  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

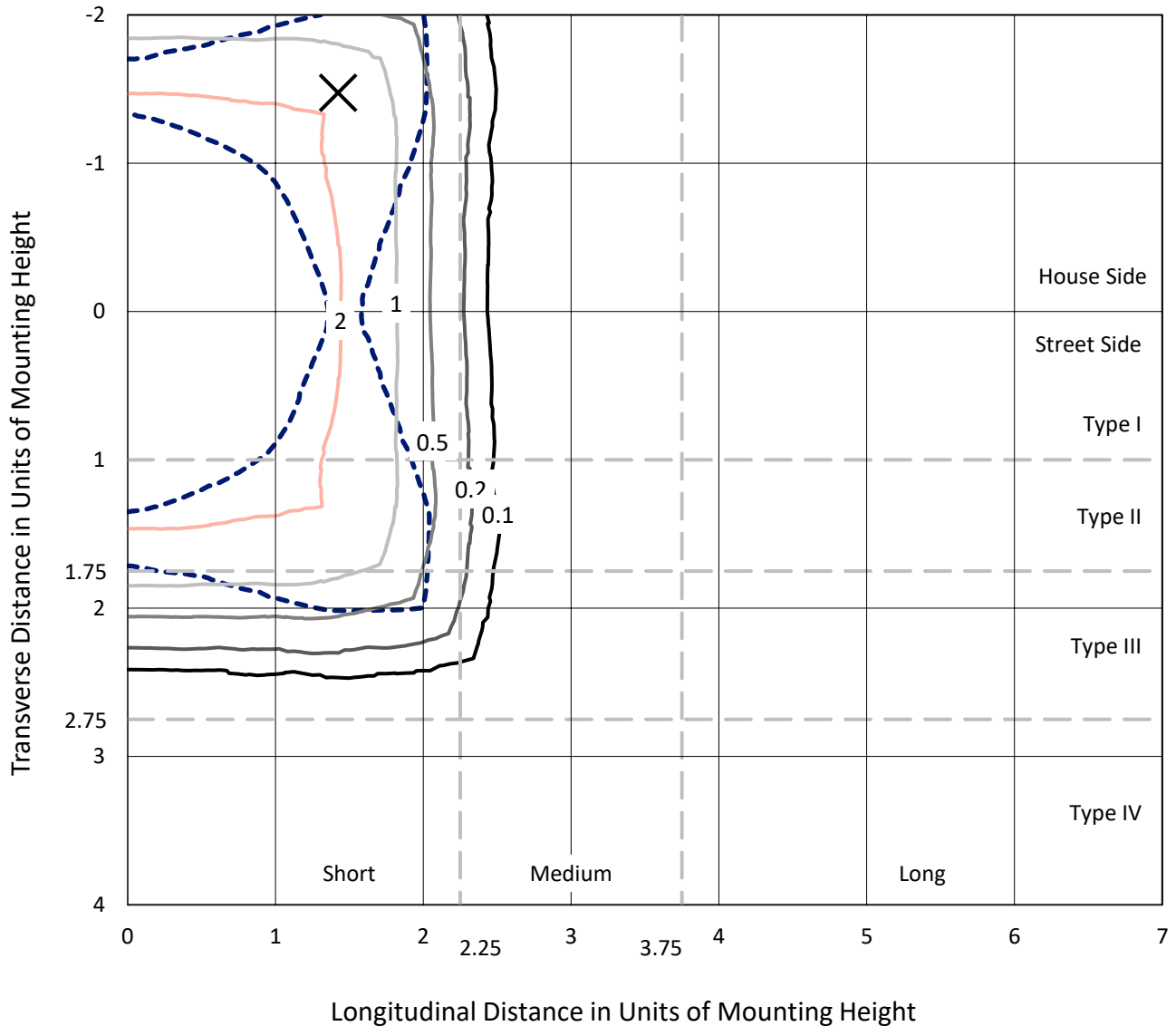
Lumens per Lamp: N/A  
Luminaire Lumens: 14193 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4  
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

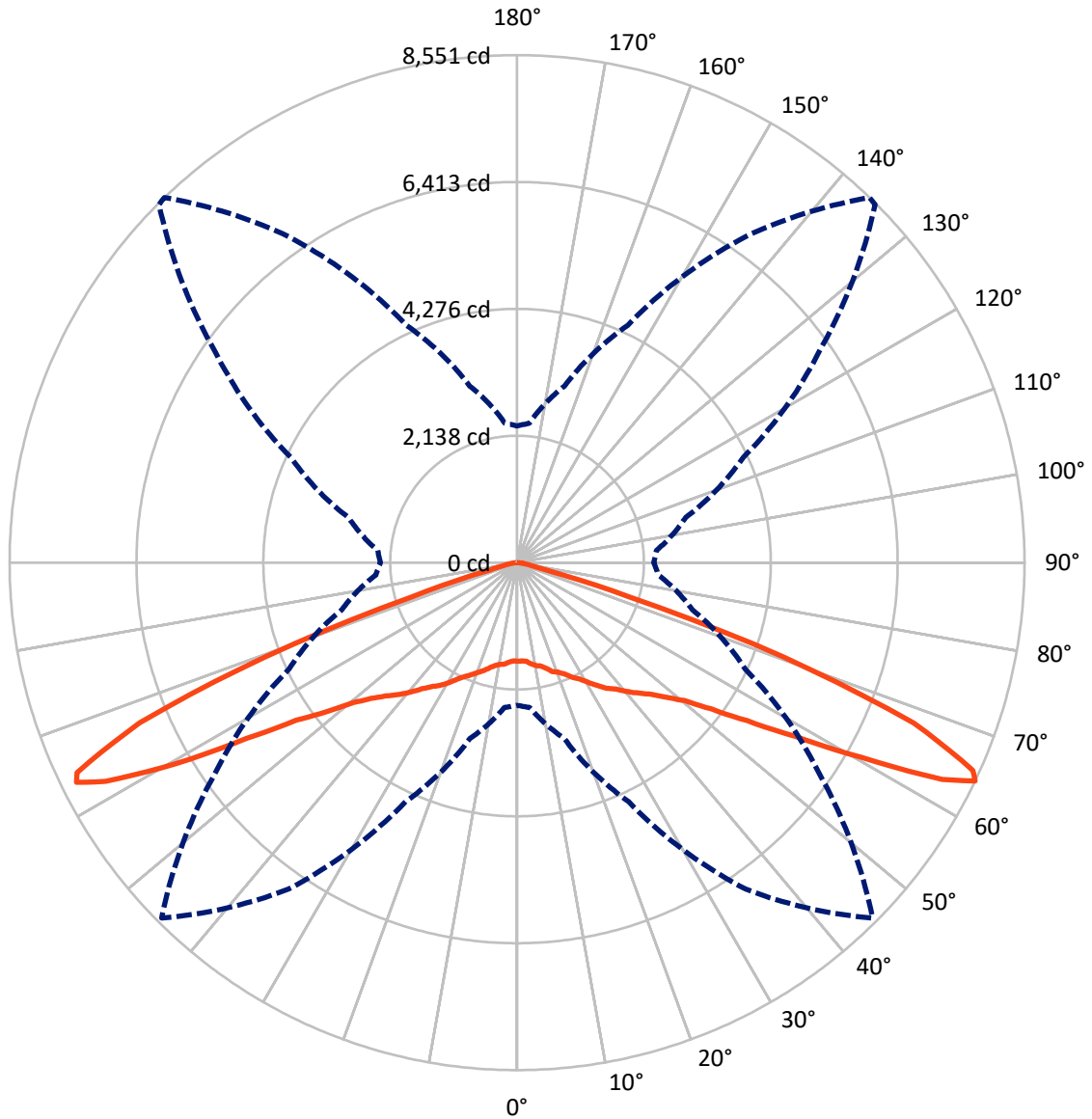
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7103.2   | 0.0    | 7103.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7089.7   | 0.0    | 7089.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14193.0  | 0.0    | 14193.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 163.3   | 1.2       |
| 10°-20°   | 526.2   | 3.7       |
| 20°-30°   | 989.0   | 7.0       |
| 30°-40°   | 1631.1  | 11.5      |
| 40°-50°   | 2550.9  | 18.0      |
| 50°-60°   | 4121.6  | 29.0      |
| 60°-70°   | 3711.2  | 26.1      |
| 70°-80°   | 439.6   | 3.1       |
| 80°-90°   | 60.2    | 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°    | 14193.0 | 100.0     |
| 0°-180°   | 14193.0 | 100.0     |

**Coefficient of Utilization**



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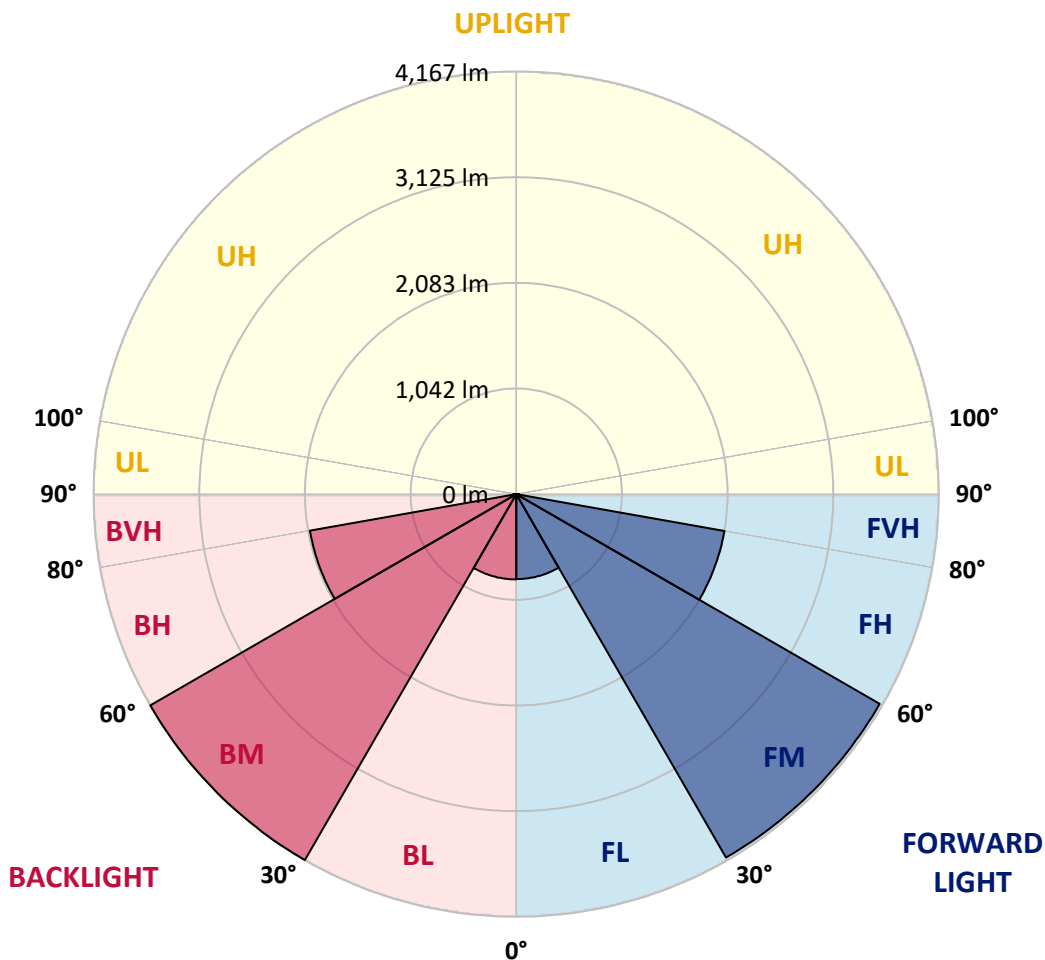
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 837.6  | 5.9       |                         |      |         |
| FM (30°-60°)   | 4136.8 | 29.1      |                         |      |         |
| FH (60°-80°)   | 2084.4 | 14.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 30.9   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 840.9  | 5.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 4166.7 | 29.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 2066.4 | 14.6      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 29.3   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 |
| 2.5°  | 1642.2 | 1645.4 | 1674.7 | 1663.3 | 1673.1 | 1655.2 | 1668.2 | 1695.9 | 1663.3 | 1687.7 | 1695.9 |
| 5°    | 1660.1 | 1665.0 | 1665.0 | 1676.4 | 1682.9 | 1679.6 | 1687.7 | 1676.4 | 1707.3 | 1694.3 | 1713.8 |
| 7.5°  | 1725.2 | 1717.0 | 1704.0 | 1713.8 | 1715.4 | 1723.6 | 1731.7 | 1746.3 | 1741.5 | 1730.1 | 1749.6 |
| 10°   | 1736.6 | 1730.1 | 1749.6 | 1751.2 | 1743.1 | 1736.6 | 1744.7 | 1744.7 | 1759.4 | 1762.6 | 1762.6 |
| 12.5° | 1756.1 | 1762.6 | 1761.0 | 1774.0 | 1775.6 | 1770.8 | 1783.8 | 1808.2 | 1801.7 | 1806.6 | 1795.2 |
| 15°   | 1831.0 | 1822.8 | 1821.2 | 1834.2 | 1855.4 | 1824.5 | 1847.2 | 1845.6 | 1839.1 | 1848.9 | 1822.8 |
| 17.5° | 1896.1 | 1870.0 | 1881.4 | 1902.6 | 1894.4 | 1901.0 | 1930.2 | 1904.2 | 1910.7 | 1899.3 | 1891.2 |
| 20°   | 1953.0 | 1931.9 | 1933.5 | 1941.6 | 1941.6 | 1961.2 | 1972.6 | 1962.8 | 1956.3 | 1954.7 | 1957.9 |
| 22.5° | 2016.5 | 1992.1 | 1993.7 | 2027.9 | 2039.3 | 2032.8 | 2024.6 | 2040.9 | 2044.2 | 2031.2 | 2045.8 |
| 25°   | 2063.7 | 2089.7 | 2097.9 | 2114.2 | 2089.7 | 2107.7 | 2101.1 | 2132.1 | 2151.6 | 2125.6 | 2143.5 |
| 27.5° | 2187.4 | 2176.0 | 2197.2 | 2195.5 | 2215.1 | 2197.2 | 2208.6 | 2218.3 | 2226.5 | 2228.1 | 2219.9 |
| 30°   | 2298.1 | 2303.0 | 2281.8 | 2338.8 | 2293.2 | 2322.5 | 2342.0 | 2346.9 | 2356.7 | 2356.7 | 2332.2 |
| 32.5° | 2415.3 | 2405.5 | 2439.7 | 2426.6 | 2418.5 | 2441.3 | 2420.1 | 2486.9 | 2447.8 | 2470.6 | 2442.9 |
| 35°   | 2547.1 | 2547.1 | 2560.1 | 2595.9 | 2547.1 | 2532.4 | 2571.5 | 2599.2 | 2599.2 | 2558.5 | 2568.2 |
| 37.5° | 2695.2 | 2682.2 | 2698.4 | 2744.0 | 2706.6 | 2657.8 | 2729.4 | 2740.8 | 2732.6 | 2721.2 | 2701.7 |
| 40°   | 2799.4 | 2796.1 | 2828.6 | 2888.9 | 2835.2 | 2825.4 | 2838.4 | 2869.3 | 2879.1 | 2890.5 | 2864.5 |
| 42.5° | 2975.1 | 2989.8 | 3084.2 | 3069.5 | 3025.6 | 2991.4 | 2988.1 | 3103.7 | 3076.0 | 3046.7 | 3032.1 |
| 45°   | 3235.5 | 3222.5 | 3271.3 | 3273.0 | 3216.0 | 3141.1 | 3157.4 | 3263.2 | 3310.4 | 3245.3 | 3269.7 |
| 47.5° | 3442.2 | 3448.7 | 3482.9 | 3552.9 | 3421.1 | 3342.9 | 3403.2 | 3574.1 | 3559.4 | 3535.0 | 3557.8 |
| 50°   | 3718.9 | 3748.2 | 3855.6 | 3831.2 | 3714.0 | 3618.0 | 3749.8 | 3911.0 | 3928.9 | 3839.3 | 3823.1 |
| 52.5° | 4101.4 | 4146.9 | 4205.5 | 4225.1 | 4112.8 | 4078.6 | 4086.7 | 4286.9 | 4243.0 | 4156.7 | 4101.4 |
| 55°   | 4436.6 | 4457.8 | 4565.2 | 4726.3 | 4718.2 | 4553.8 | 4648.2 | 4723.1 | 4544.1 | 4366.7 | 4381.3 |
| 57.5° | 4579.9 | 4589.6 | 4889.1 | 5211.3 | 5403.4 | 5440.8 | 5333.4 | 5081.1 | 4654.7 | 4313.0 | 4291.8 |
| 60°   | 4223.4 | 4316.2 | 4677.5 | 5405.0 | 6282.3 | 6715.2 | 6000.7 | 5121.8 | 4396.0 | 3980.9 | 3950.0 |
| 62.5° | 3375.5 | 3380.4 | 3917.5 | 5020.9 | 6829.1 | 7963.5 | 6256.2 | 4739.4 | 3705.9 | 3235.5 | 3111.8 |
| 64°   | 2403.9 | 2449.4 | 3066.3 | 4444.8 | 6715.2 | 8471.3 | 6225.3 | 4239.7 | 3054.9 | 2387.6 | 2301.3 |
| 65°   | 1725.2 | 1788.7 | 2384.3 | 3858.9 | 6448.3 | 8411.1 | 6132.5 | 3810.0 | 2470.6 | 1822.8 | 1734.9 |
| 67.5° | 634.7  | 660.8  | 935.8  | 1930.2 | 4630.3 | 7167.6 | 4859.8 | 2094.6 | 1085.6 | 773.1  | 695.0  |
| 70°   | 294.6  | 296.2  | 346.7  | 638.0  | 2024.6 | 4793.1 | 2319.2 | 786.1  | 408.5  | 323.9  | 301.1  |
| 72.5° | 216.5  | 221.3  | 242.5  | 294.6  | 595.7  | 2029.5 | 761.7  | 322.3  | 239.2  | 211.6  | 206.7  |
| 75°   | 175.8  | 179.0  | 185.5  | 213.2  | 275.1  | 543.6  | 309.2  | 223.0  | 190.4  | 170.9  | 164.4  |
| 77.5° | 135.1  | 135.1  | 149.7  | 162.8  | 182.3  | 253.9  | 205.1  | 177.4  | 154.6  | 135.1  | 130.2  |
| 80°   | 97.7   | 99.3   | 117.2  | 126.9  | 123.7  | 167.6  | 148.1  | 146.5  | 126.9  | 105.8  | 97.7   |
| 82.5° | 57.0   | 61.8   | 84.6   | 91.1   | 87.9   | 99.3   | 107.4  | 113.9  | 99.3   | 73.2   | 66.7   |
| 85°   | 32.6   | 34.2   | 48.8   | 50.5   | 50.5   | 47.2   | 61.8   | 68.4   | 66.7   | 45.6   | 40.7   |
| 87.5° | 9.8    | 9.8    | 13.0   | 13.0   | 14.6   | 16.3   | 24.4   | 29.3   | 32.6   | 22.8   | 21.2   |
| 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°   | 136°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 | 1661.7 |
| 2.5°  | 1687.7 | 1663.3 | 1665.0 | 1671.5 | 1650.3 | 1658.5 | 1682.9 | 1665.0 | 1660.1 | 1650.3 | 1645.4 |
| 5°    | 1679.6 | 1705.7 | 1695.9 | 1699.1 | 1694.3 | 1671.5 | 1668.2 | 1682.9 | 1691.0 | 1676.4 | 1705.7 |
| 7.5°  | 1736.6 | 1725.2 | 1712.2 | 1717.0 | 1705.7 | 1725.2 | 1738.2 | 1708.9 | 1723.6 | 1715.4 | 1699.1 |
| 10°   | 1769.1 | 1748.0 | 1757.7 | 1754.5 | 1746.3 | 1765.9 | 1752.8 | 1749.6 | 1736.6 | 1718.7 | 1744.7 |
| 12.5° | 1780.5 | 1804.9 | 1821.2 | 1793.5 | 1798.4 | 1788.7 | 1780.5 | 1780.5 | 1765.9 | 1761.0 | 1765.9 |
| 15°   | 1831.0 | 1852.1 | 1845.6 | 1866.8 | 1839.1 | 1848.9 | 1858.6 | 1834.2 | 1847.2 | 1811.4 | 1839.1 |
| 17.5° | 1923.7 | 1905.8 | 1928.6 | 1901.0 | 1910.7 | 1930.2 | 1899.3 | 1899.3 | 1909.1 | 1889.6 | 1865.1 |
| 20°   | 1982.3 | 1974.2 | 1966.1 | 1967.7 | 1951.4 | 1969.3 | 1959.5 | 1954.7 | 1940.0 | 1946.5 | 1959.5 |
| 22.5° | 2037.7 | 2026.3 | 2029.5 | 2034.4 | 2045.8 | 2037.7 | 2032.8 | 2037.7 | 2001.9 | 2034.4 | 1988.8 |
| 25°   | 2106.0 | 2136.9 | 2127.2 | 2148.3 | 2115.8 | 2136.9 | 2135.3 | 2104.4 | 2123.9 | 2110.9 | 2101.1 |
| 27.5° | 2219.9 | 2203.7 | 2218.3 | 2192.3 | 2215.1 | 2216.7 | 2197.2 | 2249.2 | 2226.5 | 2223.2 | 2216.7 |
| 30°   | 2366.4 | 2355.0 | 2345.3 | 2330.6 | 2348.5 | 2333.9 | 2350.2 | 2355.0 | 2333.9 | 2317.6 | 2286.7 |
| 32.5° | 2449.4 | 2480.4 | 2491.7 | 2455.9 | 2457.6 | 2465.7 | 2451.1 | 2436.4 | 2449.4 | 2454.3 | 2449.4 |
| 35°   | 2566.6 | 2595.9 | 2602.4 | 2574.8 | 2560.1 | 2600.8 | 2571.5 | 2620.3 | 2578.0 | 2579.6 | 2535.7 |
| 37.5° | 2703.3 | 2711.5 | 2766.8 | 2735.9 | 2722.9 | 2703.3 | 2757.0 | 2750.5 | 2760.3 | 2682.2 | 2721.2 |
| 40°   | 2857.9 | 2887.2 | 2918.2 | 2840.0 | 2838.4 | 2856.3 | 2853.1 | 2890.5 | 2872.6 | 2861.2 | 2833.5 |
| 42.5° | 3027.2 | 3089.1 | 3093.9 | 3041.9 | 3009.3 | 3006.0 | 3022.3 | 3105.3 | 3107.0 | 3032.1 | 2999.5 |
| 45°   | 3251.8 | 3320.2 | 3302.3 | 3201.3 | 3165.5 | 3160.7 | 3240.4 | 3276.2 | 3307.1 | 3277.8 | 3250.2 |
| 47.5° | 3531.7 | 3577.3 | 3564.3 | 3471.5 | 3356.0 | 3388.5 | 3466.6 | 3578.9 | 3546.4 | 3507.3 | 3474.8 |
| 50°   | 3831.2 | 3884.9 | 3857.2 | 3764.5 | 3653.8 | 3653.8 | 3749.8 | 3893.0 | 3883.3 | 3806.8 | 3777.5 |
| 52.5° | 4163.2 | 4241.3 | 4304.8 | 4173.0 | 4080.2 | 4094.9 | 4246.2 | 4298.3 | 4273.9 | 4220.2 | 4195.8 |
| 55°   | 4410.6 | 4560.3 | 4690.5 | 4697.0 | 4701.9 | 4700.3 | 4739.4 | 4791.4 | 4617.3 | 4531.0 | 4443.2 |
| 57.5° | 4350.4 | 4633.6 | 5079.5 | 5382.2 | 5471.8 | 5519.0 | 5505.9 | 5265.1 | 4853.3 | 4570.1 | 4599.4 |
| 60°   | 3920.7 | 4382.9 | 5102.3 | 6073.9 | 6725.0 | 6659.8 | 6422.2 | 5470.1 | 4723.1 | 4244.6 | 4184.4 |
| 62.5° | 3128.1 | 3684.7 | 4719.8 | 6269.2 | 8062.8 | 8043.2 | 6799.8 | 4996.5 | 3935.4 | 3329.9 | 3292.5 |
| 64°   | 2356.7 | 2942.6 | 4210.4 | 6218.8 | 8531.5 | 8551.0 | 6703.8 | 4413.9 | 3079.3 | 2356.7 | 2299.7 |
| 65°   | 1803.3 | 2346.9 | 3710.8 | 6114.6 | 8430.6 | 8442.0 | 6436.9 | 3811.7 | 2340.4 | 1673.1 | 1611.3 |
| 67.5° | 717.7  | 999.3  | 2013.3 | 4636.8 | 7239.2 | 7208.3 | 4592.9 | 1844.0 | 895.1  | 582.7  | 571.3  |
| 70°   | 306.0  | 380.8  | 706.3  | 2197.2 | 4846.8 | 4757.3 | 1977.4 | 598.9  | 332.0  | 278.3  | 276.7  |
| 72.5° | 210.0  | 232.7  | 302.7  | 678.7  | 2014.9 | 1967.7 | 563.1  | 278.3  | 226.2  | 208.3  | 208.3  |
| 75°   | 169.3  | 185.5  | 219.7  | 284.8  | 533.8  | 514.3  | 265.3  | 205.1  | 180.7  | 167.6  | 166.0  |
| 77.5° | 131.8  | 148.1  | 172.5  | 196.9  | 244.1  | 242.5  | 177.4  | 154.6  | 140.0  | 130.2  | 126.9  |
| 80°   | 104.2  | 120.4  | 136.7  | 140.0  | 159.5  | 156.2  | 120.4  | 122.1  | 113.9  | 94.4   | 92.8   |
| 82.5° | 71.6   | 97.7   | 109.0  | 99.3   | 94.4   | 94.4   | 86.3   | 86.3   | 79.7   | 58.6   | 53.7   |
| 85°   | 43.9   | 65.1   | 68.4   | 58.6   | 43.9   | 43.9   | 47.2   | 45.6   | 42.3   | 30.9   | 29.3   |
| 87.5° | 22.8   | 30.9   | 27.7   | 22.8   | 14.6   | 14.6   | 13.0   | 9.8    | 9.8    | 8.1    | 8.1    |
| 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)